1970 FULL LINE ANNUAL **RADIO-TV ELECTRONICS CATALOG**

SEE PAGE 258H FOR INDEX

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BURSTEIN-APPLEBEE

SINCE 1927

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EVERYTHING IN RADIO-TV AND ELECTRCNICS

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CATALOG

NO. 701

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arrard "MODULE SERIES" **OMATIC TURNTABLES**

EACH MODULE UNIT COMES COMPLETE, PREWIRED EACH MODULE UNIT COMES COMPLETE, PREWIRED READY TO PLUG IN, WITH APPROPRIATE CAR-TRIDGE INSTALLED AND PRE-SET TO CORRECT TRACKING FORCE... EACH MOUNTED ON A GARRARD BASE WITH 3-WAY DUST COVER (EXCEPT X-11 WHICH IS SUPPLIED WITH SPECIALLY MATCHED "DEMI" BASE AND DUST COVER).

AUTOMATIC TURNTABLE

AUTOMATIC TURNIABLE The SLX-3 is based on the features and mechanism of Garrard's finest quality automatic turntable the SL95B. It comes complete with a world-famous magnetic cartridge, capable of tracking under 1½ grams, with elliptical stylus pre-mounted in its counter-balanced, low-mass arm. The entire assembly is pre-mounted on Carrard's beautiful molded base with built-in spindle storage compartments, and includes: a matching three-way dust cover. Special features include broad surface record support platform for sure steady control of the records. Three simple separate "up-front" controls for automatic play, manual motor control, viscous damped cueing for raising and lowering arm in both manual and automatic mode. Damped set-down for the first time the tone arm is lowered by viscous damping during change cycle. New stylus force adjustment screw at rear of the arm, pressure is readily read through window. Adjustable anti-skating control uses no springs. Large turntable is lightweight but magnificently balanced and precision matched to the kinetic energy of the synchronous motor for constant speed. Size: 163/4" W. x 151/4" D. x 81/4" H. Sh92.50

No. 33A647. Net Each

\$99.50

SEE PAGE 4 FOR FULL LINE OF GARRARD ACCESSORIES



NEW MODEL SLX-2 FAMOUS SYNCHRO-LAB TURNTABLE

SYNCHRO-LAB TURNTABLE Garrard 3-speed synchronous automatic turntable complete with fine quality high compliance mag-metic cartridge pre-mounted on coordinated base, ready to plug into components and play. Tracking torce has been pre-set (a stylus pressure gauge is built into tonearm). Has cueing and pause control, interchangeable spindles: convenient short spindle for playing single records manually; long center drop spindle for automatic play. Adaptor supplied for single play of 45 RPM records. Spindle re-moves for safety and convenience when taking records off turntable. Combined speed and size selector for 33, 45 and 78 RPM, 12", 10" and 7" records. SIze: left to right 15"; front to rear 131/4"; 734" high. SLX-2 Changer complete with Cartridge. Mounted on Base, with Dust Cover. \$69.50

Garrard

X-10 3-SPEED AUTOMATIC TURNTABLE MODULE

TURN TABLE MODULE The ideal turntable module that fits the system for the young at heart. Features diamond ceramic cartridge with flipover cartridge installed; with base and matching dust cover. The entire record-playing source pre-assembled, wired, ready-to-plug into table radios, FM stereo radios, budget component systems, TV sets, tape recorders, and cassette ma-chines, and as a replacement in brand name con-soles. Has low-mass, pencil thin tubular aluminum tore arm of advanced design. A convenient single lever cueing and pause control for both manual and automatic play. Two Interchangeable spindles: long (for automatic play) short (for manual play). Size: 15" W. x 13¼" D. x 73¼" H. Shpg. vt. 17 lbs. No. 33A648.

\$52.50

Garrard

X-11 MODULE "DEMI-CHANGER" **4-SPEED AUTOMATIC TURNTABLE**

4-SPEED AUTUMATIC TURNIABLE It's a light and lively miniature that's perfect for the small system A complete package ready to plug in and play through table radios, FM stereo radios, compact stereo systems, tape recorders and cassette machines. Ebony turntable on a green unit plate, set off by an ebony pinseal base with spar-kling silver trim and tinted styrene dust cover. The "Bantam" entry is only 13½" W. x 10" D. x 6½" H. Small enough to fit on a bedside table. Advanced design, low-mass tubular tonearm has been pre-cisely balanced. Ceramic cartridge with flip-over diamond stylus assembly. Exclusive feature for a changer of this size ... plays single records automatically or manually with short manual spindle supplied. Shop. wt. 10 lbs. No. 33A649.

No. 33A649. \$39.95 Net Each

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No. 33A648. Net Each

2



SHURE PICKERING EMPIRE JUST A PENNY MORE BUYS ONE OF THESE FAMOUS CARTRIDGES WITH PURCHASE OF TURNTABLE

Personifies a new high in engineering achievement. Rotor is in two sections; an induction rotor provides high starting torque and instantly accelerates the motor to the correct speed, and a permanent magnet rotor which provides continuous motive force at synchronous speed - . . motor runs at perfect constant speed regardless of variations in voltage, circuit load, tempera-ture, stylus pressure, level of record modu-lation of turntable load. lation of turntable load.

EEB

MODEL SL95B

MODEL SLIZE

3

238

MODEL SL75B

VODEL SLOB

GARRARD

SYNCHRO-

LAB

MOTOR

MODEL SL95B 3-SPEED AUTOMATIC TRANSCRIPTION TURNTABLE

The New Standard of the industry with all new reatures; Synchro-Lab motor, 12" aluminum turn-table. Advanced ultra-low mass tone arm of aluminum with Alermosia wood inserts for low reson-ance damping. Gyroscopic gimballed plvots for minimal friction. Adjustable counterweight, isolated with rubber, Stylus force adjustment dial with detents stops at 14 grams; and visual markings in 1/2 gram incraments, from 0 to 5 grams. Cattridge clip, interchangeable for convenient. Inexpensive mounting and replacing of cartridge, eliminates need for plug-in shells. Adjustable anti-skating control. Simple patented lever type, calibrated in 1/2 grams and infinitely variable. Single play spindle, rolates with record, made of durable holisele. Detrin Automatic spindle utilizes positive safety platform which telescopes into unit plate for ingle play operation. Size: left to right 15 13/16'; front td rear 143/8'; above motor board 43/8'', below motor board 3''. Stops wt. 3 lbs. Net Each

No. 33A594, Model SL95B Turntable with Shi	ure M75-6 Cartridge. Net Each
No. 33A562. Model SL95B Turntable with Shi	
No. 33A595. Model SL958 Turntable with Shi	
Nol 33A564. Model SL95B Turntable with Pic	
No. 33A596. Model SL95B Turntable with Em	
No. 33A597. Model SL95B Turntable with Shi	
No. 33A554. Model SL95B Turntable with Pic	
No. 33A598, Model SL95B Turntable with Em	pire Elliptical 888TE Cartridge. Net Each. \$134.50

MODEL SLISB SISPEED AUTOMATIC TRANSCRIPTION TURNITALE Finest turntable in its price class! New 12" aluminum turntable balancid to match the Synchro-Lab motor. Low mass tone arm is made of twin-braced, lextruded aluminum for extra rigidity and freedom for resonance. New adjustable anti-braced, lextruded aluminum for extra rigidity and plastic. New stylis pressure a lustment assembly has precision rotating 'loptical' knob, clearly marked 0-5 in '4 gram increments. Tone arm has new carridge clip for ednyenient replacement of size selector switch (78, 45, 33)'3 RPM), a contraination manual switch and cueing control viscously damped, and a new automatic control lever function. New signed play platform Size: left to right 16 1/16" from to rear 14 9/16": above motor board 4%", below motor board 3"; No. 33A540. Model SL758 Less cartrid e and Base Stops. W, 13 libs. Net Each.

No. 33A540. Model SL75B Less cartridge and Base Shpg. wt. 13 lbs. Net Each... No. 33A608, Model SL75B Turntable with Shure M75-6 Cartridge. Net Each. No. 33A609, Model SL75B Turntable with Shure M93E Cartridge. Net Each. No. 33A555. Model SL75B Turntable with Pickering Elliptical VT5 ATE-3 Cartridge. Nit Ea. No. 33A610. Model SL75B Turntable with Empire B88E Cartridge. Net Each. No. 33A611. Model SL75B Turntable with Shure Elliptical M91E Cartridge. Net Each. No. 33A611. Model SL75B Turntable with Shure Elliptical M91E Cartridge. Net Each. No. 33A611. Model SL75B Turntable with Shure Elliptical M91E Cartridge. Net Each. No. 33A612. Model SL75B Turntable with Empire 888TE Cartridge. Net Each. No. 33A612. Model SL75B Turntable with Empire 888TE Cartridge. Net Each. \$109.51 \$109.51 \$109.51 \$109.51 \$114.50 \$114.50 \$114.50

MODEL SLI2B 3-SPEED AUTOMATIC TURNTABLE

For the person who wants the finest quality at a moderate price! Its new tone-arm is low mass, hexagon shaped of sparkling aluminum that floats within a cass gimballed mounting. Uses the same slide-in cartridge clip as used on the SL95B. The counterweight is isolated from the arm and is fully adjustable by rotating it on its lead screw. The stylus pressure gruge is adjustable by a knob on the rear of the arm with the setting indicated on a scale of the side of the arm. The turntable is machined aluminum and its weight is precisely matched to its syncro-lab motor. Shep, wt. 13 lbs. No: 33A634. Model SL72B

Less Cartridge and Base, Each	DC.60¢	5
	Shure M93E Elliptical Cartridge Each. \$89.5	1
Nb. 33A640. Model SL72B with	Pickering V15 ATE-3 Elliptical Cartridge, Each	
No. 33A641, Model SL72B with	Empire 888E Cartridge, Each	
No. 33A642. Model SL728 with	Shure M91E Elliptical Cartridge, Each	C
A T T T T T T T T T T T T T T T T T T T	A CONTRACTOR OF	

MODEL SL65B 4-SPEED AUTOMAT C TURNTABLE

Recognized as a "best buy" among all automatic turntables, it is the famous OMKII improved with the Synchro-Lab motor. Features cast, balanced, oversized turntable with large trim ring. Tubular dynamically balanced, dounterweight adjustable tone arm. Stylus pressure adjustment assembly with precision rotated knurled optical type knob Cueing and pause control Lightweight cuts away shell with cueing pointer. Automatic anti-skating assembly, supersensitive trip with Dupont Detrin, interchangeable spindles, Automatic anti-skating assembly, supersensitive trip with 1536", front to rear 131/8"; above motor board, 43/4", below motor board 27/8". Shog. No. 33A511. Model SL65B. Less Cartering and Price

Not Fash	aug and 213	.20
Net Each No. 33A635. Model SL65B Turntable with	Shure M55E Net Fach	79.5
No. 33A558. Model SL65B Turntable with	Shule M32E Cartridge, Net Each	79.5
No. 33A559, Model SL65B Turntable with	Picketing V15, ACE-3 Elliptical Cartridge. Net Each. S	79.51
No. 33A600. Model SL65B Turntable with	Shure M93E Cartridge, Net Each.	84.5
No. 33A549. Model SL65B Turntable with		84.5
No. 33A601. Model SL6SB Turntable with	Empire 888E Cartvidge. Net Each	84.5

MODEL SL55B

MODEL 403

MODEL 30



MODEL SP-20B



AUTOMATIC TURNTABLES AND ACCESSORIES

MODEL SL55B 4-SPEED AUTOMATIC TURNTABLE

Features synchronous speed and other advanced features such as viscous damped cueing priced Features synchronous speed and other advanced features such as viscous damped cueing ... priced within reach of budget conscious music lovers. Has oversize turntable with decorative turntable mat. rigid, lightweight aluminum tonearm with slide-in cartridge holder, no locking screws or chance of misalignment. New fully adjustable anti-skate control, and viscous damped cueing action lowers arm gently to prevent record and stylus damage, stylus force adjustment and scale allow more positive and accurate settings. Supplied with 2 spindles, one for single play, the other for automatic intermix. Size: left to right 14%, front to rear 1234," above motor board 434," below motor board 2%. Shpg. wt. 11 lbs. No. 33A542. Model SL558 Less Cartridge and base.

	Net	Each						421.20
	No.	33A636.	Model	SL55B	Turntable	with	Shure M55E Cartridge, Net Each	\$59.51
	No.	33A551.	Model	SL55B	Turntable	with	Shure M32E Cartridge, Net Each	\$59.51
	No.	33A552.	Model	SL55B	Turntable	with	Pickering V15/ACE-3 Cartridge. Net Each	\$59.51
	No.	33A587.	Model	SL55B	Turntable	with	Empire 808E Cartridge. Net Each	\$59.51
	No.	33A588.	Model	SL55B	Turntable	with	Shure M93E Cartridge, Net Each	\$64.50
-	No.	33A589.	Model	SL55B	Turntable	with	Pickering V15/ATE-3 Cartridge. Net Each	\$64.50
7	No.	33A590.	Model	SL55B	Turntable	with	Empire 888E Cartridge, Net Each	\$64.50

MODEL 40B AUTOMATIC TURNTABLE

Designed for outstanding performance and versatility in systems where space must be considered. Features lightweight, tubular aluminum tonearm with isolated counterweight, and new viscous damped single-lever cueing/pause control which prevents record wear and stylus damage, adjustable pressure control with visible scale and slide-in cartridge holder. Has two spindles, short for manual,

long for automatic, Automatic intermix operation. 4-pole shaded "induction surge" motor. Size: 147_8 " left to right, 121_2 " front to rear; 45_8 " above and 27_8 " below motor board. Shpg. wt. 9 lbs. No. 33A530. Model 40B Less Cartridge and Base.

No. 33A530. Model 40B Less Cartridge and Base.	\$44.50
Net Each	
No. 33A637. Model 408 Turntable with Shure M44E Cartridge. Net Each	
No. 33A603, Model 40B Turntable with Pickering V15/AC-3 Cartridge, Net E	ach\$44.51
No. 33A604, Model 40B Turntable with Empire 888 Cartridge, Net Each	\$44.51 \$49.50
No. 33A638, Model 40B Turntable with Shure M55E Cartridge, Net Each	\$49.50
No. 33A606. Model 40B Turntable with Pickering V15/ACE-3 Cartridge, Net	Each \$49.50
No. 33A607. Model 40B Turntable with Empire 808E Cartridge, Net Each	

MODEL 30 4-SPEED AUTOMATIC TURNTABLE Now, Carrard quality and features selling for the price of lower quality record changers. Features pressure adjustment, super sensitive trip mechanism with dupont Delrin, 4-pole shaded "induction surge" motor, intermix operation. Two spindles, short for manual; center drop for automatic play. Ultra compact size: left to right 14/₁₆; front to rear 123/4"; above motor board 43/4"; below motor board 21/4". Shpg. wt. 12 lbs. No. 33A500. Less Base.

Model 30 Complete with Ceramic Diamond Stylus Cartridge, Each

MODEL SP-20B 4-SPEED MANUAL RECORD PLAYER

Ideal for manual playing records through high fidelity systems. Compact and efficient, recom-mended for quality audio-visual applications. High demand for a unit of this quality and low price has brought this unit into being. This player should not be compared with other low price, single play turntables as durability and ruggedness have been fully engineered into it, to provide years of trouble-free service. Features interchangeable plug-in head for any cartridge, magnetic or ceramic. Full size weighted turntable. Automatic return of arm to rest and shut-off after play. Arm is semi-counterbalanced with adjustable stylus pressure. Compact size only |43%'' left to right, 121/2''front to rear, 31/2'' above and 21/6'' below motor board. Complete with line cord, 2 audio cables, plug-in shells. Shog, wt. 10 lbs.

No.	33A531, Each	Model	SP-20B	Less Ca		-		\$37.50
No.	33A591.	Model	SP-20B	Record	Player	with	Shure M75-6 Cartridge, Net Each	\$37.51
No.	33A592.	Model	SP-20B	Record	Player	with	Pickering V15/AC-3 Cartridge. Net E	och\$37.51
No.	33A593.	Model	SP-20B	Record	Player	with	Shure M75-6 Cartridge. Net Each Pickering V15/AC-3 Cartridge. Net Ea Empire 888 Cartridge. Net Each	\$37.51

ACCESSORIES FOR GARRARD TURNTABLES

INEW COORDINATED BASES. With new covered compartments for storage of full complement of spindles. Made of simulated ebony and walnut with silver trim. An attractive companion accessory which enhances the appearance of each Carrard model. Can be used on top of furniture or housed in cabinetry. Provisions for easy mounting of drawer slides have been built into the underside of the base. Wt. 3 lbs. In cabinetry. Provisions for easy modifying of order and state and states and MOUNTING BOARDS, Smooth sanded unfinished wood mounting boards. Overall size 16 x 18".
 For use in cabinet mounting. Can be trimmed to size.
 No. 33A533, MB10. For SL65, SL55, 20, 30, 40, 50 and 60 series. Each.
 \$2.25
 No. 33A567, MB11. For SL75, SL72B, SL95. Each.
 \$2.25 \$5.50 Each (i) 45 RPM AUTOMATIC SPINDLES.
 No. 33A643. FLR535. For SL65B, SL55B, 40B, 30, SLX2, X10. Each.
 No. 33A547. LR525. For SL95B, SL75B, SL72B, SLX3, SL95, SL75. Each.
 No. 33A644. F40. For X11. Each. \$3.80 \$1.75

EXTRA CARTRI No. 33A543. C1			AN75B	Each						
No. 33A544. C2	. For	SL95.	SL95B.	SL72B.	SL65B,	SL55B,	40B.	SP20B.	Each	

3 4

NEW DUAL AUTOMATIC PROFESSIONAL TURNTABLES



The only automatic turntable with perfect 15° stylus tracking, true four-point gyroscopic gimbal, 834" tonearm and separate anti-skating control for both conical and elliptical styli. Professional syn-chronous/continuous pole motor drives full 12" diameter 7 lb. turntable with absolute accuracy regardless of line voltage. Other dual precision features include rotating single play spindle, pitch control for "tuning" records over a 6% range (demitone) for special purposes such as permit-ting synchronization with tape recorders, musical instruments, etc. Cue control system is silicone-damped for easy handling of records. Counter bal-ance is elastically damped, has .01 gram click stops for precision balancing. Stylus overhang is fully adjustable for optimum positioning. Plays all 331/3, 45, and 78 RPM records manually or automatically. Multiple play spindle holds up to 6 records. Size: 101/2" x 122/4"; 6" above mounting board; 3" below mounting board, Shpg. wt. 30 lbs.

No. 33A655. Dual 1219. Less \$159.50 Cartridge and Base. Each DIDY.DU No. 33A667. 1219 with Shure M93E Elliptical Cartridge. Each No. 33A668. 1219 with Pickering V15/ATE3 Car-\$159.51 No. 33A669, 1219 with Empire 888E Cartridge. \$159.51 Each \$14570. 1219 with Shure M91E Cartridge. Each \$164.50 No. 33A671. 1219 with Pickering V15/AME ME car-\$164.50 \$164.50 Each

All the features that have made Dual the first choice of hi-fi professionals for use in their own system. Flawless V_2 gram tracking, low-mass torsionally rlgld tubular tonearm, direct-dial tracking force, synchronous high-torque motor and pitch-controlled for "tuning" records over demitone range. Rotating single-play spindle, one-piece dynamically balanced nonferrous platter. Feather-touch cue-control for automatic and manual starts and many other features to provide you with the finest record playing equipment on the market today. Play all 3 record speeds, 33 V_3 , 45 and 78 RPM manually, or up to six records automatically. Size: 10 V_2 " x 123/4" 6" above mounting board; 20"

3"	below	/2 v mc	x 123	g boar	d. Shpg.	wt.	0 lbs.
No. Less	33A	657. tridge	Dual e and	1209. Base.	Each	\$1	19.50
No. Eacl	33.4	676.	1209	with	Shure	M93E	Cartridge \$119.51
No.	33A(677.	1209	with	Pickering	8 V15/	AT3 Car- \$119.51
No.	33A	678.	1209	with	Empire	888E	Cartridge \$119.51

ACCESSORIES FOR NEW DUAL 33A658. WB12. Walnut Base for 1209 and No 1212. Each \$10.95 No. 33A659. WB93. Deluxe Walnut Base for 1209 No. 33A660. WB19. Walnut Base for 1219. Each \$14.95 No. 33A661, DC2, Dust Cover for WB12 and No. 3 WB93 WB93 Base, Each \$10.95 No. 33A662. DC9, Dust Cover for WB19 Base, \$12.95

Dual precision features and quality now available in the medium price range. The Dual 1212 shares many of the precision features of the more costly Dual Models. Features low-mass counterbalanced tonearm which tracks flawlessly as low as I gram. Direct-dial tracking force and synchronized anti-skating. Pitch control for all 3 speeds. Silicone-damped cue-control. Feather touch slide switch for automatic start and stop functions. Multiple play spindle holds up to six records. Handles 33 V/3, 45 and 78 RPM records manually or automatically. Hi-torque motor holds speed constant within 0.1% even when voltage varies ± 10%. Adjustable stylus overhang. Size: 101/2" x 123/4"; 6" above mounting board; 3" below mounting board. Wt. 30 lbs. No. 33A656. Dual 1212. S79.50

Less	Base	and	Car	tridge.	Each	9	579.50 Cartridge
Each							\$70 51
tridg	e. Ea	74. ch	1212	with	Pickering	V15/	ATE3 Car-
NO.	33A6	75.	1212	with	Empire	888E	Cartridge. \$79.51
					TABLE		

No. 33A663. AS12, 45 RPM. 7" Record-Automatic Spindle for 1212, 1209 and 1219 Turntables. Each No. 33A664. AW3. Automatic Spindle for 12" Records. For 1212, 1209 and 1219 Turntables. \$ 6,70 No. 33A665. MS1. Single Play Spindle for 1212 Each 70c No. 33A666. RS1. Single Play Rotating Spindle for 1209 and 1219. Each \$ 1.80 1.80

McDONALD MATCHED ASSEMBLY AUTOMATIC TURNTABLES



PRECISION CRAFTED IN GREAT BRITAIN ... MORE FEATURES FOR THE MONEY THAN ANY OTHER CHANGER! CARTRIDGE MOUNTED, INSTALLED ON BASE, WIRED-READY TO PLUG INTO YOUR STEREO HI-FI SYSTEM



BSR 600/XM44E SYSTEM

\$**89**⁵⁰

Deluxe automatic 4-speed turntable is loaded with important features for superb performance and operating convenience. Features precise cueing and pause control. Counterbalanced low-mass tonearm. Adjustable anti-skate compensation. Full heavy cast turntable. Plays records automatically or man-ually. Muting feature prevents pops and clicks during record-changing cycle. Automatic shut-off after record is played. Has dynamically balanced, resiliently mounted, hum-shielded. 4-pole induction motor. Overall dimensions: 151/4" W. x 133/6" D. x 71/4" including dust cover and base. Shpg. wt. 11 ibs. lbs

System includes Model 600 Turntable, Shure M44E Cartridge, PB-1 Power Base, DC-3 Dust Cover ... complete, ready to plug-in. Operates on 115 V. 60 cy. AC. Shpg. wt. 11 lbs.

No. 33A650. **BSR** System

\$89.50

BSR 500/XM44-7 SYSTEM

\$6950

Excellent four speed automatic turntable offers deluxe features and performance, such as cueing, adjustable anti-skate, counterbalanced, low-mass tonearm for light-tracking. Plays all sizes and speeds of records automatically or manually. Muting feature prevents pops during change cycle. Has 4-pole induction motor which drives large turn-table accurately. Jam-proof mechanism safeguards arm mechanism from damage even if tonearm is held during cycling operation. Automatically shuts off after last record. Includes 6' power cord, 4' twin-shielded audio cables. System includes BSR500A Automatic Turntable, Shure M44-7 Cartridge, PB-2 Standard Base and DC-2 Standard Dust Cover all mounted, ready to plug into your Hi-Fi Stereo System. Operates on 115 V. 60 cy. AC. Shpg. wt. 10 lbs. Excellent four speed automatic turntable

No. 33A651. BSR System



\$69.50

BSR 300T/M75 SYSTEM

\$44⁵⁰

New low cost entry into the BSR, ready to use, automatic turntable systems. Plays automatically or manually all size and speed records. Finest fea-tures include low-mass tonearm with Shure "Hi-Track" M75 type magnetic stereo cartridge, factory set anti-skate, large turntable and 4-pole induc-tion motor. Comes pre-mounted on attractive ebony base with walnut accent, pre-adjusted with all cables . . . ready to plug in and play. Operates on 115 V. 60 cy. AC. Overall size: 151/4" W. x 133/4" D. x 65/6" H. Supplied less dust cover. Shge, wt. 11 lbs. No. 33A652. BSR System. \$44.50 \$44.50 No. 33A652. BSR System

No. 33A653. DC-2. Dust Cover for above. Each \$5.00

FINEST STEREO HIGH FIDELITY CARTRIDGES

3

MOST POPULAR SHURE STEREO CARTRIDGES

2

EE

O SHURE V-15 TYPE II DYNETIC WITH ELLIPTICAL STYLUS A vastly superior cartridge designed for the most critical audiophile. Manufac-tured under newly developed, unprecedented controls, inspections and techniques to provide "perfectionist" reproduction quality. Elliptical stylus tracks a. 15°, retracts into cartridge when accidentally dropped or bounced. Built-in stylus guard. Response 20-25,000 Hz; output 3.5 MV; separation 25 db; diamond stylus dimensions .0007" x .0002", Tracking force ¾ ta 1½ grams. S67.50 \$67.50 No. 33A5002. Each

No. 33A5002. Each () SHURE M91E HI-TRACK ELLIPTICAL CARTRIDGE Easy-mount design features only two pre-mounted screws and a slip in mounting bracket. Cartridge is Hi-Track Elliptical with optimized design parameters for trackability second only to the incomparable V-15 Type II. Bi-radial .0002" x .0007" diamond stylus. 20-20,000 Hz. Separation 25 db () I KHz. Tracking force range 3/4 to 11/2 grams. Trackability specifica-tions () I gram: 20 cm/sec () 400 Hz.; 28 cm/sec () I KHz.; 26 cm/sec () SKHz.: 18 cm/sec () 0 KHz. Wt. 6 oz. () SA35063. Each () Coulder M02E EACY MOUNT ELLIPTICAL CARTRIDGE

No. 33A5063. Each \$49.95 ③ SHURE M93E EASY MOUNT ELLIPTICAL CARTRIDCE Easy-mount design like M91E above. Hi-Track elliptical in the 1½ to 3 gram tracking force range an outstanding performer in automatic or manual turntables. Bi-radial .0004" x .0007" diamond stylus. 20-20.000 Hz. Separation 25 db @ 1 KHz. Tracking force range 1½ to 3 grams. No. 33A5062. Wt. 6 oz. Each. ③ SHURE M75E HI-TRACK DYNETIC WITH ELLIPTICAL STYLUS Provides exceptional purity of music reproduction. Designed for use in the finest quality monual ond automatic turntables. Retractable elliptical (.0007" x .0002") 15° diamond stylus for excellent tracking. Built-in stylus guard. Re-sponse 20-20,000 Hz; separation 25 db; output 6.6 MV. Tracks from 34 to 1½ grams.

	g. arris.			-
	33A5003.	Each	\$39.	.9
NO.	33A3UU3.	Each		

\$39.95 © NEW SHURE M75-6 CARTRIDCE Same as 75E carriage listed above but with a .0006" conical stylus and a tracking force range of 1½ to 3 grams. Wt. 6 oz. No. 33A5061. Each

SHURE MSSE DYNETIC WITH ELLIPTICAL STYLUS Develaped for use in fine quality high fidelity systems with tane arms de-signed to trock at 34 to 1½ grams. Produces astonishing distartion free is applied. Tracking angle 15°, response 20-20,000 cps; 6 MV autput at 1,000 cps; separation over 25 db; stylus dimensions .0009" frontal radius, .0002" side contact radii. No. 33A5004. Each S29.95

3 SHURE M44E DYNETIC WITH ELLIPTICAL STYLUS Designed for use in automatic turntables requiring a cartridge that will track in the 134 to 4 grams range. Diamond stylus tracks at 15°, retracts into cartridge when excessive force is supplied. Response 20-20,000 cps; separation 25 db; 9.3 MV autput. Stylus dimensions .0004" x .0007". No. 33A5005. Each

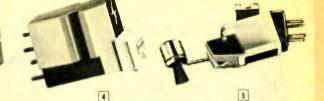
3 SHURE M31E DYNETIC WITH ELLIPTICAL STYLUS Newest member of Shure's family of fine cartridges. Designed for high quality tone arms to track at 1 ta 2 grams. 15° diamond stylus has .0007" x .0002" dimensions. Freq. response 20 ta 18,500 cps, 10 mv per channel output. 20 db \$27.50 No. 33A5006. Each

SAGOO, Etch
 SHURE M32E DYNETIC WITH ELLIPTICAL STYLUS
 Same bosic cortridge as M31E above, except designed for automatic turntables
 and record changers to track at 21/2 to 5 grams. 15° diamond stylus dimensions
 .0007" x .0004". 9 mv output per channel. Freq. response 20-17,500 cps with
 20 db channel separation.
 No. 33A5007. Each
 \$29.50

diamond stylus \$1 9.95 No 33A5000, Each



Perfect replacement for the popular Shure M7D, Pickering U38AT, Empire 880, or any other equivalent high fidelity stereo magnetic type cartridge. There is absolutely no compromise in quality or performance at B-A's special low, low price. Frequency response 20 to 20,000 cps. 3-5 grams tracking. More than 20 db separation at 1000 cps. Output voltage 5 mv per channel at 1000 cps. Recommended load impedance: 47,000 ohms. Terminals: 4 terminals adaptable to 3 terminal arms. Uses Shure N3D or N21D standard replacement diamond needles. \$7.95 No. 33A5034. Special.



PICKERING STEREO CARTRIDGES

Total performance from your records is now assured with the newly-designed XV-15 and V15/3 Dustamatic Series. The Dustamatic brush autamatically cleans record grooves in advance of the stylus, never interferring with tracking force.

An entirely new moving system with Dynamic coupling af stylus to record, traces the cleaned grooves flawlessly, and produces the ultimate in natural sound.

(a) XV-15 SERIES. "Top of the line" cartridges designed for superb performance, absolutely flat frequency response curve with extremely low tip mass. 10-25,000 cps freq. response, except XV-15/AME which is 10-30,000 cps at 4 mv., channel separation 35 db. Output 5-6 mv. "V-Guard" diamond stylus. AME ond AM are for light tracking manual turntables, ATE ond AT are for automatic turntables.

Stk. No.	Model	Trocking	Stylus	Diomond	Net Eo.
33A5008	XV-15/AME	3/4×11/2 Grams	Elliptical	.9x.2 Mil	\$49.95

③ V-15/3 SERIES. Micro-magnetic cartridges with V-Guard floating stylus. 20-25,000 cps freq. response. 35 db channel separation 5 to 6 mv output. AME-3 and AM-3 are for manual turntables. ATE-3 and AT-3 for automatic turntables, ACE-3 and AC-3 for automatic changers.

Stk. No.	Model	Tracking	Stylus	Diamond	Net Ea.
33A5009	V15/AME-3	3 ax1 1/2 Grams	Elliptical	.9x.3 Mil	\$44.95
33A5010	V15/AM-3	1-3 Grams	Conical	.7 Mil	34.95
33A5011	VIS/ATE-3	2-5 Grams	Elliptical	.9x.4 Mil	39.95
	V15/AT-3	2-5 Grams	Conical	7 Mil	29.95
33A5012				9x.4 Mil	29.95
33A5013	V15/ACE-3	3-5 Grams	Elliptical		
3345014	V15/AC-3	3-7 Grams	Conical	.7 Mil	24.95

REPLACEMENT DIAMOND NEEDLES FOR POPULAR MAGNETIC CARTRIDGES

Stk. No.	Туре	Make	For Cart. No.	Tip	Net Ea.
33A5015	N3D	Shure	M7D-M3D	.7 Mil	\$7.95
33A5016	N21D	Shure	M3D	.7 Mil.	11.00
33A5017	N55E	Shure	MSSE	.9x2 Ell.	17.75
33A5018	N44E	Shure	M44E	7x.4 EII.	12.50
33A5001	N44-7	Shure	M44-7	7 Mil	9.75
	N75E	Shure	M75E	7x.2 EII.	14.95
33A5019	VNISE	Shure	V15 Type	7×.2 EII.	27.00
33A5020	NBIE	Shure	M31E	7x.2 Ell.	14.95
33A5021	N32E	Shure	M32E	7x.4 EII.	14.50
33A5022	N91E	Shure	M91E	7x.2 Mil	24.50
33A5065	N93E	Shure	M93E	4x.7 Mil	19.50
33A5066			M75	6 Mil	11.35
33A5068	N75-6	Shure	880P	6 Mil	12.95
33A5023	\$880P-6RD	Empire	880 & 888	7 Mil	10.95
33A5024	\$880-7RD	Empire	888E	4x.7 Mil	16.95
33A5064	S888E-ERD	Empire		7 Mil	9.90
33A5025	D3807AT	Pickering	U38AT		
33A5026	D1507AM-3	Pickering	V15/AM-3	.7 Mil	14.95
33A5027	D1507AT-3	Pickering	V15/AT-3	.7 Mil	13.75
33A5028	D1500AME-2	Pickering	V15/AME-2	.9x.2 El1	19.90
33A5029	D1507AT-2	Pickering	V15/AT-2	.7 Mil	10.95
33A5030	D1500ATE-2	Pickering	V15/ATE-2	.9x.4 Ell	17.95
33A5031	DR-7D	C.E.	VR-1000-7	.7 Mil	6.83
33A5032	DR-5D	G.E.	VR-1000-5	.7 Mil	8.20



EMPIRE STEREO CARTRIDGES

NEW 808 CONICAL. Has .007" conical-tip diamond stylus. Response: 10-20,000 Hz. Output Voltage: 8.0 mV per channel. Separation: 30 db. Compliance: 8 x 10-" cm/dyne. Tracks 1-5 grams Wt. 4 oz. \$19.95 \$19.95 No. 33A5056. Each.

NEW 808E ELLIPTICAL. An excellent choice for economy automatic turn-tables. Boasts 15° .0004 x .0009" elliptical diamond stylus. Frequency Re-sponse: 10 to 25.000 Hz. Output Voltage: 9.0 mV per channel. Channel separation: 30 db. Compliance 12 x 10-" cm/dynes. Tracks from 1 to 4 grams. Shpg. wt. 4 oz. \$29.95 \$29.95 No. 33A5057. Each.

NEW 888TE ELLIPTICAL. Superb cartridge ideal for high performance manual and automatic turntables 15° .0002 x .0007" elliptical diamond stylus. 6-32,000 Hz, Output: 8.0 mV. Channel separation: 30 db. Compliance: 25 x 10⁻⁶ cm/dyne. 1/2 gram. 4 oz. Wt. 7 grams. \$49.95 \$49.95 No. 33A5058, Each.

NEW 888 STEREO-MONO CARTRIDCE. Has 15°, 7 mil radius-conical dia-mond stylus. Freq. Resp. 12 to 25,000 Hz. Output Voltage 8.0 mV. Channel separation more than 30 dh. Load Imp. 47,000 ohms. Wt. 7 grams. Tracking Force 3/4 to 5 grams. Wt. Compliance: 10 x 10⁻ⁿ cm/dyne. Wt. 7 grams. Force 3/4 to 5 No. 33A5059. \$24.95 Each

NEW 888E ELLIPTICAL. Superb cartridge. Has 15° .4x.9 mil bi-radial elliptical diamond stylus. Freq. Resp. 10 to 30,000 Hz. Output 8 mV. Chan-nel separation more than 30 db. Load Imp. 47.000 ohms. Tracking Force 34 to 4 grams. Compliance: 15 x 10-° cm/dyne. Wt. 7 grams. \$39.95 \$39.95 No. 33A5060. Each

ALL SOLID-STATE 70 WATT AM/FM/MPX STEREO RECEIVER NOW COMPLETE WITH WALNUT ENCLOSURE

Behind the beautiful brushed aluminum finished panel is a powerful, fully transistorized stereo receiver, employing 32 transistors and 17 dlodes to develop a magnificent full-throated stereo sound that will satisfy the most critical ear.

This powerful unit can handle several additional remote speakers to provide music throughout the home. Features automatic stereo indicator light, tuning meter, 5 position input selector switch. In addition to normal controls this fine unit has tape in-out, noise filtering, mono/stereo, auto, AFC. A full complement of terminal connections on rear panel makes provisions for any desired input or output connection.

Specifications: 25-20,000 Hz @ 1.5 db. Has 18 silicon transistors, 20 germa-nium transistors, 4 silicon diodes, 12 germanium diodes, 1 zener diode. Fre-quency range: FM 88-108 MC; AM 535-1605 KC. Sensitivity: FM 2.5 mv, AM 15 mv for 20 db quieting. MPX separation: better than 35 db @ 1 KC

40-WATT SOLID STATE FM/AM-FM STEREO RECEIVER CABINET

FREQUENCY RESPONSE 25-20,000 HZ

100% modulation. FM harmonic distortion less than 1.5% @ 1 KC 100% modulation. Bandwidth input: mag. 2 mv, crystal 160 mv, aux. 160 mv for max, output. Output power 35 watts per channel IHF. Audio distortion less than 1% @ 1 KC. Tone controls: Bass 12 db —10 db @ 50 cps; Treble 12 db —10 db @ 10K Hz, Scratch filter —12 db @ 10K Hz. Loudness control 3 db @ 10K Hz, 11 db @ 50 Hz (volume —30 db). Hum and noise —60 db, aux. —75 db. Residual noise 2 mv @ min. volume control. Controls: Tuning, Balance, Bass, Treble. Switches: Power, Input Selector, AFC, Mode, Loudness On-Off, Noise Filter, Tape On-Off. Power consumption: 117 V. AC 50/60 cps, 10 watts (no input). Terminals on back: speakers, tape-in, tape-out, crystal phono, mag. phono. Fine quality import. Size 5" H. x 161/2" W. x 10" D. Shpg. wt. 18 lbs

\$159.95 No. 33A325. With Walnut Enclosure. Special Net Each



FREQUENCY RESPONSE 15-20000 H

Total performance incorporating every feature and refinement for perfect listening pleasure at lowest price ever.

Housed in hand-rubbed walnut enclosure. Its 20 watts per channel output power is sufficient to drive a set of powerful speakers with all the fidelity provided by its wide frequency response. Automatic switch-over from mon-auran to stereo reception is controlled through the multiplex circuitry, and is signaled by the stereo indicator light. Precise tuning is accomplished with the aid of the tuning meter. Earphone jack is augmented by the speaker cut-off switch. AFC switch and 5-position input selector switch complete a front panel coverage that makes operation simplified and convenient. Specifications: Freq. resp. 15-20,000 HZ -3 db. Solid state devices: 23 transistors, 4 silicon diodes. 16 germanium diodes. Frequency range: FM 88-108 MC: AM 535-1605 KC. Sensitivity: FM 2 mv, AM 12 mv for 10 db quieting. MPX separation, better than 42.7 db @ 1 KC 100% modulation. FM—H.D. less than 1.5% @ 100% modulation. Bandwidth input mag. 6 mv, crystal 150 mv for max. output. Hum and nolse: phono -55 db: tape aux. -70 db. Controls: Tuning. Volume, Balance. Treble, Bass. Switches: Power, Input Selector, AFC. Connection for speakers, tape-in, tape-out, magnetic phono, crystal phono. Highest quality import. Size 4½" H. x 15" W. x 9" D. 117 V. 60 cy. AC. No. 33A346. Wt. 18 lbs. Net Each.

MATCHING KENWOOD AMPLIFIER AND AM/FM STEREO TUNER



KENWOOD

the sound approach to quality

Handsome Styling

KENWOOD

• 2 FET's, 3-Gang Tuning Condenser, 2 IC's.

COMPLETE WITH



Budget priced but not budget quality! Full 48 watts music power delivers enough power to drive two stereo speaker systems and incorporates ample tape, phono and other inputs for the most complete stereo system. IF circuits feature exceptional FM sensitivity and selectivity. Features Kenwood's exclu-sive power transistor protection circuit. SPECIAL FEATURES: Tuning and FM stereo indicator; Rocker switches regulate loudness control, noise filter, tape monitor and stereo mono mode; Front panel dubbing/tape recording jack and stereo' headphone jack; Silicon power transistor amplifier; 300 ohms and 75 ohms FM antenna inputs; Center channel output; (U.S.Pat.) Power transistor protection circuit; 2 pairs of stereo speaker output terminals for 2 sets of stereo speakers and front panel speaker selector switch (A speakers, B speakers, A-B speakers, head-phones). Handsome simulated walnut finish cabinet included in price of unit. SPECIFICATIONS: Tuner Section: FM: Sensitivity (IHF) 2.2 uV; HD less than .8%; SN ratio better than 60 db; Image rejection better than 70 db;

Selectivity better than 40 db; Stereo separation better than 30 db @ 1,000 Hz; AM: Sensitivity (11HF) 25 uV @ 1,000 kHz; Image rejection 40 db @ 1,000 kHz; Selectivity better than 25 db. Amplifier Section: Total Music power (1HF) 48 watts at 4 ohms, 40 watts at 8 ohms; Distortion—HD less than .8% at rated output; Freq. resp. 20 Hz to 50,000 Hz \pm 2 db; Input sensitivity MAC 2.5 mV (Tape Play 140 mV), AUX. 140 mV; Recording output 140 mV, 35 mV, (DUBBING) 140 mV; Maximum input signal 180 mV (P.P. 1,000 Hz) at MAC input; Hum and noise: Phono (MAC) 60 db; AUX. 70 db; Speaker impedance 4, 8, 16 ohms; Bass and Treble Control; Noise filter 3,000 Hz cutoff; Loudness Control \pm 8 db at 100 Hz, \pm 3 db at 10,000 Hz. Power consumption: 105 watts at full power, 20 watts at no signal. Dimensions: $161/2^{m}$ W. x $51/2^{m}$ H. x $121/2^{m}$ D. Wt. 20 lbs. \$179.95 No. 33A404, Model KR-44 with Metal Enclosure. Net Each.....



Most popular of all Kenwood receivers. Offers a multitude of professional features found only in the \$300.00 and up receivers. Two field effect transistors, 4-gang tuning condenser and two integrated circuits, FM IF stages combine to offer outstanding sensitivity and astonishing selectivity. Special features include tuning meter and FM stereo indicator, Unique keyboard controls regulate inter-station muting circuit, loudness control, low and high filter. Front panel dubbing/tape recording jack and stereo head-

phone jack. Specifications: FM tuner: sensitivity (IHF): 1.9 mv H.D. less than .8%. S/N better than 60 db; image rejection better than 70 db; separation better than 35 db at 1,000 Hz. AM tuner; sensitivity (IHF) 15 mv at 1,000K Hz;



KENWOOD



image rejection 90 db at 1,000K Hz. Amplifler section: music power (IHF) 75 watts at 4 ohms, 56 watts at 8 ohms; H.D. and IM distortion less than .5% at rated output. Frequency response: Main input 15 Hz to 50,000 Hz + 1.5 db. High level input 20 Hz to 30,000 Hz \pm 1.5 db. Input sensitivity: Mag. 1 and 2: 2 mv; Tape 200 mv; Tape head 2.35 mv; Auxiliary 200 mv. Recording output 200 mv and 35 mv. Speaker impedance 4, 8, 16 ohms. Separate bass and treble control high and low filter, loudness control. Power voltage 110-120/220-240 V. 50/60 Hz.

Size 161/2" W. x 51/2" H. x 121/2" D. Wt. 23 lbs. No. 33A399, Model KR-77, Net Each.....





The ultimate in stereo receivers. Designed for those whose discriminating taste demands the finest. Delivers crisp clear tones and vibrant overtones. Heavy fly-wheel tuning. Decorator panel that switches from opaque to a blue/green, when turned on, features large tuning meter with stereo indicator, unique keyboard controls inter-station muting circuit, loudness control, tape monitor, low and high filter, smart simulated walnut cabinetry ... all impart an elegance befitting such a masterpiece of craftsmanship. Externely sensitive FM section 1.7 mv plus high image rejection (better than 100 db) combined with extra sensitive AM section 1.5 mv at 1,000 Hz give 8 * Two Years Parts and Labor Warranty .

this receiver an unsurpassable front end. The amplifier section is extremely high quality with frequency response of 8 Hz to 120,000 Hz \pm 1.5 db on the main input. Provided are inputs for magnetic cartridges, tape heads. There is absolutely no input source that cannot be used or controlled from its optimum performance. Two sets of speaker outputs are provided for as well as middle channel output. Operates on 110-120 V. 50/60 Hz. Size $161/2^{\circ}$ W. x $51/2^{\circ}$ H. x $121/2^{\circ}$ D. Wt. 281/2 lbs. \$349.95

No. 33A401. Model TK-140X. Net Each. Just Return to Nearest Warranty Station



D95

100 watts ± 1 db (IHF) power.

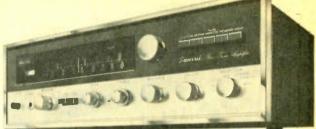
- FET front end with 4 gang variable condenser.
- Frequency response: 15-40,000 HZ ± 1 db

harman

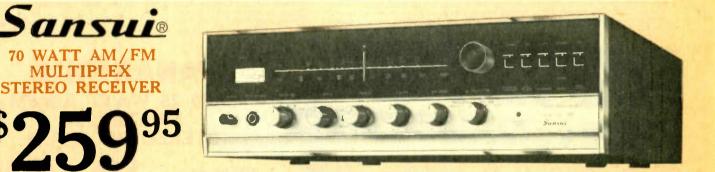
It is not often a piece of high fidelity equipment receives a glowing report from the famous Hirsch-Houck Laboratories. In the September 1968 Hi Fi Stereo Review we quote "The styling of the Sansui Model 2000 is in our opinion, exceptionally handsome and tasteful. What impressed us, however; was the effortless way in which it met or surpassed practically every specification.

AM/FM MULTIPLEX STEREO RECEIVER

The 2000 has 2 tuned R. F. stages in the FM section; one an FET. There is also a 4 stage IF amplifier. The AM tuner has a tuned R.F. stage and two I.F. stages with clean and well-balanced sound with adequate sensitivity for use even in suburban locations. All audio inputs (including tuners) pass through a 2-stage pre-amp. Magnetic phone and tape head inputs are equalized for RIAA and NAB characteristics. Other features: Direct tape monitor. DIN connector, headphone jack, AM local-distant switch. AM ferrite bar antenna. high-and low-cut filters. mode



switch and selector switch, meter tuning, heavy fly-wheel tuning, FM SCA filter. Walnut case optional: C-6. Specifications: Power output—music power (IHF): $100W \pm 1$ db at 4 ohms. HD less than 0.8% at rated output. Input sensitivity (for rated output): phono: 2.2mv \pm 3db, tape head; 2.0 mv \pm 3 db, AUX: 150 mv \pm 3db, tape monitor (PIN): 150 \pm 3 db, tape monitor (DIN): 150 mv \pm 3db. Hum and noise (IHF): phono: better than 70 db. Output impedance: from 4 to 16 ohms. Controls and switches: bass control: from \pm 13 db to -13 db at 10,000 Hz., loudness control: +8 db at 50 Hz, \pm 3 db at 10,000 Hz. Mode Switch: Stereo Norm Stereo Rev. Mono L, Mono R. Selector Switch: 1, tape head 2, phono 3, AM 4, FM 5, FN auto 5, AUX, Speaker Switch: 1, A-system 2, B-system, 3, A \pm B system 4, off. No. 33A414. \$299.95 Model 2000. Net Each



This striking solid state receiver introduces a whole new performance stand-ard in the long neglected medium-to-high power range between 40 and 100 watts. From its FET front-end for increased FM sensitivity and selectivity, to its ability to handle two speaker systems simultaneously, to its handsome black window design, the Sansui 800 offers the kind of performance and features at 70 watts that many receivers over 100 watts lack. Plus the kind of uncompromised engineering that makes a Sansui receiver a standout in any power range: a wide 20 to 35,000 Hz power bandwidth, a distortion factor that never exceeds 1% and a channel separation figure of better than 35 db. Glance at the 800's many other features . . . its newly developed noise canceler, extra long tuning dlals, short-proof speaker terminals, and 75 and 300 ohm antenna terminals. Other Convenient Features: High filter to elimi-nate scratch and surface noise. Loudness control to compensate for audible balance at low listening levels. DIN socket for convenient tape recorder hookup. Tape monitor switch to permit quality comparison between the recording and the original program while recording. Stereo headphone jack on the front panel for private listening. Noiseless push-button switches. Compare with any other receiver near the 70 watt level. Only then will you

be able to fully appreciate the Sansui 800 as one of the world's truly receivers.

Specifications: Audio Section: Power output, Music Power (IHF): 70 W, ± 1 db at 4 ohms; HD less than 0.8% at rated output; ID less than 0.8%; Freq. Resp: Power Amplifier Section 15-50K Hz ± 1 db. Aux: 20-80K Hz ± 1 db. Hum and Noise (IHF) better than 70 db. Input Sensitivity: Phono 2.2 mV ± 3 db. Aux. 150mV ± 3 db. Tape Monitor (Pin Jack) 150 mV ± 3 db. Tape Monitor (DIN Jack) 150 mV ± 3 db. Output impedance 4-15 bhms. Equalizer: Phono RIAA, NF type. Controls and Switches: Bass, Treble, Loud-ness Controls; High Filter, Selector, Speaker and Mode Switches. Tuner Sec-tion: FM: Freq. Range: 88-108 MHz; Sensitivity 2UV ± 3 db (20 db quiet-ing); HD less than 1%; Signal to noise ratio better than 50 db; Selectivity better than 45 db; Capture Radio (IHF) 3 db. AM: Freq. Range 555-1.605 KHz; Sensitivity (IHF) 22 uV ± 3 db ($\approx 1,000$ KHz; Selectivity better than 20 db at 1,000 KHz. Semiconductors: Transistor and FET-36; Diodes - 20; Varistors - 6. Power voltage: 100, 117, 220 and 250 V. 50/60 Hz. Dimensions: 41/2" H. X 151%," W. X 131%" D. Wt. 23 lbs. No. 33A413. Model 800, Net Each.

No. 33A413, Model 800, Net Each

\$259.95



• 90 WATTS The Nocturne Three Thirty is the first AM/FM stereo receiver which provides power sensitivity and ultra-wide band sound for less than \$250.00, The su-perior sound of this unit is a direct result of its wideband. Some manufac-turers clip off the high and low frequencies beyond 20 and 20,000 Hz because they feel they are unimportant. Careful listening tests reveal that this clipping broduces distortion in the audible frequencies which mutes the sound. The Three Thirty faithfully reproduces frequencies which mutes the sound. The Three Thirty faithfully reproduces frequencies which mutes the sound an hear. That's why the Nocturne Three Thirty's sound is cleaner, more transparent, more sharply defined, you can hear and feel the difference. Features include: Special electronic circuit automatically switches FM tuner to stereo the moment a stereo broadcast is received and special stereo indi-cator light lights up. High speaker damping controls excessive speaker excursion to avoid distortion during sharp bursts of sound. This results in clean, tight bass. Contour for low-volume listening maintains ful bass re-sponse even at levels where bass normally falls off. Tuning meter shows when you have tuned to strongest and clearest signal on AM and FM. Separate Bass and Treble tone controls. Speaker switch permits operation of • 90 WATTS IHF

LESS ENCLOSURE

(4 0HMS + 1 DB. • FREQ. RESP. 7-50K HZ + 1 5 D3. one set of speakers or 2 sets at same time, for stereo in two rooms simul-taneously. Headphone receptacle permits personal listening. Continuously variable balance control lets you adjust stereo balance to suit accustic re-quirements of your room. Tape Monitor Switch for instant comparison of recorded material and original program. Illuminated call outs indicate function that is in operation: AM, FM, FM Stereo, Phono, Aux. Heavy, counter-weighted flywheel makes tuning smooth as silk.

Specifications: Music Power Output: 90 Watts, IHF @ 4 ohms, ± 1 db; 65 watts, IHF, @ 8 ohms, ± 1 db; Freq. Resp: $\pm 1/2$ db 7-50K Hz @ 1 watt; Hum and Noise: 90 db; Intermodulation Distortion: Less than 0.8%; Usable FM Sensitivity: 2.7 Microvolts. IHF; Image rejection: better than 45 db; Spurious Response Rejection: 75 db; Multiplex Separation: 30 db; H.D.: Less than 0.8%; AM Sensitivity: 50 microvolts per meter. Dimensions: 13" D. X 153/4" W. X 41/4" H. Shpg. wt. 20 lbs.

No. 33A398. Model 330 Less Enclosure. Each. No. 33A9503. CW30A. Walnut Cabinet for above. Each.....

9

PANASONIC SOLID STATE STEREO RECEIVERS



WALNUT CABINET

Deluxe in every detail, the Panasonic SA-70 offers the highest performance and most wanted features. The FM tuner Incorporates three Field Effect Transistors. A two-stage RF circuit, a four-section tuning capacitor and six tuned circuits for perfect reception of the weakest FM stations. Four Inte-grated Circuits in the IF stages provide extreme selectivity to eliminate annoying interference and maintain the music at the same level without fading. Unique Ceramic Filter in the AM tuner circuit locks in the station to provide drift-free reception once considered impossible. The Panasonic exclusive Ceramic Multiplex Filter prevents false triggering of the Stereo indicator lamp caused by noise or spurious signals. A Muting switch cancels between-station noise for quiet tuning throughout the FM band. The full complement of tone controls shape the sound to suit your requirement. A Low Filter and a High Filter switch allows you to remove annoying record rumble and high frequency hiss without affecting the overall natural sound of the music. the music.

PANASONIC

SA70 115 WATT AM-FM **MULTIPLEX** STEREO RECEIVER

Frequency Response 20-100,000 Hz - 3 db. 3 FET and 4 IC's front end.



SPECIFICATIONS: Amplifier Section: Music Power 115 Watts ± 1 db at 4 Specifications: Amplifier Section: Music Power 115 Watts ± 1 db at 4 ohms; HD. 0.8%; Intermodulation Distortion 1.0%; Power Bandwidth 15Hz to 70,000Hz. -3 db; Frequency Response Phono 30 to 20,000Hz, ± 3 db, Aux. 30 Hz to 60,000Hz, ± 3 db, Power Amplifier 20Hz to 100,000Hz, -3 db; Input Impedance 50K ohms; (Phono Low) 60K ohms; (Phono High). Aux. 35K ohms, Tape Monitor 35K ohms; Hum and Noise, Volume at Mini-mum 80 db, Phono 65 db (Phono Low), Aux. 75 db; High Filter, 12 db at 7KHz; Recorder Output Level 200mV. Tuner Section: FM: Usable Sensitivity (IHF) 2.0 uV; HD 0.5%; Signal to Noise Ratio 60 db; Selectivity, Alternate Channel 50 db; Image Rejection (at 100MHz) 80 db; Stereo Separation (at 1 KHz) 37 db; Capture Ratio (IHF) 20 uV. AM: Sensitivity (IHF) 20 uV; Image Rejection (at 1 MHz) 70 db. Dimensions: 19%" W. X 5½" H. X 14" D. Power, 117 VAC. No. 33A366.Shpg. Wt. 35 lbs. Net Each.

PANASONIC

SA60 75 WATT AM-FM MULTIPLEX

PANASONIC 666

The Panasonic SA-60 offers superb stereo FM and AM reception. The FM tuner section utilizes three Field Effect Translstors and six tuned circuits for sensitive FM reception. Four dual tuned FM IF circuits provide clear reception, free of distortion and noise. The unique AM tuner circuits incorporate Ceramic Filters to insure broad band response and drift-free operation. A separate AM RF circuit and a three-section tuning capacitor provide the highest sensitivity and selectivity for tuning in the weakest of stations. A built-in ferrite antenna employes a revolutionary coil design to deliver static-free listening. A full complement of tone controls and switches insure absolutely reliable electrical operation. Facilities are provided on the rear for connecting a record player, a tape recorder, including the new 8-track cartridge or a cassette player, and an auxiliary program source, such as shortwaver funer. Three AC outlets, two of which are controlled by the SA-60 pushbutton Power switch, provide the ultimate in ease of wiring. Specifications: Amplifier Section: Music Power 75 watts ±1 db, at 4 ohms;



The Panasonic SA-40 offers the features and FM/AM performance previously available only in units costing considerably more. The FM tuner features Field Effect Transistors for sensitive, drlft-free reception of FM and FM stereo programs. Four sensitive FM IF stages allow you to seek out the weakest of FM stations. The AM tuner circuit provides broad band response for highest sensitivity and stability. The built-in ferrite antenna employes a revolutionary coil design to assure freedom from static—under all conditions. Exclusive Panasonic wide range Linear Sliding Controls provide for precise adjustment of the music to suit the listening environment. Positive action Loudness, High Filter Mono/Stereo and Tape Monitor rocker switches provide complete control of the musical output. The multiple-position Selector switch and Speaker switch permit a vide choice of program sources and an auxiliary program source, such as a shortwave tuner. Special Pre-amp Output and Main Amplifier input jacks allow you to add an accessory echo

STEREO RECEIVER \$74 095 3 FET front end. 4 Dual tuned IF circuits. Frequency Response 20-70,000 Hz - 3 db.

HD 0.8%; Intermodulation Distortion 1.0%; Power Bandwidth 20Hz to 50,000Hz, -3 db; Frequency Response 30Hz to 20,000 Hz, Phono \pm 3 db (Phono Low). Aux 30Hz to 60,000Hz, \pm 3 db, Power Amplifier 20 Hz to 70,000Hz, -3 db; Input Impedance 50K ohms (Phono Low), 60K ohms (Phono High), Aux 35K ohms, Tape Monitor 35K ohms; Hum and Noise. Volume at Minimum 77 db. Phono 65 db (Phono Low), Aux, 75 db; Bass and Treble Control; High Filter; Recorder Output Level 230 mV. **Tuner Section:** FM: Usable Sensitivity (IHF) 2.2 uV; HD 0.6%; Signal to Noise Ratio 60 db; Selectivity, Alternate Channel 45 db; Image Rejection (at 100 MHz) 80 db; Stereo Separation (at 1 KHz) 35 db; Capture Ratio (1HF) 2.5 db. AM: Sensitivity (IHF) 20 uV; Image Rejection at 1 MHz) 70 db. 70 db

Dimensions: 19%" W. X 51%" H. X 14" D. Shpg. Wt. 34 lbs. Power, 117 V AC. No. 33A406 \$249.95 With Walnut Cabinet. Net Each

> PANASONIC SA40 70 WATT AM-FM **MULTIPLEX** STEREO RECEIVER

Sliding audio controls. FET front end. Walnut wood cabinet.

\$**199**⁹⁵

reverberation or tremolo sound effect amplifier to enhance the stereo effect. Specifications. Amplifier Section: Music Power 70 watts ± 1 db at 4 ohms; IHF; HD 0.8%; ID 1.2%; Power Bandwidth 20 Hz to 50,000 Hz -3 db; Freq. Resp.: Phono, 30 to 20,000 Hz ± 3 db; Aux. 30 to 50,000 Hz ± 3 db; Ohms, and 100K ohms, 33K ohms (Ceramic); Aux. 35K ohms, Tape Monitor 35K ohms; Hum and Noise, 70 db; Phono; Aux. 70 db; Bass and Treble Control ± 10 db @ 50 Hz; High Filter 6 db per octave above 6K Hz; Recorder output level 170 mV. Tune Section: FM: Usable sensitivity (IHF) 2.8 uv; HD 0.7%; Signal to Noise Ratio 60 db; Selectivity, alternate channel 40 db; Image rejection (at 100 MHz) 55 db; Stereo separation (at 1K Hz) 35 db; Capture Ratio (IHF) 3 db. AM: Sensitivity (IHF) 20 uV. Dimensions: 16" W. X 5" H. X 14" D. Power 120 V AC, 100 Watts.

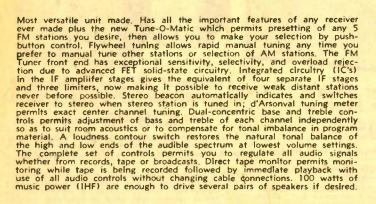
No. 33A405. Shpg. wt. 29 lbs. Net Each

\$199.95

FAMOUS FISHER SOLID STATE RECEIVERS



WITH **TUNE-O-MATIC** • FET CIRCUITRY • IC's IN IF AMPLIFIER



FISHER MODEL 175-T **ALL TRANSISTOR 65-WATT** AM-FM STEREO RECEIVER

PROVIDES ENORMOUS \$22 YOUR LISTENING **ENJOYMENT**

Everything you need for optimum enjoyment of AM and FM-Stereo broad-casts have been combined into one beautifully integrated instrument to pro-vide all the convenience, flexibility and ease of operation you would expect in a Fisher receiver.

The tuner section is a model of perfection, featuring the most advanced Integrated Circuits and Field-Effect transistors. Tuner sensitivity (IHF) is a remarkable 2.0 microvolts; selectivity (IHF), a high 45 db. The tuning convenience of Stereo Beacon* automatic mono stereo switching and signal-strength d'Arsonval meter are adjacent to the large, easy-to-read numbers on the AM and FM dial glass.

With 65 watts of music power (IHF), the Fisher 175-T has more than

FISHER MODEL 160-T ALL TRANSISTOR **40-WATT FM STEREO RECEIVER**

WITH TUNE-O-MATIC **TOUCH TUNING**



The world's first high-quality push-button FM Receiver unfolds a new era in stereo listening convenience. With the new 160-T at your fingertips, you can select any of five FM stations at the press of a button, with perfect center-of-channel accuracy, or tune its five vertical dials manually.

Automatic Frequency Control locks in the desired FM station, eliminating any mechanical 'off-center' displacement characteristic of pushbutton car radios. Electronic diode tuning assures this accuracy and Stereo Beacon offers added convenience.

The new Fisher 160-T has facilities for tape recorder and phonograph, plus the convenience of a 3-way speaker selector and complementary front-panel headphone jack.

FISHER K10 DYNAMIC REVERB UNIT

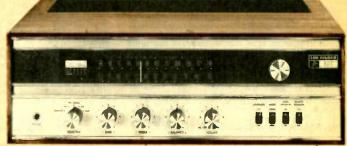
Add a new dimension to listening ... reverberation. Supplies reverberation normally heard in acoustically-perfect concert hall. For use with records, radio or tape, mono or stereo. Single front-ponel knob controls desired degree of reverberation. Connects simply to any amplifier or receiver. Self-powered, operates on 105-120 V. AC. Shog. wt. 10 lbs. \$69.95



Its separate main and remote speaker push-buttons provide all the con-venience of a four-way speaker selector but with greater ease. Turn all speakers off, if you like and enjoy music in absolute privacy through head-phones plugged into front jack.

phones plugged into front jack. Specifications: Power 100 watts (IHF) \pm 1 db at 8 ohms. H.D. 0.5% 1.D. 1.0% at 60 watts total, Frequency Response: 20-20,000 Hz \pm 2 db. Power Bandwidth: 20-25,000 Hz. Hum G Noise 90 db below rated putput. Bass Controls: (total variation at 50 Hz) 24 db, Treble controls (total variation at 10 KHz) 24 db. Input Sensitivity-Phono Low: 2.5 mV. Phono High: 7.5 mV. Aux: 250 mV—AM Tuner section usable sensitivity 10 uV/m. Selectivity: (at 1 MHz and \pm 10 KHz) 50 db. Image Rejection: (at 1 MHz) 80 db. [F Frequency Rejection. (at 1 MHz) 85 db—FM Tuner section usable sensi-tivity (IHF Standard) 2.0 uV. S/N ratio (100 modulation) 65 db. Selectivity: (alternate channel) 45 db spurious response rejection (at 100 MHz) 90 db. IF Rejection: (at 100 MHz) 70 db. Image Rejection: (at 100 MHz) 90 db. IF M H.D. (400 Hz, 100 Mod.) 0.5%, FM stereo separation (at 1 KHz) 38 db. Capture ratio: 2.8 db. Dimensions: 15½" W., 5¼/ H., 1234" D. (max. depth from knobs to rear AM antenna). Wt.: 19 lbs. Shog. Wt.: 25 lbs. No. 33A364. No. 33A364. \$299.95

Less Cabinet. Net Each No. 33A365. Walnut Vinyl Closed Cabinet. Net Each \$19.95



enough to drive any speaker system to full room volume. Separate main and remote speaker switches and a front panel headphone jack provide enormous versatility in your listening pleasure. Whatever your choice, the 175-T de-livers the musical program with the kind of super-sensitive control of sound and power that makes music a living reality. Specifications: Usable Sensitivity (IHF) 2.0 uV. Signal-to-Noise Ratio 65 db. Selectivity (alt. channel) 45 db. Stereo Separation (1 kHz) 35 db. Capture Ratio 2.8 db. Music Power (IHF) 65 watts. Harmonic Distortion at (1 kHz) 0.5%. Size: 15½" wide, 5¼" high, 12¾" deep. Weight 18 pounds. Cabinet: Walnut (vinyl), 60-UW. No. 33A363, Less cabinet Each. No. 33A363. Less cabinet. Each..... No. 33A365. Walnut Cabinet. Each \$19.95

No. 33A362, Each.

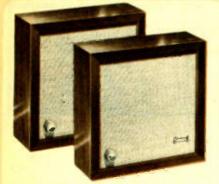
\$6995



In appearance as well as performance, the Fisher 160-T is unequalled. It is a unique expression of Fisher engineering genius, magnificently represented In its genuine gold-plated front-panel. Sculptured walnut sides lend a distinctive touch of elegance. No need to purchase an additional cabinet. Specifications: Usable Sensitivity (IHF) 2.0 uV. Signal-to-Noise Ratio 60 db. Selectivity (alt. channel) 45 db. Stereo Separation (1 kHz) 35 db. Capture Ratio 2.8 db. Music Power (IHF) 40 watts. Harmonic Distortion (1 kHz) 0.5%. Hum & Noise 90 db below rated output. Size: 15¼" wide, 3½" high, 111¼" deep. Weight 15 pounds. Cenuine walnut sides contrasted with high-gloss black enameled top. \$199.95



B-A's UNBEATABLE SPEAKER SYSTEM VALUES! ALL SYSTEMS BELOW ARE IDEAL FOR USE WITH SOLID STATE AS WELL AS TUBE AMPLIFIERS



HI-FI 61/2-INCH **SPEAKER & ENCLOSURE** \$9.95 EACH

- Genuine hardwood cabinets in oiled walnut •
- finish. Fits anywhere hangs on wall or sits on • table.

table. Lightweight and portable ... easily carried. Frequency response 20-12,000 cps. Sounds much bigger and more expensive than it is. Slim, unobtrusive enclosure fits anywhere ... on floor, wall, bookshelf or table. Light-weight and portable, it is easily carried from room-to-room, B-A's audio experts were amazed by its truly high-fidelity performance — bass with impact, clear mld-range, and clean highs. High efficiency type not to be confused with similar low efficiency speakers. Includes 61/2" speaker with Alnico V magnet. Front mounted volume control permits stereo balance and room level adjustments. Distinctive picture frame level adjustments. Distinctive picture frame front styling. Oiled walnut finish matches cane grille cloth. 10 watt power capacity covers even large rooms. 20-12,000 cps, 8 ohms, $43_8''$ thin x 10'' x 10''. Finest quality import. Shog. wt. 6 lbs. No. 33A2000. B-A Special, Net Each \$9.95



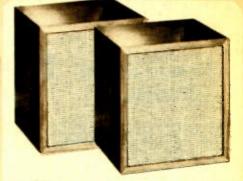
COMPACT 2-WAY SPEAKER SYSTEM \$17.95 EACH

Use horizontally or vertically on floor, bookcase or table.
Genuine hardwood cabinets in oiled walnut finish.
Frequency response 20 -20,000 cps.

Concert hall "Big Sound" from a genuine two-way speaker system in a compact enclosure . . . all at B-A's special budget price. Selected by our own audio specialists for its smooth, pleasing 20-20,000 cps high-fidelity range. Gives realistic high-efficiency performance even with low power-sound sources.

performance even with low power-sound sources. Use horizontally or vertically on floor, bookcase, or table. Easily carried from room to room, or outdoors. Consists of powerful 8" bass reproducer and $3'/_2$ " tweeter in a scientifically engineered enclosure. Decorous slim line styling. Cabinet is solidly con-structed with 1/2" hardwood and glued joints. Beau-tiful grille cloth complements oil walnut finish. Size 17% x 10 x 51/2". 8 ohms.

Highest quality import. Shpg. wt. 9 lbs. \$17.95 No. 33A2001. B-A Special, Net Each.....



COMPACT HIGH COMPLIANCE VOLUMETRIC SPEAKER SYSTEM

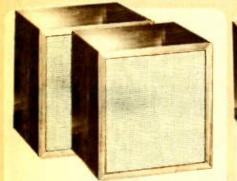
\$29.95 EACH

- 20-20,000 cps frequency response. Handles up to 25 watts power without break-up.
 Handsome solid walnut enclosure, beautiful deco-rated grille cloth.

rated grille cloth. Judged by B-A's audio experts as the most outstand-ing speaker value at this fantastic low price! True full range high fidelity quality, a complement to any stereo system. Also ideal as extension speaker to any console or component system. Heart of system is wide range 8" high compliance volumetric speaker with heavy duty ceramic magnet and long throw voice coil. Handles up to 25 watts giving true bass, exceptional mid-range and clean crisp highs. High efficiency design permits fullest response from even the lowest powered amplifier. Magnificently styled solid walnut enclosure in oiled finish. Small size, 101/2" H. x 101/2" W. x 71/2" D., permits use on standard bookshelf, end table or any other confined area. Output impedance 8 ohms. Easy to hook-up, has standard screw terminals, 8 ft. speaker cable. Shog. wt. 11 lbs. Highest quality import.

Shop, wt. 11 lbs. Highest quality import. No. 33A2019 \$29.95 2 Fach \$55.00

NEW IMPROVED VERSIONS OF B-A's BEST SELLING SYSTEMS HEAVIER MID-RANGE AND HIGHER-RANGE TWEETERS PROVIDE SMOOTHER MID-FREQUENCIES AND CLEANER HIGH-FREQUENCIES



B-A's 8-INCH 3-WAY SPEAKER SYSTEM \$49.95 EACH

Heavy 3/4" hardwood cabinetry. . Engineered to B-A's exacting specifications, $3\frac{1}{2}$ " hard back tweeter and brilliance control. Beautiful oiled walnut finish.

An incomparable value! Superior in performance to speaker systems selling for much more than this low, low price! Not to be confused with low price systems selling anywhere near this price. Provides amazing highs from the 3½" hard back tweeter, smooth mid-range from the whizzer and inimitable bass from the heavy duty 8-inch speaker. Enclosure of heavy 34" oiled walnut hardwood is tuned to provide the optimum performance over the entire frequency range. frequency range.

Compact size ony 16" H. x 11" D. x 17" W. Ideal for bookshelf, table top or for use anywhere fine quality sound is required in a small space.

B-A's 12-INCH 4-WAY SPEAKER SYSTEM

\$59.95 EACH

- Frequency response 25 cps to beyond audibility.
 Heavy 34" hardwood enclosure.
 Compact 24" W. x 17" H. x 11" D.
- · Beautiful oiled walnut finish.

Brilliance control.

Heart of system is famous makers 12-inch speaker pro-viding fine bass, whizzer supplies upper mid-range with lower end of mid-range supplied through specially de-signed 6 inch mid-range speaker. Super 3½" tweeter provides finest high range coverage. Brilliance control permits adjustment to personal listening requirements. All of these precision components have been assembled into a specially tuned enclosure to provide the fullest response possible. Compact size with absolutely no com-promise in quality was accomplished through special en-gineering techniques. Would be a fantastic value even at considerably more than this low, low B-A pricel Beautiful oiled walnut cabinetry _____ a plus attraction to any decor, a complement to any high fidelity stereo sys-tem. For shelf or floor use, finish ed on all four sides. Specifications: frequency range 25 cps to beyond audi-bility. Impedance 8 ohms. Power handling capacity 35 watts music power. Heart of system is famous makers 12-inch speaker pro-



B-A's DELUXE HEAVY DUTY 12-IN. 4-WAY SPEAKER SYSTEM

\$69.95 ЕАСН

- Power handling capacity 50 watts music power.
 Frequency response 20 to 30,000 cps.
 Brilliance control for personalized listening enjoyment.
 Beautiful oiled walnut enclosure.

B-A's sound specialists have done it again! Our engineer-ing associates couldn't believe it possible ... but our own sound men came up with it ... the most fantastic speaker system yet for only \$69.95 Our-management was so impressed by this unit that they have permitted us to make the following offer: If you don't believe this is the best speaker system for anywhere near this low price after hearing it, B-A will refund your pur-chase price plus transportation charges both ways.

Extra heavy duty 12-inch woofer, low mid-range heavy duty 6 inch speaker, high frequency whizzer, and super $3\frac{1}{2}$ " ultra high frequency tweeter in a $\frac{34}{4}$ " solid wood tuned enclosure.

Brilliance control adjusts for personalized listening. Beautiful oiled walnut finish on four sides makes this enclosure suitable for use on shelf or floor. Dimensions: 24' W, \times 17'' H, \times 11'' D. \$69.95

No. 33A2022Wt. 50 lbs. Special Each.....

B-A's ALL NEW AIR SUSPENSION SPEAKERS ULTRA COMPLIANT-DISTINCTIVE NATURAL SOUND WITH USE OF ANY AMPLIFIER WITH 5 WATTS OR MORE

This family of speaker systems is designed to give concert-hall sound from compact, bookshelf spaces. Occupying a minimal amount of space, these speaker systems have basis performance of speakers many times their size. This rich bass is the result of a newly developed series of High Compliance Speakers used in combination with the enclosures. Astonishing purity and precision are a reality. The enclosures are constructed of heavy $\frac{3}{4}$ " wood and the interiors are acoustically treated to damp unwanted resonance. All four sides are finished in fine oiled walnut so the systems can be used as either a bookshelf or floor standing units. The attractive grill cloth is specially selected to blend with any decorating scheme. For the discriminating music lover with a space problem, who wants no compromise in quality, these compact speaker systems are the Ideal solution.

B-A's SENSATIONAL SPECIAL OFFER! BUY 1 SPEAKER AT REGULAR PRICE, GET 2nd SPEAKER FOR ONLY \$1.00 MORE!



B-A A1 LONG THROW 2-WAY 30-WATT SYSTEM **6** " AIR SUSPENSION SPEAKER

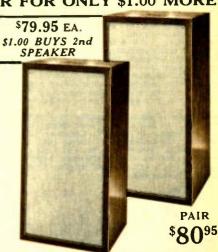
30 watts music power. 50 Hz to beyond audi-bility. Big sound from a small enclosure. Fea-tures front loaded air suspension 6" two way speaker. Only 15". H. x 91/2" W. x 6" D. Beautiful walnut finish enclosure with con-trasting white grille fabric. 8 ohms. Shpg. wt. 12 Us. 12 lbs

No. 33A2070. \$39.95 Per \$40.95



B-A A2 3-WAY 30-WATT SYSTEM 8 " HI COMPLIANCE **WOOFER-4**" TWEETER

30 watts music power. 45 Hz to beyond audi-30 watts music power. 45 Hz to beyond audi-bility. Real natural sound from a true air-sus-pension system. Features 8" high compliance woofer/mid-range with 4" rigid diaphragm tweeter, Ideal bookshelf size, 19" H. x 101_2 " W. x 97_6 " D. Attractive walnut finish with eggshell grille fabric, 8 ohms, Wt 20 lbs. No, 33A2071, \$59.95 Per Each



B-A A3 3-WAY 30-WATT SYSTEM 10 " WOOFER/MID-RANGE **4**" DIRECT RADIATOR TWEETER

30 watts music power. 35 Hz to beyond audi-bility. The finest reproduction from 10" ultra-linear woofer/mid-range with 4" direct radia-tor tweeter in attractive walnut finished en-closure. 23" H. x 1134" W. x 93%" D. With eggshell white grille fabric. 8 ohms. Shpg. wt. 251/2 lbs. No. 33A2072. \$79.95 Per Pair \$80.95 Each

B-A's NEW ACOUSTIC-SUSPENSION SPEAKER SYSTEMS

Specifically designed for those who prefer the sound of the new Acoustic-Suspension systems. Special compensation has been introduced into the tweeters in order to cancel out the response peak exhibited by virtually all

magnetic phono cartridges. The result is an almost perfectly flat overall response throughout the Audible Range.



BA-1 2-WAY 30 WATT SYSTEM 6" AIR SUSPENSION WOOFER 3" COMPOSITION CONE TWEETER

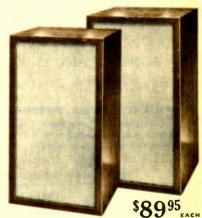
3" CUMPUSITION CUNE IWEETER A full two-way system with a 6" acoustic suspension woofer and 3" composition cone tweeter. Carefully engineered for natural bass and smooth high frequency response. Gives true sensation of spaciousness when used in stereo systems. The handome oiled walnut enclosures measure 15" x 8" x 7" Deep. Trimmed inbrushed aluminum. The grill cloth blends well with any color scheme. Frequency Range: 40-20,000 Hz 30 Watt I HF handling capacity at 8 ohms. Shpg. Wt. 11 lbs. No. 33A2046. Net Each. No. 33A2046. Net Each



BA-2 2-WAY 40 WATT SYSTEM 8" AIR SUSPENSION WOOFER 3" COMPOSITION TWEETER

Similar to the BA-1 system except with 8" acoustic-suspension woofer. Has 3" com-position cone tweeter with level control. Walnut enclosure measures 19" x 10" x 9" Deep. Frequency Range: 30-20,000 Hz. Power handling capacity 40 Watts 1 HF at 8 ohms. Shpg. Wt. 18 lbs.

\$54.95 No. 33A2047. Net Each.

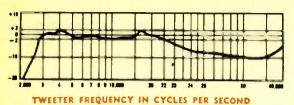


BA-3 3-WAY 50 WATT SYSTEM **10" ACOUSTIC SUSPENSION WOOFER** 5" COMPOSITION CONE MID-RANGE **3" COMPOSITION CONE TWEETER**

A Deluxe three-way bookshelf loudspeaker system incorporating a 10" acoustic suspen-sion woofer, 5" composition mid-range, and a 3" composition tweeter with level con-trols for both mid-range and high fre-quency. Cabinet dimensions 22 x 14 x 11" Deep. Frequency Range: 27-20,000 Hz Power handling capacity 50 Watts 1 HF at 8 ohms. Minimum recommended driving power is 10 Watts per channel. Shpg. Wt. 27 lbs. \$89.95 \$89.95 No. 33A2048. Net Each.

B-A 12-INCH 3-WAY DIFFAXIAL SPEAKER

CAPABLE OF RESPONSE FROM 35-30,000 Hz



Far superior to any 12" speaker we have seen or heard at anywhere near

Far superior to any 12" speaker we have seen or heard at anywhere near this amazing low price. Made expressly for B-A by University; a leader over the years in the pro-duction of audio products. This amazing speaker utilizes newest acoustical developments including the exclusive diffusione principle and the fabulous sphericon super tweeter. Entire audio spectrum from 35-30,000 Hz are reproduced with rich deep true bass, full mid-range and sparkling highs. High efficiency permits full "Concert" volume without distortion using amplifiers of only modest power, yet speaker is so rugged it can be used safely with high-powered amplifiers as well.

as well. Specifications: Frequency response 35-30,000 Hz. Sphericon tweeter is flat within 2 db to 22,000 cps. Power rating: 30 watts integrated program ma-terial, Impedance 8-16 ohms. Crossover 1000 Hz (mechanical), 3000 Hz (electrical). Dimensions: 13" overall dia, 8-5" deep. Mounting: front or rear of baffle. Special features: rigid, die-cast frame. Rigid cup baffle to eliminate tweeter-woofer interference. High compliance suspension with ex-clusive University critical edge damping. Shpg. wt. 11 lbs. \$49.95 \$49.95 33A2044. Special Each.

B-A 8-INCH

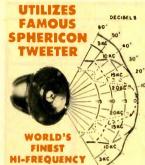
2-WAY

HIGH FIDELITY

SPEAKER



95



REPRODUCER **B-A 12-INCH**

COAXIAL HIGH FIDELITY SPEAKER

B-A 12-INCH

3-WAY

HIGH FIDELITY

SPEAKER

AMERICAN MADE FOR B-A BY UNIVERSITY

LOUDSPEAKERS

Fantastic 8" 2-way speaker with powerful 3/4 lb. ceramic magnet. Feotures an unusually smooth wide band response. Custom built to B-A's exacting specifications by University Loudspeakers, a fore-most manufacturer of the finest high fidelity speakers.

Extremely shallow, only 21/2" overall depth. Specifications: Freq. resp. 70-12,000 cps. Power handling capacity, 30 watts. Imp. 8 ohms. Nominal resonant freq. 55 cps. Crossover freq. 1500 cps. Dimensions: 81/4" dia., 71/8" baffle opening, 21/2" deep. Shog. wt. 51/2 lbs. No. 33A2002. B-A Special Designed to provide the finest full range repro-duction at the lowest possible price. Has heavy duty die-cast frame. Low silhouette frame for easy mounting in walls or ceilings.

Specifications: Freq. resp. 35-14,000 cps. Program capacity 30 watrs; 40 watrs peak power. Resonance 45 cps. in free air. Sensitivity rating: 43 db EIA. Crossover: mechanical, at 1500 cps. Imp. 8 ohms. Mounting: 41/4" holes equally spaced on 111/2" circle. Fits 11.14" boffle spacing.

Deep rich bass and clean clear treble from two cones . . , plus smooth peak-free highs from the famous sphericon tweeter. 2" voice coil on the woofer for larger excursions of the diaphragm with low distortion . . rugged die-cast frame to ensure perfect alignment of all moving parts.

Specifications: Freq. resp. 35-40,000 cps. Power handling capacity 30 watts IPM. Crossover fre-quencies: mid-range—1500 cps; tweeter—4500 cps. Imp. 8 ohms. Resonant freq. 45 cps.

Dimensions: 12 %" dia., 11 %" baffle opening, 3 %" deep. Shpg. wt. 9 lbs. No. 33A2004. B-A Special \$29.95

THE KARLSON ENCLOSURE KITS

FOR 8, 12 AND 15-INCH SPEAKERS

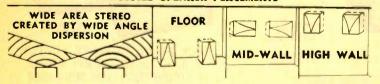
MADE EXCLUSIVELY FOR B-A

REQUIRES LESS POWER, PROVIDES MORE DYNAMIC RANGE

• Ordinary systems 10 times their size cannot produce sound with such enormous panaramic presence.

• Actually better than a horn enclosure 30 ft, long and 121/2 ft. in diameter at the mouth.

SUGGESTED SPEAKER PLACEMENTS



Truly the connoisseurs choice. Small enough to fit the average bookshelf yet gives a quality of reproduction ond extended bass response totally be-yond the normal capabilities of a one foot enclosure. With any good 8" speaker produces a bass range normally attributed to large 15" systems. Their wide-area stereo presentatian and tonal definition are also typical of the Karlson transducer perfection. When placed on their backs near a wall, sound seems to come from the entire wall. Small size and big performance of these enclosures makes them adaptable to almost any use. Uses Korlson transducer front loading combined with special back loading. Provides fundamental coupling ta V₂ speaker resonance. No tuning required. Matched loading provides very smooth rich bass and practically eliminotes cone break up ond rim resonances. Also minimizes cone motion glving true o pltch boss ond unexcelled translent response. Amplifter loading is re-sistive efficiency 40% with overage speaker. A dynamic range up to 100 db without distortion is normal. Fundamental loading extends dawn to 3/3



the speaker free field resonance. Dispersion for all speakers is unifarm for all frequencies within a solid angle of 120° tilted 30° upwards. Size 171/4" L. x 113/4" W. x 10" D.—1/2" panels. Wt. approx. 14 lbs. No. 33A3503. Deluxe Karlson Unfinished 8" Enclosure Kit. Net.. \$19.95 FOR 12" SPEAKER. Size $243/_4 \times 163/_4 \times 133/_4$ ". Similar to 8" Unit above but with $3/_4$ " panels. Dynamic range of 110 db without distartion is normal. If factory assembled would cost \$99.95. Shpg. wt. 50 lbs. \$5195 \$51.95 No. 33A3501. Net Each

FOR 15" SPEAKER. Size 221/2" W. x 33" H. x 18" D. Similar to 8" Unit above but with 3/4" panels. Actually better than a horn enclosure 30' long and 121/2' in diameter. Dynamic range up to 120 db without distortion is normal. May be adapted for 12" or 10" speakers. If factory assembled wauld cost \$129.95. Shpg. wt. 60 lbs. No. 33A3502. Net Each. \$74.50

STEREOPHONES THE ULTIMATE LISTENING PLEASURE!



O NEW KOSS MODEL SP3XC. Will reproduce ony sound the humon eor con heor. Frequency response 10-15,000 cps. Impedance 4-16 ohms. Soft spange from ear and head cushions are comfortable even over extended periods of listening. With 8 ft. cord and plug and jack assembly for hookup to speaker voice coil leads. Wt. 2 lbs. \$24.95

Wt. 2 lbs. No. 33A5587. Model SP3XC. Net Each. 3 KOSS MODEL KorZ7. New design, fully adjustable. Wide range, highly sensi-tive reproducers feature distortion less than 1%. For 4.8-16 ohm program source up to 60 watts per channel. Foom filled ear cushions are removable. New 8 ft, coiled cord adds convenience. Wt. 2 lbs. No. 33A6588. Model KO727. Net Each. 3 KOSS MODEL PRO-4A. New improved professional headset engineered to meet the most rigid requirements of audio engineers, laboratories and shatter-proof. Adjustable spring steel headbond and fluid filled ear cushions are designed to fit head contour, thus forming o better seal against outside noise, con be readily 30-20,000 cps, 4 ohm impedance. Has 10 ft. coil cord and plug. \$50.000 No. 33A6589. Shag. wt. 2 ibs. Net Each.

• NEW KOSS MODEL K-6, medium price wide range stereo headphones will produce your favorite music, from 10 Hz to 15,000 Hz. Impedance 4-16 ohms. Vinyl coveted cushions removable for easy cleaning. Features extremely comfortable sponge foam headband for comfort during extended listening periods. Complete with 8 ft, cord with standard sterea phone plug for con-venient connection to most amplifiers and receiver systems. \$26.50 \$26.50 No. 33A6622, Model K-6. Net Each



NEW MODEL EN-5 STEREOPHONES

With features usually found in higher priced units. Dramatic full sound with 50-18,000 cps Frequency Response. Extra soft removable foam-filled superflex 3 core vinyl. Complete with 8' Superflex core vinyl. Complete with 8' Superflex core d with stereo phone plug. Brown with Avocado Green trim. Shpg. wt. 1 lb.

No. 33A6621, Each.

E E

FINE IMPORTED STEREO HEADPHONES

\$9.95



\$3.95

KOSS JUNCTION BOX

MODEL T-5. For connecting one or two stereophones to existing stereo or monaural systems. Impedance 4-16 ohms. Contains two volume controls for controlling sound level in each phone. Has two output jocks for stereo or monaural use. Equipped with speaker off-on switch for personalized lis-tening. Shpo. wt. 1 lb. No. 33A6590. Model T-5. Net Ea. \$9.95

25 Ft. 3-Cond. Extension Cord for Stereo headphones. Male plug one end, female jock other end. No. 33A6591.Wt. 8 oz. Net Eoch.

Provides obsolute stereo separation and lets you have startling new sounds from your fovorite stereo. Reproducers fit snugly to your ears shutting out 95% of all outside noise—assures you of intimate private listening without disturbing others



SUPEREX ST-C SUPEREX ST-C SUPEREX ST-PRO-B THE POPULAR SUPEREX MODEL STM Has separate woofer and tweeter in each phone with a miniaturized crossover network, plus an individual tweeter control for each phone, ideal for listening to your prized records at full volume without disturbing others, practicing the organ in privacy, monitoring stereo tape recorders. Styro-foam ear cushions, adjustable headband, cord and 3-conductor plug included. Response 20-20,000 cps. Impedance 6-8 ohms. No. 3346502 Model STM No. 33A6592, Model STM. Net Each.

No. 33A6592. Model STM. Net Each. (i) SUPEREX MODEL ST-C The Challenger is an outstanding new headphone. Engineered to let the music enthusiast hear stereo the way it was meant to be heard. Features Superex's exclusive double post and yoke, the "Ear-formed" vinyl covered polyurethane ear cushions assure a perfect seal so necessary for low frequency response. They can be removed for replacement or sterilization. Impedance 4-6 ohms. Frequency response: 40-15,000 cps. Power: maximum 2 watts. Element: Dy-namic, With 7 ft. cord and stereo plug. Shpg. wt. 2 lbs. \$19.95 \$19.95 No. 33A6641. Net Each

MODEL ST10 STEREO

MODEL ST10 STEREO TWIN HEADPHONES Features Elliptical speakers which de-liver flat response of 16-15,000 cps. Producing rich bass tones and faith-ful reproduction of highs. Soft foam rubber cushions give excellent acous-tic seal. Stainless steel headband carefully tempered to maintain abso-lute comfort. 8 ft. cord has built-in strain relief and stereo phone plug. Shpg. wt. 1 lb. Impedance 3-16 ohms. No. 33A6619. \$24.95 Net Each.



MODEL ST20 QUALITY

MODEL ST20 QUALITY STEREO SOUND Channel control is built into headset eliminating inconvenience of separate control center. Maintains perfect stereo balance. Features elliptical speakers, with 10-15,000 Hz response. Soft foam rubber cushions give excel-lent acoustic seals, are removable for easy cleaning. Imped. 3-16 ohms. With 8 ft. cord and stereo phone plug. Brown and tan. Shgs. wt. 1 lb. No. 33A6618. Net Each

DELUXE STUDIO QUALITY STEREO PHONES

With Junction Box — Response 25-18,000 CPS. B-A has sold hundreds of these exceptionally nice phones. Each earpiece actually contains a high quality wide-range miniature dynamic speaker with its own miniature volume control for perfect stereo balance and beautiful tonal quality. Lightweight soft foam rub-ber padded, comfortable to wear and well constructed. Has 7 ft. cord, 1/4" 3-way plug and junction box for 4-8-16 ohm amplifier output. Wt. 2 lbs. No. 33A6594. Import Special Value

KOSS T-10 FOR CHAIRSIDE LISTENING

Handsome new connecting box for plugging in Koss Stereophones beside your favorite choir or other locations remote from equipment.

Wires directly to amplifier. Accepts two sets of stereophones. Has separate volume control for each phone plus speaker on-off control switch. In handsome walnut cobinet. Impedance 4-16 ohms. Shpg. wt. 2 lbs.









STEREO CBO1 - PRICE IS

LOW ... VALUE HIGH!

SAVE UP TO \$79.30 ON ONE OF THESE SPECIALLY SELECTED COMPONENT SYSTEMS!



SAVE '59"	
HERE'S WHAT YOU GET	
REG. PRIC	E
1—B-A 40-Watt AM-FM-MX Stereo Receiver (No. 33A346, See page 7 for complete description)\$129.9!	5
I-Garrard 40B Automatic Turntable (No. 33A530, See page 4 for complete description) \$ 44.5	0
2—B-A High Compliance Speaker Systems (No. 33A2019, See page 12 for complete description)	
1—Shure M32E Magnetic Cartridge (No. 33A5007, Described page 6) \$ 29.50	
PLUS 50 Ft. of Speaker Cable.	
No. 33A416. COMPLETE SYSTEM \$199.95 B-A's SPECIAL LOW PRICE	



HERE'S WHAT YOU GET ...

- REG. PRICE -Kenwood KR44 75-Watt AM-FM 1-Stereo Receiver (No. 33A399, See page 8 for complete description)... B-A 3 - Way High Compliance Speaker Systems (No. 33A2071. \$239.95
- Speaker Systems (No. 33A2071, See page 13 for complete description) \$119.90
- -Carrard SL55B Automatic Turn-table (No. 33A542. Described
- \$ 59.50
- \$ 4.95 -Shure M44E Elliptical Cartridge (No. 33A5005. Described page Described page 6)...\$ 24.95
- PLUS 50 Ft. of Speaker Cable. IF PURCHASED SEPARATELY \$449.25 No. 33A417. COMPLETE SYSTEM \$369.95 B-A's SPECIAL LOW PRICE
- B-A'S SPECIAL LOW PRICE

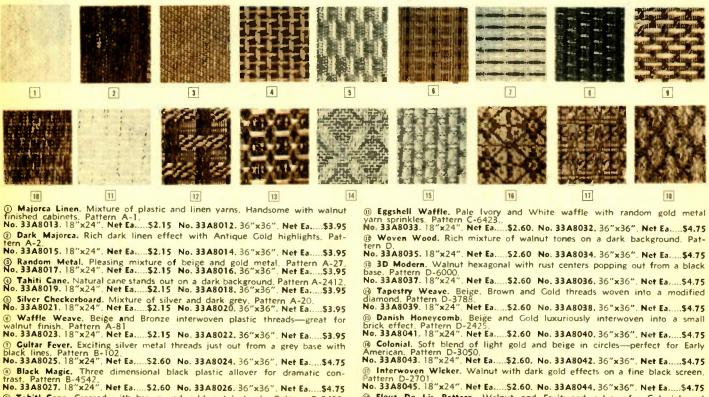


SA VE \$7125 HERE'S WHAT YOU GET ...

REC. PRICE
1-Harman-Kardon 90-Watt AM-FM
Stereo Receiver (No. 33A398.
Described page 9) \$199.95
1-Walnut Cover for H-K Receiver
(No. 33A9503) \$ 24.95
2-B-A Deluxe 4-Way Speaker Sys-
tem (No. 33A2022, Described on
page 12) \$139.90
I-Garrard SL75B Automatic Turn-
table (No. 33A540, Described on
page 3)\$109,50
I-Garrard Base for SL75 (No.
33A580. Described on page 4)\$ 6.50
1-Shure M75E Hi-Track Cartridge
(No. 33A5003. Described on page 6)\$ 39.95
PLUS 50 Ft. of Speaker Cable,
IF PURCHASED SEPARATELY SEAA TE
No. 33A418. COMPLETE SYSTEM CARO FO
No. 33A418. COMPLETE SYSTEM \$449.50
THE FULL FOR FRICE

DECORATOR GRILLE FABRICS BY ACOUSTONE

PATTERNS AND COLORS TO MATCH EVERY FURNITURE STYLE AND COLOR



Tahiti Cane. Crossed with brown and gold metal stands. Pattern B-2422. No. 33A8029. 18"x24". Net Ea.....\$2.60 No. 33A8028. 36"x36". Net Ea.....\$4.75 () Tree Bark. Chocolate strands interwoven irregularly with gold metal threads. Pattern 8-5082. No. 33A8031. 18"x24". Net Ea.....\$2.60 No. 33A8030. 36"x36". Net Ea.....\$4.75

(i) Fleur De Lis Pattern. Walnut and Fruitwood colors—for Colonial and Italian periods. Pattern D-3060. No. 33A8047. 18"x24". Net Ea.....\$2.60 No. 33A8046. 36"x36". Net Ea.....\$4.75

All of above grille fabrics available in any length. Over 36" in 36" widths. Using the 36" price to calculate your cost for even foot length of 6' or over you may deduct 10% from the above prices.



Now, enjoy a complete music center with the finest reproduction for a fraction of the cost of a typical compact system. All the desired features have been put into this system, Features solid-state dual-channel push-pull amplifier with a full 36 watt output. Inputs provided for external sound source such as tape recorder, TV, etc. Output jacks for tape recording directly from amplifier section. Six precision rotary controls: Bass, Treble, Balance, Volume, Tuning, Function: Tape, Phono, FM Stereo, FM and AM. Illuminated slide-rule dial with logging scale. Front mounted stereo headphone jack. Precision Carrard fully automatic changer with studio-type 11-inch turntable

has full range ceramic cartridge with diamond stylus. Plays manually or automatically. Deluxe oiled walnut enclosures with heavy duty 8-inch woofer and 21/2" tweeter in each wing are the perfect size for wall mount or bookcase. Antenna terminals provided for connection of outside FM antenna. AC convenience outlet for auxiliary power source. Size: Control center, 17" deep, 163/8" wide, 9" high (including dust cover); Speakers each 14" high, 9%" wide, 6%" deep. Shpg. wt. 35 lbs. No. 33A430. \$199.95 \$199.95

Model M-4750, Including Dust Cover. Each

kardon harman

A NEW APPROACH TO BOOKSHELF MUSIC SYSTEMS

Harmon-Kardon has now developed a line of ultra-compact music systems that are specifically designed to fit perfectly on a bookshelf. These new high performance systems don't jut out, dangle or sit precariously on a shelf.



HARMON-KARDON SLIMLINE AM/FM STEREO MUSIC SYSTEM WITH MINI RECORD CHANGER

The same Receiver/Speaker combination as the SL1012 (at right) but in addition it features a highly sophisticated up-to-date mini-changer made especially for Harman-Kardon. The record changer matches the sleek, low receiver silhouette design of the No. 33A433. Model SL1112. AM/FM Receiver with 2 H-K12 \$249.95 Speakers and Matched Stereo Record Changer.



HARMAN-KARDON SLIMLINE AM/FM STEREO MUSIC SYSTEM WITH MINI CHANGER AND TAPE CASSETTE

The same Receiver/Speaker combination as the SL1012 (at right) but includes the PC-13 combination Stereo Cassette Recorder/Player and Stereo Mini-Changer. This music system represents a significant breakthrough in styling versatility and price! \$349.95 No. 33A432. Model SL1312. Complete

Model PC13	Mini-Changer	with	Stereo	Cassette	Recorder	and Dust Cover.
No. 33A434.						\$149.95
Complete						

They fit . . . perfectly and deliver an amount and quality of sound that is unprecedented in their price category.



HARMAN-KARDON SLIMLINE AM/FM STEREO MUSIC SYSTEM

^{\$}199⁹⁵

The SL1012 is a Stereo AM/FM Receiver of unique design. It's the only high performance stereo system that will fit on a 12" standard bookshelf without jutting over. In spite of its extremely compact size it offers all the important features and conveniences of separate components. It accepts any record player with ceramic phono pickup. Will accept 8 track tape system or tape cassette for record and playback. Separate full range bass and treble controls insure complete tonal balance. Comes with 2 H-K12 omnidirectional speakers. These speakers have been designed to complement the electronics and are capable of handling the full power of the receiver without distortion. See full description of H-K12's on page 18. Receiver portion is housed in an elegantly styled walnut enclosure with see through plastic cover over the controls. The control panel is shaped to give an additional touch of elegance and facilitate easy operation of the controls. Specifications: Receiver frequency response audio \pm 1 db 30-15,000 Hz; Power output 30 watts (EIA) peak. Size control center: 151%" W. \times 5%" H. \times 1134" deep; speaker size, 1334" H. \times 9½" diameter. The SL1012 is a Stereo AM/FM Receiver of unique design. It's the only high performance stereo system that will fit on a 12" standard bookshelf without

No. 33A431. Model SL1012. Complete with H-K12 Speakers

AN EXCITING NEW CONCEPT IN SPEAKER DESIGN



kardon harman

OMNI-DIRECTIONAL DISPERSION

Serious music lovers and high fidelity buffs who advocate reflected sound claim it for three main reasons:



Dramatically increases stereo depth.
 Spreads the stereo effect throughout the listening room.
 Improves the character of the sound itself! the bass becomes richer, the highs sweeter.
 Omni-directional sound dispersion creates greater spaciousness and depth without loss of fullness. It is unquestionable to the source of the sourc

tionably the speaker sound of today.



\$4495

HARMAN-KARDON MODEL H-K 12 **OMNI-DIRECTIONAL SPEAKER**

OWINI-DIRECTIONAL SPEAKER The specially constructed six inch twin-cone driver utilizes a heavy ceramic magnet structure which permits it to handle an inordinate amount of power for such a compact speaker system — 20 watts music power. Constructed of rigid polystene covered with a high grade simulated walnut lami-nate which is totally resistant to marring and stains. This system is uniquely compact in size and extremely good-looking. It will perform with total clarity if placed on floor, table top or open type bookshelf. Specifications: Freq. Resp: 50-16,000 Hz, Medium-high efficiency, 360° dispersion, nominal imped-ance, handles 20 watts music power, 6 in. twin-cone long-throw extended range driver, size 134″ HX, 9½° Diameter.

No. 33A2074. Model H-K 12. Each \$44.95



\$6995

The H-K 25 is the HK 12's "big brother." It is somewhat larger and employs a true two-way system with crossover network. Response is ex-ceptionally linear and sound dispersion is 360 de-grees. The HK-25 will handle 35 watts of music power with relative ease. It covers a broad fre-quency range through the use of a rugged long-throw six inch bass driver and 21/2 inch tweeter. Specifications: Freq. Resp: 43-20,000 Hz, medium-high efficiency, 360 degrees dispersion, nominal impedance 8 ohms, handles 35 watts music power. Size 161/2" HX, 12%" Diameter. Constructed of rigid polystyrene with high grade laminate in walnut wood-grain finish. No. 33A2075. Model H-K 25. Each. No. 33A2075. Model H-K 25. Each.....\$69.95



HARMAN-KARDON MODEL H-K 50 **OMNI-DIRECTIONAL SPEAKER**

The H-K 50 is the "top of the line" in omni-directional speaker systems. The handsome oiled walnut enclosure houses an 8 inch air-suspension woofer (long-throw type) and a 21/4 Inch hard surface cone tweeter. The 2500 Hz crossover network with tweeter level control and input connections are located on the underside of the enclosure. The oiled walnut enclosure with circular slate-insert on top Is fin-ished on four sides to permit placement anywhere within the listening room. Specifications: 35-18,000 Hz, handles 40 watts music power, 8 inch woofer with 21/4 inch tweeter, 360 degree dispersion, 8 ohm impedance, Cabinet size 18" HX, 103/4" Square, \$99.95 No. 33A2045. Model H-K 50, Each

harman kardon

MODEL SC1510



The smallest most graceful high performance compact music systems ever made. Engineered to deliver maximum amount of sound from minimum visible equipment. High power solid-state amplifier that is matched perfectly to their specially designed air suspension speakers. These speakers are created as an extension of the amplifier and are specially contoured to handle power with ease across an extremely broad musical spectrum. The heavy magnet construction used in the speaker's woofer provides excellent bass response. Special output circuit has protective relay safeguards against short circuits. Resets automatically once short is removed. Unique speaker switch permits user to connect stereo speakers in two rooms and simultaneously. A rear panel mono/stereo switch works in conjunction with speaker system #2 permitting user to connect stereo speakers to system #1 and mono speakers to system #2. Remote system can be monophonic for use in kitchen, den, patio, etc. while main system is stereo. Contour switch restores bass frequen-cies at low volume levels. Contour may be defeated when not required. It is

PHONO COMPACT MUSIC SYSTEM 50 Less Dust Cover Modular construction throughout to guarantee uniformity and total reliability. Full range balance control can compensate for program material, room acoustics and speaker

- unbalance. · Modular construction throughout to guarantee
- uniformity and total reliability.

deteated automatically at higher volume levels. Has high level stereo inputs. Stereo tape recorder outputs.

Specifications: Power output: 40 watts; Freq. Resp.: 20-30,000 Hz \pm 1.5 db @ 1 watt; Intermodulation Distortion: .25 @ 1 watt; H.D. less than 1%; Square Wave Rise Time: better than 5 microseconds; Speakers: 2 air loaded, high compliance systems with extended range, with dispersion driver. Dimensions: 9" W. x 14" H. x 7½" D. Control Center: 151/4" W. x 8" H. x 173/4" D. (with optional dust cover in place). Shpg. Wt. 20 lbs.

No. 33A370. Model SC1510. (Less dust cover). Each	\$199.50
Control Center above with H-K 12 Omnidirectional Speakers. No. 33A423. Model SC1512. Each	\$219.50
No. 33A371. Dust Cover for above. Each	\$19.50

kardon STEREO COMPACT SYSTEMS harman



Solid State Design Garrard Turntable

MOSFET Devices Used in Tuner.
 80 Watts Power.

Rated a "Best Buy" by a leading consumer organization this compact system offers fine stereo performance in a small package. The receiver portion features MOSFET (metal oxide silicon field-effect transistors) front end for spectacular reception. Automatic stereo-mono FM switching with stereo indicator. 30 watt IHF stereo system boasts a defeatable contour switch, two-room stereo speaker switches, bass and treble tone controls, full range balance control, provisions for external program sources (TV, Tape Recorder, etc.) The Carrard automatic turntable operates at 16, 331/3, 45 and 78 RPM. The changer utilizes a solid state phono cartridge with dlamond stylus. Features famous Harman-Kardon Nocturne styling. Rich sculptured walnut cabinetry, gleaming ebony and gold front panel. Specially designed speakers feature two air-loaded high com-pliance systems with heavy magnet 8" woofer network and 3" wide dis-persion tweeter. 171/4" H. 81/4" W. Output: 30 watts IHF; Fre-guency Response: 20-30.000 Hz; Harmonic distortion less than 1%; Control Center Dimensions: 81/2" H, 18/4" W. 173/4" D. Wt. 61 lbs. (2 cartons). No. 33A375. Model \$C2020.

Net Each No. 33A424. Model SC20 Control Center With H-K 25 Speakers. (See page 18 for details on H-K 25). Net Each. Model SC20 Control Center with H-K 50 Speakers (See page 18 for details on H-K 50). No. 33A425. Net Each \$369.50

No. 33A374, Model DC-44A, Shpg. wt. 4 lbs, Net Each

THE MOST COMPLETE MUSIC SYSTEM EVER DESIGNED **INCLUDING:** CASSETTE RECORD, PLAYBACK FM-FM MULTIPLEX RADIO & PHONO



• All Solid State Design.

- Special Narrow Gap Recording Head for Greatest Frequency Response.
- Garrard Automatic Turntable.
- . FM/FM Stereo Receiver with precision ball-bearing planetary station selector.
- MOSFET Devices used in the tuner for greater sensitivity.
- Two Walnut Wood High Compliance • Speaker Systems.

C

BUILT-IN RECORDER SECTION OF MODEL SC-2520

The exciting SC-2520 total music system will play monaural and stereo records; monaural and stereo FM broadcasts AND it will record and playback cassette stereo tapes. Using a specially designed tape cassette system the SC-2520 will playback pre-recorded tapes, tape FM broadcasts off the air, or tape records, even your voice. In monaural or stereo. Records up to two hours at $1\frac{1}{16}$ ips (both tracks). Very narrow gap recording head makes high frequency response clean and clear. Easy push-button controls for all cassette functions, play, record, rewind and pause. The recorder may be activated while listening to FM stereo or a cherished record. The receiver portion features MOSFET (metal oxide silicon field-effect translstors) front end for spectacular reception. Automatic stereo-mono FM switching with stereo indicator. 30 watt IHF stereo system boasts a drebel cone controls, full range balance control, provisions for external program sources (TV, Tape Recorder, etc.) The Carrard automatic turntable





operates at 16, 331/3, 45 and 78 RPM. The changer utilizes a solid state phono cartridge with diamond stylus. Features famous Harman-Kardon Nocturne styling. Rich sculptured walnut cabinetry, gleaming ebony and gold front panel. Specially designed speakers feature two air-loaded high com-pliance systems with heavy magnet 8" woofer network and 3" wide dis-persion tweeter. 1714" H. 81/4" D. 111/4" W. Output: 80 watts IHF; Fre-quency Response: 20-30,000 Hz; Tape Cassette Frequency Response: 45-12,000 Hz; Harmonic distortion less than 1%; Control Center Limensions: 81/2" H. 181/8" W. 173/4" D. Wt. 61 lbs. (2 cartons). No. 33A372. Model SC-2520. Net Each

Hand	isome D	ust Cov	er for the	above r	models.	5	19.95
			DC-44A. SC2525B			Gu	\$469.95
			SC2550B				\$499.95

PANASONIC STEREO MUSIC CENTERS

MODEL SC-555 PANASONIC **60 WATT STEREO MUSIC CENTER**

- COMPACT DESIGN & STYLING.
- FET FM TUNER.
- WIDE BAND AM TUNER. AUTOMATIC TURNTABLE
- W/CUEING LEVER.
- FULL RANGE SLIDE CONTROLS. DUST COVER INCLUDED.

ACOUSTIC SUSPENSION LOUDSPEAKERS

SEPARATE

\$**229**⁹⁵

The Panasonic SC555 storeo music center is an exciting new concept in design and styling of high fidelity components for home entertainment. Beautiful walnut cabinetry enhanced by black and brushed chrome trim will complement any room decor. FM tuner features FET's for greater sensitivity and rejection of unwanted signals. A FM IF stages to tune in the weakest FM signals. Circuits automatically switch from mono to stereo when FM stereo station is tuned on dial. FM stereo light indicates stereo station. The exclusive Panasonic wide range linear sliding controls provide precise adjustment of sound to suit personal tastes. Separate bass and treble controls. Stereo headphone jack provided on front panel. Inputs on back panel provided for connecting tape recorder or other program source such as new 8-track cartridge or stereo cassette players. Output jacks provide for direct tape recording.

MODEL SC-666

80 WATT STEREO

MUSIC CENTER

AM TUNER INCORPORATES RF

REMOTE SPEAKER SWITCH. AIR SUSPENSION SPEAKER

\$**799**⁹⁵

DUST COVER INCLUDED.

PANASO

FET FM TUNER.

• 80 WATTS.

STAGE.

SYSTEMS.

.

.

pressure and built-in anti-skating compensation assure reliable operation with the exclusive Panasonic Magnistate cartridge and turnover diamond stylus.

stylus. Music power 60 watts at 8 ohms. Power bandwidth 22 Hz to 25,000 Hz -3 db. HD 1.0% at 1 KHZ and rated output. FM Sensitivity IHF 2.9 uV. S/N ratio at 60 db. FM stereo separation 35 db. Capture ratio 2-5 db. Speaker crossover frequency 8000 Hz. Dimensions: Center Unit 17% "x8% "x15½"; Speakers 93% "x15% "x8½" No. 33A408. \$229.95

Model SC555, Each



Now a complete stereo music center of professional standard. Latest engineering and advanced technology in solid state design enables this instrument to deliver an extraordinary amount of quality of sound. Rich all wood walnut cabinetry enables you to place speakers on wall mounts, bookshelf or floor to complement room decor. Control center with professional-style turntable, rocker-type switches, and linear sliding controls can be placed on bookshelf, bookcase, or on endtables. Tuner section has 4 IF stages a unique design ratio detector to provide true broad-band frequency response. Calibrated field strength meter and automatic stereo indicator lamp provide perfect center-of-channel tuning. The wide-range sliding controls allow smooth and instant adjustment of bass and treble frequencies. Rocker-type switches control stereo-moon function. main-remote speakers, tape-monitor, and stereo headphones. Facilities are provided on the rear panel for connection of two pairs of speakers, external program source such as tape recorder or the new 8-track cartridge or cassette players. Tape recorder output jacks are provided for program source and computer-type indicator show program source selection. The compact speaker systems incorporate an 8 inch woofer with inverted

half-roll surround for bass response down to 39 Hz, coupled with a 2 inch wide dispersion tweeter for smooth response out to 19,000 Hz without distortion.

distortion. The 4 speed automatic turntable features cue control, adjustable stylus pressure and anti-skate controls, and Pickering V-15 Micro-Magnetic cartridge with diamond stylus. Music power 80 watts at 4 ohms. Power bandwith 20 Hz to 25,000 Hz -3 db, HD 1.0% at 1 KHz and rated output. FM sensitivity IHF 2.8 uV. S/N ratio 60 db. FM stereo separation 35 db. Capture ratio IHF 2.5 db. Speaker crossover frequency 8000 Hz. Dimensions: Center Unit 17% "x87%" x187%"; speaker system 113% "x173%" x83%"

\$299.95

No. 33A409. SC666. Each





Handsomely styled low boy design ideal for limited space areas. Stores up to 150 12" records. Has full view sliding doors with brass door pulls. Supplied knocked down. Easily assembled in just minutes requires no tools, bolts or screws. Sturdy hardboard and wood construction. 26¼" W., 26" D., 15" H. Wt. 18 lbs. No. 33A8501, Net Each



CUSTOM COMPACT ALL-PURPOSE CABINETS

Three decorator styles with period-matched brass finished hardware. Compact in size yet easily stores over 200 records. Size 27" W, 15" deep, 26" H, Shpg. Wt. 25 lbs. No. 33A8502. Modern Style. Each. No. 33A8503. Early American Style. Each...\$16.88 No. 33A8504. Mediterranean Style. Each...\$16.88 COMBINATION RECORD AND BOOKCASE CABINET Beautifully styled decorator cabinet. Has record storage compartment as well as space for radio, record player. Perfect for holding compact Hi Fi systems as listed below. Soft wood grained finish. 3 designs. Size 36" W, 15" D, 30" H. Shog. Wt. 33 lbs.

3 designs, Size 36" W, 15" D, 30" H, Shpg. Wt. 33 lbs. No. 33A8505. Modern Walnut. Each \$24.88 No. 33A8506. Mediterranean Fruitwood. Each \$24.88 No. 33A8507. Early American. Each \$24.88

STEREO MODULAR COMPONENT SYSTEM AT BUDGET PRICE!



This stereo system has everything needed to provide beautiful stereo music at a price everyone can afford. Sensitive AM-FM stereo radio pulls in the most distant stations. Two 4" x 6" speakers in walnut enclosures give full range sound. Stereo phonograph plays all records stereo and mono. Stereo indicator light comes on when stereo FM is being broadcast.

Stereo headphone jack plus tape inputs and outputs permit personal listening and connections for direct tape recording. Includes external antenna connection plus 300 ohm "T" type FM antenna. Shgs. Wt. 30 lbs. \$99.95 No. 33A429. Model 4356-421. Complete System. Each......

B-A SPECIAL PURCHASE SCOOP SAVE \$21.07 OFF 1969 CATALOG PRICE!



MAGNIFICENT 4 SPEAKER SYSTEM FAMOUS GARRARD 4-SPEED CHANGER

- Frequency Response-50-15,000 cps. Solid State Stereo Amp. and Tuner with
- "Instant-On" Feature.

Beautifully styled in Walnut and Beige makes this model most desirable, for all decors, Tops in performance ... Has all the musical capabilities of an expensive stereo Hi-Fi console with the added convenience of smaller size and portability. Provides faithful reproduction from whatever the program source to please even the most critical listener.

Stereo Speaker Systems. Detachable swing-out wing enclosures, each with large 6" Woofer Speaker— $3!/_2$ " High Frequency Tweeter.

Carrard 4-Speed Stereo Record Changer. Fully automatic, stops after last record is played, intermixes 12" and 10" records of the same speed in any sequence. Dynamically balanced motor with lifetime lubricated bearing.

B-A's FINEST! STEREO HIGH FIDELITY AUTOMATIC PORTABLE WITH **STEREO FM AND FM/AM RADIO**

> **REG. PRICE** WAS \$149.95

B-A's LOW PRICE...

Solid-State Amplifier. Provides 10 watts from powerful all transistor circuit with "Instant-On" action and power transformer. Wide 70-15,000 cps Fre-quency Response, results in true Stereophonic, full-dimension volume, Stereo FM and FM/AM Radio. Tunes in FM Radio in thrilling full-dimen-sional stereo volume... Full broadcasting reception on both AM and FM. FM Stations are securely locked in with (AFC) Automatic Frequency Control

Cabinet is beautitul Walnut and Beige with aluminum trim and knobs. Hide-a-way Changer conveniently swings down for playing. Overall Size: 21'' W, $14!_2'' H$, $11!_2' D$. 117 VAC. UL Approved. \$128.88 No. 30A407. Shpg. wt. 38 lbs. Net Each. \$128.88

NOW! A PORTABLE PHONO WITH A NEW CONCEPT IN STEREO SOUND!







COLUMBIA MASTERWORK

Omni-directional speakers. Famous Garrard Changer. . Separate Bass and Treble Controls.

\$9995

High quality Masterwork workmanship combined with the new omni-directional speaker systems makes this stereo phonograph an outstanding value at this low price. Famous Carrard 4-Speed Changer is fully automatic with 45 RPM spindle and diamond stylus. Solid State Dual Channel Amplifier: 15 watts output gives superb stereo sound. Four precision controls: Volume, Balance, Bass, Treble.

Omni-Directional Speakers: 2 balanced 6" speakers in walnut covered cabinets with stylish aluminum trim. Center unit has drop-down changer and walnut covered cabinet. Size: $33\frac{1}{2}$ " wide, $8\frac{1}{2}$ " deep, $13\frac{7}{6}$ " high. Shpg. wt. 36 lbs.

No. 30A420. Masterwork Model M-2314. Each

\$99.95



EXTRA BONUS: 45 RPM SPINDLE FREE!



BEAUTIFUL WALNUT TRIM

Magnificently appointed case in Rich Walnut houses this component quality Stereo Phono System. Powerful Solid-State Amplifier provides 10 watts of stereo power.

Famous 4 Speed Garrard Changer. Fully automatic, stops after last record is played. Dynamically balanced motor with lifetime lubricated bearing.

NEW! ALL TRANSISTOR SOLID STATE STEREOPHONIC PHONOGRAPH

- Solid State
- Garrard Record Changer . . Frequency Response-70-15,000 cps
- High styled, fold down record playing compartment



Stereo Speaker Systems. Two 5" High Efficiency PM Speakers acoustically balanced, reproduce true stereo reproduction. Each speaker is housed in its own detachable enclosure for ultimate stereo separation. Operates on 110-120 Volts 60 cycles AC. Size: 181/4" W, 131/4" H, 71/2" D. UL listed, Shpg. wt. 25 lbs. 25 lbs \$79.95

No. 30A408. Model 4201WA. Each ...

PORTABLE PHONOS FOR MUSICAL FUN!

GENERAL ELECTRIC 4-SPEED SINGLE PLAY \$16⁸⁸ **PHONOGRAPH**

PHUNUGKAPH Any youngster will be thrilled with this full-size "grown-up" CE phono. Ruggedy built to take bumps and bruises, yet light enough for easiest carry-about. Plays all 4 speeds, all sizes. -7, 10 and 12". Solld-state am-plifier for Instant play--no warm-up needed. Big dynamic 4" Alnico V speaker for pleasing tone and full room volume. Scuff-resistant and washable white and blue polyethylene case. Can store ten 45 RPM records in Idd. 131/2" W., 41%," H., 9" D. 110-125 V. 60 cy. AC. Shpg. wt. 61/2 lbs. No. 30C59. Stacks Each





SWINGMATE AUTOMATIC **4-SPEED SOLID** STATE PORTABLE PHONOGRAPH \$29.95

PHONOGRAPH \$29.95 Wow! What a terrific buy this is. Just think—a complete portable auto-matic phono at just pennies more than a record changer alone. Take the "Swingmate" where the action is— so easy to carry, weighs just 11 lbs. High impact scuff-resistant case takes abuse. Plays all monaural records with dual styli, all speeds (331/2, 45, 78 and 16 RPM) all sizes (7, 10 and 12"). 45 RPM spindle included. Auto-matic shut-off after last record, or will repeat if desired. Fine tone qual-ity from front mounted 2x6" Dyna-coustic speaker. Solid state amplifier for instant sound, longer life and re-liability. Size 14" W., 141/4" D. 7" H, 110-125 V. 60 cy. AC. Shog. wt. 15 lbs. 15 lbs. \$29.95 No. 30C56. Each



\$5995

Slim, trim and youthol... right-up-front in performance tool. An outstanding value in sound, looks, convenience ond durability. General Electric 4-speed automatic changer with dual styll plays all records— stereo and monaural, all sizes 7, 10 and 12". 45 RPM spindle included. Auto-matically shuts-off or will repeat last record if desired. 9" turntoble rubber matted for fullest record protection. Solid state stereo amplifier requires no warm-up, plays instantly, three audio controls—separate right and left channel volume controls, and tone control-are conveniently mounted on front of changer. Detachable speaker wings, each with a 51/4" Dynacoustic speaker, can be separated from the phonograph up to 12 ft. for true stereo sound. High-impact polystyrene cabinet folds-up for easy carrying—weight just 10 lbs.

12 th, for true stereo sound. High-impact polystyrene cabinet folds-up for easy carrying—weight just 10 lbs. 19½" W., 7½" D., 12" H., 110-125 V. 60 cy. AC. Shpg. wt. 16 lbs.

No. 30A415. Each No. 30A322. Stand. Each

HANDY CUSTOM DESIGNED

STAND

AC/BATTERY PHONOS FOR MUSIC ON THE GO!

AM RADIO-PORTABLE PHONO AT A BUDGET PRICE

\$1995

- 2 Speed Phono. Super-Sensitive AM Radio. Ceramic Cartridge with Sapphire Needle.

OPERATES ON BATTERIES OR BUILT-IN LINE CORD

This little performer goes anywhere you go. Electronically controlled turn-table governor assures constant speed. Direct drive radio tuning on sensitive AM radio makes station selection easy. Separate adaptor for 45 RPM records.Plays 45 and 33 ½ RPM records. Powerful 8 transistor chassis. Operates on 4 "C" batteries which are in-cluded. Light weight tone arm with automatic shut-off. Size $111/2" \times 71/2"$ x 21/4". No. 30A421. **\$19.95**

\$19.95 Model TR6219, Each

PANASONIC

AC/BATTERY AM-FM PORTABLE PHONOGRAPH

Continuous Tone Control

• 4" Dynamic Speaker

- AM-FM Full-Range Radio .
- 2 Speed Phono •



This compact-designed radio-phono combination delivers Panasonic perform-ance from your favorite $33\frac{1}{3}$ and 45 RPM records. Operates on 6 "D" size batteries or regular AC current. Sensitive whip antenna for FM and ferrite antenna for AM assure quality sound from 4" dynamic speaker. Earphone jack for private listening or can be used for external speaker. 6 Panasonic Hi-Tap "D" batteries included. Size $11\frac{5}{8}$ " x $3\frac{1}{2}$ " x $10\frac{7}{8}$ ". No. 30A416. Model SC-719. Each

REALTONE PORTABLE 3-SPEED SOLID STATE RADIO PHONO AC OR BATTERY OPERATION



\$59.95

\$5.77

MUSTANG

FOR THE GROUP ON THE GO!

TEREO PHONOGRAPH

^{\$29⁹⁵} WALNUT CABINET

Play records, listen to favorite radio programs anywhere . . no plug-in needed. Amazing tone quality, big sound volume. Lightweight, only 5½ lbs. Slimline design in beautiful walnut wood cabinet, only $3\frac{1}{4}$ " thick. All solid state (6 transistors, 1 diode, 1 thermistor), powered by only 4 flashlight batteries. Rubber matted turntable starts as tonearm is placed on record, stops when arm is removed. Plays 7, 10 and 12" records at $33\frac{1}{3}$, 45 and 78 RPM.



Enjoy exciting stereo records as well as the ultimate in full range FM/AM reception. Operates on regular house current or six "D" batteries. Features precision Panasonic 4 speed record changer with ceramic cartridge and flip-over stylus. RPM governor motor control and automatic shut-off make for carefree phono performance. Antenna built-in for AM-FM reception. Slide-rule vernier tuning allows precise station selection. Four-inch full range dynamic speakers and continuous tone control provide highest quality sound. Attaché style case in distinctive charcoal-grey flnish. Complete with 6 "D" batteries. Size 1714" x 6" x 1276" Wt. 15 lbs. \$99.95 No. 30A417. Model SG-674. Each.



PHONO NEEDLES AND CARTRIDGES

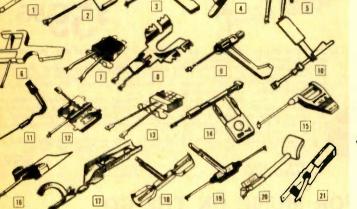


PRECISION DIAMOND NEEDLES

AMERICAN MADE DO NOT CONFUSE WITH LOWER QUALITY IMPORTS!

YOU WILL FIND NO BETTER QUALITY THAN THESE DIAMOND JEWEL TIPPED, HAND POLISHED NEEDLES. EXACT REPLACEMENTS FOR ALL POPULAR CARTRIDGES

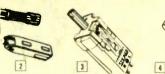




All are dual needles with diamond tip compatible for both stereo and LP records, also sapphire tip for 78 RPM records, except where asterisk (*) indicates a single diamond needle for stereo and LP only.



ASTATIC STEREO REPLACEMENT CARTRIDGES





Popular plug-in type cartridges used as original equipment in thousands of phonographs. Has highly sensitive ceromic element for clear wide-range response, Movement is precision engineered for high compliance, excellent transient response, and low distortion. 13T Series are stereo, 811 monaural. 13AT is same as 13T except has wider range and higher compliance. Average shpg. wt. 3 oz.

Stk. No.	Туре	Fig.	Response Cps	Needle Tip		Stylus Pressure	Mfg. List	Net Eoch
24A4014	13T	(1)	20-15,000	.75-35	.5V.	5 Gr.	\$5.95	\$3.57
24A4015	13TX	(1)	20-15,000	.7D-3S	.5 V.	5 Gr.	8.95	5.37
24A4016	13AT	(1)	30-20.000	.75-35	.3 V.	6 Gr.	7.95	4.77
24A4017	13ATX	(1)	30-20,000	.7D-3S	.3 V.	6 Gr.	10.95	6.57
24A4018	81 T	(2)	30-15,000	15-35	1.0 V.	6 Gr.	3.95	2.37
24A4019	81TX	(2)	30-15,000	1D-35	1.0 V.	6 Gr.	6.95	4.17

Replacement for many imported cartridges such as Acos, Ronette, Telefunken, Vaco, etc. High quality crystal cartridges have wide frequency range and separation. Type 76TSB and 86TSB have mounting bracket, bushing, ond knob included. Shpg. wt. 4 oz.

Stk. No.	Cart. No.	Output Volts	Response Cps	Mfg. List	Net Eoch
3 24A4020	70TS	2.0	50-10,000	\$7.25	\$4.35
D 24A4021	76TSB	2.0	50-10,000	7.95	4.77
3 24A4022	80TS	0.8	50-15,000	7,50	4.50
D 24A4023	86TSB	0.8	50-15.000	8.50	5.10
3 24A4024	142	2.0	30-10.000	7.25	4.35
3 24A4025	74TS	2.0	50-10,000	7.25	4.35
324A4026	17	0.8	20-20,000	11.75	7.05
3 24A4027	17D	0.8	20-20.000	15.75	9.45

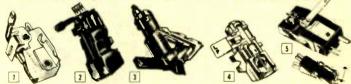
ASTATIC MONAURAL REPLACEMENT CARTRIDGES



A wide selection of high quality cartridges designed for easy replacement of 90% of all makes. Crystal units are Rochelle-salt type especially treated to resist heat and humidity. Turnover cartridges have 1 mil and 3 mil sapphire needles included, AG and MG single needle types have 2 mil and 1 mil respectively. Average shpg. wt. 4 oz.

Stk. No.	Cart. No.	Illus. No.	Output Voltoge	Response Cps	Element	Mfg. List	Net Eoch
24A4028	40TB	1	1.0	50-6,000	Crystal	\$8.45	\$5.07
24A4029	66TY	3	3.0	50-5,000	Crystal	6.50	3.90
24A4030	120	4	3.0	30-11,000	Crystal	6.45	3.87
24A4031	314TS	5	3.0	30-11,000	Crystal	5.45	3.27
24A4032	420	7	3.0	30-11,000	Crystal	5.45	3.27
24A4033	408	6	0.8	50-10,000	Crystal	4.45	2.67
24A4034	40-2	2	1.0	50-10,000	Crystal	6.50	3.90

ASTATIC SONOTONE CERAMIC CARTRIDGES



MONAURAL CARTRIDGES

High quality, not affected by temperature or humidity. Provides high output, flat response without equalization. 2TA type comes equipped with .7 mil needle for playing stereo records without damage, as well as all monaural records.

Stk. No.	Fig.	Sonotone Type	Astatic No.	Response Cps	Needle Tip	Output Volts	Mfg. List	Net Each
24A4035		2TA-S	445	20-20.000	.75-35	1 V.	\$ 7.40	\$4.44
2444036	õ	2TA-SD	445D	20-20,000	.7D-3S	1 V.	11.95	7.17
2444037	Ŏ	3T-SD	455D	20-20,000	.ID-3S	.5 V.	15.00	9.00

STEREO CARTRIDGES

Highest quality ceramic stereo cartridges give optimum trouble-free performance with smooth, wide range response. All have filp-over needle assemblies for playing all records, all speeds, stereo and monaural. Shpg. wt. 3 oz. All mountings $1/2^{\prime\prime\prime}$ centers.

Stk. No.	Fig.	Sonotone Type	Astatic No.	Response Cps	Needle Tip	Out- put Volts	DB Sepa- ration	Mfg. List	Net Each
24A4038	(2)	8TA4-S	133	20-20.000	.75-35	0.3	20	\$9.75	\$5.85
2444040	883	8TA4-SD	133D	20-20.000	.7D-3S	0.3	20	13.75	8.23
24A4041	3	10T2-SD	13TBX	20-15,000	.7D-3S	0.5	18	9.95	5,97
24A4042	٢	16TAF-SD	497D	20.12.000	.7D-3S	0.65	25	11.75	7.05
2444044	۲	9TAF-SD	499D	20-17,000	.7D-3S	0.4	30	12.75	7.65
24A4045	(5)	21TR-S	153R	20-20,000	.75-35	0.6	21	13.50	8.10
24A4046	3	21TR-SD	153RD	20-20,000	.7D-3S	0.6	21	17.50	10.50
24A4048		22T-SD	153D	20-20,000	.7D-3S	0.3	24	12.50	7.50
2444013	۲	39T-MB-DS	139D	30-10,000	.70-35	0.7	21	13.75	8.25

ROBINS PHONO AND RECORD CARE ACCESSORIES

3

PHONO LEVEL KIT. A level turntoble or record changer is a must for stereo roduction. Kit includes 4 odjustoble rubber feet, circular 4-way spirit level. . 5 oz. PHONO LEVEL KIT. \$2.79 No. 24A6000, Type PK-4. Net Eoch.

2

3 STYLUS MICROSCOPE. Precision ground lenses for clear mognification of stylus, slot at end of scope for holding stylus steady. Pen type pocket clin No. 24A6001. Wt. 3 ozs. Type PM-1. Eoch.

KLEENEEDLE BRUSH. Mounts on side of changer under tone arm so that needle posses through brush on every change cycle. Blobs of dust are removed automatically after every record. Wt. 2 ozs. No. 24A6002. PK-3, Shpg. wt. 1 lb. Each

POPULAR PHONO & RECORD ACCESSORIES



(a) ELECTRO-WIPE STATIC ELIMINATOR RECORD CLOTH Preserve your good records from harmful dirt and grit as well as static charge with one wipe! Eliminates record "pop and click" from vinyl attracted charges. Lubricates records for smoother needle operation, eliminates friction and static. Keeps grooves clean for true, clear fidelity, longer record life. Used by many broadcast stations and recording companies.Wt. 2 ozs No. 24A6003. Each

ANTI-STATIC RECORD CLEANER For vinylite and all standard records. The aerosol spray action removes dust and deposits a microscopically thin film. The film grounds static electrically and makes records permanently dust free, it will no longer cling to the sur-face. This reduces surface noise and increases record life. 24A6004, 5 oz. can. Each....79c No. 24A6005, 8 oz. can. Each....\$1.10

ASTATIC X-26 CRYSTAL CARTRIDGE



980 No. 24A623. Stellite Cutting Needle for above. AUDIO POINTS RECORDING STYLL

Sopphire recording styli meet the most exacting standards of broadcast and recording studios, each styli being individually tested for thread throw and signal-to-noise ratio. Short dural shanks.

Stk. No.	Туре	Description	Mfg. List	Net Eo.
24A376	14	78 RPM Sapphire Stylus	\$8.25	\$5.34
24A377	20	Microgroove Sapphire Stylus	8.25	5.34
24A378	34	Stellite Cutter Stylus	2.50	1.74

ELECTRO VOICE CARTRIDGES



Exact replacement for the most popular type cartridges, E-V quality assures top performance and fidelity. Needles: IS indicates sapphire tip, ID diamond tip-both for long playing records; 3S sapphire for 78 RPM recards; 7S sapphire tip for stereo records; .7D diamond tip for sterea records.

TOI STELEO	ICCC	Jugs,	To diamond the fer steres and		mrg.	rier
Stk. No.	Fig.	E-V	Replocement For	Needles	List	Eoch
24A4004	1	56	Monaural Plug-In	15/35	\$ 3.95	\$2.37
24A4005	1	56D	Monoural Plug-In	1D/3S	6.95	4.17
24A4006	1	66	Stereo Plug-In	.75/35	6.95	4.17
2444007	1	66D	Stereo Plug-In	.7D/3S	9.95	5.97
2444008	2	26	Euphonics, E-T, U-1	.75/35	11.50	6.90
2444009	2	26D	Euphonics E-2, U-2	.7D/3S	16.50	9.90
24A4010	3	54	RCA 108213, A, 110021	.75/35	10.00	6.00
24A4011	4	PT-2	Mount for 56 Cartridge		1.00	.60
2444012		PT-3			1.00	.60

DUOTONE SET SCREW TYPE NEEDLES

ard

Eoch

For 78 RPM

No. 24A625.

Sapphire Point. Goad for 5000 plays. No finer jeweled stand-

needle available.

69c

ALL GROOVE	
Sapphire tip needle. Truncat- ed for both microgroove and standard records. Plays all types of records withaut changing needles.	1

No. 24A624, Each 69c

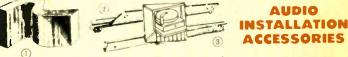
-	PHONO STROBE AND LIGHT KIT. Checks speed of chonger. \$1.59 No. 24A6007. Type PK-5. Wt. 6 oz. Eoch
	S PACKAGE OF 50 SNAP INSERTS FOR 45 RPM RECORDS. Snaps in lorge hole of record for use on stondord spindles of changers or players. No. 24A6008, Type PRA-50. Wt. 6 oz. Pockoge For
	THREE HILEI STEREO RECORD CLOTHS. Anti-stotic cleaning ingredient re-
	duces formation of dust on records. Wt. 6 oz. 79c No. 24A6009, Type PC-3. 3 For 79c The RECORD SAVERS. Heavy, clear plastic envelopes to protect records from
	scratches, dust, oil ond dirt. For 12" records. 75c
	 DELUXE RECORD CARE KIT. Everything needed for optimum record care. Contains stylus pressure gauge, stylus microscope, turntable level, record cleaning cloth, Kleeneedle brush, record brush, tone arm lift. No. 24A6011, PK-9 . Shgg. wt. 1 lb. Eoch.
	CLEAN SWEEP RECORD BRUSH Large camel's hair brush sweeps entire
	trocking surface of record removing dust and other particles. Pressure sensitive adhesive on base for easy mounting swings out of the way when not in use. Wt, 6 az.
	Wt. 6 oz. \$4.49 No. 24A6012. Type PB-88 Net Eoch \$4.49 TWO MIRACLE RECORD CLEANING CLOTHS AND CLIP-ON BRUSH. Chemi- cally treated cloths contain silicone. Cleans and lubricates records. Woshable.
	Record brush clips on to tone arm, sweeps dust from records. 79c No. 24A6013, Type PC-2. Wt. 4 oz. All For
	in STYLUS PRESSURE GAUGE. Accurately calibrated to measure stylus pressure from 1/2 to 8 groms. Wt. 4 oz. 89c No. 24A6014, Type SG-2. Eoch
	No. 24A6014, Type 33-2. EUCH

ROBINS®

LEKTROSTAT RECORD CLEANING KIT



Entirely new approach to the care and clean-ing of records, both LP and stereo. Actually cleans the grooves as well as the surface. Ex-clusive new formula, features a non-gumming, antistatic liquid detergent in a plastlc squeeze bottle, plus a special, fine-grain cloth appli-cator which goes down into the record grooves to clean out abrasive dust, as well as remove static. Annoying hisses and crackles disappear like magic, music sparkles with new clarity. Adds new life and brilliance to the finest records. In handy plastic pouch. No. 24A6015.Wt. 8 ozs. Kit. Each. \$1.96



FIBERGLAS ACOUSTIC INSULATION. Spun fiberglas material 1" thick elim-inates standing waves and controls reverberation inside speaker batfles. Ideal for any acoustic insulation application. 24x60" size in plostic bag.
 No. 33A6509, Type 30-356. Eoch.

(1) HEAVY-DUTY TYPE SLIDE DRAWER HARDWARE. Made of 16 gouge steel. Load capacity 50 lbs. Otherwise os obove. Shpg. wt. 2 lbs. Load capacity 50 lbs. No 33A6511, Per Poir. \$2.29



And the second second

ASTATIC PHONO PICKUPS

4

MODEL KR-314-T. Popular original equipment pickup with high output turnover cartridge for playing all speeds, 16, 331/3, 45, and 78 RPM. Ideal for replacement on portable phonagraphs where ruggednass at low cost is required. Base of pickup retracts into tone arm for use on phonos having low clearance in the lid. Supplied complete with mounting hardware and arm rest Mfg. list \$6.95. Wt. 10 ozs. No. 24A4002. Model KR-314-T Pickup. Net Eoch. State of the stat

Same us above except equipped with Astatic 74TS high output stereo cartridge. Mfg. list \$8.25. Wt. 1 lb. No. 24A4003. Model KR-74-TS Pickup. Net Eoch. \$4.95

FAMOUS AUDIO BOOK LIBRARY OF TALKING BOOKS

THE BIBLE BROUGHT TO LIFE ON RECORDS



Brings to life with thrilling realism the Bible ... read aloud by one of America's finest professional readers. Every word is read correctly and reverently ... not a word has been changed or left out. Recorded at 163's RPM on 7" unbreakable vinyl-ite records – each record plays for nearly an hour. A special adaptor is available for playing them on any phonograph capable of operating at 33's RPM, or they can be used with any 4-speed Record Player. Widely acclaimed by religious

Widely acclaimed by religious leaders, editors and laymen – ideal for the home, Bible classes, Sunday Schools, etc. Albums handsomely jacketed in simulated black leather with gold lettering.

 NEW TESTAMENT—King James version. Complete and unabridged—all 27 books.

 260 chapters. Mfg. List \$34.95.
 \$23.59

 No. 23C20. Per Album (26 Records).
 \$23.59

 NEW TESTAMENT—Challoner-Rheims (Catholic) version complete and unabridged narrated by the Rev. Robert I. Gannon, S.J. Mfg. List \$39.95.
 \$26.97

 No. 23C22. Per Album (30 Records).
 \$26.97

 OLD TESTAMENT—9 books: complete and unabridged. Genesis, Judges, Esther, Ruth, Psalms, Proverbs, Ecclesiastes, Solomon, and Isaiah.
 \$23.59

 No. 23C8. Mfg. List \$34.95. Per Album (26 Records).
 \$23.59

 BOOK OF PSALMS—Mfg. List \$8.50.
 \$5.74

PROVERS, ECCLESIASTES, THE SONG OF SOLOMON-Mfg. List \$5.95 \$4.	00
	ŲΖ
BOOK OF JUDGES AND RUTH-Mfg. List \$4.95. No. 23C150, Per Album (3 Records) \$3.	34
No. 23C150. Per Album (3 Records)	

BIBLE STORIES FOR YOUNG PEOPLE

STORIES FROM THE OLD TESTAMENT. 21 complete stories, including Noah and the
Ark. David and Goliath, Daniel in the Lion's Den, etc. Plays 2 hours.
Ark. David and Goliath, Daniel in the Lion's Den, etc. Plays 2 hours. No. 23C23, Mfg. List \$3,50, Per Album (2 Records). STORIES FROM THE NEW TESTAMENT 26 complete stories including The First
Palm Sunday, Jesus and the Little Children, The Last Supper, Good Samaritan, etc.
Plays 2 hours. No. 23C24 Mfg. List \$3.50 Per Album (2 Perords) \$2.37
No. 23C24. Mfg. List \$3.50. Per Album (2 Records)

"TALKING BOOK" STORY ALBUMS



All are recorded at 162/3 All are recorded at 1043 RPM and can be played on any record player ca-pable of operating at 331/3 RPM by use of adaptor shown below or on any 4 speed player.

Title	Stk. No.	Plays	Records	Mfg. List	Price
Afice in Wonderland		3 Hours	3	\$4.95	\$3.95
Children's Storytime Favorites		2 Hours	2	3.50	2.80
Child's Garden of Verses		1 Hour	1	1.95	1.56
Rip Van Winkle		1 Hour	1	1.95	1.56
Gulliver's Travels		1 Hour	1	1.95	1.56
Wizard of Oz.		5 Hours	5	6.95	5.56
Adventures of Robin Hood		3 Hours	3	4.95	3.95
Tales of Edgar Allen Poe		4 Hours	4	5.95	4.76
Famous Poems		4 Hours	4	5.95	4.76
Writings of Emerson		5 Hours	5	6.95	5.56
Trial of Socrates		3 Hours	3	4.95	3.95
Ben Franklin's Autobiography		3 Hours	8	10.95	8.76
Sonnets of Shakespeare		3 Hours	3	4.95	3.95
Kipling's Just So Stories		5 Hours	5	6.95	5.56
The Red Badge of Courage		6 Hours	6	8.50	6.80
Walden, Vol. 1		6 Hours	6	8.50	6.80
Treasure Island		8 Hours	8	10.95	8.76
Meditations of Marcus Aurelius		6 Hours	6	8,50	6.80
Dickens' A Christmas Carol		4 Hours	4	5.95	4.76
The Adventures of Pinocchio		5 Hours	5	6.95	5.56
Great Essays		8 Hours	8	10.95	8.76
Adventures of Tom Sawyer		9 Hours	ŷ	11.95	9.56
Adventures of Sherlock Holmes			5	6.95	
		5 Hours		10.95	5.56
Writings & Speeches of Lincoln		8 Hours	8	5.95	8.76
Best of Mark Twain		4 Hours	4		4.76
The Time Machine		4 Hours	4	5.95	4.76
The Call of the Wild		4 Hours	4	5.95	4.76

SPECIAL 16% RPM ADAPTOR

All the Audio Book Records as shown here are recorded at 162/3 RPM. They can be played on any phonograph or record changer capable of operating at 33/3 RPM by use of this Adaptor. Simply place Adaptor on the turntable and play as any other phonograph record Mfg. List \$3,95 \$3.07 No. 23C10. Net Each

LEARN A FOREIGN LANGUAGE NOW THIS QUICK, EASY WAY BY LONG-PLAYING RECORDS CHOICE OF 8 DIFFERENT \$797



EACH INCLUDES:

- 40 Lessons on 4 Long-Playing 331/3 RPM Records.
- Comprehensive Conversation Manual.
- Common Usage Dictionary.

LANGUAGE COURSES

Complete courses based on proven U. S. Govt, methods, Just relax and learning Words, phrases, sentences are clearly spoken in faultless accents by expert instruc-tors-and while one listens he sees the words he hears in the conversation Manual provided. Each course also includes a 16,000 word two-way common usage dic-No. 23A161-Hebrew

No. 23A162—French No. 23A162—French No. 23A163—Italian No. 23A158—Russian No. 23A159—Spanish YOUR CHOICE EACH.

No. 23A160—German No. 23A161—He No. 23A164—Portuguese for Latin America No. 23A165—Portuguese for South America \$7.97

LIVING LANGUAGE BETTER SPEECH COURSE

Amazing new tested method enables anyone to gain poise and self confidence in speaking . . . quickly and easily. Learn all the secrets and technlques of persuasive speakers, sparkling conversationalists. Covers pronunciation, volce training, vocabulary, proper usage, public speaking techniques, etc. Includes 40 complete lessons on 4 long playing records and two better speech manuals. Recorded under the editorial supervision of M. L. Gurren, Ph.D. \$7.97





Berlitz, the world-famous leader in language instruction, now presents their proven teaching methods on tape cassettes. Convenient, easy to use, will work on any cassette player, stereo or monaural. Each cassette plays for 1 hour. Lessons specifically designed for the growing number of people who travel to Europe on vacation or business. Teaches basic phrases used in everyday conversations. Available in 5 different languages—French, Spanish, Cerman, Italian, and Russian, two volumes in each, basic and advanced.

No. 23A166—French Volume 1	No. 23A167—French Volume 2
No. 23A170—German Volume 1	No. 23A171—German Volume 2
No. 23A174—Russian Volume 1	No. 23A175—Russian Volume 2
No. 23A168—Spanish Volume 1	No. 23A169—Spanish Volume 2
No. 23A172-Italian Volume 1	No. 23A173—Italian Volume 2
YOUR CHOICE OF ABOVE	\$6.95
NET EACH	
PHRASE BOOKS for above Specify	Spanish, French, Italian or Russian,

No. 16A1148. Net Each. \$1.25



JUST TIP AND FLIP! **NEW RECORD-MATIC RECORD ALBUM HOLDER** AND AUTOMATIC SELECTOR

- Self-parading albums march in full view. No springs, battery, magnet or motor. Stops automatically.



YOUR FAVORITE MUSIC **AT YOUR FINGERTIPS!**

Flip first album forward, then all others will follow, one after another, auto-matically. When record desired is removed, record-matic will stop auto-matically. Albums flip by slow or fast, as desired, allowing full viewing of all albums. When returning record to file, repeat the process and albums will stop at the same spot from which the record was removed. Cuts down record handling, protects valuable records. Holds 25 12-inch record albums. Base is injection molded high Impact Polystyrene with white plastic record holders. Metal support arms are brass plated. Base size: 14" L. x 1034" W. Shpg. wt. 31/2 lbs. Mfg. List \$9.95. No. 33A8500. Net Each.

8 TRACK STEREO PLAYERS FOR EVERY USE!



ENJOY YOUR 8 TRACK TAPES AT HOME! HOME 8 TRACK STEREO CARTRIDGE SYSTEM HEAVY DYNAMIC SPEAKERS GIVE BIG STEREO SOUND \$6995

Just slip in a cartridge and enjoy continuous music. Cartridge repeats as often as desired. Automatically switches program at end of tapes until each of the four stereo programs have played; unit then returns to the first program. With the push-button selector you can easily change programs. Pilot light indicates track being played. Both speaker cabinets as well as the player are fine furniture styled in matched walnut finlsh. The balanced cap-



stan drive gives constant tape speed and the matched dynamic heavy duty speakers allow true stereo reproduction. Features front mounted head adjustment and headphone jack. Size main unit $1136^{\circ\prime\prime} \times 1014^{\circ\prime\prime} \times 334^{\circ\prime}$. Speaker cabine: $10^{1}/_{2}^{\circ\prime} \times 71/_{3}^{\circ\prime} \times 7^{\circ\prime}$ (each). Shpg. Wt. 20 lbs. \$69.95

No. 31A2566. Each ...

FOR THE FIRST TIME A PROFESSIONAL 8-TRACK CARTRIDGE RECORDER FOR THE HOME!



BOTH A RECORDER AND PLAYER

\$169⁹⁵ MODEL 811-R

BY TELEX

Now record your own 8-track stereo cartridge with superb fidelity for car or home. It is both a recorder and player. Connect it to any music source and for the price of a blank cartridge, record your favorite selections from FM stereo, phonograph, and all other type tape recorders. Features record vol-ume controls for right and left channels. VU meter with channel switch, logic selector switch, push-button or automatic program selection with numerical indicator and overload protection, record interlock with record indicator and on-off pilot light. Four special logic circuits provide simple operating convenience. Two, in record mode, allow choice of auto-stop at the end of any single program or at the end of the tape. Two additional logic circuits in the play mode let you select auto-stop at the end of the tape or continuous play. Turns on automatically when cartridge is inserted. Attractively styled with solid walnut sides.

solid walnut sides. SPECIFICATIONS: Tape speed 3¾ IPS. Freq. resp.: 40-15,000 Hz. S/N ratio 50 db. Flutter & Wow 0.3%. Track selection; push-button, auto-stop stereo controls record volume for each channel. Output low impedance for stereo music systems. Input aux. for Hz. Size 15" W., 11" D., 41/2" H. No. 31A7519. Model 811-R Shpg. Wt. 15 lbs. Net Each. \$169.95

NEW FROM

RECORDS & PLAYS

BACK IN MONO

harman kardon

PROFESSIONAL TAPE CASSETTE DECK

FREQUENCY RESPONSE 50-12,000 Hz ± 2 DB

A totally professional tape cassette deck, designed expressly for the serious recording enthusiast. It offers features and performance that rivals the most versatile reel to reel tape recorders. Unlike conventional cassette mechanisms, the new CAD-4 can record and playback with overall band width that is at least a half octave higher and lower than any cassette recorder currently available. Handsomely styled in walnut, brush gold and matte black, the CAD-4 will match all makes of stereo components and will blend readily with any room decor. Push-button switches for recording and shuttling functions plus pause position. Automatic tape cassette ejection switch has automatic shut off. Two separate illuminated professional type VU meters. Overmodulation indicator light on front as well as 2 separate VU meters with two microphone inputs. Super-refined, narrow gap record and playback heads features low hysteresis effect for broadband response and extremely low distortion. Inputs for low and high level program sources. Handsomely styled in walnut, brushe gold and matte black.

Specifications: Tape speed: 17/8 ips; H.D. less than 1.5%; Speed Variation:



Heavy duty motor to insure low wow and flutter and extremely rapid shuttling of tape.

within 2%. Wow and Flutter .25% RMS @ 17% ips. Freq. Resp. 30-12,500 Hz ± 2 db. 5/N ratio better than 43 db. Bias Osc. Freq.: 105 KHz. Crosstalk better than 35 db. Erasure better than 55 db. Meter Resp. ± 3 db. 100 Hz, 6000 Hz. Record Amplifier Distortion: .5% THD @ Zero VU. High Level Input Sensitivity: 200 mV 2 db. for Zero VU. High Level Input Imped. Common Sensitivity: .2 mV, ± 2 db. for Zero VU. Low Level Input Impedance: nominal .5 K ohms. Output Level: 8 V RMS ± 2 db. at maximum recording level. Output Impedance: 5,000 ohms. maximum. Re-produce Amplifier Distortion .5% THD @ Zero VU. .2% THD @ -10 db. Clipping exceeds 10 db. above Zero VU. Size: 121/2" W. X 9" D. X 31/4" H. Shpg. Wt. 10 Ibs. No. 31A7512. Model CAD-4. Net Each. No. 11A119. H-K 6-60 Tape Cassette. Special low-noise cassette designed for wIde range recording. Extends upper range up to 2000 Hz more than standard tapes. Net Each No. 29A646. H-K Model DM11 Dynamic Microphone. Extended range mike

No. 29A646. H-K Model DM11 Dynamic Microphone. Extended range for above. Net Each mike

PANASONIC **4-TRACK AC STEREO CASSETTE DECK** \$**89**⁹⁵ MODEL RS256US

good-looking walnut grain cassette is the perfect match for anv high fidelity system. Plays and records on 4-track stereo cassettes. Features Panasonic's push-button, pop up cassette system, push-button controls, pause control. Fast forward and rewind for unsurpased convenience. Has 3 position digital tape counter and end of tape signal tamp. Special noise suppressor, two roller bar volume controls, and two easy-see VU meters. Convenient switch for stereo/mono selection.

Specifications: Has AC bias. Program time 1 hour with C-60 cassette (2 hours on C120 cassette). Fast forward and rewind time on C-60---approx. 90 seconds. Freq. Resp. 30-12,000 Hz. Jacks: 2-microphone input; 2-aux. inputs; 2-line outputs, and 1-headphone. Size: 10%" W. 334" H. 10" D. Shpg. Wt. 10 lbs. Comes with 4-connection cord. Operates on 115 V. 60 Hz. AC. \$89.95 No. 31A7521. Model RS256US. Net Each ...



WOLLENSAK 4200 CASSETTE CARTRIDGE TAPE RECORDER RANGE 80-10,000 MZ ± 3 DB. DURABLE MARD SHELL CASE . . . PROTECTS RECORDER-PROVIDES REVERB EFFECT **\$59**⁹⁵

Single master control for simple operation.
 Remote control start-stop switch on ultra sensitive dynamic mike included.

• Remote control start-stop switch on ultra sensitive dynamic mike included. Just insert the tape cartridge and start to operate. Simpler than loading a movie camera, For on-the-spot recordings of interviews, lectures, musical performance, etc. Fully transistorized, instant recording/playback. Single "master control" starts, stops, winds, rewinds tape. Combination recording level/battery life meter. Connections for playback through external amplifiers and headphones. Inputs provided to record from microphone, radio, record player, or other recorder. Capstan drive assures con-stant speed 1%" dual-track operation. Cartridge (included) contains 300 ft. of triple-play tape providing up to 2 hours playing time. Uses 5 standard C flashlight batteries. High impact plastic case. 4½" W. x 7%" L. x 2¼" D. Weighs only 4 lbs, with batteries. Supplied with carrying case, mike and 1 cartridge (with tape). Shog. wt. 4 lbs. wt. 4 lbs. No. 31A2507, Net Each. \$59.95

No. 318226. Battery Kit .. ACCESSORIES FOR WOLLENGAK MODEL (000

ACCESSORIES FOR WOLLENSAK MODEL 4200	
No. 31A2510. A-0492, 110 V. AC Adaptor	S14.50
No. 31A2511, A-0491, Foot Control	
No. 31A2512, A-0490, Dictation Type Earphone	
No. 31A2513, A-0473, Patch Cord	
No. 31A2508, A-0479, Telephone Pickup	
No. 31A7 506, A-0494, Microphone.	
No. 11A1055, Extra 60-Minute Tape Cartridge	
No. 11A1056, Extra 90-Minute Tape Cartridge	
No. 31A2509, Car Bracket. Converts recorder to playback thru car radio	

WOLLENSAK BATTERY OPERATED **MODEL 4000 CASSETTE RECORDER**

High efficiency speaker assures superior tone quality

Features: Solid state for instant warm-up and reliability... V.U. meter for precise record level settings and battery life indication ... push-button operation ... constant speed capstan drive ... AC blas and erase for im-proved signal to noise and erase performance. Accepts AC adapter/battery charger, auxiliary input and output jacks. Complete with dynamic micro-phone with remote stop/start switch, microphone pouch, recorder carrying strap, earphone and blank Scotch tape cassette.

Play/Record time per Cassette: 60 minutes on C-60 and 90 minutes on C-90, Power requirements: 5 $1\frac{1}{2}$ V. C cells.

Size: $8\frac{3}{4} \times 4\frac{3}{4} \times 2\frac{3}{6}$ ". Weight (with batteries): 3 lbs No. 31A2530. Shpg. wt. 4 lbs. Net Each \$49.95

ACCESSORIES FOR MODEL 4000				
No.	31A406.	A-0495.	Foot Control, Each	0.85
	31A407.	A-0496.	Telephone Pick-Up. Each	
No.	31A2562.	A-0502.	AC-Adapter Battery Changer, Each	3.95
No.	31A2561.	A-0507.	Dictation Earphone, Each	2.75
No.	31A2563.	A-0505	Carrying Case Each	8.95



WOLLENSAK 4300 CASSETTE RECORDER

AC-DC portable—no ac Digital tape counter. Automatic record level. Excellent tone. -no adaptor needed.

• Excellent tone. High style plus proven reliability provides superb performance in outstanding functional design. Operates on batteries or built-in A.C. for use anywhere, anytime. Features automatic record level which adjusts for variation In recording levels. Elim-inates need for manual setting, Push-button controls along with easy cas-sette load and pop-up ejection make it foolproof to operate. Features separate volume, tone and pause controls. Push to reset digital counter. High effi-ciency speaker. Dynamic mike with remote start-stop switch. Aux. input. A & D output jack. Wt. 7 lbs. Specifications: Freq. resp. 50-10,000 Hz. Wow and flutter 0.35%. Uses 5 "D" cells or operates 110 or 120 AC 60 cycle. Size 12½"x10¼"x 3½". Supplied with dynamic microphone, personal earphone, patch cord for external recording/play back. Accessory pouch and blank C-60 cassette. Shps. Wt. 10 lbs. No. 31A2558. Net Each.

NO. 31A4338.	Net Lac	N
		ACCESSORIES FOR ABOVE
No. 31A406.	A-0495	Foot Control, Each \$10.85
No. 31A407.	A-0496	Telephone Pick-up. Each. 4.95
No. 31A2561.	A-0507	Dictation Earphone, Each 12.75

WOLLENSAK 4700 CASSETTE STEREO DECK

- Heavy duty full sized mator. 31/2" flywheel insures excellent wow and flutter characteristics. Heavy duty capstan. :
- •

No. 31A7518.

No.	31A7518.	Each	Ψ
			ACCESSORIES FOR ABOVE
No. No.	31A2564. 31A2565.	A-0506 A-0508	Low impedance mike, Each



PUSH BUTTON CONTROLS FOR SIMPLE OPERATION

BATTERY

OPERATED ALL

TRANSISTOR

11111

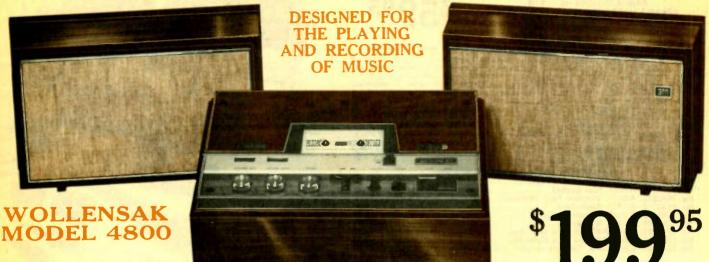


.\$ 1.05

OVER 1969 CATALOG PRICE



THE FIRST AMERICAN MADE CASSETTE STEREO RECORDER FROM Z



• Records and plays monaural and stereo cassettes.

- Interlock start, stop, play and record controls. Compression loaded speaker systems provides sound of high
- fidelity music systems.

Now, a cassette system with true high fidelity quality! Engineered specifi-cally for music recording and reproduction. Powerful tape transport is com-parable to the most expensive reel-to-reel recorder mechanism. Incorporates full size motor, and full size flywheel reducing wow and flutter to a minimum. minimum.

System employs newly designed speakers which produces exceptionally clean and distortion-free sound extending well into the low frequency range. Start, stop, play and record controls are interlocked, making it pos-sible to go from one function to another without having to stop the machine.

- Separate record level meters for each channel.
- Digital counter for ease in locating recordings.
- 16 watts stereo power EIA.
- Heavy duty drive mechanism.

Specifications: Freq. resp. 60-12,000 Hz \pm 3 db @ 1½ ips. Wow and flutter .25% RMS. S/N ratio greater than 46 db. Pre-amps output 0.5 V. (each channel). Microphone input .1 MV, low impedance. Pre-amp input: 25-50 MV. Track width: meets standard casette format. Size: Recorder. 13½ x 9¼ x 4½"; Speakers, 13½ x 8½ x 4½". Power consumption 50 watt, 115 V. 60 cy. AC. Two low impedance mikes included. Shipping Wt. 30 lbs.

OPERATES VERTICALL OR HORIZONTALLY

No. 31A7516. Net Each

\$199.95

MODEL

MODEL

THE FINEST SOUNDING STEREO **RECORDERS EVER!**

COMPRESSION-LOADED SPEAKERS PROVIDE SOUND OF HI-FI MUSIC SYSTEMS



WOLLENSAK MODEL 6300

Frequency response 40-20,000 Hz @ 71/2 ips; 40-15,000 Hz @ 33/4 ips. Electro-dynamic braking.

- Two professionally calibrated VU meters.
- Automatic reel locks.

Two motor drive systems.

3 speeds 7¹/₂, 3³/₄, 1⁷/₈ ips.
Dual channel tone control. · Automatic shut off.

Professional quality at lowest prices ever! Features unique compression-loaded speakers equal to those used only in costly hi-fi component systems. Solid state amplifier produces sound absolutely, faithful to the original. Full frequency range with flat response and low distortion. New two-motor drive runs whisper-quiet; reduces wow and flutter to less than 0.15%. One motor drives capstan; one handles speed function, exclusive electro dynamic brak-ing. Simple open front threading with all controls interlocked to prevent tape damage. Has stereo headphone jack and monitor facility. Solid die-cast chassis of aluminum provides maximum structural integrity for years of faithful service. Automatic reel locks.

Specifications: 16 watts stereo output (EIA). Pre-amp input: 0.5 volts each channel. Mike input: .1 mv low impedance. Track width: $\frac{1}{4}$ track EIA standard. Power consumption: 105-125 volts, 60 Hz 50 watts. Size $\frac{16}{2}$ " W., $\frac{14}{2}$ " H., $\frac{10}{2}$ " D. (with speakers). Crosstalk: greater than 50 db. Model 6300 comes complete with two microphones, two speakers with cables, one 7 inch reel of tape, and self threading take-up reel. \$229.95

WOLLENSAK MODEL 6120 STEREO DECK. Drushed chrome deck of Model 6300 above but does not have speakers, power amplifiers, or tone control. The perfect addition for any stereo high fidelity system, Records and plays back stereo. Comes with walnut base. Specifications: 40-20,000 Hz ± 2 db @ $71/_2$ ips, 40-15,000 Hz ± 2 db @ $71/_2$ ips, 40-15,000 Hz ± 2 db @ $71/_2$ ips, 40-15,000 Hz ± 2 db @ $33/_4$ ips. Wow and flutter 0.159, RMS @ $71/_2$ ins, 0.20% @ $33/_4$ ips. Signal to noise ratio, greater than 50 db @ $71/_2$ and $33/_4$ ips. Specifications: $41/_2$ $33/_4$. 1 $1/_2$ ips. Crosstalk: greater than 50 db. Pre-amp output 1.0 volts each channel. Microphone input .1 mv, low impedance. Pre-amp input: 25-50 mv. Track width: $1/_4$ track meets ELA standard 4-track format. Size 16" W. x 13" H. x 5" D. Power consumption 115 V. 60 Hz AC, 50 watts. \$159.95

WOLLENSAK MODEL 6200 PORTABLE STEREO RECORDER. Portable version of Model 6300. Brushed chrome face plate. Compression loaded speakers built-in. Latch on lid stores mikes, also accessories, Size 161/2 " W. x 13" H. x 61/4" D (with lid attached). \$199.95 No. 31A411. Wt. 15 lbs. Net Each.



WOLLENSAK REEL TO REEL MONO RECORDERS

WOLLENSAK 3500 TAPE RECORDER

• AC-DC PORTABLE • 5-INCH REELS

ACCESSORIES

TF404 Foot Control. Starts and stops tape with manual operation. 1500 Series No. 31A5018, Wt. 1 lb. Each.......\$17.50

\$**89**95

Dual Speed: 3³/₄ and 1⁷/₈ ips.
Push-button cantrols.

• VU meter for recording level and battery condition.

Versatility plus reliability makes this one of the most sensational recorders made yet! Operates on batteries or can be switched to household current instantly.

Built-In AC, no adaptor required. Features new automatic record level, auto-matically compensates recording levels for perfect recording every time, elim-inates need far manual setting, and adjusts for variation in recording levels. Solid-state design assures years of use. Push-button controls make it simple, foolproof to operate. Features separate volume and tane controls, push-ta-reset digital bounter. Constant speed Capstan drive. Electric speed change switch. Dynamic microphone with remote stop-start switch. Auxiliary input and output jacks. High efficiency speaker.

Specifications: Freq. resp. 100-8,000 HZ \pm 4 db @ $3\frac{3}{4}$ ips. Wow and flutte: RMS: less than .4% @ $3\frac{3}{4}$ ips.

Uses 6 "D" cells or operates from 117 V. AC. Size $11/2 \times 10/4 \times 4$ ". Supplied with dynomic microphone, personal earphane, patch cord for external recording/playback, accessory pauch, blank tope and take-up reel. \$89.95 \$89.95



WOLLENSAK KEYBOARD CONTROL MODEL 1500SS

IMPROVED SOLIO STATE VERSION OF FAMOUS MODEL 1500.. FEATURES RECORDING LEVEL METER PLUS ALL TRANSISTOR ELECTRONICS - 2 TRACK MONAURAL

KIT

A marvel af compactness using miniaturized camponents ond all-metal airplane construction. A superiar manaural tape recorder. Pravides up to 4 hours recarding time on 7" reel using long play tape. 12 watts pushpull output is faur times greater than ordinary recorders. Features keyboard cantrol. Dual speed, operates at 33_4 ips and 71_2 lps; level recording meter, precision index counter. Specifications: Frequency response: 40-15,000 cps \pm 3 db @ 71_2 ips; 40-8,000 cps \pm 3 db @ 33_4 ips. Both speeds, signal ta noise ratia 48 db. Wow and flutter less than .3%. Operates from 110-125 V. 60 cy. AC. Size $61_2 \times 10^1/4 \times 113_4'''$. Camplete with dynamic microphane, 2 reels (one with tape). \$184.95 No. 31D232. Shpg. wt. 23 lbs. Net Each.

QUANTITY USERS: Schools, Churches, Institutions write for special quotes far any Wallensak recorders in lots of 12 or more.



RECORDS 4 HOURS ON 7" REEL

PANASONIC REEL TO REEL MONO RECORDERS

PANASONIC SOLID STATE HIGH FIDELITY TAPE RECORDER

ALL SOLID STATE TAKES UP TO 7" REELS 2 TRACK MONAURAL

\$99⁹⁵



The RQ7065 boasts "total" sound reproduction combined with simple lever operation. Perfect distortion free recording in all three speeds— $7\frac{1}{2}$, $3\frac{3}{4}$, and $1\frac{7}{6}$ [.P.5. Full bodied sound provided by two self-contained 6"x4" heavy dufy dynamic speakers. Automatic level control assures perfect recording level. 3-digit counter makes it easy to locate section of tape desired. Has continuous tone control permitting precise adjustment of tone. Pause control permits use of unit for PA system. Operates vertically or horizontally. Operates on 15 V. 60 Hz. A.C. 4 watts music power. Freq. Range 71/2 [.P.5. 50-15,000 Hz, $3\frac{3}{4}$ 50-9,000 Hz, $1\frac{7}{6}$ 50-5,000 Hz, $4\frac{2}{2}$ U. The aux., 1 external speaker output. Size 14" X 12" X 6 $\frac{3}{4}$. Wt. 171/2 [bs. Shog. Wt. 22 lbs. Complete with pencil dynamic microphone with stand, 7" reel tape, 7" empty reel, 2 patch cords, splicing tape, and 2 reel holders. Model RQ7065. \$99.95 No. 31A412, Model RQ-7065, Each.



• 33/4 and 17/8 ips.

Record sound-on-sound.
 Record sound-with-sound.

• Frequency response 100-8,000 HZ. The total tape recorder in smart travel-case design. Perfect for home or office-for educator or college student, for language study, speech therapy

The total tape recurst of college student, for language study, speech therapy or taping lectures. Fine for music or voice. Engineered with 3-position Panasonic Easy-Matic switch, Records at constant sound level. Completely automatic with simple push-button operation, digital tape counter VU meter. Separate volume controls, and Panasonic "Sure-Pawer" so should house current fail batteries take over automatically. Sound-on-sound—record on track one, then re-record track one on track three, while simultaneously making a new recording on track three. Thus you can record voice on track one and lay a musical background on track three. Sound-with-sound—listen to track one, record on track three, play both back simultaneously for comparison. Perfect for voice study, language study or speech therapy. Comes complete with 4 "D" cells, microphone and stand, 5" reel of tape, take-up reel, splicing tape, radio patch cord and stand, 5" Neel At a take-up reel, splicing tape, radio patch cord and stand, 5" Neel At a take-up reel, splicing tape, radio patch cord and stand, 5" Neel At a take-up reel, splicing tape, radio patch cord and stand, 5" Neel At a take-up reel, splicing tape, radio patch cord and stand. S" reel of tape, take-up reel, splicing tape, radio patch cord and stand, 5" Neel At a take-up reel, splicing tape, radio patch cord and stand, 5" Neel At a take-up reel, splicing tape, radio patch cord and stand, 5" reel of tape, take-up reel, splicing tape, radio patch cord and stand, 5" reel of tape, take-up reel, splicing tape, radio patch cord and stand, 5" reel of tape, take-up reel, splicing tape, radio patch cord and stand, 5" reel of tape, take-up reel, splicing tape, radio patch cord and stand, 5" reel of tape, take-up reel, splicing tape, radio patch cord and stand, 5" reel of tape, take-up reel, splicing tape, radio patch cord and stand, 5" reel of tape, take-up reel, splicing tape, radio patch cord and stand, 5" reel of tape, take-up reel, splicing tape, table, patch splicing tape, table, splicing tape, tabe-No. 31A409. Net Each

PANASONIC SOLID STATE CASSETTE RECORDERS

FROM PANASONIC **AT LOWEST PRICE EVER!**

> "POP-UP" CASSETTE RECORDER

\$**29**⁹⁵

COMPLETE WITH REMOTE MICROPHONE

Uses Standard Phillips Cassette. Battery operated, AC adaptable.

Frequency response 80-8,000 Hz. 1 watt output.

Offers the wonderful convenience of a record and playback cassette system with battery-operated portability. Cartridge pops-up for an instant change. Features simple lever operation. Automatic recording level control. AC adaptable. Operates horizontally or vertically with tid up or closed. Has 6 transistors plus 1 diode and 1 thermistor. Handsome charcoal grey and antique white. Size: 9" W. x 234" H. x 10" D. Complete with remote microphone, cassette, and 6 Panasonic HI-Top

"C" batterles.	Wt. 41/2 lbs. Shp	og. wt. 6 lbs.	\$20.05
	Model RQ2045.		\$29.95

No. 31A2541. AC Adaptor for above. AD409. Each \$9.95

PANASONIC **BATTERY/AC** CASSETTE

RECORDER

\$49⁹⁵

MODEL RQ-203S

Complete with remote control microphone

Complete with remote control microphone.
Battery or AC operated—no adaptor needed.
Single operating control for fast forward, play/record, stop, rewind.
2.5 watts music power output.
Big 3x 5 inch dynamic speaker with 2.5 watt amplifier.
All the features of cassette recorders selling for \$70.00 and more! Records/ plays back with ease... just pop a cassette in for up to 2 hours recording.
Features continuously variable tone control, volume control. Jacks for remote mike, aux. input and monitor (for earphone or 8 ohm speaker). Uses 6 standard "C" cell flashlight batteries. Built-in compartment for microphone, bat-teries and one C-60 blank cassette. Weighs 43% lbs. Size 95%" W, 21%" H, 9¼" D. Shpg. wt. 6 lbs.
No. 31A2529. Each

PANASONIC

AC/BATTERY CASSETTE TAPE RECORDER WITH FM AM RADIO

\$7995

· Low Profile Design.

Fast Forward and Rewind. • AFC On FM. Slide-Rule Tuning. • 1½ Watts Output. • Slide-Rule Tuning.

Beautiful tapered design in midnight black and custom silver trim. Operates on 115 V. AC. or 6 "c" batteries. Use it anywhere. Sensitive FM/AM radio provides clean clear reception. AFC on FM locks in signal, provides drift-free reception. Has unique silde-touch controls for volume and tone. Pop-up cassette feature permits sliding a button over and up pops the cartridge. Single lever controls record, playing, rewind and fast forward. You can re-cord directly from the self-contained radio without any external connections. Monitor switch permits you to monitor what you are recording as you are doing it.

PANASONIC PUSH BUTTON PORTABLE

AC/BATTERY CASSETTE RECORDER

39⁹⁵

 Travel Designed • 1.5 Watt Music Power

Boasts true, compact design, tastefully styled in midnight black and silver. Operates from 4 "c" cells or from 115 V 60 Hz. AC. Unique automatic recording level control assures precise, accurate recording every time. A $3\frac{1}{2}$ " dynamic speaker delivers strong full range sound. Push-button operation makes record and playback simple and easy. Push-button fast forward and rewind permits you to quickly select the section of tape you wish to hear. Specifications: 1.5 watt music power. Freq. Rep. 80-8000 Hz. Has provision for external speaker. Size $5\frac{1}{2}$ " x $2\frac{3}{4}$ " x $10\frac{1}{4}$ ". Shpg. Wt. 5 lbs. Complete with remote dynamic microphone, microphone case, cassette, ear-phone, AC power cord, and 4 Panasonic "c" size Hi-Top batteries. \$39.95 No. 31A2545. Model RQ2095. Each.



\$49.95

Offers complete on-the-go entertainment. Features built-in "pop-up" cassette recorder, automatic recording level circuitry assuring you of accurate recording every time. Full range AM radio featuring distinctive sitide-rule tuning for easy-see precision station targeting. Also allows you to record your favorite program directly off the air. Heavy duty 31/2" dynamic speaker delivers rich resonant sound. Single lever control for fast forward and rewind permits you to quickly select the section of tape you wish to hear or allows rapid rewind and replay. A speaker on-off switch lets you monitor the material you are recording. Music power 1.5 watts. Freq. Resp. 80-8000 Hz. Inputs 1 mic. Outputs 1 external speaker. Comes complete with remote dynamic microphone, blank cassette, 6 Panasonic Hi-Top batteries. Size 85/6" x21/4" x105/6". Shgg. Wt. 5 lbs. \$49.95

PANASONIC "TINY TONE" SMALLEST CASSETTE **RECORDER YET!**

Weighs only 21/2 pounds. Small, only 33/4" W. X 61/6" H. X 17/6" D. Uses standard Phillips type Cassettes.

\$99.95

The "Tiny Tone" is truly a carry-along, compact cassette tape recorder with many extraordinary features. Cartridge pops up for easy changing. Special electronic motor. Has automatic recording level control. Combination VU and battery level meter. Use simple single lever operation. Has built in full range 21/2" dynamic speaker, 70% of all circuitry is composed of new inte-grated circuits. Perfect for travel, meetings, home or office. Specifications: 5 integrated circuits plus 5 transistors and 4 diodes. Black with silver trim. Comes complete with remote pencil microphone and desk stand. One C-60 cassette, earphone, carrying case, wrist strap and 4 pana-sonic thi-Top "AA" batterles. Shpz. wt. 3 lbs. No. 31A2531. Model RQ2105. Net Each. No. 31A2532. Net Each. S14.95 RP8160 Plug-in Microphone for the RQ2105 cassette recorder. Gives all the

RP8160 Plug-in Microphone for the RQ210S cassette recorder. Gives all the versatility of a built-in microphone leaving one hand free while recording. No. 31A2542. Each \$19.95

 RP922 Foot Switch for easy stop and start of the recorder in either the record or playback mode of the RQ209 or RQ210 recorder.

 No. 31A206. Each

Telephone Pick-Up model RP963 for RQ210 or RQ209 recorders. No. 31A208. Each. \$ 4.95

PANASONIC

TOMORROW'S LOOK TODAY" SOLID STATE CASSETTE TAPE RECORDER WITH HIGH QUALITY FM/AM/FM STEREO RADIO





UNIVERSAL MOUNTS PERMITS MOUNTING ON CEILING OR WALL

• Frequency Response 30-12,000 Hz.

The Orbitone introduces exclusive Panasonic "Solor Scoop" spherical speakers which can be ceiling-mounted, shelf-mounted or wall-mounted for exciting futuristic effect. Features Panasonic's push-button, pop-up cassette system. Other Panasonic extras include: convenient "one-touch" power switch. Sposition Select-O-Dial lever-type controls, lock-down lever control for fast-forward and rewind, and a mono/stereo record/playback change-over switch. For further recorder enjoyment there's a Panasonic speaker switch, and aux. input jack, two large VU meters, and AC bias and AC erase. 20 watt peak music power. The radio section is equipped with many exciting features. There's a black out "face" exclusive "Stereo-Eye" system, a specially designed FET tuner, AFC on FM, sliding tone and volume controls and stereo head-phone jack. Solid-state engineered for sure reliability. Inputs 2 mic, 2 aux.,

• 2-6¹/₂" "Solor Scoop" Spherical Speakers.

2 phono outputs: 2 line, 2 speakers, 1 headphone. Operates on 115 V. 60 Hz AC. Complete with one dynamic microphone with stand C-30 Cassette and 2 connection cords. Size main unit $1734^{\prime\prime} \times 1136^{\prime\prime} \times 6^{\prime\prime}$. Speakers $876^{\prime\prime} \times 1776^{\prime\prime} \times 534^{\prime\prime}$. Shpg. Wt. 26 lbs. No. 31A7524. Each.

RS2505. Identical in style to above unit except without AM/FM Multiplex Radio. Has all the rest of the features of the RS2505. Comes complete with one dynamic microphone and stand 1-C30 cassette, and 2 connection cords. Shpg. Wt. 13 lbs. No. 31A7522, Each. \$129.95



AM/FM STEREO RADIO WITH STEREO CASSETTE RECORDER

199 MODEL RE7060

16 Watts Music Power.
 Frequency Response 40-12,000 Hz.

A luxurious look set off by handcrafted walnut wood and tasteful chrome trim. Illuminated slide-rule tuning with "black-out" dial. Twin $6\frac{1}{2}$ " dynamic speakers in separate enclosures offer superb full-bodied sound and maximum stereo separation. Functional modular design for varied speaker arrangements. Continuous tone control for true treble-bass balance. "Stereo" eye system, FET tuner provides superb selectivity and eliminates annoying station drift. AFC on FM locks in signal for crystal clear reception, 4 track stereo cassette

• 3 Digit Tape Counter.

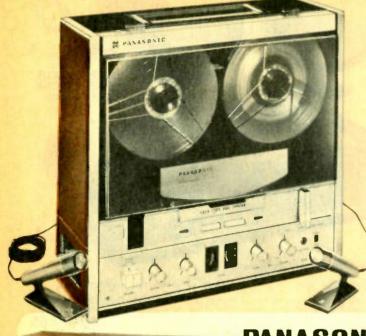
deck with push button operation allows you to listen to your favorite prerecorded music or tape directly off the air. A complete home entertainment unit. VU meter provides easy reading of sound level. Inputs for 2 mikes, 2 phono outputs, 2 line, 2 speakers, 1 stereo headphone, size; control unit 1734" x 1176" x 6". Speakers each 876" x 1176" x 534". Shpg. Wt. 28 lbs. No. 31A7514. Model RE7060, Each



A completely professional sound system. Sleek contemporary design is set off by hand cratted walnut wood cabinetry. Unique one-step slide-in cassette operation. Precision capstan drive, direct recording off aux. source, sound monitor and fast forward and rewind. Two VU meters, digital type counter and separate tone controls assure maximum recording and listening pleasure. The distinctive FM/AM and FM stereo radio offers high quality performance for total listening enjoyment. "Black-Out" Illuminated slide rule dial face maintains the elegant fine line design, Two full-range 61/2" dynamic speakers assure rich, resonant tone. Special stereo eye indicates when FM station is broadcasting stereo. FET tuner sorts out incoming signals to insure fine clear reception. AFC locks in FM signals. Inputs 2 mic. 2 aux. 2 phono. Outputs 2-line, 2 speaker, 1 headphone. Size $191.4^{\prime\prime\prime} \times 111/2^{\prime\prime\prime} \times 51/2^{\prime\prime\prime}$. Speaker $81/6^{\prime\prime\prime} \times 111/6^{\prime\prime\prime} \times 53/4^{\prime\prime\prime}$ each. Comes complete with 2 dynamic microphones with stands, C-30 Cassette and connector cords. Shpg. Wt. 39 lbs.

No. 31A7513. Each

LATEST IN STEREO RECORDERS AND DECKS



PANASONIC

DUAL CAPSTAN STEREO RECORDER

- Continuous automatic or manual
- reverse. •

20 watts music power. • 3 speeds: 71/2, 33/4 and 13/8 ips.

()) (

0 41

This Dual Capstan drive stereo tape recorder is a true example of professional mastery. Provides continuous automatic or manual reverse with directional lights. Features 4 track, 3 speed operation. With superb 4-head system. 2 VU meters, 7" reel, Pause control, automatically shuts off at end of tape. Has 4 position digital tape counter. Two 7" oval dynamic speakers with side adjustable baffle boards. Separate volume and tone controls on each channel, 20 watts music power. Has sound-on-sound, sound with sound, safety lock record button. Simple lever operation. Special solar bronze cover protects against dust. Adds a touch of professional beauty. U/L Listed. Has 14 transistors plus 10 diodes and 5 thermistors.

transistors plus 10 diodes and 5 thermistors. Specifications: Recording System: AC bias; Erase System: AC bias. Rewind time 3 minutes, Fast Forward 3 minutes. Wow & Flutter: Less than .1% RMS at 7½ ips, 30-13,000 Hz at 3¾ ips. S/N ratio more than 52 db; Jacks: 2 mike, 2 aux. input, 2 ext. speaker, 2 line output, 1 stereo headphone out-put, Includes 2 dynamic microphones and stands, 7" reel with tape, 7" empty reel, 2 connecting cords "C", 2 reel holders, splicing tape, sensing tape. Size: 17" W, 16½" H. 9" D. Wt. 38¼ lbs. No. 31A5019, Model R5790S. Net Each Matching Pair of Stereo Speaker Systems for above (optional). Recorder speaker sizes: 16½" H, 9" D, 17" W, Shgp. Wt. No. 31A5020. Model RP8058. Net Pair.

PANASONIC

SOLID STATE

4-TRACK STEREO

TAPE RECORDER

\$149⁹⁵

MODEL RS760S

2 Self-contained 6" Oval Speakers.

8 Watts Music Power, 3 Speeds: 71/2, 31/4, 17/8" ips.

\$27995



PANASONIC **NEW CONTINUOUS** UTOMATIC REVERSE STEREO TAPE DECK

- 4 Tape Heads. Speeds: 732, 834, 3
- 1 % ips. 85 KC A.C. recording

and erase bias.

\$19995

Superb stereo tape deck to complete your home music system. Features dual capstan drive, 4 tape heads. Records and plays in both directions, completely continuous automatic reverse. Features sound-on-sound/sound with sound, automatic shut off, pause control and dust cover. In beautiful walnut grained cabinet. Operates vertically or horizontally.

Specifications: Has fast forward record interlock, 4 position digital counter, 2 VU meters, 2 mike inputs, separate volume controls for each channel, Freq. Resp 30-20,000 Hz at 71_2 ips, 30-13,000 Hz at 33_4 ips; Wow and Flutter less than .1% at 71_2 ips, less than .2% at 33_4 ips; S/N ratio more than 50 db.

than 50 db. Operates on 117 VAC. Complete with 7" empty reel, 2 reel holders, 4 con-necting cords, splicing tape and sensing tape. Size: 19½" W, 14" H, 734" D. Wt. 38 lbs. \$199.95 No. 31A5228, Model RS796US, Net Each



Smartly designed compact stereo recorder takes 7" reel for long record/play back pleasure. Capstan drive permits the tape to operate at a continuous, constant speed at all three settings. Lever type control makes for the ulti-mate in operational ease and efficiency, pause control permits you to stop the tape for immediate reference, indexing, or taping. 4 position digital tape counter indicates precise numerical location of any particular selection or part of tape. The RS760S features: sound monitor, sound-on-sound, sound-with-sound, and automatic shut-off switch. Two large easy-see VU meters offer immediate indication of recording level. Twin 6" oval dynamic speakers pour out rich sound. Has continuous tone and volume control for each channel, Solid state engineered for sure reliability. **Specifications:** Freq. resp. 50-17,000 Hz at 7½ ips, 50-10,000 Hz at 3¾ ips, 50-5,000 Hz at 1½ " ips. Has 2 mic, 2 aux. inputs; 2 line (output), 2 external speakers, I headphone output. Size: 14 x 13½ x 7". Complete with 2 dynamic microphones and stands, 7" reel with tape, 7" empty reel, two connection cords, splicing tape and 2 reel holders. No. **31A5008.** Model R5-7605.

empty reel, two connection cor No. 31A5008. Model RS-760S.

\$149.95

 No. 31A5043.
 Matching Auxiliary Speakers designed to match the RS7605.

 Size 131/2 x 14 x 9".
 Shpg. wt. 22 lbs. Model RP8048. Per Pair.

PANASONIC

STEREO TAPE DECK SOLID STATE RECORD PLAYBACK PREAMP

In handsome walnut cabinet. 3 speeds: $7\frac{1}{2}$, $3\frac{3}{4}$, $1\frac{7}{6}$ ips. Capstan drive. 7 inch reel capacity.

7 jick reel capacity.
 Now, complete your music system with one of the finest decks we have seen or heard! Functionally mounted in a walnut cabinet for vertical or horizontal operation. Simply connect to your home entertainment system for playing back pre-recorded tapes or recording your own from stereo or mono tapes. Put your entire record library on tapes. Tapes provide longer lasting fidelity. NARTB equalization assures you the finest playback sound from your own as well as pre-recorded tapes.
 Features separate VU meters for each channel. 3-position digital counter with push-button reset. Easy "single lever" operation for all functions. Automatic shut-off at the end of reel. Pause control. Has 2 heads. Frequency response:
 97.1% or 20.1% ("W x 11" H. x 5½" D. Operates on 117 V. 60 cy. AC. Complete with 7" empty reel, 4 connection cords, splicing tape and 2 reel holders. Shpg. wt. 25 lbs.
 No. 31A5039. Model R\$765. Less Dust Cover. Net Each.
 \$99.95



WORLD FAMOUS

LOWEST PRICE EVER

ON B-A's BEST SELLING

Save

REG. PRICE WAS \$59.95

CASSETTE RECORDERS



CASSETTE TAPE RECORDER

Mercury

NOW WITH BUILT-IN AC OR BATTERY OPERATION

Thousands sold Nationally for \$59.95 . . . Do not confuse with cheaper units. Complete with Remote Control Ultra-Sensitive Microphone, Built-in AC, Shoulder Strap, Earphone, Accessory Pouch and Blank Cassette,

The cassette system is the most versatile recording/playback system ever developed. Just pop a cassette in for up to 2 hours recording of lectures, interviews, musical performances, etc. Fully transistorized, instant recording/ playback, individual push-buttons control start, stop, wind, rewind. Combina-tion battery recording level/battery life meter assures finest recordings always

Music recordings playback with pleasing fidelity. Freq. response 100-8,500 HZ \pm 3 db. Wow and flutter 0.5%. Has built-in connections for playback through external amplifiers and headphones. Single input provided to record from microphone, radio, record player or other recorder. Capstan drive assures constant speed 17%" dual track operation. Cartridge

Capsian orive assures constant speed 1/4 dual track operation. Cartridge (included) 60 minute tape. Transparent opening shows tape on reels. Cartridges can be snapped in or out of recorder at anytime—no need to wind or rewind tape. Operates on 5 standard "C" flashlight batteries (not included) or direct from 115 V. 60 cy AC. High impact plastic case, Size Siy4" W, 10" L. 234". D. Weighs only 3 lbs. With remote control, ultra-sensitive dynamic microphone, earphone, accessory pouch and blank cassett tape. Shep, wt. 8 lbs.

Highest quality import	\$44.50
No. 31A2543. Special Each	
No. 21A2. "C" cell battery for above (Requires 5). Each	17c
No. 31A2525. Stethoscope Headset. Each	\$2.95
No. 31A2526, Foot Control, Each	\$5.95
No. 31A2527, Telephone Pick-Up, Each	\$2.50
No. 31A2528. 36" Patch Cord with Alligator Clips. Each	\$1.95
No. 11A5500. 30 Min. Cassette Blank Tape, Each 99c; 12	61 Ea 88c
No. 11A5501, 60 Min. Cassette Blank Tape. Each \$1.29; 12	@ Ea\$1.09



PUSH BUTTON



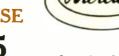




Mercury **DELUXE CASSETTE RECORDER WITH** PADDED LUGGAGE CASE

- Automatic Level Control For Perfect
- Recordings Operates On 4 "C" Batteries Simple One Lever Control
- **Expensive Padded Luggage Case**

Expensive Padded Luggage Case Beautiful sound from a beautiful package is what you'll get from this hot little performer. Beneath the luxurious luggage case there's a luxurious tape recorder to match. With deluxe features that can't be matched by comparably priced units. Like built-in automatic record level, simple one lever control, easy-load, pop-up cassette election, earphone auxiliary speaker jack, and AC adapter input jack. Specs. Freq Resp. 100-8000 Hz. power output 500 MW. S/N ratio -40 db, Weight 2½ lbs. Size 2½" x 9" x 5". Complete with dynamic microphone, carrying strap, one blank cassette. No. 31A2569. Model 20-1002. Each No. 21A2 Batteries for above. Requires 4, Each



CASSETTE TAPE PLAYER WITH FULL RANGE AM RADIO

- Convenient One-Lever Control Pop-Up Cassette Ejector Door Solid-State AM Radio

- Radio-Cassette Switch
 Plays Stereo or Mono Cassettes

Flip the switch: its a great sounding cassette tape player with rewind and fast forward. Flip it again and its pulling in AM broadcasts with solid-state dependability. Go anywhere styling with rugged, hi-impact polystyrene case. Has AC adaptor input jack and earphone auxiliary speaker jack. 8 transistors, 1 diode, 1 thermistor. Freq. Resp. 100-7000 Hz. Power output 750 MW. Speaker size 21/2 inch PM. Power source 4 "C" cells. 6 volts DC. Size 111/2" x 51/2" x 3". Weight 3 lbs. \$32.95





Walnut Wood Cabinetry

The look is handsome! The sound is brilliant! And the price is surprisingly sensible. Mercury has added all the professional features to this machine to make it an outstanding performer at this low price. Hysteresis synchronous motor assures smooth freq, response and low wow and flutter. Six push-button controls for easy operation: record, rewind, stop/eject, play, fast forward, and pause. Single action pop-up casette load and eject system make cassette recording simple. Other professional features include 2 over-size VU meters, three digit tape counter, pilot light, dual volume and dual tone controls. Inputs provided for direct recording stereo from shono or tuner. Outputs for stereo headphones and playback through stereo sound system.

Matched bookshelf speaker systems in walnut wood cabinetry match center control unit in styling to make a beautiful addition to any room. Specs, Freq. Response: 80-10,000 Hz, S/N ratio better than -45 db. Power output 3 watts. Wow and flutter less than 0.2%. Bias and erase AC type, Recorder size $131/2^{\prime\prime\prime}$ x $93_8^{\prime\prime\prime}$ x 4^{\prime\prime}. Speaker size $103_8^{\prime\prime\prime}$ x $71/2^{\prime\prime\prime}$ x $52/2^{\prime\prime}$. Standard equipment with the model 50-9008 includes 2 dynamic microphones, two microphone stands, four patch cords, one C-60 blank cassette. Shpg. Wt. 27 lbs. 27 lbs

No. 31A2571, Model 50-9008, Each.

\$129.95

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Mercuru

DELUXE FM/AM RADIO CASSETTE RECORDER

***79**⁹⁵

- Sensitive AM-FM Radio. Luxurious Padded Luggage Case. Battery Strength Meter. Pop-Up Cassette Load System.

Pop-Up Cassette Load System.
 Everything needed for music on-the-go incorporated in this high-styled portable. Super sensitive AM-FM radio with AFC on FM. Cassette recorder records direct from AM-FM without any external connections or recording can be made live with high-quality dynamic microphone included. Will play mono or stereo pre-recorded cassettes monaurally. Automatic level control (ALC.) assures perfect recordings each time. Professional 3-digit tape counter and combination VU meter/battery indicator. Big 3½ inch dynamic speaker for superb sound reproduction. Power output; 1 full watt. Freq. Response: 80 to 10,000 Hz. S/N ratio -40 db. Wow and flutter: Less than 0.3% RMS. Six pushbutton controls: record, play, stop, fast forward, rewind cassette eject. Operates on six standard "C" cells (not included). Size 12" x 9½" x 3½". Shpg. Wt. 8 lbs.
 No. 31A2572. Model 20-4005. Each



TWO HIGH QUALITY MICROPHONES INCLUDED

- Hysteresis Synchronous Motor. Professional VU Meter. 3 Digit Tape Counter.

Mercu

 3 Digit Tape Counter.
 Deck version of model 50-9008 shown above. This stereo tape deck will round out your present stereo system, be it a console, elaborate component system or stereo table radio. This unit is compatible with any unit having tape recorder inputs/outputs or stereo music can be recorded live with the two high-quality dynamic microphones included. Specifications identical to model 50-9008 illustrated above. Output level 0.5 RMS OVU record level. Comes equipped with 2 microphone stands, four patch cords, one C-60 blank cassette. Size 31/2" x 93/8" x 4". Sppg. Wt. 14 lbs.
 Na 314273 Model 50-8008 Each \$109.95 No. 31A2573. Model 50-8008. Each



AMPLIFIER Now ... Ampex offers a smaller, all new version of the 600 series; the world's finest low-cost professional audio recorder. The new two speed transport (33/4-71/2 IPS) uses the same rugged die cast alu minum frame which made the 600 series so dependable. A new clutch as-embly and a new cooling system adds even more reliability. And to simplify indexing, a three digit counter has been added. The new solid-state ectronics has one mike and one line input per channel providing built-in mixer capability. The line input can be converted to mike input, belanced line or to a mag-netic phono Input by using the plug-in accessomes listec below. Output is 600 ohm +4 DBM, balanced or unbalanced. Weight: single channel in portable case = 28 lbs. Dual channel in portable case = 42 lbs. Model AG-600-1 Specify *Half or Full Track Dual Sseed, 3¼ and 7½ [PS. S660.00

Portable, Each \$720.00 Half track models are shipped with two track starso heacs for later con-

Version to stereo if necessary. Model AG-600-2 Two Channel Dual Speed, 33/4 and 71/2 IPS Unmounted. Each\$ 91	5 00
Portable. Each \$1010	
The AC-600-2 can be supplied with 1/4 track hears at same price.	

Rack Adaptor For 19 Inch Racks-Single Channel. Each \$21.00

Adapts unmounted models for 19 inch relay rack netallation.

AMPEX SOLID STATE AG-440B THE QUIET PROFESSIONAL

THE QUIET PROFESSIONAL The new AC-440B is studio quiet. Same rugged reliable professional re-corder as its predecessor but with re-designed electro-mechanical compo-nents and circuitry for acoustically quieter operation. All transport con-trols have been damped to eliminate 80% of mechanical noise. Automatic tape lifters are delayed to eliminate "shrieking" as tape is stopped in fast modes. This new model is quiet enough to use in the studio with live microphones. Stable die cast frame assures perfect tape tracking. Main-tenance is easy! Plug-in heads and modular designed plug-in electronics boards provide fast replacement or service. Console models permit rotat-ing of transport for rapid service or adjustment. Expansion and converti-bility is easy with the AC-440B. Changing between ¼ inch to ½ inch tape is fast and easy. Tape guides rotate and "lock in" for either size ape. The single channel models can be expanded up to four channels as shown above. This "stacked" over-bridge modular concept can also be used to mount the AM-10 mixer, ac-cessory meter panel, patch panels or even a AC-600 or AC-500. Model AC-440B-1 Specify °Half or Fu Rack Mounting. Each



Rack Mounting. Each	2,099.0	0
Console. Each	2,499.0)0
Portable. Each	2,299.0)0
Model AC-440B-2 Two Channel 1/4" Tape Width-Specify 3-1/4-71/	2 IPS d	01
71/2-15 IPS.		
Rack Mounting. Each	2,799.0)0
Console. Each	3,229.0)0
	2,999.0	
Model AC-440B-4 Four Channel 1/2" Tape Width-Available 71/2-15	PS Only	٧.
Rack Mounting. Each	4,399.0	ю
	4,859.0)0
	4,599.0	
Model AG-440-8 Eight Channel 1" Tape Console Only	2,500.0)0

tereo heads. Can be converted to stereo with addition of electronics and cables.

PROFESSIONAL RECORDERS

SOLID STATE AG-500 RECORDER

AMPEX



The AC-500 all solid state recorder is outstanding for its performance in the studio or field. Compact, rugged and versatile, the AC-500 will maintain this high quality performance in the most demanding assignments. Precision milled, die cast top plate. Eddy current reeling motors and a big cool running synchronus drive motor make-up a smooth low flutter transport. All functions are solenoid—relay activated and is ready for the remote control listed below. Each electronics will accept and mix two incoming live signals. Line inputs can be converted for low impedance microphone, etc. by using accessories listed below. The AC-500-2 can mix up to four inputs without external mixers. Thus, narration over voice, sound with sound or other special recording capabilities is easy with the AC-500-2. Rack Space: Transport: 834^{\prime} x 19^o. Each Electronics: $31/2^{\prime}$ x 19^o. Wt. 1 Channel Portable = 42 lbs. 2 Channel Portable = 52 lbs.

Model AG-500-1 Specify #Half or Full Track-33/4-71/2 IPS or 71/2-15 IPS Rack Mounting, Each \$1,275.00 Rack Mounting. Each Portable. Each 1.380.00 *Half track models are shipped with two track stereo heads for later conver-sion to stereo if necessary.

I AG-500-2 Two Channel Specify 33/4-71/2 IPS or 71/2-15 IPS Mounting. Each \$1,495.00 Model Rack Portable. Each The AG-500-2 can be supplied with 1/4 track heads at same price. 1,626.00

SOLID STATE AA-620 AMPLIFIER



The AM-10 is a two channel, stereo-mono mixer and a greatly improved version of the well-known MX-10 and MX-35. Compact and rugged, this new low noise high output mixer can be case or rack mounted in only $3\frac{1}{2}$ inches of panel space. Four microphone and two line inputs can be mixed and silently switched into either or both channels. Line inputs can be converted to mike inputs or magnetic phono inputs by using the plug-in accessory pre-amps listed below. More inputs are available by coupling several AM-10 mixers together. Master gain is controlled by the final unit in the chain. The AM-10 is ideal for recording, dubbing, broadcast remotes or any sound support system, stereo or monophonic! Frequency response: ± 1 db 30 Hz to 20KHz. Input impertue: C: Microphone: 200 ohm. Line: 100K ohms unbalanced. *20K ohms b *600 ohms matching. *With accessory transformer. transformer.

AM-10	Mixer,	E	ach	 \$499.00
Meter	Panel f	or	AM-10.	167.00

ACCESSORIES FOR AG-440, AG-500, AG-600 AND AM10

Microphone Preamplifier	4010066-01	Each \$ 55.00
Phono (RIAA) Preamplifier	4010097-01	Each \$ 50.00
Line Input Transformer, Balanced Bridge	4580200-01	Each\$ 20.00
Matching Input Transformer, 600 Ohm	4580200-02	Each\$ 20.00
Meter Panel For AM-10 Mixer	4010098-01	Each\$167.00
Remote Control For AC-440-Desk Type	4010080-01	Each\$ 60.00
Remote Control For AC-500-Desk Type	0196510-02	Each\$ 85.00
Remote Control For AC-500-Panel Type	0196520-02	Each\$ 57,50
Head Cleaner 4 oz. Can	087-007	Each\$ 1.45
Lubricating Oil 2 oz. Bottle	4010825-02	Each\$.95

WRITE FOR COMPLETE SPECIFICATIONS, RECOMMENDATIONS OR TRADE ALLOWANCE ON YOUR PRESENT EQUIPMENT DEPT. CS-G



S

MINNESOTA MINING "SCOTCH" BRAND TAPES

3M TAPES WITH CELLULOSE ACETATE BACKING Most widely used of all magnetic recording tapes. Smooth and flexible . . . provides flawless sound reproduction at lowest cost. Its flexibility allows per-fect head conformity, produces excellent wide range response.

TYPE 111 GENERAL PURPOSE STANDARD TAPE — $1\frac{1}{2}$ MIL ACETATE. Regarded as the performance standard of the recording industry. All-purpose, first-choice of most engineers and recording fans for flawless sound reproduction. On easy threading clear plastic reels. Except: RPL $10\frac{1}{2}$ " reel is opaque plastic with 3" (NAB) center hole. Except: RPS $10\frac{1}{2}$ " reel is opaque plastic with $\frac{3}{2}$ " (EIA) center hole.

Stk. No.	Fact. No.	Reel	Lgth.	Wt.	Net Ea.	6 Ea.	12 Ea.
11A551	111-1/4-150	3"	150'	2 oz.	\$0.54	\$0.52	\$0.47
11A552	111-1/4-300	4"	300'	4 oz.	1.42	1.35	1.21
11A554	111-1/4-600	5"	600'	6 oz.	1.78	1.69	1.52
11A559	111-1/4-1200	7"	1200'	12 oz.	2.73	2.59	2.33
11A1110	111-1/4-2500RPL	101/2"	2500'	34 oz.	8.28	7.20	6.48
1141111	111-14-2500RPS	101/5"	2500'	34 oz	8.28	7.20	6.48

TYPE 120 'HICH OUTPUT" - STANDARD PLAY - 11/2 MIL ACETATE. Produces 100% more output, results in greater dynamic range, freedom from dis-tortion or signal peaks ... brilliant sound reproduction. A must for hi-fi fans.
 Rcel
 Lgth.
 Wt.
 Nct Ea.
 6 Ea.

 5"
 600'
 6 oz.
 \$1.78
 \$1.69

 7"
 1200'
 12 oz.
 2.73 2.59 6 Ea. 12 Ea. Fact. No. Stk. No. 11A556 11A562 120-1/4-500 120-1/4-1200 \$1.52 2.33

TYPE 190 EXTRA PLAY TAPE—1 MIL ACETATE. Gives 50% greater time than $1\frac{1}{2}$ mil tapes on same reel size. On clear plastic reels. Except: RPL 10 $\frac{1}{2}$ reel is opaque plastic with $3\frac{1}{6}$ " (NAB) center hole. Except: RPS $10\frac{1}{2}$ " reel is opaque plastic with $3\frac{1}{6}$ " (EIA) center hole.

Stk. No.	Fact. No.	Reel	Lgth,	Wł.	Net Ea.	6 Ea.	12 Ea.
11A567	190-1/4-900	5"	900'	6 oz,	\$2.41	\$2.29	\$2.06
11A568	190-1/4-1800	7"	1800'	12 oz.	4.20	3.99	3.59
11A1105	190-1/4-3600RPL	101/2"	3600'	34 oz.	9.81	8.53	7.68
11A1106	190-1/4-3600RPS	101/2"	3600'	34 oz.	9.81	8.53	7.68

NEW 3M HEAVY DUTY "TENZAR" BACKED TAPES Priced only slightly higher than acetate-backed tapes, yet provides 15 times more wearability. Perfect for educational and language-lab use, for all-weather use and long time storage. Has new black oxide coating. On clear plastic reels.

1000	TYPE 175 "TEN	ZAR"-ST	ANDARD	PLAY-	-112 MI	L BASE	
Stk. No.	Fact. No.	Reel	Lgth.	Wt.	Net Ea.	6 Ea.	12 Ea.
11A755 11A756	175-14-600 175-1/4-1200	5"	600' 1200'	6 oz. 12 oz.	\$1.84 2.88	\$1.60 2.50	\$1.44 2.25
wears con	SANDWICH" nventional tapes er the recording	by up to	30 tim	es. Mici	ro-thin p	otective	plastic
	nachine head w					, o, u.i.	Jonearry
					Net Ea.	6 Ea.	
reduces n	nachine head w	ear. On cle Reel	ar plasti	c reels. Wt.	Net Ea.		12 Ea. \$1.86 2.97



"DYNARANGE" TAPE **PROFESSIONAL 3M**

Provides brilliant low noise recording at half the normal recording speeds— twice the time, yet total fidelity plus economy. The No. 1 choice of profes-sionals and advanced non-professionals. The entire Dynarange series is con-tinually updated for finest possible performance. RO 16 $\frac{1}{2}$ " reel is aluminum with $\frac{1}{2}$ s" Cfr. hole. RPL and RPS 10 $\frac{1}{2}$ " reels are opaque plastic with 3" NAB and $\frac{1}{2}$ s" EIA Cfr. holes respectively.

	TYPE 201 D	YNARA	NCE-1	1/2 MIL	ACETATE		
Stk. No.	Fact. No.	Reel	Lgth.	Wt.	Net Ea.	6 Ea.	12 Ea.
118496 118501 118520	201-1/4-600 201-1/4-1200 201-1/4-2500RO	5" 7" 10½"	600' 1200' 2500'	6 oz. 12 oz. 34 oz.	3.15	\$1.95 2.99 8.14	\$1.75 2.69 7.32
	TYPE 202 DY	NARAN	CE-11/2	MIL	OLYESTE	R	
118497 118546 11A1112	202-14-600 202-1/4-1200 202-1/4-2500RPL	5" 7" 10½"	600' 1200' 2500'	6 oz. 12 oz. 34 oz.	3.58	\$1.99 3.40 8.14	\$1.79 3.06 7.32
	TYPE 203 0	YNARA	NCE-1	MIL P	LYESTER		
118499 118597 11A1113	203-14-900 203-14-1800 203-14-3600RPS	5" 7" 10½"	900' 1800' 3600'	6 oz. 12 oz. 34 oz.	5.15	\$2.83 4.90 11.43	\$2.55 4.41 10.29

3M POLYESTER (MYLAR) TAPES

Extra strong, extra long lasting Polyester base withstands extremes of tem-peratures and humidity. The preferred tape for long time storage, for private or business recordings to be played again and again.

Stk. No.	Fact. No.	clear pla	Leth.	Wt.	Net Ea.	6 Ea.	12 Ea.
11A870	102-1/4-600 102-1/4-1200	5″	600' 1200'	6 oz. 12 oz.		\$1.77	\$1.59
	0 EXTRA PLAY		MIL MY	LAR. Sa	me size	reel play	s 50%
Stk. No.	Fact. No.	Reel	Lgth.	Wt.	Net Ea.	6 Ea.	12 Ea.
11A544 11A545	150-1/4-900 150-1/4-1800	5"	900' 1800'	6 oz. 12 oz.	\$2.41 4.20		
tioned to playing t	0 DOUBLE PLAY ugh Dupont Mylar ime compared to	$1\frac{1}{2}$ mil	tapes, 20	allows to 00-48R	MYLAR. wice the n is plastic	Specially ormal rec ETA ree	ording-
tioned to playing t Stk. No.	ugh Dupont Mylai ime compared to Fact. No.	r extra th 1½ mil Reel	in base, a tapes, 20 Lgth,	LIZED allows to 00-48R Wt.	MYLAR. wice the n is plastic Net Ea.	Specially ormal rec EIA ree 6 Ea.	ording- I. 12 Ea.
tioned to playing t Stk. No. 11A778	ugh Dupont Mylai ime compared to Fact. No.	r extra th 1½ mil Reel 5" 7"	tapes. 20 Lgth. 1200'	UD-48R Wt. 6 oz.	MYLAR. wice the n is plastic Net Ea. \$3.89 6.83	Specially ormal rec E1A ree 6 Ea. \$3.69 6.49	ording- I. 12 Ea. \$3.32
tioned to playing t Stk. No. 11A778 11B594 11B564 TYPE 290	ugh Dupont Mylai ime compared to Fact. No. 200-1/4-1200 200-1/4-2400	r extra th 1½ mil Reel 5" 7" 10½" ½ MiL T	in base, tapes, 20 Lgth, 1200' 2400' 4800' ENSILIZI	LIZED allows th 00-48R Wt. 6 oz. 12 oz. 34 oz. ED MYL	MYLAR. wice the n is plastic Net Ea. \$3.89 6.83 16.87 AR. Extra	Specially ormal rec E1A ree 6 Ea. \$3.69 6.49 14.67 long pla	12 Ea. \$3.32 5.84 13.20 ay, with

o-layer	transfer. Especially	recomm	nended fo	or narra	ition.		
tk. No.	Fact. No.	Reel	Lgth.	Wt.	Net Ea.	6 Ea.	12 Ea.
	131-14-600	5"	600' 1200'		\$2.15 3.37	\$1.87	\$1.68

EMPTY CLEAR PLASTIC TAPE **REELS IN SCOTCH BOXES**

AN OR	Capacity r Stk. No. 11A570 11A572 11A573		200' 600'		mil base Net Ea. \$0.21 \$.55 .63	6 Ea. 1	
	118728. 7 TRU	", 1200 E-RUNN	', 5 oz.	Eo. 1.15	S WITH	BOXES	
1	Na. 11A60 Na. 11A54 Net Ea.	9. Plasti	CELAT	pe (with	3 holes).		\$2.70
					TAPE C		
	securely to						

LARGE QUANTITY USERS OF RECORDING TAPE ARE INVITED TO SEND THEIR REQUESTS FOR QUOTATIONS TO BURSTEIN-APPLEBEE CO. INDUSTRIAL SALES DEPARTMENT

RECORDING TAPE AND ACCESSORIES

33

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Very highest quality — loaded with professional Dynarange tape. Now avail-able in mailers and album packages. Professional Dynarange is permanently lubricated and tensilized polyester recording tape. Has low-noise oxide. Gives the best possible reproduction. New cartridge design offers less tape drag, more uniform speed and longer tape recorder battery life. Recording or playing time indicated is for both sides of tape. New see-through cartridge housing provides positive visual check on tape movement inside cartridge, even when recorder is operating. Avg. Wt. 2 oz.

IN MAILER PACKAGE. Tough plastic enclosure protects cartridge for repeated mailings. Also recommended for all cassette needs where minimum storage space is desirable.

| Stk. No. | Fact, No. | Description | Net Each | 6 Each | 12 Each |
|----------|-----------|-------------|----------|--------|---------|
| 11A1123  | 271-C30M  | 30 Min.     | \$1.84   | \$1.75 | \$1,58  |
| 11A563   | 271-C60M  | 60 Min.     | 2.15     | 2.05   | 1.85    |
| 11A1047  | 272-C90M  | 90 Min.     | 3.20     | 3.05   | 2.75    |

IN ALBUM PACKACE. Neat "book type" storage box with pivoted hinged lid. Very popular for in-home cassette recorder use

| Stk. No. | Fact. No. | Description | Net Each | 6 Each | 12 Each |
|----------|-----------|-------------|----------|--------|---------|
| 11A1124  | 271-C30A  | 30 Min.     | 1.74     | 1.65   | 1.49    |
| 11A1125  | 271-C60A  | 60 Min.     | 2.05     | 1.95   | 1.76    |
| 11A1126  | 272-C90A  | 90 Min.     | 3.10     | 2.95   | 2.65    |
| 11A1107  | 273-C120A | 120 Min     | 4.15     | 3 95   | 3 56    |

### **NEW HIGHLANDER** TAPE CASSETTES FIT PHILLIPS STYLE CASSETTE RECORDERS

A brand new cassette by the makers of famous Scotch brand products priced to save you money! Loaded with 3M's standard tape formulation with 3M's standard tape formulation specially modified to meet the tough-est cassette recording requirements. Features new see-through packaging, new internal construction and careful assembly to prevent Jam-ups or vary-ing speed. New packaging allows you to observe tape action inside car-tridge. Packed in sturdy carton suit-able for maillog able for mailing.



| Stk. No. | Fact. No. | Description | Net Each | 12 Each |
|----------|-----------|-------------|----------|---------|
| 11A1120  | H-C-30    | 30 Min.     | \$0.99   | \$0.89  |
| 11A1121  | H-C-60    | 60 Min.     | 1.19     | 1.09    |
| 11A1122  | H-C-90    | 90 Min.     | 1.79     | 1.59    |

### SCOTCH "LIVING LETTERS" TAPE 3-INCH REELS IN RE-USABLE PLASTIC MAILER-STORING UNIT DESIGNED. ESPECIALLY FOR TAPED CORRESPONDENCE

Tough plastic enclosure provides dust-free pro-tection and safe mailing at lowest postage cost. Sized to meet postal regulations. Highest qual-ity tape. Good for 100's of recordings. Playing recording time 150'-15 Min, 300'-30 Min, 600'-60 Min. Avg. wt. 3 oz.

| Stk. No. | Fact. No.                      | Base              | Length | Net Ea. | 6 Ea.  | 12 Ea. |
|----------|--------------------------------|-------------------|--------|---------|--------|--------|
| 118623   | 111-14-150-LL                  | 11/2 Mil Acetate  | 150'   | \$0.72  | \$0.69 | \$0.62 |
| 118635   | 200-14-300-LL<br>290-14-600-LL | 1/2 Mit Polyester | 300'   | 1.46    | 1.39   | 1.25   |
| 118637   | 290-1/4-600-LL                 | 1/2 Mil Polyester | 600'   | 2.09    | 1.99   | 1.79   |

EMPTY 3" REELS AND MAILERS "Living Letter" tape packages above. Type 11 address labels Same as used in

Same as used in "Living Letter tape packages above, type in addition later are self-adhesive, fit any box. No. 11A7507. RLL-1/4-3. Reel And Box. Each...46c 6@Each...40c 12@Each...36c No. 11A7508, LL-1/4-3. Box Only. Each.....35c 6@Each...30c 12@Each.....27c No. 11A7509. Pkg. of 10 Labels. Pkg...49c 6Pkg.@Each...39c 12Pkg.@Each....33c

### SCOTCH "8000" **OUICK LOAD** CARTRIDGE



Used in schools, language labs, training programs. Fits RCA type recorders using the large  $7.\frac{1}{3} \times 4.\frac{1}{4} \times \frac{1}{2}$  pre-loaded cartridge. Contains specially lubricated 1 mll. polyester recording tape.

| Stk. No. | Fact, No.      | Description      | Net Each | 6 Each | 12 Each |
|----------|----------------|------------------|----------|--------|---------|
| 11A1108  | 8000-1/4-320-C | Clear- 1/4×320'  | \$3.07   | \$2.67 | \$2.40  |
| 11A1109  | 8000-1/4-560-C | Clear- 1/4×560'  | 3.45     | 3.00   | 2.70    |
| 11B619   | 8000-1/4-560-O | Opaque- 1/4×560' | 3.45     | 3.00   | 2.70    |



PRODUCTS FOR ELECTOGRAPHY

**SCOTCH 351** 1/2 INCH VIDEO TAPE FOR HELICAL SCAN VIDEO RECORDING



### USED ON SONY, SHIBADEN, PANASONIC, CONCORD, AND GE EQUIPMENT BLACK AND WHITE AND COLOR CAPABLE

Scotch type 351 longitudinally oriented  $\frac{1}{2}$ " video tape has many outstand-ing advantages. Heavy-duty binder system and long-wearing, low noise oxide gives superior signal-to-noise, capable of exceeding 45 db., virtually no rub-off, long life, very low drop-out count and Is highly conductive. Back-ing Is polyester, 1 mil. thick  $\frac{1}{2}$ " wide having accurately controlled di-mensions, superior tensile strength and the very minimum elongation and curvature characteristics. Tape life—capable of exceeding 500 passes. Reels, 7" self-threading, in book-style storage case, and 47%" size, for portable machines in vinyl video box.

| Stk. No.                      |                                              |                        |                             | Wt.                        |                           | 10 Ea.                    |                           |
|-------------------------------|----------------------------------------------|------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|
| 11A1127<br>11A1116<br>11A1117 | 351-1/2- 845<br>351-1/2-1250<br>351-1/2-2400 | 845'<br>1250'<br>2400' | 45 8"<br>7" PRST<br>7" PRST | 10 oz.<br>16 oz.<br>26 oz. | 14.95<br>\$21.95<br>39.95 | 14.20<br>\$20.85<br>37.95 | 13.75<br>\$20.19<br>36.75 |
|                               |                                              |                        |                             |                            |                           |                           |                           |

|                                                                           | RECORDING                                                                                                                                                                                                               | G-PLAYING                                                                                  | TIME-MIN                  | UTES           |         |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------|----------------|---------|
|                                                                           | Sony                                                                                                                                                                                                                    | Shibaden                                                                                   | Concord                   | Painasonic     | CE      |
| 151-1/2-1250                                                              | 32                                                                                                                                                                                                                      | 32                                                                                         | 20                        | 20             | 32      |
| 151-1/2-2400                                                              | 64                                                                                                                                                                                                                      | 64                                                                                         | 40                        | 40             | 64      |
| Reel and<br>No. 11A7<br>Net Each<br>Book<br>No. 11A7<br>Net Each<br>ALUMI | VIDEO<br>TAPE REE<br>AND<br>ACCESSORI<br>2" x 7" self-thr<br>book-stvle box.<br>511. Type PRST-<br>53.49 10 E<br>512. Type VB-1/2<br>51.89 10 E<br>NIZED SPLIC<br>Type 390-1/2-66<br>Type 391-1/2-66<br>Type 391-1/2-66 | ES<br>eading Video<br>7. Wt. 10 oz.<br>ich\$3.00<br>Box Only<br>-7. Wt. 6 oz.<br>ich\$1.75 | FOR 3/2"<br>* 1/4"x66". E | VIDEO TA<br>   | PE<br>  |
| No. 11A7515                                                               | . Type 391-1/4-66                                                                                                                                                                                                       | . 25 Mil Myla                                                                              | r 1/4"x66'. E             | a\$3.25 12 Ea. | .\$2.93 |
| No. 11A7516                                                               | . Type 391-1/2-66                                                                                                                                                                                                       | o, .25 Mil Myla                                                                            | 1/2"x66". E               | a\$4.87 12 Ea. | .\$4.38 |
|                                                                           |                                                                                                                                                                                                                         |                                                                                            |                           |                |         |
| Ask                                                                       | B-A's Industrial                                                                                                                                                                                                        | GE QUANTIT<br>Sales Departm                                                                |                           | e Quotations.  |         |
| RC                                                                        | BINS ALIDI                                                                                                                                                                                                              | O VIDEO                                                                                    | 7                         | -2-            |         |



Heavy-duty splicer with precision features. Has tape guide and arms to secure tape for precision cutting and splicing. Produces perfect mating diagonal cut. Uses self-stitch ready to apply splicing patches. On heavy metal base, Size:  $2\frac{1}{2} \times 6 \times 1\frac{5}{6}^{"}$ . For  $\frac{1}{2}^{"}$  tape only. Shpg. wt. 8 ozs. Mfg. \$19.95. No. 11A7517. Model TSV-50. \$14.95 Net Each



Meets the requirements of the industrial user. Erases video and audio from magnetic tapes up to 1" wide in one operation. Will also erase 2" tapes by processing one side, then turning over for second side. Has safety overheat indicator, fused circuits, heavy-duty switches and power cord. Designed for 5 min. on/15 min. off duty cycle. Size:  $3\frac{1}{4}$ " x 6" x 8". For 10 V. 50-60 (y. AC, Shg, wt. 8 lbs. Mfg. list, \$100,00. No. 11A7518. Model TM-100. Net Each.



## SAVE! B-A DELUXE RECORDING TAPE NEW LOW PRICES & QUALITY DARE COMPARISON!



### CASSETTE RECORDING TAPE

• For all Phillips style recorders. • Polyester wide-range tape. . In dust-tight plastic container.

Don't be mislead by the low price! These are first quality Cassette tapes priced way down to beat all competition. You can buy and save with com-plete confidence because B-A buyers have checked the important, design, manufacturing and material requirements that assure high fidelity and utmost performance in any make recorder. Note these facts: Beryillium copper con-stant pressure springs, mu-metal magnetic shielding, one-piece molded tape guide rollers on stainless steel pins, anti-static moisture resistant wafer shield, precision assembly techniques and in addition . . top quality lubricated polyester recording tape and a dust tight enclosure with molded-in tabs that prevent tape jamming in shipment. We know of none better! Produced in the U.S.A. for B-A by a leading manufacturer. Fully covered by B-A's liberal warranty. If you're not satisfied return at once for exchange or your money back!

LOWQQC

AS

OO 12 LOTS EACH

**30 MINUTE CASSETTE** 

| No. 11A5500. 30 Minute Cassette<br>(15 Minutes per side) Wt. 6 ozs. Each | 99c 12 @ Each     | 88c    |
|--------------------------------------------------------------------------|-------------------|--------|
|                                                                          | 1.29 12 @ Each    | \$1.09 |
|                                                                          | 1.89 12 @<br>Each | \$1.69 |
|                                                                          | 2.49 12 @         | \$1.99 |
| No. 11A7519. TAPE MAILERS                                                | Lacii             | 49c    |

**B-A CASSETTE HEAD CLEANER TAPE** 

Quickly removes accumulated tape oxide from recorder head restoring original recording and playback capability. Highest quality U.S.A. made. \$1.29 \$1.29 No. 11A7526. Each



An all new product proudly bearing the RCA brand, best known name in

An all new product pro

### RCA POLYESTER TAPE ON REFIS

| Stock<br>No.<br>11A1128<br>11A1129<br>11A1130 | RCA<br>No.<br>10M2<br>10M9<br>15M12 | Reel &<br>Length<br>3"- 225'<br>5"- 900'<br>7"-1200' | Description<br>1.0 Mil Long Play<br>1.0 Mil Long Play<br>1.5 Mil Std. Play | Wt.<br>Ozs.<br>3<br>6<br>12 | Mfg.<br>Each<br>\$1.00<br>3.60<br>4.25 | Net<br>Each<br>\$0.60<br>1.90<br>2.49 | 12 @<br>Each<br>\$0.54<br>1.73<br>2.34 |
|-----------------------------------------------|-------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|----------------------------------------|---------------------------------------|----------------------------------------|
| 11A1131<br>11A1132                            | 10M18<br>5TM24                      | 7"-1800'<br>7"-2400'                                 | 1.0 Mil Long Play<br>0.5 Mil Double Play                                   | 12                          | 6.20<br>8.75                           | 3.12                                  | 2.97                                   |
| D                                             |                                     | IL OLLA                                              |                                                                            | 14                          | 0.15                                   | 7.03                                  | 4.04                                   |

### RCA HIGH QUALITY RECORDING CASSETTES

Precision built for use on any Phillips style recorder. Supplied in plastic dust-tight container with molded stud to lock cassette reels and prevent scrambling. Wt. 2 ozs.

| Stock<br>No.<br>11A1133<br>11A1134<br>11A1135<br>11A1136 | RCA<br>No.<br>10R030<br>10R060<br>10R090<br>10R120 | Description<br>C- 30- 30 Minutes<br>C- 60- 60 Minutes<br>C- 90- 90 Minutes<br>C-120-120 Minutes | Mfg.<br>List<br>\$1.75<br>2.25<br>3.25<br>3.75 | Net<br>Each<br>\$1.30<br>1.68<br>2.46 | 24 @<br>Each<br>\$1.20<br>1.55<br>2.13 |
|----------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------|----------------------------------------|
| TIATISO                                                  | TURTZU                                             | C-120-120 Minutes                                                                               | 3.75                                           | 2.99                                  | 2.50                                   |



B-A proudly offers this tine new line of recording tape for the critical user who desires the utmost quality recordings and wants to save money too! Precisely formulated for uniform response, no rub-off, no print through. Backing is tensilized polyvinyl chloride (PVC) or polyester (PE) as indicated. Both are unaffected by temperature or humidity and conform to tape heads closely for best frequency response. Each box has plastic seal. Made in U.S.A. If you're not satisfied, return at once for exchange or your money back! U.S.A.

| Stock   | Av   | allable in f | these popular Reel | Lengths | Net    | 5 Lots |
|---------|------|--------------|--------------------|---------|--------|--------|
| No.     | Reel | Feet         | Description        | Wt.     | Each   | Each   |
| 11A5504 | 3"   | 150          | 11/2 Mil PVC       | 2 oz.   | \$0.35 | \$0.29 |
| 11A5505 | 3¼"  | 600          | 1/2 Mil PE         | 4 oz.   | 1.09   | .99    |
| 11A5506 | 5″   | 600          | 11/2 Mil PVC       | 6 oz.   | .99    | .90    |
| 11A5507 | 5"   | ·900         | T Mil PVC          | 6 oz.   | 1.39   | 1.29   |
| 11A5508 | 7"   | 1200         | 11/2 Mil PVC       | 12 oz.  | 1.49   | 1.39   |
| 11A5509 | 7"   | 1800         | 1 Mil PE           | 12 oz.  | 2.49   | 2.25   |
| 11A5510 | 7"   | 2400         | 1/2 MILPE          | 12 oz.  | 2.99   | 2.89   |
| 11A5511 | 7"   | 3600         | 1/2 Mil PE         | 14 oz.  | 4.95   | 4.49   |



RECORDING TAPE



**BASF.** The "ageless" recording tape. Developed in Europe, now acclaimed by the U.S.A. Hi-Fidellty recording market because of exceptional performance. Perma-store library boxes fit neatly on a shelf. Tip open for easy removal of reel. Lwitherm poly vinyl chloride base is extremely supple, giving highest possible conformation to tape head. Not affected by temperature and humidity *ariations* 

| BASF               | LUVITE           | HERM TAI             | PE IN LIBRARY                              | STOR        | AGE E       | BOX          |
|--------------------|------------------|----------------------|--------------------------------------------|-------------|-------------|--------------|
| Stock<br>No.       | Base<br>No.      | Reel &<br>Length     | Description                                | Wt.<br>Ozs. | Net<br>Each | 10 @<br>Each |
| 11A1137<br>11A1138 | LGS-52<br>LGS-52 | 5"- 600'<br>7"-1200' | 1.5 Mil Std. Play                          | 10          | \$1.79      | \$1.59       |
| 11A1139<br>11A1140 | LCS-35<br>LCS-35 | 5"- 900'             | 1.5 Mil Std. Play<br>1.0 Mil Long Play     | 16          | 2.69 2.39   | 2.39         |
| 11A1141            | LCS-26           | 7"-1800'<br>3"- 300' | 1.0 Mil Long Play<br>3/4 Mil Double Play   | 18<br>3     | 3.89        | 3.49         |
| 11A1142<br>11A1143 | LCS-26<br>LCS-26 | 5"-1200'<br>7"-2400' | 3/4 Mil Double Play<br>3/4 Mil Double Play | 10          | 3.49        | 3.09         |
| B                  | ASF LU           | VITHERM              | BASE DELUXE                                |             |             |              |

| Low noise tapes and uniform spee                     | d are inherent                                  | in_design.                                            | Supplied in       | plastic conta                             | ill response                                 |
|------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|-------------------|-------------------------------------------|----------------------------------------------|
| Stk. No.<br>11A1144<br>11A1145<br>11A1146<br>11A1147 | <b>Type</b><br>C- 30<br>C- 60<br>C- 90<br>C-120 | Descript<br>30 Minu<br>60 Minu<br>90 Minu<br>120 Minu | tes<br>tes<br>tes | et Each<br>\$1.79<br>2.21<br>3.64<br>4.48 | 12 Up Each<br>\$1.58<br>1.85<br>3.05<br>3.75 |

# **ENORMOUS SAVINGS ON QUALITY RECORDING TAPE**

### HERE'S PROOF OF B-A'S EVERYDAY LOW PRICES ON TAPE!

B-A buyers are constantly searching for "buys" in recording tape that can be passed on at terrific price savings . . . but the quality must be high to meet our rigid performance standards. We guarantee every roll to satisfy

you or your money back. Order your choice ot standard play  $1\frac{1}{2}$  mil, 50% longer play 1 mil, or double play  $1\frac{1}{2}$  mil. May be assorted for quantity price.

LOW AS **7**99

> EACH 10 LOTS

10@ \$1.49

10 @ \$1.59

10 @ \$1.79

10 @ \$2.59

10 @ \$3.99 Each

12 @ Ea. \$1.28 1.49 1.73

1.95

12 @ Ea. \$1.28 1.49

39

1/2 MIL POLYESTER BASE. No. 11A1151. 7"-3600"

| LOW AS<br>444c<br>EACH<br>10 LOTS<br>V3 MIL POLYESTER BASE.<br>No. 11C676. 3"-300"                                                                                                                                                                                                                                                                                                                          | LOW AS<br>LOW AS<br>\$ 1 49<br>EACH<br>10 LOTS<br>% MIL POLYESTER BASE.<br>No. 11C682. 5"-1200'                                            | LOW AS<br>LOW AS<br>\$ 1 79<br>EACH<br>10 LOTS<br>I MIL POLYESTER BASE.<br>No. 11A954, 7"-1800'                                                                                                                                                                                                                                                                                        | LOW<br>\$3<br>\$3<br>EAC<br>10 LO<br>\$4<br>MIL POLYESTER BAS<br>No. 11A1151. 7"-3600                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ½ MIL POLYESTER BASE. 300' on 3" Reel.         No. 11C676. Each.         ½ MIL POLYESTER BASE. 600' on 3¼" Reel.         No. 11C677. Each.         1½ MIL ACETATE BASE. 600' on 5" Reel.         No. 11A455. Each.         1½ MIL ACETATE BASE. 1200' on 7" Reel.         No. 11A458. Each.         1 MIL POLYESTER BASE. 900' on 5" Reel.         1 MIL POLYESTER BASE. 900' on 5" Reel.                   | $\begin{array}{c} 89c \\ 1.29 \\ 1.29 \\ 1.29 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 1$                                              | ½ MIL POLYESTER BASE. 1200' on 5         No. 11C682. Each.         1 MIL ACETATE BASE. 1800' on 7         No. 11A460. Each.         1 MIL POLYESTER BASE. 1800' on 7'         No. 11A954. Each.         ½ MIL POLYESTER BASE. 2400' on 7         No. 11B602. Each.         ½ MIL POLYESTER BASE. 3600' on 7                                                                            | " Reel.       \$1.79       10 @         ' Reel.       \$1.99       10 @         Each       """"""""""""""""""""""""""""""""""""                                                                                                                                                         |
| No. 11A457, Each<br>BARGAIN S<br>BARGAIN S<br>FINE FOR<br>TALKING LETTERS<br>S PACK C60<br>CASSETTES<br>Loaded with High Quality Tape<br>3 FOR \$179<br>No. 11A1148                                                                                                                                                                                                                                         | Each                                                                                                                                       | No. TIATIST. Each                                                                                                                                                                                                                                                                                                                                                                      | v special:                                                                                                                                                                                                                                                                              |
| MOST POPULAR<br>REEL LENGTH!<br>3 PACK 1800 '-7" REEL<br>TOP QUALITY 1 MIL POLYESTER<br>3 FOR \$429<br>No. 11A1150                                                                                                                                                                                                                                                                                          | SPECIAL!                                                                                                                                   | BARGAL<br>BUY PLENTY<br>AT THIS PRICE!<br>I200'-7" REEL<br>TOP QUALITY 1½ MIL POLYES<br>PER REEL 99°C<br>No. 11A955                                                                                                                                                                                                                                                                    | N SPECIAL!                                                                                                                                                                                                                                                                              |
| AT DEEP CUT PRICES WI<br>SUPPLY LASTS!                                                                                                                                                                                                                                                                                                                                                                      | ford the best professional quality<br>ertainment needs! Made of tough<br>ed oxide coating far stronger<br>nee Provides full range fidelity | BIG SAVINGS ON B<br>QUALITY 4 AND 8<br>BLANK CARTRID<br>Approved design molded plastic M<br>fecks. Loaded with fine quality spe<br>recording tape. Will give top perf<br>by by your recorder and playb<br>Use 4 minute cartridges for adjust<br>precorder settings. Avoids long to<br>recorder settings. Avoids long to<br>required when testing with stand<br>tridges. Avg. wt. 4 oz. | TRACK<br>GES<br>housing fits all<br>excially lubricated<br>ormance limited<br>ack equipment.<br>ing and check-                                                                                                                                                                          |
| and better than ordinary acetate base ta<br>and unsurpassed dependability, usually limit<br>length on small reel size doubles your norr<br>ester (mylar) backing guarantees repeated<br>without deterioration.<br>Better build up your tape reserve stock<br>Weight: 31/4" reel 4 ozs.; 7" reel 12 ozs.<br>Stock C.E.<br>No. No. Size<br>11A1100 RT7060 600' — 31/4" Reel<br>11A1102 RT7070 2400' — 7" Reel | replays or storage over the years                                                                                                          | Stock No.         Playing Time           11A1152         4 Min.           11A1153         32 Min.           11A1154         64 Min.           11A1155         128 Min.                                                                                                                                                                                                                 | Length         Net Ea.           20 Ft.         \$1.42           160 Ft.         1.67           320 Ft.         1.92           640 Ft.         2.17           CORDED         CARTRIDGES           Length         Net Ea.           40 Ft.         \$1.42           320 Ft.         1.67 |



### CASSETTE TAPE RECORDING ACCESSORIES



 Cassette Tape Mailers. Package of 18 convenient cardboard cassette mailers. Unique design protects cassette for safe mailing.
 No. 11A7521. Model TCB-18. Pkg. of 18, Net Each.

Impact Resistant Plastic Cassette Canister protects cassette tape from dust and dirt. Built-in "Stop" prevents cassette tape from unwinding and becoming slack. Clear plastic hinged cover of canister provides Instant identification.
 No. 11A7520. Model TC-3. Pkg. of 3, Net Each.
 Cassette Head Cleaner Tape. Removes accumulated oxides and dirt from neads to improve fidellity. Easy to use. Simply insert cartridge and start tape player.
 No. 11A7523. Model THC-4. Net Each.



| proved fidelity. For all types of tape recorders. Complete with extension nozzle.<br>No. 11A7522. Model THS-1. 4-oz. Can. Net Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| No. 11A7522. Model THS-1. 4-oz. Can. Net Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5   |
| the second |     |
| (3) Cassette Tape Splicer, Especially for editing and repairing 150" with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -   |
| o and repairing the contribution of which                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | le  |
| tapes. Cuts tape at 45° angle. Includes 25 splicing patches. \$2.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3   |
| No. 1147530 T TT 10 F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |
| No. 11A7529. Type TT-15. Extra splicing patches. 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | c i |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -   |
| ( Cassette Fast Eraser. Small magnet assembly clips into cassette cartridg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | e.  |
| Rewinding tape on player erases entire recording quickly. \$1.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0   |

# **B-A's TAPE RECORDER ACCESSORIES**



### **STEREO 8 TRACK AND CASSETTE PRE-RECORDED TAPES** LITTLE GREEN APPLES



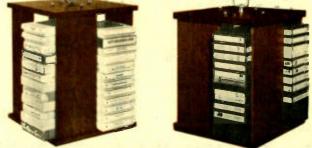
Ca

### FINEST QUALITY STEREO CASSETTES \$395 EACH! 3 FOR \$995

|            | Specify Stk. | No. 23A176 and Cassette No. on Orders            |
|------------|--------------|--------------------------------------------------|
| assette No | . Category   | Title and Artist                                 |
| 102-K-Q    | Pop Pourri   | Summer Wind-Columbia Musical Treasury Or-        |
|            |              | chestra & Chorus                                 |
| 103-K-Q    | Pop Pourri   | A Very Good Year-Columbia Musical Treasury       |
| 105 14 0   |              | Orchestra & Chorus                               |
| 105-K-Q    | Jazz         | Tribute To Getz-Combo Royale                     |
| 106-K-Q    |              | Tribute To Dave Brubeck-Combo Royale             |
| 107-K-Q    | Country &    | Young, Warm & Wonderful-Columbia Musical         |
|            | Western      | Treasury-Orchestra & Chorus                      |
| 108-K-Q    | Country &    | Ballads Country Style-Columbia Musical Treasury  |
|            | Western      | Orchestra & Chorus                               |
| 109-K-Q    | Light        | Light, Bright Classics-Columbia Musical Treasury |
|            | Classical    | -Orchestra & Chorus                              |
| 111-K-Q    | Broadway G   | Melodies From The Cinema-Columbia Musical        |
|            | Hollywood    | Treasury-Orchestra & Chorus                      |
| 112-K-Q    | Broadway G   | Great Moments From The Movies Vol. 1-Columbia    |
|            | Hollywood    | Musical Treasury-Orchestra & Chorus              |
| 113-K-Q    | Broadway G   | Hits From Broadway-The Showtimers                |
|            | Hollywood    |                                                  |
| 114-K-Q    | Best of the  | Rock Sounds—The Top Notchers                     |
|            | Beat         |                                                  |
| 115-K-Q    | Best of the  | A Happening Thing-Paul Revere & The Raiders      |
|            | Beat         | and Others                                       |

A Happening Thing-Paul Revere & The Raiders and Others Love After Midnight-Columbia Musical Treasury -I'll Cet By, Days of Wine & Roses Gentle On My Mind-Columbia Musical Treasury-Release Me, Harper Valley P.T.A. The Beat Goes On-Columbia Musical Treasury-Do You Know The Way To San José, Mission, Impossible, Up, Up & Away Those Were The Days-Columbia Musical Treasury-Mrs. Robinson, McArthur Park Wishin' & Hopin'-Columbia Musical Treasury-The Fool On The Hill, El David Sloan, Windy Light My Fire-Columbia Musical Treasury-Ture Around Look At Me, Monday-Monday Super Rock Vol. I By Various Rock Groups-Hush, People Cot To Be Free, My Special Angel Super Rock Vol. II By Various Rock Groups-Hush, Born To Be Wild, Suzy Q

### NEW HOME STORAGE CABINETS



### FOR TAPE CARTRIDGES AND CASSETTES

Wooden construction with fine walnut-grain finish. Swivel base allowing easy accessibility. Store 12 tapes in each of 4 shelves.
 Mo

FOR 4 6 8 TRACK TAPE CAR-TRIDGES. Dimensions 91/2" x 91/2" x 121/2" high. Capacity: 48 car-

\$9.95 Model 82TC. Each

KEEPS AUTO AND HOME TAPES NEATLY FILED

Pop Pourri

Country & Western

Pop Pourri

Pop Pourri

Pop Pourri

Pop Pourri

Best of the

Best of the Beat

Beat

117-K-0

118-K-Q

119-K-Q

FOR CASSETTES. Dimensions: 8 x 8 x 10" high. Capacity 48 cassettes. No 234180 \$9.95 Model 84TC. Each

· Modern decorator styling.



**STEREO 8 TRACK CARTRIDGES \$395 EACH!** 3 FOR \$995 S-1012 Corport Music Orrow Music Corport, Supering S-1012 Corport Music Corport, Supering Organ Favorites, Buddy Burden—SpanIsh Flea, Autumn Leaves
What Now My Love By The Bravada Brass—The Lonely Bull, Our Day Will Come, The Lemon Tree Hits Nashville Style By Various Artists—Lonesome 7-7203, Act Naturally, Ring of Fire
Harper Valley P.T.A. and Other Hits—Classical Gas, Hello I Love You, Stoned Soul Picnic
Folsom Prison Blues and Other Country Hits—Stand By Your Man, I've Cot You On My Mind Again
Pop Hits Easy Listening—Gentle On My Mind, Little Green Apples, Wichita Lineman
12 Great Hits—Son of a Preacher Man, Sittin' On The Dock Of The Bay, Dedicated To The One I Love
Country Western Favorites—Daddy Sang Bass, A Satisistif Mind, The Carroll Country Accident
Collection of Country Hits\_D-I-V-O-R-C-E, Skip A Rope, Green Green Green Grass Of Home
Galveston and Other Hits, John Carlton—Go Away Little Girl, Memphis, Traces
Diszy and Other Hits Diday Denver—Waterloo, Gone, New City Limits
The Sound of Love, Music City Orchestra—Red Roses For A Blue Lady, Born Free, Shangri La.
Golden Country Hits By Various Artists—Crazy Arms, Room Full Of Roses, He'll Have To Go
Great Soul Hits—Louie, Louie, Lover Please, Baby Work Out, Our Day Will Come
Today's Hits Today By The Now Generation—Magic Organ Music Organ Favorites, Buddy Burden-Spanish Flea, Autumn Leaves Pop Country & Western Pop Country & Western Easy Listening Pop Country & Western Country & Western Easy Listening Pop Country & Western Easy Listening Country & Western Soul Music Pop Play Pop

### **NEW DELUXE CARRYING CASES**



Sturdy wood construction covered in durable black alligator grained vinyl with attractive red plush in-terior. Holds 24-4 or 8 track cartridges.

No. 23A181. Model 85TC. Each

S-1020

S-1022

S-1024 S-1028

S-1031

S-1033 S-1034

S-1035

S-1037

S-1038

S-1040

S-1041

S-1042

S-1044

S-2500

S-3010

PERFECT FOR CAR ... BOAT ... HOME ... PARTIES! Sturdy wood construction covered in durable black alligator grained vinyl with attractive red plush interior. Cassettes stock horizontally. Equipped with lock and key. Storage capacity 30 cassettes. No. 23A182. Model 86TC. Each. \$9.95

\$9.95

tridges. No. 23A179. PORTABLE DELUXE TAPE CASE

Solves the tape storage problem neatly, attractively. Holds up to nine 4-or 8-track cartridges. Made of high impact polystyrene. Roll-lock doors are tough, flexible polypropylene. Has walnut grain vinyl sides, off-white doors. Won't scratch furniture or snag upholstery. Size 115% x 6 x 53%. Shpg. wt. 3 lbs. Shpg. \$5.95 No. 1147524. Net Each ....

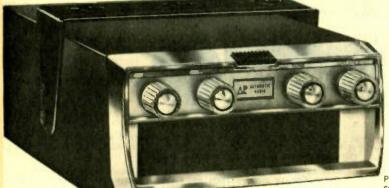


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120-K-O 121-K-O 122-K-O 123-K-Q Triay Today's Hits Today By The Now Generation—Magic Carpet Ride, Hey Jude, Those Were The Days 124-K-Q

\$995







 Handsome chrome and black finish. All solid state -10 watts power

• Wide Frequency Response 70-12,000 Hz.

Plays all 8 track cartridges, 4 track with gidget accessory . . , your best low cost ticket to the exciting world of stereo sound entertainment in your car or boat. Really fine quality built throughout. All solid state, 10 transistors, power output 8 wafts, 70-12,000 Hz. Controls: Loudness, Tone, Balance and Channel Selection. In chrome and black, 5½ L. x 7" D. x 3" H. With mtg. bracket which can be reversed for console or floor mounting. Less speakers (see below). Shpg. wt. 7 lbs. No. 38A2015. Model SEL-9606. Net Each. Gidget Accessory. Simply inserts into any 4-track stereo cartridge. Allows 8-track player above to handle 4-track cartridges. No. 113500. Net Each. S2.98 \$2.98 No. 11A7500. Net Each

FINE OUALITY AUTO STEREO SPEAKER KITS SPECIALLY PRICED! USE WITH PLAYER ABOVE OR WITH EXISTING SYSTEMS

\$895 PAIR 5" FLUSH MOUNT MATCHED SPEAKER KIT

Fine appearance, beautiful tone. Best we have seen for the money! For auto or home. Wide freq. resp. for finest reproduction. Each speaker rated 4 watts, 8 watts peak. Has large ferrite magnets, 8 ohm V.C. Blast-proof, moisture re-sistant. Heavy chrome plated snap-on grille for door, deck or cabinet mtg. With 2 11-ft, clip-on leads. Shpg. wt. 3 lbs. No. 34A402. Quality Import \$8.95 \$8.95 Quality Import

**AUTOMATIC RADIO** 

MODEL SEL-9606

\$895 PAIR 5" SURFACE MOUNT MATCHED SPEAKER KIT Exceptional tone quality to enhance any stereo music system. Particularly fine for tape players such as shown above. Weatherproof, Multi-mount, Mounts on any flat surface In auto, boat or home. Heavy ferrite magnet. 8 ohm. 15 ft. leads. Size 734 x 6 x 31/2" D. Shpg. wt. 6 lbs. Quality import. No. 34A431. \$8.95 Pair For

> SPEAKERS INCLUDED



**OUR BEST SELLING COMPACT** COMES COMPLETE READY FOR YOU TO INSTALL WITH TWO SURFACE MOUNT SPEAKERS

### ALL TRANSISTOR COMPACT **8 TRACK STEREO PLAYER**



Quality stereo equipment ... compact ... easy to install in car or boat without cutting holes for speakers. Comes with two surface mount 5" ceramic magnet Hi-FI speakers in black custom molded housings. Plays all 8 track standard cartridges ... and with Auto-matic's exclusive "Gidget" accessory, will play 4 track car-tridges, balance and tone controls. Advanced solid state circuitry, 8 watts stereo power, 50-15,000 cps. Requires 12 V. DC @ 2 A, neg. ground. Fully enclosed, size 61/4" W. x 21/2" H. x 6" D. Shpg. wt. 10 lbs. No.

|     | Surface Sp |        |         |      |     | \$6     | 9.95   |  |
|-----|------------|--------|---------|------|-----|---------|--------|--|
| get | Accessory. | Simply | inserts | into | any | 4-track | stereo |  |

Cide cartridge. Allows 8-track player above to handle cartridges. \$2.98 No. 11A7500. Net Each

WIt



Beautiful walnut finish matches tape player,  $7\frac{1}{2}$ " L. x  $4\frac{7}{8}$ " W. x 13" H. No. 38A2011. Net Each \$26.50

MOST VERSATILE UNIT EVER ... INSTANTLY CONVERTIBLE FROM CAR OR BOAT TO HOME USE! COMPLETE WITH "SLIP-OUT" MOUNTING BRACKET ADAPTS EASILY TO FM-AM OR FM STEREO MULTIPLEX RADIO

Truly a magnificent Innovation In sound entertainment. Tapedeck Convertible brings you the delight the dimension and scope of either stereo tape or radio for car, boat and home. Plays any 8-track stereo tape cartridge and any 4-track cartridge with gidget accessory listed below.

Tapedeck is converted automatically to an AM-FM or FM Stereo Multiplex. Radio-Receiver with the insertion of optional Radio Pak Tuner cartridges. Trouble-free solid state circuitry and modern thumb-dial controls insure professional quality stereo sound reproduction.

professional quality stereo sound reproduction. **Specifications:** Tape Speed 334 ips. Wow and flutter:less than .3%. Freq. Resp. 50-15,000 Hz. Power Output: 10 waits. Operates on 12V DC. nega-tive ground system or the universal power supply listed below as an optional accessory. Controls include: volume (loudness), tone, balance for left to right speaker and balance control front to rear speaker. Fine tuning control eliminates crosstalk. Tape selections continue automatically or may be changed manually with the channel selector button. Has back lighted channel indicator. Size:  $8\frac{1}{2}$ " W.,  $3\frac{3}{4}$ " H.,  $7\frac{1}{2}$ " D.

Comes complete with a "slip-out" under dash mounting bracket with lock and key. Chrome grille speakers and a special antenna for AM or FM opera-tion in car or boat. For home use, add any of the speaker systems on page 13.

| No. 38A201 | 0. Shpg. wt. 9 lbs. | \$109.95                                                                                           |
|------------|---------------------|----------------------------------------------------------------------------------------------------|
| Net Each   |                     | <b><i>ψ</i>Ιυ</b> <i>ν</i> <b>·</b> <i>ν</i> <b>·</b> <i>ν</i> <b>·</b> <i>ν</i> <b>·</b> <i>ν</i> |

Cidget Accessory. Simply converts 4-track cartridges for playing in above unit. .\$2.98

No. 11A7500. Each

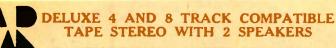
Console Mounting Bracket. For mounting CES-8111 tape player on car floor or console where under-dash space is restricted. With theft-proof key lock. No. 38A2018. Each \$8.95

Extra Under-Dash Mounting Bracket.As supplied with CES-8111 unit for using Interchangeably in second car, boat, etc. No. 38A2023. Each \$9.95

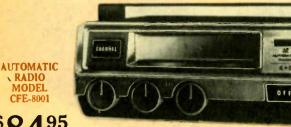
RADIO TUNER CARTRIDGES CONVERT ANY A-R STEREO PLAYER INTO FM-AM OR FM STEREO RADIO INSTANTLY JUST PLUG IN! MAKES ALL CONNECTIONS INCLUDING ANTENNA AUTOMATICALLY

### **FM-AM CARTRIDGE** \$4395

Provides excellent reception of both AM and FM broadcasts. AFC locks in FM stations. All solid-state utilizes the finest tuner design for the ultimate in radio performance wherever you drive. 4" L. x 61/2" D. x 11/2" T. Shpg. wt. 1 lb. No. 38A212. S43.95 Model AFM-9680. Each....\$43.95



AUTOMATICALLY ACCEPTS AND PLAYS **BOTH 4 AND 8 TRACK CARTRIDGES** 



\$**84**<sup>95</sup>

44

Features finest 10 transistor solid state electronics producing 6 watts undistorted stereo music power output with thrilling high fidelity response from 50 to 14,000 cps. Mechanically regulated motor speed gives near perfect freedom from wow and flutter, less than 0.3% RMS. Fully automatic, operates instantly when a 4-track or 8-track cartridge is inserted. Has both automatic and manual channel selection, volume, tone and balance controls. Speaker outputs 8 ohms. Fully enclosed deluxe cabinet 8 x 3 x 71/2" D. Operates on 12 V. DC negative ground. With 2 flush mount speakers. Operates on 12 Shpg. wt. 13 lbs. Shpg. \$84.95 No. 38A2017, Model CFE-8001, Net Each.

# **Style Style St**



Model FMX-9692, Each \$59.95

COMPACT STEREO CASSETTE TAPE PLAYER FOR CAR OR BOAT

COMPLETE ... READY FOR INSTALLATION WITH YOUR CHOICE OF TWO FLUSH OR SURFACE MOUNT SPEAKERS



### MODEL CRS-9440

### COMPACT "ALL-IN-ONE" DELUXE STEREO UNIT PLAYS 8 TRACK AND 4 TRACK (GIDGET) STEREO TAPE CARTRIDGES ... RECEIVES FM & FM MULTIPLEX RADIO BROADCASTS IN AUTO OR BOAT



Wherever you travel in your car or boat ... this unique combination stereo center let's you enjoy the exciting sound of pre-recorded tape or FM-FM stereo broadcasts. Provides the scope and "live" reality of true stereo through its wide-range dual channel audio system.

All solid state circuitry. Instant, reliable operation from any 12 volt negative ground system. Power output 8 watts, response 60 to 12,000 cps. Highly selective and extremely sensitive FM radio section features 4 tuned IF stages and 3 gang tuner. Has loudness control, treble and bass boost, balance control and automatic or manual tape channel selection.

In deluxe chrome and black. Size 21/2" H. x 71/2" W. x 7" D. Shpg. wt. 9



| lbs. Less speakers.<br>No. 38A2014. Model EMX-6810. Net Each                                                                                   | \$119.95                    |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Set of 2 Surface Mount Speakers. Shpg. wt. 3 lbs.<br>No. 34A402, Pair For                                                                      | \$8.95                      |
| Set of 2 In-The-Door Speakers. Shog. wt. 3 lbs.<br>No. 34A431, Pair For                                                                        | \$8.95                      |
| <b>Gidget Accessory.</b> Simply inserts into any 4-track stereo<br>8-track player above to handle 4-track cartridges.<br>No. 1147500. Net Each | cartridge. Allows<br>\$2.98 |

**FM MULTIPLEX AUTO** 

APAUTOMATIC RADIO

**TRULY EXCEPTIONAL!** EXCITING NEW

\$**Q 1** 95

MODEL MXR-8404 DECORATIVE SLIM-LINE DESIGN TO FIT ... AND TO ENHANCE THE DECOR OF ANY AUTO OR BOAT WITH CHOICE OF TWO FLUSH-MOUNT OR SURFACE MOUNT SPEAKERS

RADIO

Now enjoy the wonderful world of stereo sound wherever you go in your car or boat. Ultra-modern solid-state components and circuitry assures true high fidelity performance of regular FM and stereo FM multiplex broadcasts. Super powerful, extra sensitive, powered by 24 'transistors and 12 diodes with 3-gang tuner, 17 selective tuned circuits and 4 IF stages. 10 watts power output. "Thumb-wheel" volume, tone, balance and tuning controls with

"AFC" to lock in FM stations. For 12 V. DC, negative ground systems.  $83_4$ " x 7" x 2" H, in beautiful rich black and chrome. Shpg. wt. 6 lbs. Model MXR-8404.

No. 38A215. With Two Flush-Mount Speakers. No. 38A216. With Two Surface-Mount Speakers. Choice \$81.95 Each

### CONVERT ANY 8 OR 4 TRACK STEREO TAPE PLAYER TO FM-AM OR FM MULTIPLEX RADIO INSTANTLY



Just slip radio tuner cartridge into tape cartridge slot in tape player and simply attach antenna "Y" connector and adaptor cable supplied. Provides outstanding reception of radio broadcasts of your choice. All solid-state circuitry designed for optimum sensitivity and selectivity. Both models have AFC to lock-in FM stations.

AFC to lock-in FM stations. (1) FM-AM RADIO TUNER PAK. Size 4" L. x  $6\frac{1}{2}$ " D. x  $\frac{1}{2}$ " H. \$43.95 No. 38A213. Model AFM-9219. Shpg. wt. 1 lb. Net Each. (2) FM MULTIPLEX RADIO TUNER PAK. Size 4" L. x 7" D. x  $\frac{1}{2}$ " H. No. 38A214. Model FMX-8401. Shpg. wt. 1 lb. (3) FM State of the state \$59.95 Net Each

No. 38A6002, Special Pair For.....

B-A's LOW PRICES DARE COMPARISON ON TOP QUALITY MATCHED STEREO SPEAKER SETS! FOR AUTO, BOAT, TRAILER OR HOME MUSIC SYSTEM



Fine appearance, beautiful tone. Best we have seen for the moneyl For auto or home. Wide freq. resp. for finest reproduction. Each speaker rated 4 watts, 8 watts peak. Has large ferrite magnets, 8 ohm V.C. Blast-proof, moisture resistant. Heavy chrome plated snap-on grille for door, deck or cabinet mtg. With 2 11-ft. clip-on leads. Shpg. wt. 3 lbs. No. 34A402. Quality Import. Patr For

Pair For



Excellent for cars, station wagons. busses, mobile homes, boats! Mounts on klck panel, rear deck, walls, ceiling or other flat surface. Features extra heavy duty 15 W. RMS 5" weatherproof volumetric speaker with large ceramic magnet and 8 ohm voice coil. Rattle-proof housing has rich black tex-tured mar-proof surface. Overall mtg. size 6" x 734" x 31/8" max. depth. 12 ft. leads. Wt. 3 lbs. Fine Quality Import.







FITS ANY CAR, TRUCK OR BOAT!

1 - - - F

7 tuned circuits for fine sensitivity

Automatic volume control

2.5 watts audio output — heavy duty 4 x 6" ceramic magnet speaker.

Most exciting universal auto radio bargain anywhere! Modern all solid-state circuitry makes possible finest AM performance at a fraction of former car radio prices . . . with no sacrifice in quality, appearance or features that make radio listening a pleasure, such as effective AVC to prevent fading and tuned RF amplification. Mounts neatly and easily under the dash. Front dial trim detaches completely for custom in-dash mount. So small that it just can't



### ENGINEERED AND BUILT FOR LASTING TOP PERFORMANCE

Triple chrome-plated brass tubing. Completely waterproof, rattle proof con-struction. Highest quality leads. Quick, one-man installation from top of fender or cowl. Easy-to-assemble Ball mount is adjustable for any mast posi-tion up to 30°. Has chrome hood and positive grounding rocker for absolute stability. Model 1302 combines 180° swivel mount and chrome plated shock absorbing spring to prevent antenna damage. 48" lead length. Shog. wt. 2 lbs. Stk. No 38A4 38A2

| o. | Mfg. No. | Description and Size     | Mfg. List | Net Each |
|----|----------|--------------------------|-----------|----------|
| 8  | 901      | Ball 23" to 57"          | \$4.27    | \$2,09   |
| 4  | 1302     | Swivel Spring 23" to 57" |           | 3.33     |

### SIDE MOUNT ANTENNAS

Ideal 3-section antennas for side fender or cowl mounting on domestic or foreign cars as well as for bus or truck cabs, **Model 1000** has deluxe chrome caps on Insulators. **Model 2600**, especially designed for Volkswagen, has sturdy 2-hole mount, 36" leads. Shog, wt. 2 lbs.

| Stk. No. | Mfg. No. | Description and Size  | Mfg. List | Net Each |
|----------|----------|-----------------------|-----------|----------|
| 38A22    | 1000     | Side Cowl 23" to 57"  | \$5.21    | \$2.95   |
| 38A39    | 2600     | Volkswagen 33" to 57" | 5.53      | 2.66     |

### 57" 3-SECTION "POWER HOUSE" ANTENNA BUILT-IN BOOSTER COIL IMPROVES RECEPTION

Custom Mounts IN Dash. Has removable chrome and black escutcheon, chrome knobs. Compact! Also mounts UNDER Dash. Has built-in heavy duty speaker and provision for external speaker.

get in the way-Only 6%" W. x 5" D. x 2" H. Has fine tone from built-in 4x6" speaker and provision for external 8 ohm speaker. Ideal for car, truck and boat installation where a remote speaker is desired. Operates with mini-mum battery drain from 12 volts negative ground. Shpg. wt. 5 lbs. \$19.95 No. 38A208, Special.



SET-SCREW MOUNTED REPLACEMENT ANTENNA MASTS FASTEST AND EASIEST WAY TO REPAIR BROKEN ANTENNAS () Universal Telescoping Mast. No need to remount a complete new installa-tion. Bell shaped collar slips onto stub of broken mast and fastens with set screws. 3 sections, telescoping 24" to 57". Shpg. wt. 1 lb. No. 38844. Mfg. List \$2.79. Each. New Eliptical Oval Universal Telescoping Mast. Extra strength, stream-lined design, deluxe chrome. Three sections, 23" to 57". Mounts with set screws. Shpg. wt. 1 lb. No. 38A4002. Mfg. List \$4.90. Each. Strews. Code Replacement Mast. Spring supported 1 piece rod flexes when antenna strikes any object. Prevents damage so often incurred by leaning against antenna while servicing car. Fastens to broken antenna stub with set screw. Length 27". Shpg. wt. 1 lb. No. 38A125. Mfg. List \$2.37. Each. State Strews. Strews. State State Strews. State Strews. State Strews. Shpg. Wt. 1 lb. No. 38A125. Mfg. List \$2.37. Each. Section 23" to 57". Has socket mount. Secured by Allen set screws. Shpg. wt. 2 lbs.

No. 38A4003. Mfg. List \$5.43. Each .... \$2.95

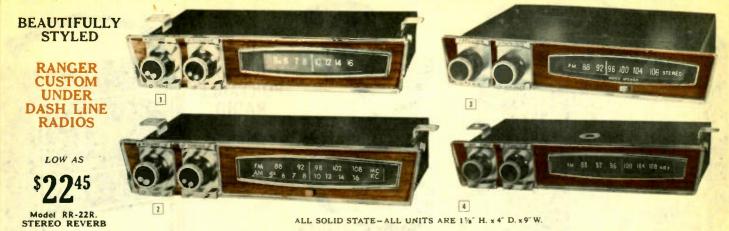


 No. 12A1406. Mole Motorolo Coble Plug. Eoch.....
 No. 12C170. Female Motorola Cable Plug. Eoch.....
 No. 12A1404. Female Motorolo Chassis Plug. Eoch. 17c 25 @ Ea. 17c 25 @ Ea. 24c 25 @ Ea. 14c 13c 190 

### EXTENSION LEADS-FINEST COAX TYPE

| No.38A8002.12 | Inch Extension. Wt. 4 oz. Eoch   | 60c    |
|---------------|----------------------------------|--------|
| No.38A8003.24 | Inch Extension. Wt. 6 oz. Eoch   | 86c    |
| No.38A8004.36 | Inch Extension. Wt. 8 oz. Eoch.  | .92c   |
| No.38A8005.12 | Ft. Extension, Wt.    b. Eoch    | \$2.37 |
| No.38A8006.15 | Ft. Extension. Wt. 11/2 lb. Eoch | \$2.94 |

### SLIM, TRIM . . . A COMPLETE NEW CONCEPT IN SOUND SYSTEMS FOR YOUR CAR!



#### DELUXE AM RADIO \$2995

#### FOR CARS, BOATS, HOUSE TRAILERS

Superior quality all solid state, matches or out-performs original factory installed AM car radios.

Completely self-contained in a compact size that fits under dash with only two screws. Adjustable brackets permit custom fit to the contour of the dashboard. Face plate is beautiful walnut wood grain framed in sparkling chrome. Knobs have in-sets of black leatherette. Extra black leatherette decal is furnished to cover walnut grain area in the event you desire all black and chrome set.

Decal is pressure sensitive just presses into place. Sensitivity 10 mv, gives excellent performance even in areas of weak signals. Has continuously variable tone control, built-in heavy duty full range speaker. Operates on any 6 or 12 volt DC system negative or positive ground covering all American or forelgn cars. Size  $17_{0}^{**} \times 4^{**} \times 9^{**}$ Wt. 5 lbs. \$29.95 No. 38A201. Model RR-18M. Each.

\$5995 WITH THE FLICK OF A SWITCH Has same elegant appearance of the AM radio listed at left but with additional feature of static free FM reception with AFC for drift-free per-formance. Includes heavy, duty 5" x 7" speaker with chrome grille. Operates in all American or foreign cars 6 or 12 V. DC negative or positive ground. 4 watt peak music power. External speaker output is 8 ohms. Sensitivity 10 Mv. both AM and FM. Size 1%"x4"x0". Shpg. wt. 6 lbs. No. 38A202. Model RR-19-M. Net Each.

2 DELUXE FM/AM RADIO

FM AUTO CONVERTER \$3750

Converts your existing AM radio to FM band. Made for 12 V. negative ground cars. Requires only the simplest connection to your radio through the antenna lead, and no dismounting. AM/FM switch returns radio to normal AM opera-tion. Has 6 transistors, 8 diodes, RF stage, AFC. Wt. 4 lbs. No. 38A203. \$37.50

Model RR-21FC. Net Each.

\$795

#### FM STEREO RADIO \$9995

WITH BUILT-IN MULTIPLEX-STEREO AMPLIFIER WITH BUILT-IN MULTIPLEX-STERED AMPLIFIER Handsome appearance (for detailed appearance see AM radio at left). High fidelity audio circuit provides big sound. All solid state. Stereo indicator lamp lights when station is broadcasting stereo. Comes complete with two "instant-mount" speakers, uses your existing AM antenna. Has dual channel tone and volume controls/Mono/ Stereo slide switch. For 12 volt negative ground only. Power 7 watts per channel. Sensitivity 5 Mv. Size 17% "x61/2"x9". Shpg. wt. 6 lbs. \$99.95 No. 38A218. Model RR-35-MPX-2. Each

### CUSTOM TUNABLE REVERB \$2245

Matches units described at left. Provides big dimensional sound from your radio. Exclusive tuning control "custom matches" the sound to your car acoustics. For 12 V. negative ground. Has  $6 \times 9"$  speaker to be mounted like rear seat speaker. Power output 4 watts. Wt. 5 lbs. No. 38A6000 \$22.45 Model RR-22R. Each

### SAVE TO 50% OVER AUTO DEALERS PRICE!



### VOLKSWAGEN CUSTOM CAR RADIOS

EASY INSTALLATION DELUXE AM PUSH BUTTON ALL TRANSISTOR

High styled, all transistor push-button AM radio for custom in dash installa-tion. Features trouble-free, solid state circuitry, 7 transistors, 2 diodes. Has 7 tuned circuits, RF stage with ACC, 3 watts output and custom 5" external speaker. Operates on 6 or 12 V. negative ground. Size 61/2x61/2x2". No. 38A205. Model VP-6228. Shpg. wt. 4 lbs. \$39.95

Net Each. For 1968, 1969, 1970 VW CARS. No. 38A206. Model VP-6235. 12 Volts only. Net Each.



No. 38A6001 Shpg. wt. 5 lbs. Special Each.

DELUXE AUTO REAR SEAT SPEAKER KITS POPULAR VARI-CONTROL SINGLE CONE \$595

Features new heavy duty 6x9" speakers that flawlessly reproduce the full tonal range—excellent for Hi-FI FM as well as finest reproduction of AM programs. Designed to mount in shallow space, requires a depth of 234" Kit includes choice of single cone or wider range twin cone 6x9" speaker, chrome grille, hardware, vari-control for undermounting, wiring and simple instructions. Shpg. wt. 4 lbs. No. 38A6004. Kit with Deluxe 6x9" 7-Watt Speaker. Complete \$5.95 Kit with Twin-Cone 6x9" 10-Watt Speaker. Especially wide-range repro-duction with still more power to handle the high peak audio output of modern auto radios. Shpg. wt. 4 lbs. No. 38A6005. Complete. No. 34A386, Extra Heavy Duty 6x9" Multi-Imped Speaker Only 0 oz. ceramic magnet. 1" voice coll, tweeter cone. Strictly Hi-Fi. Wt. 2 lbs. Each......\$6.95 MALLORY MALLORY VIBRATORS ( REPLACEMENT FRESH STOCK! VIBRATORS \$189

1701A

3 types to cover most replacement needs at a sub-stantial saving. 6 VOLT

Standard 4 Prong—Replaces Mallory 294, 859, 901M; Radiart 5300, 5301 etc. Wt. 6 oz. etc. Wt. 6 02. No. 38A8013. Each ..... 12 VOLT \$1.89 3 Prong — Replaces Mallory G874/ G883; ATR 1343; Delco 8550; Radiant 6330, etc. Wt. 6 oz. **C1 20** \$1.89 

No. 38A8015. Each ..... \$1.89

If you are unable to identify the vi-brator needed then order by stating year, make and model of set. B-A will select the replacement for you. C1601 and 1601 are "standard" 4 prong types; G1602 is "standard" 3 prong. Avg. shpg. wt. 8 oz.

Please Order by Group Stock No. 38A8016 and Mallory Type Number.

| 30             |                  |                |              |             |
|----------------|------------------|----------------|--------------|-------------|
| Mallory<br>No. | Replaces<br>Type | Rated<br>Volts | Mfg.<br>List | Net<br>Each |
| 1601           |                  | 6              | \$4.70       | \$2.82      |
| G1601          | C859             | 12             | 4.70         | 2.82        |
| W1601          | W859             | 4              | 4.90         | 2.94        |
| G1602          | C883             | 12             | 4.70         | 2.82        |
| 1610           |                  | 6              | 5 50         | 3 30        |

6/12

9.60

5.76



\$39.95

# PUBLIC SERVICE RADIOS





AM-FM VHF TRANSISTOR PORTABLE RADIO

COVERS: 144-174 Mc **Police Band** 535-1605 Kc AM Band 88-107 Mc FM Band

\$2495

### 5 BAND PORTABLE RADIO LICE, LONGWAVE/WEATHER, SHORTWAVE AND AM-FM POLICE

BATTERY OR AC TUNE IN FOREIGN STATIONS ON THE SHORTWAVE BAND

Listen to police broadcasts and hear the action as It happens; listen to weather direct from weather bureau ... be aware of weather conditions as they happen; listen to aircraft as they get landing instructions; or listen to fine music on FM or tune-in favorite AM stations. SW-4.5-12 MC. "Public Service Band" 148-174 MC for police, fire, mobile telephone etc., LW-Weather 150-350 KC. Operates on batteries or AC with built-in line cord. Housed in a padded leather-like case with rigid carrying handle. Features twin telescoping antennas and dial light. Complete with earphone and 4 "C" cell batteries. Size 10" x61/z" x31/2". Shpg. Wt. 41/4 lbs. \$37.95 No. 36A5021. Each

- Listen To Police Calls 1
- Receive Weather Reports Direct . From Weather Bureau
- . Don't Get Caught! Always Be Alert To Bad Weather Conditions

Tune in and hear the excitement of your Police department in action. Cet weather reports instantly as broadcast by the Weather Bureau. Covers local and state Police, Civil Defense, Fire Department, Weather Bureau and other commercial and government agencies æsigned to the 147-174 MC band. Terrific performer for AM and FM reception too! Built-in ferrite AM antenna and UHF-FM telescoping antenna. Operates on 4 Penlight batteries (included). Leather-like case, handle and shoulde: strap. 71/2 x 43/4 x 23/4". Shpg. Wt. 3 lbs. **\$24.95** No. 36A5020. Each.

60 m 90

720 160 K C



**"WORLD MONITOR**" **DELUXE 6-BAND** SOLID STATE **BATTERY/AC OPERATED** RADIO

> RECEIVES: HI-LO POLICE BANDS, 2 SHORT WAVE BANDS AN AM/FM AND

> > **\$74**<sup>95</sup>

Truly a masterpiece of fine craftsmanship and precision engineering. Wood grain finish case with chrome trim ... completely portable or operates on AC current. The wide range tuning includes "High" (147-174mc) and "Low" (30-50mc) public service bands for police, mobile telephone, civil defense, fire, U.S. Weather Bureau and highway trucks, 2 short wave bands (4-12mc) and (12-22mc) also FM and AM. Front cover opens up to display world map and adjustable world time diall Features include separate AFC switch, tone control, dual purpose tuning meter and battery indicator, dial light and 2 telescoping and built-in antennas. Self-storing UL listed line cord, ear-phone and batteries included. Size closed: 13" x 10" x 4". Size open 17" high. Wt. 11 lbs. **\$74.95** No. 36A5019. Each



\$3795

No. 36A5012. Net Each.

\$**49**<sup>95</sup>

# SPECTACULAR AM-FM CLOCK RADIO VALUES

IN YOUR CHOICE OF TWO POPULAR STYLES!



### **PANASONIC** multi-band and lightweight portable radios



### \$27995

PANASONIC

### FINEST MULTI-BAND RADIO

Incon parable, precision product of Panasonic—Listen to the entire world on Short Wave, Long Wave, Marlne, and Amateur Radio Bands. It's a Hi-Fi system all its own with standard AM and FM radio, with 2 perfectly matched 7x5" speakers. Fine tuning for precise operation. Continuous bass and treble tone controls. Special mechanical filter for interference-free reception. Beat frequency oscillator with pitch control and manual gain control for clear reception of Morse code and single side band. Five wilde range antennas: Ferrite core AM antenna, Ferrite core long wave antenna, 2 FM whip antennas and a swing-up frame antenna for short wave bands. Illuminated Band Indi-cator. Special signal strength meter for accurate pinpoint tuning, which also indicates battery condition. World time map and time conversion table. Built-In AC power supply. Jacks for earphone, phono, stereo input and FM Multiplex output. Complete with batterles, earphone and leatherette carrying case. Size 163/a" wide x 111/a" High x 55/a" Deep. Shpg. Wt. 23 lbs. Mid-night Black with Silver trim. No. 36A5009. Model RF5000A. Each. No. 36A5009. Model RF5000A. Each



New unique, superb sounding portable entertainment center. Doubles as a car radio by installing a simple bracket. Also makes and plays cassette tapes. Perfect for doctors, lawyers, businessmen, etc. for dictation while driving. Rich full sound from self-contained 6" oval dynamic speaker. Built-in telescopic "whip" antenna for FM reception. Ferrite core for AM. Features continuous tone control. AFC on FM. Easy vernier tuning. Hours of commercial free entertainment by simply inserting a pre-recorded tape cartridge. Or make your own from the radio itself. An amazing achievement. Enjoy FM music, AM music or recorded tapes..., in car or out. Has 17 transistors plus 10 diodes. Size 11" W. 31/2" H. 11" D. Complete with 5 "D" cell batteries; earphone, microphone and C60 Cassette.

|     | g. Wt. 11 | Ibs.<br>Model RF-7270 | Each   |                                     | \$99.95 |
|-----|-----------|-----------------------|--------|-------------------------------------|---------|
| No. | 31A2521.  | Car Bracket for       | above. | Model AS-403. Eac<br>Model RD-9742. |         |



### \$1995

-

\$1395

### **(1) PANASONIC 7-TRANSISTOR SHIRT-POCKET PORTABLE RADIO**

Handsomely styled and very sturdy. The ideal personal radio to carry with you everywhere. Finest powerpacked superheterodyne circuit, 7 transistors, 1 diode provides fade-free, brilliant reproduction from the speaker or private earphone.

### **② PANASONIC CAMERA STYLE FM/AM POCKET RADIO**

(3) PAINASUMU CAMERA STILE FM/AM FOCKET MADIO This power-packed beauty provides sparkling performance , , and a unique new look that's truly eve-catching! Real station getting ability from super-heterodyne circuit with 9 transistors plus 6 diodes. 2½" PM dynamic speaker with tone control and push-pull audio output for fine tone quality. Tele-scoping swivel whip antenna disappears into leather like case. Size only 2¼x5x1½". With battery and earset, Shpg. Wt. 2 lbs. **\$29.95** No. 36A3501. Model RF526. Import. Black, Each

### (3) PANASONIC SOLID STATE AC/BATTERY PORTABLE RADIO

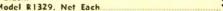
For those who want the finest sound in a portable! 4 Inch dynamic speaker provides full rich tones, Hi-Lo tone control allows adjustment to listeners preference. Handsome travel case design highlighted by vertical slide rule

Built-in ferrite core antenna, backed up by 8 solid state devices, picks up distant stations. Complete with built-in AC power supply. UL listed. Weighs 2 lbs, 10 ozs, Size  $7\frac{16}{16} \times 5\frac{1}{2}$  x  $3\frac{1}{6}$ . Complete with AA pencell batteries and earphone. Shpg. Wt, 4 lbs. \$19.95

### PANASONIC CAMERA STYLE AM PORTABLE RADIO

Deluxe leatherette camera styling makes this portable radio a stand out, Sensitive ferrite core antenna pulls in signals loud and clear for unsurpassed

Sensitive territe core anishing pairs in a part of the source of the so

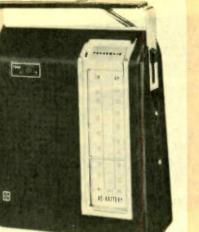


### PANASONIC SOLID STATE MINIATURE FM/AM PORTABLE RADIO

This luxury miniature AM/FM radio is tastefully designed in midnight black grained finish and beautifully accented in silver. The easy to see vernier tuning dial permits instant AM or FM station selection. FM telescopic whip and AM ferrite core antennas pull in both local and distant FM and AM stations loud and clear through the heavy duty 21/4" speaker for rich full bodied sound. Size 41/2" x  $31/3_2$ " x 1/2".

x 1/2". Complete with personal earphone for the listening and 9V battery. Shpg. Wt. 1 lb. No. 36A3508. \$19.95 Model RF619. Net Each....

# **PANASONIC** multi-band radios



### · Complete with AC power supply. Top quality . . . budget priced!

PANASONIC

SOLID STATE

FM/AM

RADIO

\$**29**<sup>95</sup>

This distinctively styled radio in black with silver trim has slide -rule dial for pin point tuning of FM and AM stations. Two step tone control provides true sound reproduction through heavy duty 3" dynamic speaker for excep-tional full-bodied sound. FM telescopic whip and AM ferrite core antennas glve this radio its great sensitivity for local and distant FM & AM stations. Size 61/2" x 51/2" x 21/2". With 4 AA batteries and earphone. Shpg. Wt, 21/2 lbs.

No. 36A3514, Model RF689, Net Each





### BATTERY OR AC OPERATION **18 SOLID STATE DEVICES**

Modern thin-line design enhances the beauty and performance of this versa-tile portable. Enjoy pleasing and satisfying tone quality from FM or AM, operates on 115 V or batteries. Big 4" oval speaker delivers full-bodied sound. Lighted Slide Rule Vernier tuning. Built-in Ferrite Core AM antenna, and a Telescope Whip Antenna, plus AFC provides drift-free FM reception. Black with Silver trim makes this radio look as good as it sounds. Complete with built-in AC adaptor, batteries, personal earphone, and carrying case. Size 41/8" H. x 81/8" W. x 11%" D. Shpg. Wt. 2 lbs. No. 36A3507. Model RF728. Each.

PANASONIC **FM-AM BATTERY/AC** PORTABLE RADIO



### 19 SOLID STATE DEVICES

\$3995

Our finest sounding FM/AM portable, with 19 solid-state devices for unex-celled selectivity and sensitivity. Rich, full bodied sound flows from the big 31/2" PM Dynamic speakers. Tremendous performer achieving brilliant life-like tone, Automatic frequency control keeps FM station locked in, no drifting. Telescopic whip antenna for FM, Ferrite Rod AM antenna. Complete with tone control, Vernier slide rule tuning, and earphone. Handsomely styled in Black leatherette case with silver trim. 51%" H, 33%" W, 23%" D. Operates on 4 AA Penlite batteries or 110-120 VA.C. Shop. \$39.95 No. 36A3500, Model RF738. Each.

PANASONIC FINEST FM/AM AC/BATTÉRY SOLID STATE PORTABLE RADIO \$4995

Ultra modern styling with superior sound makes this AC/Battery FM/AM portable radio truly representative of Panasonic quality. Features Panasonic's exclusive slide lever controls with easy-to-see illuminated slide rule tuning. Panasonic motional feed back system. This sophisticated engineering system makes for particularly ultra smooth low frequency response. Reproduces "concert hall" sound with superb fidelity through a heavy duty 5" PM dynamic speaker that pours out rich full bodied sound in a full tonal range. Assures unsurpassed music reproduction. AFC or FM locks in signals for clean crystal clear, drift free reception. Complete with ear phone, 4 "C" batteries and gift box 93, x3 x 61%," Shpg. Wt. 5 lbs. No. 36A3516. Model RF759. Each

No. 36A3516. Model RF759. Each

PANASONIC AC/BATTERY **MÚLTI-BAND** RADIO UNIQUE ROTO DIAL BUILT-IN MULTI-BAND ANTENNAS **\$99**95

Listen to the world's broadcasts with Panasonic's new traveler. Six bands VHF-FM 136-174 MC, Air-AM 108-136 MC, FM 87-108 MC, AM 525-1605 KC, MB 1.6-4.5 MC, SW 9-18 MC. Gives a world of listening pleasure on regular house current or batteries. Panasonic slide controls for bass, treble, and volume make operation precise and easy. Fine tuning knob brings in the most distant stations crystal clear. AFC for drift free FM performance. Squelch control filters out static interference for superb sound. Heavy duty 5" PM dynamic speaker for unsurpassed reproduction. The space saving roto-dial makes for complete lightweight portability. This handsomely styled radio comes complete with 4 "C" batteries, earphone, and antenna lead. Size 8½ x 11½ x 33¼". Shpg. Wt. 8 lbs. No. 36A5015. Model RF1600. Each



# PANASONIC

### the "hallmark" of table model radios

**LUXURIOUS** DESIGN PANASONIC

### FM/AM AND **FM STEREO** TABLE RADIO

DISTINCTIVE MIDNIGHT BLACK CABINET ACCENTED WITH WALNUT WOOD TOP

## <sup>\$6995</sup>

MODEL RE-7300

Perfectly matched twin 5" dynamic speakers pour out rich resonant sound in a full tonal range—up to 6 watt peak music power to assure unsurpassed music reproduction. Convenient "stereo" indicator lights up to tell you when

FM stered is being broadcast. Continuous tone control that provides a perfect bass/treble balance for the sound most pleasing to your ear. AFC on FM locks in signals for crystal-clear, drift-free reception of the station of your choice.



### PANASONIC FM/AM TABLE RADIO

The low profile styling of this Panasonic radio is a pleasing addition to the contemporary scene. A full range 4" dynamic speaker delivers true tonal quality, Built-in FM and AM antennas pull in signals loud and clear. AFC on FM locks in signal for crystal-clear reception. Size  $12" \times 5\%$  \* 4% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3% \* 3%



#### **PANASONIC "THE ALEXANDRIA"** LOW SILHOUETTE FM/AM TABLE RADIO \$3995 WITH DISTINCTIVE SLIDE-RULE TUNING

Handsome walnut wood cabinet ..., for rich appearance and full-bodied sound. Designed for outstanding performance. Has 14 solid state devices. Offers illuminated slide-rule tuning with a "black-out" face to enhance its smart design. Features a front-mounted 4" dynamic speaker, continuous tone control, AFC on FM. Operates on 115 VAC. Size 145%" W. x 5%" H. x 6 15/16" D. 6 \$39.95 No





With the Panasonic slide touch stereo balance control you can control the precise amount of sound in each speaker for the ultimate in balanced stereo. When not in use the dial face appears solid black and blends in  $\checkmark$  th Fanasonic's custom design for that touch of total elegance. Fm antenna built into line cord for added convenience. Size 211/4 x 71/6 x 6". Shop. Wt. 121/2 lbs. Solution 12/2 lbs. Solution 1



Gracetully designed in walnut grain flnish with a champagne gold grille accented in silver. A heavy duty 5" Dynamic speaker assures strong full-bodied sound. Unique slide touch volume control. Two position tone control. Built-in AM/FM antennas for local and distant stations. **\$34** 95 \$34.95 No. 36A6512. Model RE-7329. Each.



### **PANASONIC HIGH FIDELITY** FM/AM TABLE RADIO IN BEAUTIFUL WALNUT CABINET

You will be amazed by the depth and beauty of sound provided by this irresistible table radio. Extra powerful  $6\frac{1}{2}$ " dynamic speaker and 3 watts of power output for unusually fine tone. Quality engineered solid-state chassis with 10 transistors, 7 diodes, 1 rectifier. Tuned RF stage and AFC for improved drift-free reception. Built-in FM/AM antennas. Continuously variable tone control. Slide-rule dial with logging scale for pin-point tuning. Measures  $9\frac{3}{16} \times 17\frac{3}{16} \times 5\frac{16}{16}$ . Shop, wt.  $9\frac{1}{2}$  lbs.

\$4995



FM/AM-FM STEREO RADIO WITH SEPARATE SPEAKER SYSTEMS



NOW ADD RECORD PLAYING OR 8 TRACK STEREO TAPE OR BOTH FOR A COMPLETE STEREO HIGH FIDELITY MUSIC SYSTEM

- Stereo phone output jack. All solid state, 21 transistors, 13 diodes. Beautiful solid walnut cabinetry. 12 watts of music power.
- Striking illuminated tuning dial.

As beautiful to look at as it is to listen to! Handsome, matched walnut speaker systems fit anywhere . . . in bookcase, on table, or may be hung on wall

Permits fullest stereo separation, taking advantage of matched and balanced 61/2" console type speakers. Exclusive stereo eye system permits pin-point FM stereo tuning. Built-In FM automatic frequency control assures sharp drift-free reception

Features Volume, separate Bass, Treble and Balance controls to take fullest



A SOLID STATE FM/AM STEREO RADIO AND SUPERB 8-TRACK STEREO TAPE PLAYER

• 41 SOLID STATE DEVICES SOLID STATE WALNUT CABINETRY

Particular about design? Demanding of performance? Critical of features? The "The Symphony 8" will please you. Enjoy the finest in FM/AM radios with beautiful illuminated slide rule tuning. Your sensitive ear will thrill to "Concert Hall" sound from 4 perfectly balanced speaker systems. Just check these professional performance features: Exclusive black-out dial—Iights up when you turn the set on. Separate bass and treble tone controls. Stero balance control, lighted program source selector and unique lighted stereo multiplex Indicator. Also a special FM stereo selector position which allows only multiplex broadcast stations to be heard. Has tuned RF stage. Built in AFC on FM. Self-contained FM and AM antennas.

### PANASONIC "THE MUSIC MASTER 8" STEREO 8-TRACK TAPE CARTRIDGE MUSIC SYSTEM

Exceptionally fine quality tape system is especially designed for high fidelity reproduction of stereo 8-track cartridge tapes as used in auto-mobile players. 24 solid state devices deliver 16 watts music power for beautiful room-filling sound. Freq. response 50-12,000 cps. Push-button channel selector with lighted indicators permits easy fingertip selection of channel desired. Tapes play continuously ... no rewinding or thread-ing needed. Has precision balance control and bass/treble tone control. Jacks provided for use of stereo headphones. Also for use of radio tuners and record players (crystal and magnetic). Control/player unit measures 16½" W. x 4" H. x 9" D. Separate walnut speaker systems measure. 8½" W. x 11½" H. x 5½" D. 115 V. 60 cy. AC. Shpg. wt. 21 lbs.



**RS800AS Tape Unit. Net Each** 



SEPARATE SPEAKERS FIT BEAUTIFULLY ANYWHERE

advantage of radio performance. Has tape and phono inputs and record outputs.

Built-in line cord FM antenna and ferrite core AM antenna fcr super sens tive reception

Dimensions: 16%x3½x7½%". Speakers 8½x8½x10". Operates on 115 V 60 cy. AC. Shpg. wt, 20 lbs. Import Special. No. 36A9006. Model RE7670. Net Each



• 18 WATTS OF MUSIC POWER • FREQUENCY RESPONSE 50-14,000 Hz

Superb quality 8 track tape player. Features push-button channel selector, lighted channel indicators, and a stereo headphone input jack. Enjoy the pleasure and ease of the popular pre-recorded 8 track stereo tape cartridge. A sliding panel covers the cartridge receptacle to preserve the beauty of its uncluttered design. With rich walnut handcrafted cabinets, "The Sym-phony 8" is truly designed and engineered for particular people. 115 V. 60 CY. AC. Size—Control Unit—181/2" W. x 6<sup>1</sup>/<sub>24</sub>" H. x 11<sup>1</sup>/<sub>24</sub>" D. Speakers— 9<sup>3</sup>/<sub>31</sub>" W. x 8<sup>1</sup>/<sub>4</sub>" H. x 12<sup>1</sup>/<sub>40</sub>" D. Shpg. wt. 31 lbs. Not Sach. Signed RE-7070. Signed S Net Each



Low slim modular design will complement the finest hi-fidelity system. Dis-tinctively finished in wood grain and silver trim. Simply plug into any stereo Hi-Fi system and you can enjoy hours of listening pleasure. Features instant program selection, simply push the program selector button and select the channel of your choice. Shop, wt. 9 lbs. \$49.95 \$49.95 No. 31A7517. Model RS802US. Net Each.

# PANASONIC ... FINEST QUALITY CLOCK RADIOS



### **PANASONIC ADVANCED DESIGN** FM/AM DIGITAL CLOCK RADIO

### IN LUXURIOUS WALNUT WOOD CABINET

IN LUXURIOUS WALNUT WOOD CABINET This exciting digital clock radio is loaded with the most unusual features and sets the pace for years to come, Lulls you to sleep with up to 60 minutes of your favorite music or program and then shuts itself of automatically. In the morning it automatically turns itself on again to wake you with either music or buzzer alarm. Even if the personal earphone is still plugged in from the night before, the radio will automatically switch to full speaker sound to awaken you to brilliant full bodied music. The separate dials for FM and AM tuning light-up independently to tell you at a glance which band you are receiving. Continuous fone control gives perfect bass/treble balance. AFC on FM locks in signals for crystal-clear, drift-free reception. Shpg. wt. 6½ lbs. Size 121% x 63% " x 4%". Complete with ear-phone.

in signals for Shpg. wt. 6½ phone. No. 36A8016.

Model RC-7469. Each.

\$59.95



### PANASONIC FUTURISTIC AM CLOCK RADIO

\$1995

Uniquely designed with full size clock face, making time telling easy. Ultra-sensitive AM radio with built-in antenna gives crystal clear reception. Heavy duty  $2\frac{1}{4}$ " dynamic speaker for full-bodied sound. Westclox clock for greater accuracy. Solid state engineering for reliability. Size  $6\frac{4}{8} \times 3\frac{1}{4} \times 5\frac{5}{8}$ ". Shpg. wt.  $2\frac{1}{2}$  lbs. Choice of Three Decorator Colors: Antique White, Tan or Avocado No. 36A8019. Specify Color. Model RC-1089 Fach

\$19.95 Model RC-1089. Each

### PANASONIC SPACE AGE FULL FEATURE AM CLOCK RADIO \$2495

Advanced design clock radio wakes you gently to music or by alarm and lulls you to sleep with up to 60 minutes of music then turns off automatically. Unique two-level night light. Just gently hold down the night-light button and the clock face returns to its soft illumina-tion. Built-in antenna for sensitive AM recep-tion to deliver strong, pleasing performance through the heavy duty 3" dynamic speaker. Size: 4%, x 10%, x 6%". Shog. wt. 4 lbs. Choice of Warm Belge or Antique White. No. 36A8020 Specify color. Model RC-1119. Each

### PANASONIC FM/AM **CLOCK RADIO**

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\$3295

Simplicity in design keynotes the contemporary look of this unusual FM/AM clock radio. West-clox clock movement wakes you gently to music. Built-in antennae pull in both local and distant FM and AM stations loud and clear through heavy duty 21/2" full range dynamic speaker for full-bodied sound. Size: 41% x 87% x 57%;". Case finished in decorator antique white. Shpg. wt. 31/2 lbs. No. 36A8015. S32.95

Model RC-7119. Each

1 6



\$4995

PANASONIC FM/AM FULL FEATURED **CLOCK** RADIO

\$3995



Distinctively tapered styling in a tasteful blend of wood grain, decorator black with white trim will enhance any room decor. Full feature telechron clock movement wakes you gently to music or by alarm, and lulls you to sleep with up to 60 minutes of music then turns off automatically. Easy to see luminous clock hands. Built-in antennae for FM and AM with AFC on FM for drift-free reception through heavy duty 4" full range dynamic speaker. Shpg. wt. 41/4 lbs. Size 5<sup>11</sup>/<sub>2</sub>," x 10<sup>2</sup>/<sub>21</sub>" x 4<sup>3</sup>/<sub>21</sub>". No. 36A8014. Model RC-7538. Each





### STATE/INSTANT SOUND **CLOCK RADIO**

14 solid state devices and solid walnut cabinet purposely engineered and completely matched to achieve unbelievably thrilling sound---yet the convenient  $12V_2x5V_8x7V_4$ " small size invites its use anywhere in your home as a clock radio ... as a table radio ... as a mantel clock adding a touch of elegance to any decor elegance to any decor.

Finest quality features include: Slide-rule precision tuning dial. Full feature Telechron clock ... Iulls you to sleep and turns itself off ... next morn-ing you awaken to lovely FM or AM music. Lighted clock face and alarm set indicator. Powerful 4" FM dynamic speaker and built-in antenna for both drift-free FM and AM. Push-pull audio circuitry. High sensitivity-and very low power consumption. 117 V. 60 cy. AC. Shpg. wt. 6 lbs. No. 3648000. Import Special. Each \$49.95 No. 36A8000. Import Special, Each.

# PANASONIC ... WORLD FAMOUS TELEVISION

**PANASONIC "THE CLEARVIEW"** PORTABLE TV 38 SQ. INCH VIEWING AREA-ALL CHANNEL VHF-UHF TUNING

HANDSOME LOW-PROFILE DESIGN



True horizontal styling complements its miniature compact size. Even the handle is retractable to disappear from sight and preserve the fine clean lines. The control panel with its integrated arrangement of all controls, is a pleasing contrast to the two-tone decorator color scheme of Beige and Brown, 90° Deflection Aluminized Picture Tube delivers sharp picture detail. Built-in VHF and UHF Antennas. Has "Set and Forget" VHF Tuning, requires adjustment only once for each channel. Covers channels 2-13 VHF, 14-83 UHF, Has 11 tubes plus picture tube and 10 solid-state devices. Has front facing 3" heavy-duty PM Dynamic Speaker. Size: 9½" H, 13¾" W, 10½" D. Wt, 11 lbs. 8 oz. Shpg. wt. 15 lbs. \$74.88 No. 39A410. Model AN-109. Each.



### PANASONIC "THE LONGVIEW" PORTABLE TV \$109.95

USE IT ANYWHERE ... OPERATES ON REGULAR AC, BATTERY, CAR

ON REGULAR AC, BATTERY, CAR Miniature size, compact . . . travels wherever you go! 38 square inch viewing area with dark tinted glass that reduces glare and reflections and gives a sharp, clear picture Indoors or out. Aluminized picture tube for maximum contrast. Large 4" dynamic speaker delivers full, rich sound anywhere. All controls up front to permit convenient, instant tuning. Built-in VHF and UHF Antenna for the true portable signal strength. Sleep Timer-Switch of up to 00 minutes. Earphone included. Optional snap-on battery pack allows convert-Ing in seconds to "Take-Along" entertainment. No bulky battery ... snaps on and becomes part of TV, 8½" H. x 133%" W. x 95%" D. Midnight black with silver trim. 120 V. 60 cy. AC. Wt, 12 lbs. No. 39A439. Model TR429B.Ea. S109.95 No. 39A439. Model TR429B.Ea. S34.95 12 V. DC Cord. Fits cigarette lighter.

No. Each ..\$34.95 h V. DC Cord. Fits cigarette lighter. 39A406: Model TY192, Each \$8.95



### PANASONIC "THE WYCOFF" PORTABLE TV

### \$84.88

### 75 SQ. INCH VIEWING AREA ATTRACTIVE CONTEMPORARY DESIGN

Another example of fine contemporary design, which makes a pleasing addition to any decor. A unique collapsible carrying handle and sym-metrically balanced controls enhance its simple uncluttered lines. 110° deflection aluminum-ized picture tube delivers sharp detail with maximum contrast. Speed-O-Vision, sound and picture come on the instant the set is turned on.

on. Features Set 'N Forget VHF Tuning that re-quires only one adjustment for each channel. The 31/2" heavy duty dynamic speaker is pur-posely front-mounted to insure forward pro-jection of full range resonant sound. 120 V. 60 cy. AC. Size: 12" H, × 17" W, × 111/2" D. Shpg. wt. 16 lbs. No. 39A434. Model AN72. Each \$84.88

Nasona

### PANASONIC "THE BUXTON" FORTABLE TV \$119.95

184 SQUARE INCH VIEWINC AREA 114° DEFLECTION ALUMINIZED PICTURE TUBE

PICTURE TUBE. Smart contemporary design in decorator Mist Crey accented in silver. Compact size with clean-lined vertical tuning panel that contains all controls in a well-balanced arrangement. The carrying handle for your convenience does not distract from its styllsh simplicity. Fine sound from front facing 3½" heavy duty PM Dynamic Speaker. Offers all channel re-ception 2-33. Has 'Set 'N Forget'' VHF tuning knob that requires adjustment only once for each channell. Engineered to the finest specifications with 13 tubes plus picture tube and 7 solid state de-vices, built-in antenna for VHF and UHF. Size: 161%" H. x 223%" W. x 143%" D. Weighs only 35 lbs. Operates on 120 V. AC. Shpg. Wt. 49 lbs. No. 39A437. Shpg. Wt. 7 No. 39A437

Model AN169D, Net Each.

\$119.95

"THE OAKRIDGE" BATTERY/AC MINIATURE PORTABLE

Each 12 V.

PANASONIC

**16 SQUARE INCH VIEWING AREA** ALL SOLID STATE 70° DEFLECTION ALUMINIZED PICTURE TUBE

Now take TV with you wherever you go! Operates on self-contained Panasonic rechargeable batteries, from 120 V. AC or from car battery with optional adaptor cord. Batteries can be recharged while viewing set on house current. Indicator on front of set tells you at a glance conditions of battery. The aluminized picture tube delivers sharp picture detail and features a special dark tinted glass which reduces annoying glare and reflection. Slide rule UHF tuning for unsurpassable ease in selecting favorite programs. Convenient control knobs on top per-mit easy adjustment for maximum performance. Built-in UHF and VHF antennas, so important for true portable

reception. With automatic anti-interference

This totally Solid-State set comes in decorator black, accented in silver trim and features a fold-down handle for easy carrying. Snap-on front cover plate to protect screen, Size  $91/2^{\circ\prime\prime}$  H, x  $71/6^{\circ\prime\prime}$  W, x  $81/2^{\circ\prime\prime}$  D. 120 V. 60 cy. AC or self-contained battery operated. Shog. wt. 14 lbs. No. 39A438. Complete with batteries and Earphone. Model TR415B. \$129.95

12 V. DC Cord. Fits cigarette lighter. No. 39A425. Model TY195P. Each

\$8.95







### PANASONIC "DECORA" PORTABLE TV WITH DIGITAL CLOCK

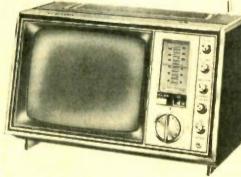
• BUILT-IN AUTOMATIC TIMER. • DETACHABLE BLACK SCREEN FOR MAXIMUM CONTRAST.

## **\$99**<sup>95</sup>

With trim-line design to grace the most elegant decor ... Panasonic presents the "Decora". Its distinctive easy-see digital clock with 3 hour automatic timer makes it an outstanding advance in leisure television viewing. It features one-touch On-Off power switch, Speed-O-Vision for instant picture and sound. Precision sliding vertical controls for contrast, brightness, and volume, Bow-tie antenna for UHF and telescopic antenna for VHF. Convenient carrying handle molded in cabinet.

11 tubes plus 8 solid state devices, 3 inch round dynamic speaker with earphone jack, Size 9¾" H. x 15" W. x 11" D. Shpg. wt. 16 lbs.

| No. 39A433.   |     | Fach \$99.95 |
|---------------|-----|--------------|
| Model AN409T. | Net | Each         |



### PANASONIC "THE SILVERLAKE" AC/BATTERY PORTABLE TV

38 SQ. IN. VIEWING AREA.
BUILT-IN FM/AM RADIO.
51 SOLID STATE DEVICES.

**\$129**<sup>95</sup>

A portable miniature entertainment center! A truly compact TV that travels with you everywhere, coupled with a rich sounding FM/AM Radio, for total enjoyment. No separate bulky battery pack with the Silverlake ... It converts instantly to "Take-Me-Along" entertainment with Pansonics optional snap-on TV battery. Other Pace-Setting features are Aluminized Picture Tube, with a dark tinted glass to reduce glare and reflections, Slide Rule AM-FM and UHF tuning, and VHF Selection Knob conveniently located up front to permit Instant tuning. Special earphone for private listening pleasure included. Distinctively designed in Charcoal-Brown, accented with Silver trim. Size: 93%" H x 127%" W x 107%" D. 120 V. AC. or Battery operation with optional pack listed below. No. 39A418. Wt. 12 lbs. \$129.95 Model TR339. Each. No. 39A409. TyTOOP Snap-On-Battery. Each. \$34.95

### PANASONIC ADVANCED AC/ BATTERY PORTABLE TV

 COLLOID-TYPE BATTERIES.
 DETACHABLE DARK TINT GLASS FOR ADDED CONTRAST.



Beautiful trim-line styling in Midnight Black with Silver Trim , . . plus battery/AC operation makes this set the completely portable quality TV!

Features aluminized picture tube, detachable dark-screen glass and Speed-O-Vision. Operates on advanced Colloid-type batteries with battery charge lamp. Equipped with precision slide controls, dynamic front mounted speaker, and earphone for private listening.

Battery life over 500 hours with 3.5 hours of un-interrupted viewing without charging.

Size: 12%" H, x 10" W, x  $9\frac{1}{2}$ " D. Weight:  $16\frac{3}{8}$  lbs. (with battery).

No. 39A440. With earphone. Model TR449. Net Each

\$149.95

# SHIBADEN VIDEO SYSTEM AND CCTV DEVICES



#### Model SV-800U

Model SV-800U is a self-contained, high quality Model SV-BOUL is a sen-contained, high quality and moderately-priced solid-state Video Tape Re-corder featuring a built-in 9-inch Receiver/Moni-tor, and Audio-Video Modulator, and designed especially for business, industrial, educational and home usage.

The SV-800U can be used to record "live" action in sight and sound using a Shibaden CCTV camera, or record directly off-the-air both the video and audio portions of any standard TV broadcast through its built-in Receiver/Monitor. The built-in Audio-Video Modulator allows taking out a signal modulated to an unoccupied TV channel frequency, following the mixing of audio and video signals, so that conventional TV re-ceivers easily accept the reproduced signals through their antenna terminals.

Employing two rotary heads and operating on the helical scan recording principle, SV-800U delivers more than 300 lines in horizontal reso-lution, 40 db in signal to noise ratio, and guar-antees complete tape interchangeability from one SV-800U to another, or SV-700 series. Dimensions: 30" W.x [1" H.x 171/<sub>2</sub>" D. Weight: 75 lbs.

Model SV-800U Each

Model SV-700U is identical to the SV-800U, except it does not contain the built-in monitor-receiver. The SV-700U is an excellent unit for field or studio recording. Compatible with all Shibaden cameras, monitors or studio equipment. Dimensions: 183%" W. x 10%" H. x 15%" D. Wt. 52.8 lbs. \$995.00

Model SV-700U. Each



Model TU-19UL

Shibaden's Model HV-15 is a high quality, mod-erately priced vidicon television camera utilizing specially selected silicon transistors for compact-ness and superior picture pick-up capabilities. It is ideally sized and priced for budget-minded educational institutions, government agencies and small businesses for use in an almost unlimited variety of CCTV and Video Tape Recording

situations. For maximum versatillty, Model HV-15 is equipped with the standard "C" type lens mount which accepts wide-angle, telephoto, zoom and 16 mm movie lenses, or almost any desired opti-cal system. With a guaranteed Video Standard Resolution in excess of 600 lines and a built-in Automatic Light Control circuit, Model HV-15 offers better reproduction, more versatility and a longer life of service than many of the larger, higher priced vidicon television cameras on the market.

market. Illumination range: 50-100,000 LUX. Sync: Line-random interlace. Output: Composite video, 1.4V @ 75 ohms or VHF CH2-CH6. Dimensions: 4" W. x 61/2" H. x 101/2" D. Weight: 7 lbs. Model HV-15. Z:1 Interlace for external sync. S525 00

functions as a conventional of the receiver. Model TU-19UL is housed in an attractively styled cabinet designed to withstand rugged com-mercial abuse and color-coordinated to match the Shibaden SV-700U Video Tape Recorder. The TU-19UL is compatible with all Shibaden VTR and CCTV equipment and will give per-formance in any CCTV system using RF or where .7.to 2. VPP Video signal is available. Dimen-sions: 191%, W.x. 191%, H. x. 13%, D. Weight: 55 lbs. \$250.00 \$250.00

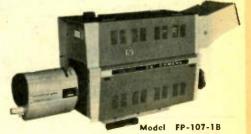
Model TU-19UL. Each.

#### WRITE DEPT. CCTV

For complete information and recommendations. B-A has Scanners, Tripods and complete accessories.



Model VM-502



Model VM-502 is a 70° deflected, 5-inch CRT Video Monitor incorporating special silicon tran-sistors and high voltage rectifiers within its cir-cuitry for high stability and efficiency. Intended for use in closed circuit television and commercial broadcasting applications, it features bright and stable picture reproduction (500 lines of horizontal resolution), low power consumption (20VA), and is designed for fast and easy main-tenance. Only 6 inches wide, Model VM-502 can be mounted (up to 3-abreast) In the standard 19-inch rack.

### JAVELIN MC-920 MINI TV CAMERA

CLOSED CIRCUIT TV FOR HOME OR BUSINESS SURVEILLANCE & SECURITY

- Works with any TV set or commercial monitor. Simple installation and use by
- .
- anyone.
- Automatic through the lens light • compensation.

compensation. Modern Solid State Miracle! Very small size and simple foolproof operation makes it an ideal choice for business or home surveillance systems. Con-nects to any TV set or commercial monitor using 75 ohm coaxial cable, over distances up to 2000 feet. Through-the-lens automatic light control system, sharp F1.8 19 mm. "D" mount lens and electronic focus provides excep-tionally clear image. Horizontal video resolution 450 lines. Uses  $\frac{1}{2}$  vidicon 20PE-11 pickup tube, 21 transistors and 16 diodes, random interlace. Am-bient temperatures 140 to 118°F. Power source AC117V 60 Hz. Case size,  $\frac{23}{4}$ " W. x  $\frac{43}{4}$ " H. x  $7\frac{1}{4}$ " L. Has standard  $\frac{1}{4}$ " tripod socket. Use match-ing transformer below when viewing with a TV set. No. 66A208, Wt. 4 lbs. Each.

\$1295.00

| <ul> <li>Universal Swivel Wall Bracket. All chrome, adjustable mount for</li></ul> | TV cameras   |
|------------------------------------------------------------------------------------|--------------|
| above. Makes installation easy, neat and professional. Base mtg.                   | flange 21/4" |
| dia, Made of 1" dia. tubing. <li>No. 66A210. Wt. 2 lbs. Net Each.</li>             | \$17.75      |
|                                                                                    | \$5.50       |

WW. . .

DELUXE **JAVELIN MC-930 CCTV CAMERA** COMPLETE WITH LENS \$29950

A very high quality all solid state electronic camera. Designed for the most exacting picture quality, yet priced so low that even the smallest business can own one. There is no better method for preventing shop lifting and thievery.

Installation is simple and can be done by anyone. Connects to any home TV set or to a commercial monitor a few feet or up to 2000 ft. away using a single TV type RC59U coaxial cable. Picture is received with TV set tuned to channel 5 or 6.

Specifications. Dual focusing standard "C" lens mount, high quality F 1.4 25 mm, click-stop lens, 1" vidicon 7262A pickup tube, random interlace scanning, horizontal resolution more than 550 lines, vertical resolution more than 350 lines. Ambient temperatures 140 to 118°F. Output impedance 75 ohms. Output level 1.4V PP video 30 V RF. Power source AC 117V. 60 Hz. 11 watts. Case size: 31/2" W. x 51/4" H. x 93/4" L. Has standard tripod socket. Wt, 6 lbs. Use matching transformer at left when viewing with a \$299.50 TV set

No. 66A209. Net Each.



4 1bs \$17.95

58

\$2.49 No. 41A4045, Imported, Special Ea...

Shpg. wt. 8 ozs.

### LOW COST INTERCOMS FOR EVERY NEED **DEPENDABLE STEP-SAVING COMMUNICATIONS SYSTEMS**

\$1450

HANDY FOR CAMPER-TRAILER

BATTERY

**OPERATED** 

MODEL

\$9.95

\$2495

1200



**AC OPERATED 2-STATION** WIRED INTERCOM

Ultra-sensitive 3-transistor units with high-gain push-pull amplifier circuit produces fine voice clarity through 21/2 inch speakers. Saves steps ... time ... adds security, safety and convenience. Ideal for office, factory, store, baby-sitting or slck room. In-cludes UL listed power supply. May be powered by battery if desired. Just plug master into any AC outlet. Both Master and Remote have unique "Beep Signal" circuitry and can sig-pal one another even when system is off, Attractive high-impact styrene cabinet, suitable for table or wall use. 50 ft. of cable included. For AC operation. Shgg. wt. 21/2 lbs. Mfg. List \$16.95. No. 32A405.

Model EC-3A. Net, Per Set \$14.50. No. 32A418. Like above except for battery operation only. \$9.95 Per set



### **NEW IMPROVED** WIRELESS INTERCOM

Works where others fail! Just plug units into standard AC outlets and start talking. Fully transistorized, no warm-up necessary. Move them from room-to-room, even between houses (as long as they are on same power line). line)

line). Perfect for baby listening. Picks up every sound the baby makes. Ideal for business use, put one on your desk, the other in the stockroom, of-fice, garage, etc. Operates for only fice, garage, etc. Operates for pennies a week.

pennies a week. Has special bullt-in squelch circuit. Units are housed in attractive brown high-impact styrene cabinets  $3 \times 4 \times 2''$ . Each unit has a press-to-talk but-ton and slide lock for continuous talking, on-off volume control and pilot light. Shpg. wt.  $1\frac{1}{2}$  lbs. No. 32A409. Fanon Model EW-3A. Net Per Set

### TRANSISTOR POWERED MEGAPHONE

Amplifies voice clearly up to 200 ft. 

### WORNER ELECTRONIC RECEPTIONIST



Compact single unit with exciter lamp, photo-cell tube, and two lenses. Projects a beam of light across any entrance from 3 to 20 ft, in daylight. Mirror reflects beam back into photocell. Breaking of this beam by any person or moving object operates built-in relay which in turn sounds chime furnished. Perfect for professional offices, stores, factories, homes—anywhere. Crey hammertone metal case, size only 8%x6½x2½%". For 115 volts, 60 cy. AC. Shpg. wt. 8 lbs. \$\$56.25\$ No. 41A4039. Model 61. Net Each. \$\$56.25\$ No. 41A4040. Replacement Exciter Lamp. Net Each. 66







AMERICAN MADE

\$8.99





O

Ultra-sensitive intercom with 3-tran-sistor circuit with high gain, push-pull amplifier for quality sound. Bullt-In AC power supply. Talk-Listen switch with Talk-Lock position for dictate. Beeptone circuit to signal master even when system is off. Volume control, On-off switch. Smartly finished. 21/2" speaker. For use with Remotes below. Each of the four Remotes may be spoken to individually. Overall size 43% x 51% x 11/2". Wt. 11/2 lbs. Supplied less connectors and cable. (In No. 32A406. Model 161. Outdoor Remote (In No. 32A407. Model 161. Outdoor Remote No. 32A408. Model 162.

| Outo | loor kem   | ote      |                                 |          |
|------|------------|----------|---------------------------------|----------|
| 3 N  | o. 32A408  | . Model  | 162.                            |          |
| Indo | or Remot   | te       |                                 | \$5.95   |
| 2-C  | anductor C | able wit | h Plug.                         | Requires |
| one  | between    | remote   | and ma                          | ster.    |
| No.  | 32A400.    | 50 Ft    |                                 | \$2.00   |
| No.  | 32A401.    | 100 Ft   | • • • • • • • • • • • • • • • • | \$3.40   |
| -    |            |          |                                 |          |



FANON NO WIRES TO RUN... Just plug units into standard AC outlets and start talking. Fully transistorized, no warm-up necessary. Move them from room-to-room, even between houses (as long as they are on same power line). Perfect for baby listening. Picks up every sound the baby makes. Ideal for business use, put one on your desk, the other in the stockroom, office, garage, etc. Operates for only pennies a week. Has special bullt-in squeich circuit. Units are housed in attractive brown high-impact styrene cabinets 3 x 4 x 2". Each unit has a press-to-talk button and slide lock for continu-ous talking, on-off volume control and ous talking, on-off volume control and pilot light.

No. 32A422. Wt. 1½ lbs. \$33.95 Model 1642. Net Per Set., \$33.95 No. 32A446. Single Station for above. Each \_\_\_\_\_\_\$17.95



### "GUARD ALL" BURGLAR ALARM

### PROTECTS DOORS, WINDOWS AND PASSAGE WAYS AGAINST INTRUDERS

Now ... a fully portable battery operated burglar alarm. Consists of a small 5" high all metal unit contain-ing a gravity operated switch, battery and a very loud alarm device that can be heard 100 feet away. Entire unit tips over easily when touched. Can be rigged to cover windows or large areas by simple thread "trip" lines. areas by simple thread "trip" lines. Alarm sounds continuously and does not turn off when unit is righted. Hidden switch stops sound. Requires I standard "D" flashlight battery for power. Mfg. List. \$12.95. Shpg. wt. 1½ lbs. No. 41A4049. Net Each \$9.72 \$8.64 Each

### FULLY TRANSISTORIZED AUTOMATIC "ON-GUARD" BURGLAR ALARM

Produces Piercing Sound for 100 Fifts all doors--mounts in minutes-does not require external wiring. Completely self-contained system, housed in an attractive neutral sand-colored enclosure mounts on inside of door close to door frame. Positive acting magnetic reed switch Inside unit is triggered by external magnet mounted on door frame. Transistor control circuit allows you to leave through protected door without reset. Has key operated Off-On switch and "panic" button to sound alarm from inside without opening door. Wt. 4 lbs. Made in U.S.A. \$39.95 Produces Piercing Sound for 100's of Ft.







# **TALK-A-PHONE SOLID STATE INTERCOMS**





Long trouble-free operation.

- Solid state reliability.
- Modern slim-line low-boy design.

• Economical operation . . . uses

 less current than an electric clock.
 Compatible with all tube model Talk-A-Phone units.

\$46.95

Talk-A-Phone units.

### K-LC-2 TWO-STATION INTERCOM SYSTEM

Provides finest two-way communications with unmatchable dependability for continuous duty. Complete system includes a master station, a sub station and 50 ft, of cable. Additional cable of up to 2000 ft, may be added (listed below). Both master and remote can be set for private (one cannot "eavesdrop" on the other) yet either can originate calls, even in private setting. Remote in non-private position may be answered from a distance without switching. Only master need be plugged into 110-120V. AC or DC outlet. Master has volume control, talk-listen switch and pilot light. Housing is rugged charcoal grey vinyl finished steel case with brushed chrome face plate. Remote has only talk-listen switch, is same color as master but baked grained enamel finish. Master size: 3½gx10½x8¾". Sub. 2½gx7½x8¾". K-LC-2 COMPLETE 2-STATION SYSTEM with 50 ft, of cable. Shog, wt. 13

lbs. No. 32A423. Mfg. list \$79.95. Net

5303, 3-CONDUCTOR INDOOR CABLE for use where additional lengths are required between master and remote. Wt. per 100 ft. 1 lb. 4c No. 2A231. Mfg. list per ft. 7c. Net, Per Ft.

TALK-A-PHONE MULTIPLE STATION SYSTEMS



### AVAILABLE IN NORMAL POWER OR HIGH POWER MASTERS

Permits use of up to 5 remotes with KML-5 or K-AC-5406 master or up to 10 remotes with K-ML-10 or K-AC-5411 master. Master can talk and listen to any remote individually, more than one remote at once or to all remotes at same time. Remotes can originate calls to master, but cannot talk to each other.

K-LR-3M

Remotes can operate as private or non-private. When in non-private remotes can be answered from distance. Master is always private, and cannot be "eavesdropped on."

bayes on the master can be used in master remote systems. Master is only station that needs power. Masters size 101/2 " W. x 83/4" D. x 31/8" H. Wt. 7 lbs. Case is grey vinyl clad and brushed chrome. Remotes size 71/2" W. x 83/4" D. x 21/8" H. Wt. 41/2 lbs. Finished in grained baked enamel and brushed chrome. Wall mounting remote model K-LR-3R is 61/2 x 41/8 x 2" D. Two types of masters are available, one for normal noise areas (offices, etc.).

| K-ML-5 NORMAL POWER MASTER for up to 5 remotes. For 120 No. 32A426. Mfg. List \$78.50<br>Net Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 46.00     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| K-ML-10 NORMAL POWER MASTER for up to 10 remotes. Fo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
| AC-DC<br>32A428, Mfg. List \$96.00, Net Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 56.40     |
| K-AC-5406 HI-VOLUME MASTER for up to 5 remotes. For 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V. 60 cy. |
| K-AC-5411 HI-VOLUME MASTER for up to 10 remotes. For 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | V. 60 cy. |
| The second secon | 15.80     |
| JZATJI, Wig, List J20.7J, Wet Edu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15.80     |
| For cable requirements measure from master to each remote. C cable 5303 listed with two station system above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |





SUPER SELECTIVE ALL-MASTER SYSTEMS MFG. LIST \$78.50 \$46600 MOTHING

All master systems in either 5 or 10 station capacity. Available in normal power models for average room level or high volume models (10 times volume output of normal unit) for noisy and larger areas. Each master can call and converse with other masters, selectively and privately, (cannot be eavesdropped on by other stations) or hold conferences with 2 or more masters. Several 2-way conversations can be held simultaneously without interfering with one another. Each master controls incoming volume. Cabinets of Crey vinyl and brushed chrome. Normal power Masters operate from 120 V. AC on C. High power Masters operate from 120 V. AC only and cannot be intermixed with normal power models. For 5 Master System run 1 conductor cable listed below between Masters. For 10 Master System run 11 conductor cable thetween Masters. All masters and remote a  $10/6^{\prime\prime}$  W: x  $83/4^{\prime\prime}$  D. x  $3/6^{\prime\prime}$  H.

| K-LS-5 STATION NORMAL POWER MASTER. Wt. 7 lbs.<br>32A432. Mfg. List \$78.50. Net Each                                                                                | \$46.00                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| K-LS-10 10-STATION NORMAL POWER MASTER, Wt. 7 lbs.<br>32A434. Mfg. List \$96.00. Net Each                                                                            | \$56.40                  |
| K-AC-505 HI-VOLUME 5-STATION MASTER. Wt. 7 lbs.<br>32A433. Mfg. List \$96.00. Net Each.                                                                              | \$56.40                  |
| K-AC-510 HI-VOLUME 10-STATION MASTER. Wt. 7 lbs.<br>32A435. Mfg. List \$116.00. Net Each.                                                                            | \$68.00                  |
| 6 CONDUCTOR CABLE (5506) for connecting K-LS5 or K-AC<br>for indoor and outdoor use. Approx. O.D. 1/4". Wt. per 100 ft. :<br>No. 2A229. Net Per Ft.                  | -505 Master<br>B lbs.    |
| 11 CONDUCTOR CABLE (9911) for connecting K-LS10 or K-AC.<br>For indoor and outdoor use. Approx. O.D. 15". Wt. per 100 ft.<br>No. 24230. Net Per Ft.                  | 510 Master               |
| ACCESSORIES<br>FOR<br>TALK-A-PHONE<br>INTERCOMS                                                                                                                      | 3-<br>3-                 |
| <ol> <li>K-W1 Wall Mounting Brackets for Models K-LC-2, K-LR-3<br/>K-LR-2. Wt. 1 oz. per pair.</li> <li>32A445. Mfg. List \$1.00 Per Pair. Net Per Pair.</li> </ol>  | , к-lr-зм,<br><b>60с</b> |
| ③ K-HP-3 Hi-Power Remotes. With 8" speaker and 5-watt handli<br>Charcoal gray metal cabinet. 12" W. x 8" D. x 12" H. Wt. 9 lbs.<br>32A442. Mfg. List \$36.00. Net.   | s21.00                   |
| <ul> <li>K-C-20 Hi-Power Re-entrant Horn, 15 watt capacity. For indee<br/>door use. Charcoal gray 9". Wt, 5 lbs.</li> <li>32A443. Mfg. List \$53.00. Net.</li> </ul> | \$31.00                  |

K-S-100 Wall Switch for originating calls through K-HP-3 Hi-Power Remote or K-C-20 Re-entrant Horn. 53/4" W. x 21/2" D. x 13/4" H.
 32A444. Mfg. List \$7.85. Wt, 1 lb. Net.......\$4.60

# HOME INTERCOMS BY NuTone





## YOUR HEADQUARTERS FOR FINE P.A. EQUIPMENT



### **B-A's 20-WATT PEAK POWER AMPLIFIER**

Ideal for store demonstrations, auctions, clubs, churches, offices, classrooms, etc. Full 20 watts of peak power for improved performance sufficient for 2-12" speakers, Separate volume controls permit mixing microphone and phono. Has two speaker output sockets. Specifications: Power output sockets. 2-6805, 6V4. Freq. resp. ±2 db 40 to 15,000 cps. Inputs: Microphone (high imp.), phono, auxiliary. Sensitivity: Micc: .0035 V.; Phono and Aux. .25 V. for rated output. Controls: Microphone, phono and Auxiliary fader, tone, power switch. Output impedance: 4, 8, 16 ohms, 25 volt (62.5 ohms) and 70 volt (500 ohms). Hum and Noise: Phono 65 db; Micc. 55 db below rated output. Dimensions: 101/2" W. x 5" H. x 61/2" D. Shpg. wt. 12 lbs. No. 49A213 \$39.95 No. 49A213 Net Each

B-A's 30-WATT UNIVERSAL ALL TRANSISTOR MOBILE AMPLIFIER **\$99**95



The modernistic design of this transistorized amplifier provides a convenient way of obtaining 30 watts of audio power at any location, mabile or fixed. Operates anywhere ... picnics, outdoor meetings, on boats, planes, cars ... on 12V. DC battery or 110-120 V. AC. Low current drain of .22 amps idle or 3.5 amps at full power makes it easy on battery system. Specifications: Freq. resp:  $\pm 2$  db. 40 to 20,000 cps. Inputs: Microphone (50 to 250 ohms), phono (high impedance). Sensitivity: Mic. 0001 V. phono and aux. 15 V. Controls: Micr. Phono, and Aux. Fader, Bass, Treble, Master Volume with power switch. Tone Control Range: Bass 0 to -15 db.; treble 0 to -15 db. Output impedance 4.8, 16 ohms. Output regulation 2 db. Hum and noise: Phono 80 db, mic 65 db, below rated output. Semiconductors: 6 transistors, 3 diodes. Dimensions: 11" W. x 31/2" H. x 81/2" D. Shpg. wt. 11 lbs. No. 49A202. (Less Phono Top). Net Each \$99.955 No. 29B213. Mike for above. Net Each \$19.80

**TOP FOR B-A** 

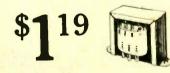
**AMPLIFIERS** 



For all B-A Amplifiers except BA10 and BA-Mobile. For ploying 78, 45, 331/ and 16 RPM records. 117 V. 60 cy. Wt. 7 lbs. \$29.95 No. 49A205,Net Eoch.

5-WATT 70 AND 25 V. LINE TRANSFORMERS MATCHES 4 TO 8 OHM VOICE COILS IN MULTIPLE SPEAKER SYSTEMS

Enables volume adjustment at coch speaker in the system. Provines ex-cellent wide range response. Primory impedance taps 1000, 2000, 4000, 8000 and 16,000 ohms. For mounting on speaker. Shpg. wt. 1 lb. No. 13A955-70 V. Choice **\$1.19** No. 13A954-25 V. Each 10 Lots, Eo. **\$1.07** 25 Lots, Eo. 99 c



 
 HEAVY DUTY 10 WATT @ 70 V.

 Tapped for 10, 5, 2.5 1.25, 0.625 wotts. Secondory 8 ohms. Size 2 x 1½ x

 15% '' H. Wt. 134 lbs. Imported at big savings!

 13A953
 Ec.....\$1.89

 10 Lots Ec.....\$1.69
 25 Lots Ec....\$1.49
 HEAVY DUTY 20-WATT LINE-TO-SPEAKER Universal 500-3000 ohm to 3.2, 8, 16 ohms V.C. 3% x 2½ x 3½". Shpg. wt. 3 lbs. No. 13A537 \$1.99 10 Lots Each. \$1.75 Special Each

Full Yeor Guarantee Covers Lobor ond Parts. Just return the Amplifier to us and ot our option we will repair or replace it without cost to you.



### **B-A's TOP SELLING 70-WATT PEAK POWER PA AMPLIFIER**

Perfect power for small theatres, bands, churches, stores, auditoriums, carnivals, night clubs, industrial plants, etc. Low price and quality construction assures extra profits when used in rentals. Separate bass and treble tone controls permits adjustment to meet all acoustical conditions. Provides coverage up to 100,000 square feet when used with trumpet type speakers. In-put mixing is for 2 microphones and phono channels. Phono top may be added

### **B-A's 40-WATT PEAK POWER AMPLIFIER**

Meets power requirements of chapels, clubs, schools, restaurants, industrial plants, orchestras, paging systems. Ample output for 4-12" PM speakers. New improved circuit using 2-6BQ5/EL84 high output tubes gives wide range frequency, response. Covers up to 50,000 square feet when used with trumpet

frequency response. Covers up to 50,000 square reet when the set type speakers. Specifications: Power output 40 watts peak, 20 watts RMS. Tubes—2-6EU7, 2-6BQ5/EL84, 1-6V4. Freq. resp. ± 2 db 30 to 15,000 cps. Inputs: 2 micro-phones. (high impedance), phono, auxiliary. Sensitivity: Mic. .003; phono and aux. .25 V. Controls: Mic. 1, Mic. 2, phono and aux. fader, master volume, bass, treble, power switch, output in-dicator level adjust. Tone control range: Bass 0 to -15 db; Treble 0 to -15 db. Output impedance: 4, 8, 16 ohms, 25 volt (3) ohms), 70 volt (250 ohms), high imp. for booster amplifier. Output regulation 3 db. Hum and noise: phono 75 db; mic. 60 db below rated output. Dimensions: 15¼" W, x 6" H, x 10" D. Shpg. wt. 20 lbs. No. 49A201 (Less Phono Top). Net Each.

### **B-A's 120-WATT PEAK POWER AMPLIFIER**

Super amplifier conservatively rated for long life in continuous operation, Ideal for large installations such as auditoriums, halls and stadiums, fac-tories, fair grounds, airports, rail yards, hotels, outdoor gatherings, etc. Perfect for voice or music. It can be used with up to 12 frumpet type speakers, or 16 cone type 12" PM speakers or any combination of the two types. Specifications

speakers of the type 12 rink speakers of any content of the two types. Specifications: Power output 120 watts peak, 60 watts RMS. Tubes and Diodes: 2-6EU7, 6C4, 2-6CT5, OA2, 5 silicon rectifiers. Freq. resp.  $\pm 2$  db 20 to 20,000 cps. Inputs: 2 microphone (high imp.), phono, aux. mag phono. Sensitivity: Mic. 003 V., phono and aux. 3 V, mag. phono. 013 V. Controls: mic. 1, phono and aux. fader, master volume, bass, treble, power switch, output indicator level adjust, mic. 2—mag. phono switch. Tone control range: bass  $\pm 8$  to  $\pm 15$  db % 50 cps; treble  $\pm 7$  to  $\pm 13$  db %10,000 cps. Output imp.: 4, 8, 16 ohms, 25 volt (10.0 ohms), 70 volt (84 ohms), high imp. for booster amplifier. Output regulation 2 db. Hum and molse: phono 72 db, mic. 62 db below rated output. Dimensions: 15/4"W. x 6" H. x 10" D. Shpg. wt. 25 lbs. No. 49A203. (Less Phono Top). Net Each.

### **B-A's 200-WATT PEAK POWER AMPLIFIER**

B-A's 200-WAII PLAK POWER AMPLIFIER For use where big power is required for large auditoriums and most outdoor areas. Provides up to 150.000 cubic feet of coverage with trumpet type horns. Speelfications: Power output 200 watts peak, 100 watts RMS. Tubes and Diodes: 2-6EU7, 6C4, 4-6CT5, OA2, 5 silicon rectifiers. Freq. resp. ± 2 db 20 to 20,000 cps. Inputs: 2 mic. (high imp.), phono, aux., mag. phono. Sensitivity: Mic. 003 V., phono and aux. 3 V. mag. phono. 013 V. Controls: Mic. 1, Mic. 2, Phono and Aux. Fader. Master Volume, Bass, Treble, Power Switch, Output indicator level adjust, Mic. 2 mag. phono. 013 V. Controls: range: Bass +8 to -15 db @ 50 cps.; treble +7 to -13 db @ 10,000 cps. Output imp.: 16 ohms, 25 volt (6.25 ohms), 70 volt (50 ohms), high imped-ance for booster amplifier. Output regulation 2 db. Hum and noise: phono 75 db, mic. 65 db, below rated output. Dimensions: 151/a" W. x 6" H. x 10" D. Shpg. wt. 28 lbs. No. 49A204, (Less Phono Top). Net Each.

### **MORE OUTSTANDING BUYS IN P.A. AMPLIFIERS & SYSTEMS**



### **20-WATT PA AMPLIFIER**

 1 20-WATT PA AMPLIFIER
Extremely versatile amplifier meets requirements far small auditoriums, restaurants, paging systems, etc. For areas up to 50,000 square feet. Frequency response of 20-20,000 ±2 db gives excellent quality music as well as voice reproduction. 3 inputs, one high impedance microphone, two oux. (Fader) Hi-impedance, Hi-level. Hum and noise −65 db mike, −80 db aux. belaw rated output. Gain 125 db microphone, 100 db aux. Sensitivity microphone: 3 millivalts, aux. 5 millivalt. Cantrols: 1-Mike, 1-Aux (Fader), 1-Master Volume, 1-Bass, 1-Treble, 1-Power. Tone controls: Treble (10 KC) +10 db, −16 db.; Bass (50 cps) +14 db, −10 db. Tubes 1-6EU7, 1-6CA4, 2-6GW8, 1 silicon diade. Power consumption 90 watts. Operates from 105-125 V, 50-60 cy. AC. Size 1534" W. x 10" D. x 634" H. Shaa. wt. 18 lbs. No. 49A223. Model CHB20A. Mfg. List \$111.25. Net ..

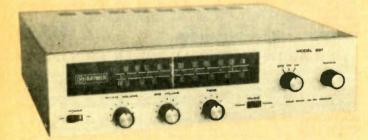
### 35-WATT PA AMPLIFIER

(a) SOLID STATE CHS-35. Inputs: 2 mike (Hi or Law imp.), Operates from 12-15 V. DC or 115 V. AC. No. 49A218. Mfg. List \$174.90. Net. 2 auxiliary \$104.95



BOGEN AMPLIFIER ACCESSORIES (1) SR-2 Remote Volume Control, Adjusts amplifier volume of 2 channels from up to 2000 feet. For CHB35A, CHB50, CHB100, and MXMA. Uses 3-cond. unshielded cable. 31/a" H, 6" W, 11/a" D. Wt. 2 lbs. Mfg. List \$17.15. So 404235 \$11.25 No. 49A225. Net Each

(2) LPC-4 4-Speed Matching Phono Top. Attaches to top of CHB20A, CHB35A, CHB50 and CHB100, With tone arm, cartridge, rubber turntable mat and built-in 45 RPM adaptor. Size  $434^{\circ}$  H,  $13^{\circ}$  W,  $91/2^{\circ}$  D. Wt 8 lbs No. 49A207. Mfg. List \$43.75. Net Each \$27.75



### **AM-FM TUNER-AMPLIFIER WITH** MICROPHONE PAGING

15 WATTS RMS, 30 WATTS PEAK FREO. RESP. 20 Hz - 20K Hz

 FREQ. RESP. 20 Hz - 20K Hz
 Image: Constant of the second seco



<sup>\$13990</sup>

### BOGEN CHB AND CHBS SERIES AMPLIFIERS FOR EVERY NEED!

MORE USEABLE FEATURES THAN OTHER AMPLIFIERS SELLING FOR MUCH MORE!

All are designed for continuous, heavy duty operation. Out-put impedances 4, 8, and 16 ohms, 25 V. line (18 ohm) 70 V. line (143 ohm). 70

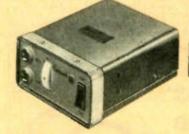
### **1** 50-WATT PA AMPLIFIER

(2) SOLID STATE CHS-50. Inputs: 2 mike (Hi or Low imp.), 2 auxiliary. 115 \$127.45 AC operation No. 49A219. Mfg. List \$212.40. Net.....

### 100-WATT PA AMPLIFIER

 Solid STATE CHS-100, Inputs: 2 mike (Hi or Low imp.), 2 auxiliary, 115 V, AC 50-60 Hz operation, Magazian Magazian (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 2 auxiliary, 115 Solid State (Hi or Low imp.), 3 auxiliary, 115 Solid State (Hi or Low imp.), 3 auxiliary, 115 Solid State (Hi or Low imp.), 3 auxiliary, 115 Solid State (Hi or Low imp.), 3 auxiliary, 115 Solid State (Hi or Low imp.), 3 auxiliary, 115 Solid State (Hi or Low imp.), 3 auxiliary, 115 Solid State (Hi or Low imp.), 3 auxiliary, 115 Solid St No. 49A220. Mfg. List \$261.90. Net.

### **12 VOLT MOBILE PA AMPLIFIERS** SOLID STATE - NO WARM-UP!





Small size, 2" H.x.4" W.x.4 $\frac{1}{4}$ " D. Can be used in any 12 V. car, truck, boat, plane, positive or negative ground.

Input for high impedance mike and tape or phono. Use with any 4, 8 or 16 ohm speaker or trumpet.

No. 49A209 \$29.95 Import Special Each

**22 WATT** 

Easily installed in cars, trucks or boats. Two standard inputs for mikes, inputs for tape or phono with sepa-rate volume control for each input. Output 4, 8, 16 ohms. Complete with mounting hardware and fused battery lead. Size 2 x 7 x  $7/_2$ " D. Shpp. wt. 6 lbs.

No. 49A200. \$49.88 Import Special, Ea.,



ADD FM-**FM STEREO TO** YOUR PA OR **STEREO** SYSTEM

**NEW Solid State Hi-Fi FM-FM Storeo Tuner** is designed for the best reception in fringe areas or noisy locations where strong and effective limiting is a prime requirement. AFC circuitry provides positive no-drift operation 24 hours a day. Perfect for use with PA amp, for background noises as well as with stereo systems. Freq. Range  $871_{2}-1081_{2}$  MC. Freq. Resp. 15-15000Hz  $\pm$  1 db. Sensitivity 2 MV. Beautiful gold bronze panel in handsome metal cabinet. Small size only 123/6" x 7" x 21/6" fits anywhere. Shipping wt. 9 lbs.

No. 49A2 30, Net Each.

### **B-A's 70-WATT PEAK POWER** PORTABLE PA SYSTEM



### COMPLETE SYSTEM \$15995 WITH E-V MIKE

Features B-A's 70 watt feature-packed amplifier (listed on page 63), two 6.8 oz. 12" speakers, each with 35' cable and plug, split type carrying case, size 15 x 17 x 20", provides separate baffles for the two speakers plus convenient, secure carry-ing case for the amplifier. Your choice of E-V \$89,00 list 664 cardioid dynamic mike or the Shure cardioid dynamic 585 that will slip out of mount for hand-held use. Both mikes have 18' detachable cable and plug and are supplied with B-A's leader value floor stand adjustable from 35" to 64". Amplifier operates from 117 V. 60 cy. AC. Shpg. wt, 74 lbs, Less phono top. No. 49344. B-A's 70 Watt System with E-V 664

| No. 49A94. B-A's 70 Watt System with E-V 664 |
|----------------------------------------------|
| Dynamic Mike. \$159.95                       |
| Complete PIJ7.7)                             |
| No. 49A8001. B-A's 70 watt System with Shure |
| 545 Mike. \$154.95                           |
| Complete DIJT.7)                             |
| N. 404305 4 Fred DL T. A. I                  |

No. 49A205. 4-Speed Phono Top for above. \$29.95

### ADD MORE MIKES TO ANY PA AMPLIFIER WITH SHURE MICROPHONE MIXERS

tion



SHURE M68 SERIES MICROPHONE MIXERS

General specifications: 5 channel, completely transistorized, portable micro-phone mixer for use with public address, and tape recorders. Total harmonic distortion less than 1%. Accommodates up to 4 high or low impedance micro-phones in any combination. Does not require line transformers. Has 1 high level, high impedance input for tape, tuner or accessories. Individual volume control on each channel plus master gain control. Output is either high or low impedance. Low Impedance output may be balanced or unbalanced per-mitting long cable to power amplifier input. Also has high Impedance auxi-liary output for tape recorder. Two or more mixers may be interconnected. For example two will provide inputs for eight microphones and one auxiliary. For 105-130 V. 60 Hz. Size 2/2 x 13% x 51%". W1. 4 lbs.

| No. 29A3033, Model M68, With male Cannon-type Inputs. \$78.60<br>(Use XLR-3-11C Type Mating Connector), Net Each                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------|
| No. 29A3037. Model M68FC. With Female Cannon-type inputs. \$85.20<br>(Use XLR-3-12C Type Mating Connector). Net Each                          |
| NEW MODEL M68P MIXER. With standard 1/4" phone jack input receptacles for 4 hlgh impedance microphones and a fifth phono plug input for tape, |
| tuners, etc. Otherwise same as M68 above. \$63.00                                                                                             |
| NO. 2943030. NET EACH                                                                                                                         |

MODEL M68RM REVERBERATION MIXER. Similar to Model M68FC except has built-in adjustable intensity reverb for special effects ise 40-20,000 Hz, Four inputs and jack for remote reverb. special effects. above Response 40-2 No. 29A3039. Net Each

\$108.00

Net Each M62 AUDIO LEVEL CONTROLLER. Insert between microphone and amplifier or between mixer and amplifier. This transistorized variable input level con-trolling device will prevent fadeout, roller coaster sound level or "close up" blasting. The M62 will permit the microphone to be used at varying distance without changing the output volume. It will upgrade tape recordings by preventing distortion and overloading of the tape recorder. Also prevents "ear splitting" feedback from becoming excessively loud, Distance selector switch can be set at 6", 12" or 18" for best pickup area to maintain an output level from the PA system that is always smooth, intelligible, and comfortable to the ear regardless of shouting or overly close talking. Bat-tery operated (9V. battery included). Frequency response 20 to 20,000 Hz. Requires one each Switchcraft plug, A3F and A3M. Size 2½"x113#"x5½". Wt. 234 lbs. No. 29A3034. Net Each \$54.00

No. 29A3034. Net Each.





Compact, lightweight microphone mixer/remote amplifier for studio and remote broadcasting, recording and sound reinforcement. Four low impedance balanced microphone inputs and one line input, Built-in tone oscillator for ringing up line. Response  $\pm 2$  db from 20 to 20,000 Hz. Galn 90 db. 150 ohm microphone into 600 ohm line. Hum and noise, -125 db maximum equivalent input hum and noise. Has illuminated VU meter calibrated  $\pm 4$  and  $\pm 10$  dbm out, two level headphone monitor jacks. Low noise AC or battery operation. Size 113% x 71/2 x 21/2". Wt. 51/2 lbs. \$154.20 No. 29A3040, Net Each

### **B-A's 70-WATT PEAK POWER** PA SYSTEM WITH COLUMNS

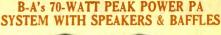


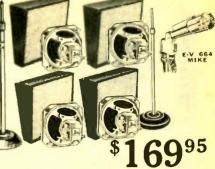
Ideal combination for semi-permanent or per-manent Installations, 2-Argos SR1060 Sound Col-umns, B-A 70 Watt Am-plifier, Mike Stand and either the EV-664 Mike

for stand mounting or the Shure 545 Mike which can be removed from stand for hand-held opera-

Complete system, everything included and ready to hook up for operation. Shpg. wt. 70 lbs. No. 49A8003...With EV-664 Mike. \$219.95 Net Fach

Net Each No. 49A8002, With Shure 545 mike. \$219.95



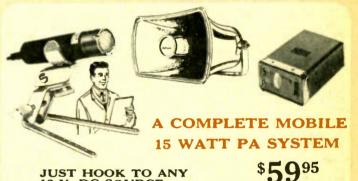


Perfect system for custom installation. Features B-A's 70 watt peak power amplifier, 4 heavy duty 8" speakers, 4 walnut finish baffles. Famous Electro-Voice 664 microphone with cables and B-A's deluxe floor stand. The ideal system for small auditoriums, churches, club rooms, etc. No. 49A8005.

\$169.95 Complete Identical to above system but with 4 heavy duty 12" speakers and 4 walnut finish baffles. Perfect for larger areas where bigger speakers with more sound output is required. \$179.95 \$179.95 for connecting

No. 49A8006. Complete No. 2A28. 2-Conductor Wire speakers to above amplifiers. 25 Ft....\$1.49 100 Ft....\$4.89 250 Ft. 59.79

WRITE DEPT. CS-PA FOR SPECIAL QUOTATIONS ON ANY SYSTEM YOU MAY REQUIRE.



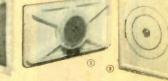
### JUST HOOK TO ANY 12 V. DC SOURCE

Versatile PA system mounts on car or truck in minutes. All-purpose mike comes with lavalier neck cord and desk stand, and 5 ft. cord. Solid state 15 watt amplifier is only 4" wide. (Listed page 64) Speaker Is waterproof, rustproof, and shockproof. A complete system ready to attach. all brackets, plugs, and cables included. Use as mobile sound truck, as stationary PA unit for speakers, rallies, out-door sporting events, picnics or any gathering where voice or music ampli-fication is necessary. May be used on any 12 volt vehicle or boat. No. 49A8000. Complete 15 watt system. Net Fach \$59.95 Net Each



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(



① 5 Watt Ultra Thin Poly-Planar Speaker, only 12" deep. Unique modern design will enable you to obtain high fidelity sound without using deep, bulky, space taking cone speaker cabinets.

Frequency range 60-20,000 cps. 8 ohm imp. Temperature range  $-20^\circ$  F to  $+175^\circ$  F. Humidity, shock or vibrations have no effect on the Poly-Planar speaker. Made of expandable polystyrene with a sturdy frame of compatible plastic material. Driven by a  $\frac{3}{4}''$  voice coil over a 2.9 oz. magnet that will provide the proper balance of compliance and damping for wide response characteristics. Size  $\frac{8}{2}x^{4}/2x^{3}z''$ . Wt. 10 oz. **\$6.95** Poly-Planar speakers will mount on cabinet doors, walls, ceiling, car doors,

| 20 Watt Poly-Planar Speaker, construction similar   | to above | I" voice   | coil, |
|-----------------------------------------------------|----------|------------|-------|
| 4.8 oz. magnet. Frequency range 40 to 20,000 cps.   | Size, 14 | 16×11-3/4× | 16    |
| Wt. 19 oz.                                          |          | \$10       | .95   |
| No. 49A4025, Net Each                               |          |            | -     |
| (a) Quick-Mount Model 5 Watt Poly-Planar Speaker    | System,  | includes   | 2X9"  |
| metal grille for screw or adhesive mounting. Wt. 13 | oz.      | \$9        | .95   |
| No. 49A4022. Net Each                               |          |            |       |

 Quick-Mount Model 20 Watt Poly-Planar Speaker System includes 16 13¾" grille for screw or adhesive mounting. Wt. 31 oz. No, 49A4023. Net Each. \$17.95

## POPULAR SPEAKERS AT MONEY SAVING PRICES!





#### \$22.50 IA - \$69.90 IIA - \$88.50

### ELECTRO-VOICE WEATHERPROOF FULL RANGE OUTDOOR SPEAKERS

#### ELECTRO-VOICE SONOCASTERS

ELECTRO-VOICE SONOCASTERS An exciting new development in auxiliary speakers by Electro-Voice. Light-weight, easily moved from place to place. Extremely attractive steel-gray housing is molded of a new wonder plastic material similar to that used in air travel luggage. No problem ever with scuffing, chipping or peeling. The 8 inch coaxial speaker unit is specially designed for portable and outdoor high fidellty use. Other distinctive features include an attractive die-cast front trim ring and facilities for permanent mounting on any surface. Freq. resp. 70 to 13,000 Hz. Power handling capacity 30 watts peak. Imp. 8 ohms. Size 163/a" H. x 17" W. x 57/a" D. Net wt. 63/a lbs. Shgg. wt. e. Imp. c wt ohms. \$22.50

No. 33A2026, Sonocaster, Special Each .....

#### NEW E-V MUSICASTERS IA AND IIA

NEW E-Y MUSICASTERS IA AND 11A The IA and IIA are compact wide range integrated loudspeaker systems parti-cularly suited to voice and music. Excellent bass response is achieved by a special 12-inch wide-range driver and through optimum design of the bass reflex enclosure. High frequencies are smoothly and efficiently radiated from the exclusive E-V Radax dual-cone driver assembly. In addition the Musicaster IA utilizes a Model T35 very high frequency compression driver, providing more uniform high frequency dispersion above 5K Hz and significantly more above IOK Hz. Rugged construction is achieved through use of a one-piece compression molded housing of highly resilient glass-filled polyester. All parts are weather conditions. The Musicasters may be used indoors or out, in homes, on patios, offices, idustrial applications, schools, churches, auditoriums, meeting halls, res-taurants, super markets, etc. The speaker may be permanently mounted in any position. The mounting bracket easily converts to a carrying handle, permitting portability of this powerful system. **MUSICASTER IA Specifications:** Freq. resp. 80-10,000 Hz, dispersion 120°. EIA pressure setting 49 db, Power handling capacity: 30 watts RMS, 60 watts peak, Impedance: 8 ohms. Mechanical crossover 4000 Hz. Mousting. "U" bracket (housing designed to stand stable on any surface). Size 21½ H, 21½ "W, 8½" D. Wt. 29 lbs. MuSICASTER IIA Specifications: Freq. resp. 80-16,000 Hz, dispersion 120°. HAMSICASTER IIA Specifications: Freq. resp. 80-16,000 Hz, dispersion 120°. HAMSICASTER IIA Specifications: Freq. resp. 80-16,000 Hz, dispersion 120°. HAMSICASTER IIA Specifications: Freq. resp. 80-16,000 Hz, dispersion 120°.

MUSICASTER IIA Specifications: Freq. resp. 80-16,000 Hz. dispersion 120°. EIA 49 db. Power handling capacity same as IA. Imp.: 8 ohms. Mechanical crossover 4000 Hz, electrical crossover 5000 Hz. Mounting and size same as Ibs \$88.50 No. 49A4029. Net Each

**NEWCOMB SOUND** COLUMNS

- No hot spots sound is equal throughout auditorium or hall. Highest quality music reproduction.
- Handle for easy carrying.

Model C548. Most Practical Column on the Market! Combines exceptional di-rectivity with portability. Excellent effi-ciency. power handling peak 60 watts. 25 ft. cord and plug in "hide-away" cord compartment—extension jack and switch. 39% x 111/4 x 63%". No. 49A4030 Wt. 22 lbs. \$74.50

### \$74.50

Each Model SCS412. Best Column Speaker Ever Heard! Contains 4-12" speakers specially designed for column use, Power handling peak a husky 120 watts, makes for intelligibility, depend-ability and low distortion. A man-size system stand 56" high, 15" wide, 7½" deep, Wt. 42½ lbs, 25 ft. cord, "hide-away" cord compartment, series type jack with shorting switch. \$139.50 No. 49A4031. Each No. 49A4031. Each .....

ARGOS NEWCOMB

**ARGOS SOUND COLUMNS** 

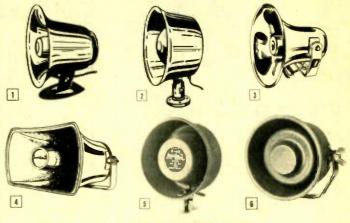
Each

Argos Sound Columns actually "focus" sound so one column can cover an entire audience evenly. No loud spots or unintelligible areas. Ideal for churches, auditoriums, meeting rooms, outdoors, wherever sound is required. Units contain 6, or 10 special speakers arranged to provide vertical dispersion from 15 to 22 degrees and horizontal dispersion 120 degrees. Easily mounted with speedy mounting clips.

Model SD-1060. 6-Speaker System for voice reinforcement in rooms up to 60 ft. 30 watts power, 16 ohms. Clad in walnut wood-grained vinyl with attractive cane grill. \$44.50

\$69.95 No. 49A4032. Net Each.

### SPECIAL IMPORT SAVINGS ON THESE ALL PURPOSE SPEAKERS FOR INDOORS, OUTDOORS, PAGING, PA & MUSIC



PACING SPEAKER
Natural tone paging speaker for universal application. Wide angle 90° spread.
Smooth frequency range, free of peaks, cuts out unintelligible lows and highs
for maximum speech penetration. Weatherproof re-entrant type, for indoor or
outdoor use, 180° swivel mount with screw flange. 5 watt power rating.
8 ohms. 5 inch horn opening. 5%" long. With wire lead.
No. 49A4008. Shpg. wt. 2 lbs. Import Special.

No. 49A4008, Shpg. wt. 2 lbs. Import Special. (a) OUTDOOR MUSIC AND PACINC HORN Enjoy outdoor music on lawn, porch, or patio. Response to 10,000 cps. Sturdy metal bell projector horn completely weatherproofs enclosed heavy duty 5 inch cone speaker. Allows musical range not possible with reflex speakers. Swivel base and flange with wing nut. Will stand by itself for portable use. High efficiency, wide range, for good outdoor coverage. Two-tone grey 8" bell. 8 watts, 8 ohms.  $51_{8}^{*'}$  D,  $11/_{8}^{*'}$  H. 3' wire lead. No. 49A4005. Shog. wt. 2 lbs. Import Special. (b) Contendent of the special sectors of the special sectors

Wide 120° dispersion angle, compact size with full power driver unit reflex construction. Excellent for high power paging or medium power public address applications. Provides high sound penetration with exceptional brilliance and clarity. Leave outdoors in any weather, or use indoors. Response 300-13,500 cps. Swivel U-bracket mtg., 28° wire lead. 8 watts. 8 ohms, 6° bell, 6° D. Shog. wt. 5 lbs. \$12.95

 Shpg. wt. 5 lbs.
 \$14.77

 No. 49A4007. Import Special.
 \$14.77

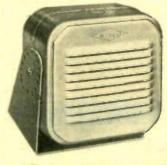
 Rugged, high power, trumpet speaker for outdoor public address. Conservatively rated 12 watts. Will handle up to 20 watts of power. Waterproof, rustproof, shockproof. Driver is completely enclosed. Gives crisp, clear, wide-angle response even in high noise level areas. 340-7000 cps. 5x8" horn, 8" L. 8 ohms. Grey hammertone. U-bracket and wire lead.

 No. 49A4006. (Less Car Mounts). Shpg. wt. 5 lbs.
 \$14.95

 Import Special

Sty-INCH WEATHERPROOF PACING SPEAKER
Compact speaker with wide frequency range, 300 to 12,000 HZ. Perfect for
Public Address, Citizens Band or music. Will fit behind grille on most cars.
Has adjustable mounting bracket. Power capacity 5 watts, 8 ohms impedance.
Size 53/4" dia. x 3" D. Shgs. wt. 11/2 lbs.
No. 49A4001. Net Each

 Superstand State St Shpg. wt. 1 lb. No. 49A4009. Import Special...... \$4.95



### **OUTDOOR WEATHER-PROOF SPEAKER**

Same as specified for use in U.S. Atomic Submarine



### UNIVERSITY PH TRUMPET AND JENSEN 30-WATT DRIVER

BOTH FOR \$4395

### PH TRUMPET... \$27.57 JENSEN DRIVER \$21.00

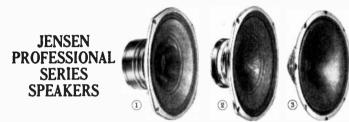
PH University trumpet and 30 watt Jensen driver, an unbeatable cambinatian for performance and reliability. Re-entrant horn provides mare valume over entire range. Low frequency cut-off 150 cps. 41" air column length. 85° dispersion. 203<sub>8</sub>" bell dia. 153<sub>4</sub>" lang less driver. Overall response 70-12,000 cps. 16 ohm impedance. Peak pawer 60 wotts \$43.95

Jensen All-Weather Driver Unit Model D30. 30 watts power handling. As used in above combination. Shpg. wt. 31/2 lbs. No. 49A4019. Net Each \$21.00

 No. 49A4019. Net Each
 \$21.00

 University PH Trumpet. As used in above combination. Size 201/4" D. x 1534"
 L. 85 dispersion. Shog. wt. 11 lbs.

 No. 49A4012. Net Each
 \$27.57



WITH NEW CERAMIC MAGNETS FOR DISTRIBUTED SOUND Provides outstanding performance with the New Synto-6 Ceramic Magnet an 8" speakers and Alnico V on 10" and 12" speakers, Gives very high speech intelligibility and music quality of modest cost. Rugged corrosion and weather-resistant construction for long trouble-free life in all indoor and protected outdoor locations, 8 ohm impedance. "Dual voice cail windings.

|              |              |      | Mag. |                |        |                |     |                 |            |             |                 |
|--------------|--------------|------|------|----------------|--------|----------------|-----|-----------------|------------|-------------|-----------------|
| Fig.         | Stock<br>No. | Size |      | Power<br>Watts |        | Spkr.<br>Depth |     | . Jensen<br>No. | Net<br>Wt. | Net<br>Eoch | 10 Lots<br>Each |
| 3            | 34A28        | 8"   | 10.0 | 12             | 30-13M | 3"             | 1"  | C850            | 23/8       | \$7.32      | \$6.59          |
| (1)(1)(1)(1) | 34A345       | ÷8'' | 10.0 |                | 30-12M | 3"             |     | DCA850          | 21/2       | 7.83        | 7.05            |
| Ť            | 34A29        | 8''  | 6.0  | 11             | 30-13M | 2127           | 1'' | C840            | 2          | 6.69        | 5.99            |
| Ť            | 34A344       | \$8" | 5.4  | 10             | 30-12M | 2117           |     | DCA830          | 15/8       | 6.51        | 5.86            |
|              | 34A30        | 8''  | 4.8  | 10             | 30-18M | 2              | 1'' | C835            | 15/8       | 6.21        | 5.59            |
| Ī            | 34A340       | 8''  | 1.4  | 79             | 60-13M |                |     | P810            | 1          | 3.63        | 3.27            |
| -)କାକାକ      | 34A341       | 8"   | 2.5  | 10             | 40-13M |                |     | P830            | - 11/4     | 4.83        | 4.35            |
| (I)          | 34A333       | 12"  | 27.0 | 20             |        |                |     | C12NC           | 81/4       | 33.90       |                 |
| ā            | 34432        | 12"  | 6.8  | 14             | 30-15M | 41/5"          | 111 | C12RC           | 6          | 11.10       |                 |



JENSEN REPLACEMENT CONCERT & VIKING SERIES Includes new sizes and magnet weight to provide a complete range of service replacement and original equipment.

| Stock<br>Fig. No. |                  | Size           | Magnet<br>Wt. |            |                  |                | Shpg.<br>Wt.             | Net<br>Each  |  |
|-------------------|------------------|----------------|---------------|------------|------------------|----------------|--------------------------|--------------|--|
| (1)               | 34A372           | 3"             | .68           | 3.5        | 1 1/2"           | \$3K7          | 6 Oz.                    | \$2.28       |  |
| ①                 | 34A373           | 31/2"          | .68           | 4.0        | 13/4"            | 435K7          | 6 Oz.                    | 2.28         |  |
| •                 | 34A374           | 3×5"           | .55           | 3.2        | 1-7/4            | *3X5K5         | 6 Oz.                    | 2.39         |  |
| 1                 | 34A371           | 4''            | .68           | 4.5        | 1 7/8 "          | • 4K7          | 8 Oz.                    | 2.04         |  |
| 0                 | 34A364           | 4''            | 1.47          | 5.0        | 2 18 "           | •P4V3          | 8 Oz.                    | 2.94         |  |
| ۰.                | 34A365           | 4x6"           |               | 4.5        | 1 1/8"           | 4X6K7          | 8 Oz.                    | 2.81         |  |
| •                 | 34A366           | 4x6"           | 1.47          | 5.0        | 21/4<br>25/8     | *P4X6V3        | 12 Oz.                   | 3.60         |  |
| ۰.                | 34A367           | 4×8"           | 1.00          | 6.0        | 25/8             | ¥~4X8W9        | 14 Oz.                   | 3.41         |  |
| <li>(i)</li>      | 34A382           | 5″             | .55           | 5.5        | 1 1/8"<br>21/4"  | *5K5           | 8 Oz.                    | 1.87         |  |
| 0                 | 34A359           | 5"             | 1.47          | 5.5        | 21/4             | *P5V3          | 10 Oz.                   | 3.09         |  |
| 1)                | 34A360           | 51/411         | .68           | 5.5        | ≤ 1 <sup>6</sup> | • 525K7        | 8 Oz.                    | 2.50         |  |
| 3                 | 34A361           | <u>5×7"</u>    | 1.00          | 6.0        | 2121             | 1 5×7W3        | 1 Lb.                    | 3.11         |  |
| $\odot$           | 34A362           | <u>5×7''</u>   |               | 8          | 21/2"            | P5X7U3         | 1 Lb.                    | 4.77         |  |
| Q                 | 34A363           | 5×7"           | 10.00         | 10         |                  | \$‡C5X7RD3     |                          | 7.77         |  |
| 9                 | 34A354           | 5×7"           | 1.0           | 6          | 210              | +5X7WM         | I Lb.                    | 3.80         |  |
| 9                 | 34A353           | 6x9''          |               | 7.5        | 33%"             | +6X9WM         | 1 1/4 Lbs.               | 3.85         |  |
| 2                 | 34A350           | 6x9''<br>6x9'' | 1.00          | 7.5        | 3 3/8            | 6X9W3<br>6X9W3 | 11/4 Lbs.                | 3.47         |  |
| Q                 | 34A351<br>34A352 | 6x9"           | 1.47          | 7.5        | 31/4"            | P6X9V3         | 1 1/4 Lbs.               | 4.44         |  |
| 0                 | 34A348           | 6"             | 10.00<br>.68  |            |                  | *#C6X9RD3      | 2 Lbs.                   | 10.77        |  |
|                   | 34A349           | 6''            | 4.8           | 6.0<br>7.5 | 2 3/8 //         | •6K73<br>•C6T3 | 10 Oz.                   | 2.50         |  |
| 2                 | 34A337           | 8"             | 1.00          | 8.0        | 2                | \$8W3          | 11/2 Lbs.                | 5.40         |  |
| ×                 | 34A338           | 8″             | 2.50          | 10         | 313''            | *P8T3          | 11/4 Lbs.                | 3.41<br>5.37 |  |
| *                 | 34A383           | 8''            | 10            | 12         | 3/2              | SC8R8          | 1 1/2 Lbs.<br>2 1/4 Lbs. | 7.65         |  |
| *                 | 34A336           | 10"            | 1.73          | 10         |                  | \$LCK0         | 2 /4 Los.<br>2 Lbs.      | 5.20         |  |
| 8                 | 34A334           | 12"            | 1.73          | ii         | 43/4"            | <12J10         | $2\frac{1}{2}$ Lbs.      | 6.13         |  |
|                   | 34A335           | 12"            | 4.8           | 12         | 6,               | *C12T3         | 3 Lbs.                   | 9.75         |  |
| 9_                | 2.00222          | · · ·          | 1.0           |            | <u></u>          | 01210          | J LUS.                   | 7.12         |  |

Indicates popular automotive favorites. Features both combination pin-tip jack and soldering terminals. †Multi-impedance 8-10-20-40 Ohms. ‡Dual cone. \*Indicates 3.2 ohm Imp. \$Imp. indicates 8 ohms.

### JENSEN MUSICAL INSTRUMENT SPEAKERS

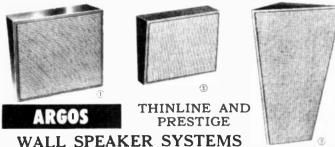


Highly special devices designed to give the correct musical quality required for the particular instrument; the power capability to repraduce without distartion at loud volume, and ruggedness under peak load conditions. Features: voice coils with hi-temp enamel caatings and phenolic babbins. Formed specially processed fibre cone material resistant to break-up. High efficiency Syntax 6 magnet.

| Fig                    | Stock<br>No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Size                       | Magnet<br>Wt.                                  | Powe<br>Watts                           | er Spkr.<br>Depth           | Ohms              | V.C.             | Jensen<br>No.             | Shpg.<br>Wt.                     | Net<br>Each              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------|-----------------------------------------|-----------------------------|-------------------|------------------|---------------------------|----------------------------------|--------------------------|
|                        | 34A325<br>34A326                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12"                        | 16.0<br>27.0                                   | 50<br>60                                | 6¼"<br>7"                   | 8 1<br>8 1        | 1/2"             | EM1200<br>EM1500          | 7 Lbs<br>10½ Lbs                 | \$25.1                   |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                |                                         | ITAR S                      |                   |                  |                           |                                  |                          |
|                        | 34A346<br>34A327<br>34A328                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ¢12"<br>¢15"               | 10.0<br>16.0<br>27.0                           | 25<br>50<br>60                          | 417"<br>61/4"<br>7"         | 8 1<br>8 1<br>8 1 | 1/2"             | EM801<br>EM1202<br>EM1501 | 5 Lbs<br>7 Lbs<br>101/2 Lbs      | 25.1                     |
|                        | M1202 a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            | 1501 of                                        | so Acc                                  | ordion S                    | Speake            | rs.              |                           |                                  |                          |
|                        | G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | uarant                     | ر<br>eed agai                                  | nst sh                                  | GUITA                       | nd dia            | EAKE<br>phrag    | RS<br>9m disinte          | gration.                         |                          |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                |                                         | GUITAF                      |                   |                  |                           |                                  |                          |
| -) -) -) -             | 34A385<br>34A329                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10"                        | 13/4 Lb                                        |                                         |                             | 8                 | 1 1/2"           | EM1020<br>EM1220          |                                  | s. 34.5<br>5. 38.8       |
| Ì                      | 34A330                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15"                        | 3 1/2 LD                                       | s. 100                                  | 8"                          |                   |                  |                           | 81/2 Lbs<br>171/2 Lbs            | 5. 74.9                  |
| 1                      | 34A384                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10"                        | 1 3/4 Lb                                       |                                         |                             | Fully             | Instr<br>1.14.11 | EM1050                    | 71/.15                           |                          |
| 3                      | 34A331                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.2"                       | 13/4 Lb:                                       | s. 100                                  | 61/4"                       | 8<br>8<br>8       | 1/2"             | EM1250                    | 71/4 Lb<br>81/2 Lbs<br>171/2 Lbs | s. 34.5<br>5. 38.8       |
| 3                      | 34A332                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15"                        | 31/2 Lb                                        |                                         | 8                           | 8                 | 2                | EM1550                    | 171/2 Lb                         | 5. 74.9                  |
| W                      | EATH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ERP                        | ROOF                                           |                                         |                             |                   |                  | man                       | 1                                |                          |
|                        | TRU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                                                |                                         |                             |                   | 1                | 1                         |                                  |                          |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ND                         | 10                                             |                                         |                             | 1                 | 11               | 51                        |                                  | 20                       |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                | 6                                       | _                           | -                 | - 11             |                           |                                  | 1                        |
|                        | DRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | VER                        | S                                              | 2                                       |                             |                   |                  |                           |                                  | 1                        |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                |                                         |                             |                   |                  |                           |                                  |                          |
|                        | UNIV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                                                | 11                                      | N                           |                   |                  | 100                       | V                                |                          |
| 1                      | TRU<br>LESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                                                |                                         |                             | 1                 |                  | 1-                        | CORR                             |                          |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                | 4                                       | PH                          |                   |                  | Arrest                    |                                  | AFLEX                    |
|                        | metal re<br>tion angle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                                |                                         | o sound                     | penet             | ration           | with a ne                 | arrow soul                       | nd pene                  |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mfgrs.                     | Bell                                           |                                         | orn                         | Lo                | w                | Dis-                      | Wt.                              | Net                      |
|                        | No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Model                      | Dia.                                           | Le                                      | ngth                        | Cut               |                  | persion                   | Lbs.                             | Each                     |
| 49/<br>40              | A4012 PI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | H<br>obrafle               | × 2 1014                                       | " 15¾<br>" 181/                         | x91/4"                      | 150<br>200        | CPS              | 85<br>120×60°             | 11                               | \$ 27.57                 |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            | ERSIT                                          |                                         |                             |                   |                  | AR DR                     | IVED                             |                          |
| 40                     | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                |                                         |                             |                   |                  | cps. V.C                  |                                  | s Sho                    |
| wt.                    | A4014<br>334 lbs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Net                        | Each                                           | 50 VVQ                                  | its powe                    | ci. oj            | -1500            | γ φs. v.c                 | . 10 0/10                        | \$21.0                   |
|                        | 201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            | 1000                                           |                                         | -                           | ~                 |                  |                           |                                  |                          |
|                        | INT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FR(                        | COM                                            | 1                                       | interne.                    |                   |                  |                           |                                  |                          |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                | 1 in                                    | and a mallife               | 1                 | T                |                           |                                  |                          |
|                        | IAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | K-R                        | ACK                                            |                                         | -01                         |                   |                  | ) 🔳                       | 6                                | E I D                    |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ANI                        | 1                                              | 1.5                                     | 0                           | -                 | -                |                           | 0                                |                          |
|                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                | /                                       | -                           |                   |                  | 97 S                      |                                  |                          |
|                        | PΔ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | GII                        | NC                                             | 1                                       | C.                          |                   |                  | V                         |                                  | 4                        |
|                        | Design of the second se |                            |                                                |                                         |                             |                   |                  |                           |                                  | -                        |
|                        | SPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AK                         | ERS                                            |                                         |                             | VERSI             |                  | U                         | NIVERSI                          | TY .                     |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                |                                         | IB-AS                       |                   | L-A8             |                           | C18-A8                           |                          |
| All                    | weather                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | proof.                     | breakdo                                        | wn pro                                  | ot, des                     | signed            | to fi            | it needs o<br>iver small  | if indoor                        | or aut                   |
|                        | put.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | is req                     | uning co                                       | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ared p                      | 01101             |                  | act Sugar                 | 01003 11                         | 101                      |
| Mo                     | del IB-A8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | . w                        | orld's mo                                      | ost wid                                 | dely us                     | ed me             | dium             | power si<br>improved      | beaker, v                        | vith fu                  |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                |                                         |                             |                   |                  |                           |                                  |                          |
| rie s                  | eration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 90 de                      | gree wid                                       | e angl                                  | e disper                    | sion.             | Frequ            | dia. x 9                  | onse 250                         | )-13,00                  |
| op                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                                | n bra                                   | cket. S                     | ize II            | 01/4"            | dia. x 9                  | Val deep                         | ) Shoc                   |
| cp:                    | J. Unive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | rsal si                    | wivel mi                                       | 9. 0. 0                                 |                             |                   | - /              |                           |                                  |                          |
| wt.<br>No              | 4 Ibs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Mo                      | del 18-A8                                      | . 8 0                                   | hm void                     | e coil            | Ne               | t Eoch                    | \$2                              | 23.97                    |
| wt.<br>No              | 4 Ibs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Mo                      | del 18-A8                                      | . 8 0                                   | hm void                     | e coil            | Ne               | t Eoch                    | \$2                              | 23.97                    |
| wt<br>No<br>Mo<br>350  | . 4 Ibs.<br>. 49A401<br>del MIL-A<br>0 cps. 1<br>lized. he                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5. Mo<br>A8. 7.<br>Excelle | del 18-A8<br>5 watt.<br>nt for li<br>ally seal | . 8 ol<br>Full re<br>imited             | hm void<br>ange. I<br>areas | e coil<br>mprov   | ed lo            | t Eoch                    | ency resp<br>d" spots.           | 23.97<br>Trapi<br>120 de |
| wt.<br>No<br>Mo<br>350 | 4 Ibs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5. Mo<br>A8. 7.<br>Excelle | del 18-A8<br>5 watt.<br>nt for li<br>ally seal | . 8 ol<br>Full re<br>imited             | hm void<br>ange. I<br>areas | e coil<br>mprov   | ed lo            |                           | ency resp<br>d" spots.<br>0 cps. | 23.9                     |

No. 99A4016, Model MIL-A8 8-ohm voice coil. Net Each \$19.77No. 99A4017, Model MIL-A45 45 ohm voice coil. Net Each \$21.90Model C18-A8 25-WATT FULL RANGE. Wide angle 60° x 120° dispersion speaker with built-in hermetically sealed driver. Delivers high output with intelligibility and noise penetration. Exclusive cobra flare insures uniform 250-13,000 cps. response. Excellent "talk-back" characteristics. Steel reinforced fiberglass polyester horn gives superior acoustic qualities and resistance to physical abuse. New Omni-Lok swivel bracket directs sound where desired. Size  $73_{\rm H}$ " x 14" x 12". Shgp. wt. 51<sub>2</sub> lbs. **\$28.17** 

# SPEAKERS & BAFFLES TO FILL EVERY NEED



 WALL SPEAKER SYSTEMS

 • ARGOS THINLINE BAFLES

 Good looking, excellent quality. Easy to instail with the exclusive Argos speedy level sound applications, such as TV, radio extensions, PA background music. 6 worts capacity, 8 ohms voice coil, Baffle is vinyl clad in your choice of wolnut ar blond wood grain, with cane grill clath. Size, 9¾" H. x 12¼" W. x 4¾" 0. Shpg. wt. 4½ lbs.

 No. 34895, Model VB-108CS. Baffle with Speaker. Net Each.
 \$7.95

 No. 34895, Model WB-108CS.V. Baffle with Speaker. Net Each.
 \$10.00

 Befle with Speaker, Volume Control and 70.7 Volt Transformer for use in multiple speaker installations. Shpg. wt. 5 lbs.
 \$12.35

 The finest you can buy. New heavy duty 8" Jensen speaker with 6 oz. magnet fine furniture finishes in Antique Birch or Dusk Walnut. 9¾" H. x 11" W. x 3¾" D. Shpg. wt. 5¾ lbs.

 No. 34899, Model PB508CS. Baffle with Speaker. Net Each.
 \$11.95

 No. 34899, Model PB508CS. Baffle with Speaker. Net Each.
 \$12.35

 The sinest you can buy. New heavy duty 8" Jensen speaker with 6 oz. magnet fire furniture finishes in Antique Birch or Dusk Walnut. 9¾" H. x 11" W. x 3¾" D. Shpg. wt. 5¾ lbs.

 No. 34899, Model PB508CS. Baffle with Speaker. Net Each.
 \$11.95

 No. 34899, Model PB508CS. Baffle with Speaker, Net Each.
 \$11.95

 No. 34899, Model PB508CS. Baffle with Speaker of L-Pad. Net Each.
 \$11.95

 No. 34899, Model PB508CS. Baffle with Speaker of L-Pad. Net Each.
 \$11.95
 </

### WALL BAFFLES PRICED SO LOW! DURABLE SPEAKER **ENCLOSURES**

- Durable walnut furniture
- finish. Beautiful lasting Saran
- •
- plastic grille. Fine acoustic design for
- improved tone.

Attractive non-resonant solid  $\frac{3}{6}$ " wood baffles with hot-glue locked mitre joints for strength and rigidity. Contrasting non-sag saran plastic grille Blends easily with any surrounding. Ideal for schools, clubs, hall—any location where good sound distribution is essential.

\$**7**95

| 11011 1111 | 8000 000.    |        |        |                |           |        |
|------------|--------------|--------|--------|----------------|-----------|--------|
| Stk. No.   | Speaker Size | High   | Wide   | Deep           | Wt. Lbs.  | Each   |
| 34B151     | 5″           | 7"     | 6″     | 31/2"          | 1 lb.     | \$2.95 |
| 34B182     | 6"           | 9″     | 71/2"  | 3 3∕∡ ″        | 1 1/4 lb. | 3.45   |
| 34B159     | 8″           | 103/4" | 10"~   | 51/5"          | 1 1/2 lb. | 3.95   |
| 34B160     | 10"          | 113/4" | 111/2" | 63/4"          | 21/4 lb.  | 4.75   |
| 34B161     | 12"          | 131/2" | 131/2" | 63/4"<br>71/2" | 3 lb.     | 5.45   |

### HARDWOOD WALL BAFFLES



Built of solid hand rubbed furniture finished walnut or ook. Mortised and glued construction with  $\frac{3}{96}$ " front panel and full  $\frac{5}{96}$ " sides. Speaker mounts behind modern non-sag saran plostic grille. Strictly "at home" in the finest panel ed interiars where beauty of design and decor are essential. For halls, school rooms, paging systems, wherever good sound distribution is necessary. Complete with speaker mounting hardware and wall hanger. Shpg. wts.: 8 inch, 3 lbs.; 12 inch, 6 lbs.

| Stk. No. 1 | Speaker S | ize Finish     | High     | Wide   | Deep             | Net Eo. |
|------------|-----------|----------------|----------|--------|------------------|---------|
| 34B244     | 8''       | Natural Walnut | 101/2"   | 101/4" | 63/4"            | \$6.95  |
| 34B246     | 8''       | Natural        | 101/5"   | 101/4" | 63/4''           | 6.95    |
| 34B245     | 12"       | Natural Walnut | 141/4"   | 1407   | 95/8''           | 8.95    |
| 348247     | 12''      | Natural        | 1.41/4'' | 14''   | 95/8''<br>95/8'' | 8.95    |

### **BELDEN 2-WIRE SPEAKER CABLE**

4 parallel conductors Type 8782. SIZC copper flexible able diamete pla a'z stra 2819, 25 Ft. \$0.78 100 Ft. .... \$1.73 1000 Ft. \$11.50



PORTABLE SPEAKER CASE **\$19**95 TAKES 2-12 INCH SPEAKERS

overall FLUSH MOUNTING WALL AND CEILING BAFFLES AT LOWEST COST EVER

IN PLASTIC OR METAL



() Inexpensive 91/4" Diameter Brushed Aluminum Ceiling or Wall Mounting Baffle. Perfect for extension speaker or background music installations. 8" speaker mounts by two screws. Secures ta wall or ceiling by two wood screws, toggle bolts or mollys. Shpg. wt. 1 lb. No. 34A74. Net Each ... \$1.89 4 @ Each ... \$1.49 10 @ Each ... \$1.27 () Beautiful Aluminum Ceiling Mounting Baffle with baked white enomel finish. 8" speaker mounts directly to baffle by four screws supplied. Faur holes in 1/2" flange area permit mounting baffle to ceiling with wood screws, mollys or toggle bolts. 125%" diameter. Ceiling hole size 81/2" dia. Shpa. wt. 1 lb. screws, mollys or toggle bolts. 125%" diameter. Ceiling hole size 81/2" dia. Shpg. wt. 1 lb. No. 34A75. Net Each... **\$2.75** 4 @ Each... **\$2.39** 10 @ Each... **\$2.24** 

(a) Round 10" Diameter Spun-Aluminum Baffle takes 8" speaker. Mounts directly to ceiling or wall by wood screws, taggle bolts or mollys. Edge has slight bevel. Shpg. wt. 1 lb. \$1.69 4 @ Each... \$1.49 10 @ Each... \$1.34 No. 34A76. Net Each ....



Flush Mounting Wall or Ceiling Baffle. 10" square, mounts 8" speaker. Attractive brushed aluminum with beveled edges. Mounts readily with wood screws, toggle bolts or mollys. Perfect for background music systems. If desired may be painted to match any decor. Spag. wt. 1 lb.
 No. 34A77. Net Each... \$2.59
 4 @ Each... \$2.39
 10 @ Each... \$2.29

(1) Similar in appearance to above Grille except is 12" Square and has "k" lip. Designed to replace a block of acoustical tile. To install, you need only remove block of acoustical tile and replace with this unit. Takes any 8" speaker. Brushed alumnum. Shpg. wt. 1 b. No. 34A78. Net Each...\$2.95 4 @ Each...\$2.79 10 @ Each...\$2.54

③ NEW 125½" Round White High Impact Styrene Grille. Mounts any 8" speaker by self-tapping screws supplied. May be attached to wall or ceiling by wood screws, toggle bolts or mollys. Can be painted any color desired. Shog. wt. 12 oz.

Shog. wt. 12 oz. Na. 34C96. Net Each....\$1.85 4@ Each....\$1.45 10@ Each....\$1.24 () 10" Square White Plastic Grille with Concentric Spirals. Designed to add beauty as well as comouflage the speaker. Mount's any 8" speaker. At-taches to wall or ceiling by wood screws, toggle bolts or mollys. Can be painted ony color desired. Shpg. vt. 1 lb. No. 34A80. Net Each... \$2.79 4 @ Each... \$2.65 10 @ Each... \$2.50

SPEAKER DIFFUSER GRILLES Rigid non-rattle construction of heavy 20 gauge steel. Attractive beige finish can be used as supplied or repainted to match room decor. Designed to mount over opening after speaker is installed. Stk. Na. Size Each 6 @ Ea. 34A7000 6" \$2.19 \$2.00 34A7002 8" 2.49 2.19 34A7001 10" 2.89 2.69 34A7003 12" 3.49 3.19

3.49

12"

3447003



(6)

FOR WALL

### 8 OHM L-PAD AT LOW COST

3 10

For speaker volume control. Simply insert in line between To speaker volume control, simply insert in line between amplifier and speaker to adjust speaker volume indepen-dently of other speakers in the system. 2-section wire wound ceramic insulation. Handles speaker power to 6 watts.  $V_4''$ shaft,  $3_8''$  bushing. wound 4 For . . . . . . No. 14A1136. Less Knob. Special., \$1.39





Big, heavy duty 8" speaker plus handsome brushed aluminum baffle. Ideal for background music. Handles up to 10 watts power Buy in quan-tities and save ... and make more or until buyon on installations. Comb. Speaker & Baffle. \$7.90 No. 49A4011 4 Combination Deals, Each 8 Combination Deals, Each \$6.90



#### MICROPHONE STANDS AND ACCESSORIES! MIKE FLOOR STANDS AND BOOMS DESK & BANQUET MIKE STANDS 60 6 "FLEXO" FLOATING BOOM 12 PULPIT (5 BOOM 1 (2) ACHMENT 3 FITS ALL (1) STANDS (7) dia., padded feet, grey wrinkle finished. %"-27 th VALUE! CHROME-BRASS TUBE DESK STAND. high (Value: CHROME-BRASS TUBE DESK STAND. Stem 4 high, base 6" dia., padded feet, grey wrinkle finished. %6"-27 thread. Wt. 2 Hos. No. 29A7011. Atlas DS-5. Mfg. List \$4.45. Net Each. **\$2.67 DLEADER VALUE! ADJUSTABLE DESK STAND.** Velvet action clutch adjust height 8" to 13". Chrome brass %6"-7%" tubes. Padded, arey wrinkle 6" base. 3 Hos. Mfg. List \$7.23. No. 29A7012. Atlas DS-7. Net Each. **\$4.34** No. 29A7003. Leader Value Floor Stand. Wt. 10 lbs. Net Each. \$8.16 TOUCH-TO-TALK DESK STAND. Dependable, DPDT switch action for in-ATLAS "VELVET ACTION" MICROPHONE STANDS No Slipping — Na Rattle — Na Naise — Na Scratching — Na Wear Feature full Grip, jam-proof clutch for easy height adjustment, functionally designed "Anti-tip" bases with chrome cover or scuff-proof baked on gray winkle finish, and life-time super chrome plated tube assemblies. MS11C uses 7%" and 5%" tube; MS-20 and MS-25, 1%%" and 7%" tube. MS-25 has controlled "air lock" cushion far extra quiet collapse of stand. All have 5%"-27 top thread. MS-11C, MS-14G and MS-20 have new law profile bases. Stk. No. Model Height Weight Base Net Each 3 29A7001 MS-20 37" to 66" 15 lbs. 10" Chrome §10.67 3 29A7002 MS-25 38" to 67" 22 lbs. 17" Wrinkle 13.34 3 Gold Floor Stand. Same size as MS-11C above. No. 29A7007. Model MS-14G. Wt. 13 lbs. Mfg. List \$22.50. Net Ea.\$13.50 C DELUXE "THREE-LEGGED" FLOOR STAND. Heavy cast iron base padded ATLAS "VELVET ACTION" MICROPHONE STANDS Telay control, paging, radia communications. May be locked "on", or in stantly released. Chrome and gray. 7" H., 51%" dia. Na. 29A7013. Electro-Voice 428. Mfg. List \$31.50 Net Each.......\$18.90 (9) "STREAMLINED" DESK STAND. Features concealed rear cable exit and WSWITCHBOARD MIKE SUPPORT for overhead mounting. Has cable feed ATLAS "CHESTY" MIKE SUPPORT. Hangs around neck on lavalier card. Wire frame and flexible gooseneck hold mike—no hands! No. 29A3002. Atlas NS-1. Mfg. List \$8.05. Net Each...... \$4.83 **BOOM ATTACHMENT.** An extremely versatile device to center mike over best pickup area. Can be attached to any stand having $5''_{12}$ thread. Ideal for piano and similar pickup where obstacles make regular mike stand impossible to use. All swivel parts are die-cast resulting in smooth operation and secure lacking pasitians. 32 inch boom is chrame plated. Wt. $3\frac{1}{2}$ lbs. Super \$8.01 \$6.49 No. 29A7009 Atlas BB-1, Mfg. List \$10.83, Net Each ..... © "FLEXO" MIKESTER Clamp-On Desk or Pulpit Boom Stand. Has univer-solly adjustable spring cantralled floating arms. Clamps to any desk or pulpit; positions microphane in 36" arc in any direction—the BEST Pulpit or Desk Stand! Weight, 6 lbs. No. 29A7010. "FLEXO" MIKESTER Pulpit or Desk Stand. Net Ea. \$11.97 1 11 60 1 0£ 5/8"-27 MIKE MOUNTING ACCESSORIES 10 1/15/11 ALL CHROME PLATED Net Each \$1.59 2.09 3.00 4.01 2.34 Stock No. 29A3004 29A3005 Description Fig. 0 6" Flexible Coose Neck 13" Flexible Coose Neck 19" Flexible Coose Neck 41/2" Swivel Adaptor Snap-on Mike to Stand Adaptor Lock on Mike-to-stand Adaptor with 29A3006 29A3007 29A3008 29A3001 Lack on Mike-to-stand Adapto thumb release Shack Absorber Adaptor Cable Hanger for stand Male Flange 11/4" diameter Female Flange 11/4" diameter Threaded Nipple 3/4" L. Female Threaded Coupling 3" L. Extension Tube G" L. Extension Tube Right Angle Bend 2.84 2.40 2.10 .80 .44 .59 .74 .74 1.25 \$8700 SWITCHCRAFT STUDIO 29A3009 "MIX-MASTER" 29A3010 29A3011 Highly versatile transistorized amplifier-mixer for top quality professional PA, recording or studio mixing of four monaural or stereo program sources such as microphones, magnetic phono cartridges, tuners or tape recorders in any combination. Two of the 4 inputs are equalized for stereo or monaural magnetic phono cartridges. Has separate level controls for each channel and master gain control. Amplifies signals to 1 volt line level. In stereo mode, input signals 1 and 2 are mixed for left channel, inputs 3 and 4 are mixed for right channel. Operates with all mikes 50 ohms or higher impedance, balanced or unbalanced. Output is high impedance 50,000 mms or higher. Has front panel battery voltage indicator. In professional metal cabinet, size 12 x 7 x 234" H. Shpg. wt. 6 lbs. \$87.00 29A3012 29A3013 29A3014 29A3015 29A3017 SWITCHCRAFT TRANSISTORIZED No. 29A3003 Model 307TR. Battery Powered. Net Each ... MIXERS All input jacks are standard $1/4^{\prime\prime}$ dia. two-conductor phone jacks. Output, standard phono jacks. Adaptable to all other standard connectors using Switchcraft mike plug adaptors on page 125.

MIXES MICROPHONES OR PHONO INPUTS



4-channel high impedance sterea-monaural mixer featuring built-in transistor 4-channel high impedance sterea-monaural mixer featuring built-in transistor amplifier in each af twa sterea channels with individual gain controls on each input. "Stereo-Mono" switch allows all 4 inputs to be used monurally. Am-plifier powered by 9 volt battery (included) avercomes usual loss encauntered in resistance type mixers and pravides a 6 db gain. Low noise level, low dis-tartion, frequency response 20 ta 20,000 cps. Inputs are phone jacks, phono jacks autput. Modern styling with tan finish, brawn knabs with gold metallic inserts. Size 6" L. x 2" H. x 3" D. Rubber mounting feet. Shpg. vt. 3 lbs. No. 29A115. Model 306TR. Sterea Manaural Mixer. Net Each \$24.00 \$19.50

NEW AC POWERED STUDIO MIX-MASTER

NEW AC POWERED STUDIO MIX-MASTER Four channel, portable solid-state amplifier-mixer for use with microphones, electronic musical instruments, tape recorders and phonographs. Features 4 unbalanced microphone inputs for high or low impedance mikes, 4 auxiliary line level inputs, 2 magnetic phono inputs with equalization switches. Has 4 separate level controls and 1 master gain control. Accepts 1 to 4 mono or 2 stereo input signals, Input jacks are standard ¼" phone jacks, outputs standard phono jacks. Output up to 4 volts into high or low impedance load. Low impedance output accommodates up to 2000' of cable without loss in frequency response. Extremely flat response 20 Hz to 20K Hz. Voltage gain 20 db. Operates on 117 V. AC 60 Hz. Size 12 x 7½ x 3½" H. \$96.00



0.1 5455

### HIGH PERFORMANCE UNIDYNE CARDIOID DYNAMIC MICROPHONES

\$45

Shure Cardioid microphones are uni-directional. They pick up sound mainly from the front, while suppressing sound and noise coming from the back. Allows user to work farther away from microphone and greatly reduces

548

5485

### NEW! MODEL 548 UNIDYNE IV

The ultimate for PA entertainment. For hand or stand usage. Includes swivel adapter. An ultra high quality, super rugged microphone with an unusually effective Cardioid pickup pattern. Response 40-15,000 Hz. Dual impedance, high and low, Hi-Z output -55 db; Lo-Z -57 db. Size: With 15 ft. 2-cord shielded cable and XLR-3-11C connector on micro-phone end, Shgg. wt. 3 lbs. No. 29A612. Chrome 548 with stand adapter. Net Each.....

Model 5485. Has switch and chrome swivel stand adapter. Not for hand-held use. Otherwise same as 548 above. \$66.00 No. 29A613. Shpg. wt. 3 lbs. Net Each.

### 545 SERIES UNIDYNE III

**D4D SERIES UNID TIVE III** Approaches the theoretical ideal Cardioid pickup pattern at all frequencies, providing extended range music and speech pickup for highest quality pro-fessional PA and recording. Response 50-15,000 cps. Output -55 db. Dual high or low impedance. 5455 has swivel stand mount; 545 slips out of mount for hand-held use. 1-36" dia., 5-36" Ig. 18 ft. detachable cable. Shpg. wt. 3 lbs.

| Na. 29A2  | 08. Satin Chrom                    | 1e 545 (               | ess stand).                    | \$53.40       |
|-----------|------------------------------------|------------------------|--------------------------------|---------------|
| Net Each. |                                    |                        |                                |               |
| No. 29A3  | 66. Black \$33B<br>35. Satin Chrom | Desk Stan<br>s 5455, v | d. Net Lach<br>/ith Switch, Ne | t Each\$56.40 |



### SHURE "UNISPHERE" MICROPHONES

These rugged new dynamic microphones are recommended for entertainers. Interviewers, singing groups, etc. Spherical screen prevents pop, blast and wind noise, Adaptable to hand or stand use. 533 and 585 have on-off switch and 15 ft. detachable cable. 565 has dual impedance and 18 ft. detachable cable. New 5335AV, 5855AV and 5855BV have built-in volume control on the microphone to permit user to change loudness of the PA system at the microphone location. Satin chrome finish, black trim and black swive  $5\%^{0.27}$ : stand adaptor. Low impedance types are recommended where long mike cables are to be used. Use A95A transformer at right for matching low impedance mikes to high impedance amplifier input. Average size  $6\frac{1}{2}$ ," approx. 2" dia. Wt. 2 lbs.

| approx. 2"<br>Stock<br>No.                                                   | dia, WT<br>Shure<br>Type | Pickup 1<br>Pattern                                                                                               | Impedance<br>Ohms                              | Response<br>Cps.                                                                                     | Output<br>Level                                                                | Net<br>Each                                                            |
|------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 298215<br>298216<br>298217<br>298218<br>29A602<br>29A603<br>298221<br>29A617 | 5855BV<br>565            | Omnidirectional<br>Omnidirectional<br>Cardioid<br>Cardioid<br>Cardioid<br>Cardioid<br>Cardioid<br>Omnidirectional | Low<br>High<br>Low<br>High<br>Low<br>Hi or Low | 40-11,000<br>40-11,000<br>50-12,000<br>50-15,000<br>50-15,000<br>50-15,000<br>50-15,000<br>40-11,000 | 55 db.<br>55.5 db.<br>58 db.<br>58 db.<br>58 db.<br>55 db.<br>55 db.<br>55 db. | \$31.80<br>31.80<br>40.80<br>37.20<br>45.60<br>45.60<br>60.00<br>36.00 |

### CABLE TYPE MICROPHONE TRANSFORMERS COMPLETE WITH MATING CONNECTORS



A high quality transformer which makes it possible to convert a low impedance microphone to a high impedance amplifier input. Solves problems of excessive high frequency loss and objectionable hum when long lengths of cable are used. Transformer size:  $\frac{3}{4}$  (dia. x  $2\frac{1}{2}$ ) long. Most commonly used to match low impedance mike to high impedance, but also usable for high impedance mike to low impedance amplifier.

Model A95A, XL-3-11 input and MCIF high impedance output. Mating plug supplied. \$11.40 No. 29A361, Net Each.

Model A95P. XL-3-11 input with mating connector supplied. High impedance output terminates in permanently attached phone plug with locking ring. output termin No. 29A3035. \$12.60 Net Each

'room'' noises, audience noises and reverberation. 'rovides 70% reduction of background sound isable audio spectrum. reduction of background sound and noise over the entire Provides usable audio

5805A - SB

### NEW MODEL 515SA-SB UNIDYNE

5155A-SE

UNIDYNE

555W

### NEW MODEL 515SA-SB UNIDYNE "B"

55 SERIES UNIDYNE II Famous for dependable indoor and outdoor service in regular or rugged duty. Response 50-15,000 cps. Output —55 db. Selectable 35-50, 150-250 or high impedance. Tilt head, detachable 18 ft. cable. Size: 73/a×2/2×3/2° D. Wt. 3 lbs. \$52.20

No. 29A207. Satin Chrome Model 55S. Net Each...... No. 29B241. Satin Chrome Model 55SW, with Switch. Net Each. \$53.40



### NEW SHURE BALL-TYPE MICROPHONES EVERY NEEDED FEATURE FOR HAND OR STAND USE

588 Series. Feedback-free cardioid pickup pattern, shock-mounted cartridge, wind, pop and blast filters, lockable On-Off switch, broadcast-type Cannon connector, 15 ft. single conductor detachable cable. Includes swivel stand adaptor, 61/5 x 2" dia. Wt. 11/2 lbs. \*588SAC has prewired 1/4" phone plug on cable end; others, less plug.

**5795B.** Extremely rugged. Ideal choice for high quality PA, entertaining, re-cording and studio applications. 20 ft. 2-cond. detachable cable, Cannon con-nector, lockable On-Off switch.

| Stock<br>No.<br>29A633<br>29A635<br>29A634 | Shure<br>Type<br>588SA<br>588SB<br>*588SAC | Pattern<br>Cardioid<br>Cardioid<br>Cardioid | Imped.<br>Ohms<br>High<br>Low<br>High | Response<br>Hz<br>50-13,000<br>50-13,000<br>50-13,000 | Output<br>Level<br>59.5 db.<br>59.5 db.<br>59.5 db. | Net<br>Each<br>\$36.00<br>36.00<br>37.20 |
|--------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------|-------------------------------------------------------|-----------------------------------------------------|------------------------------------------|
| 29A636                                     | 579SB                                      | Omni-<br>directional                        | Low                                   | 50-15,000                                             | —59 db.                                             | 45.00                                    |

### SHURE LAVALIER MICROPHONES



Rugged dynomic mikes having frequency response specially engineered for lavolier use. 560 size 3 ;: " x 1 1/3" D. high or low imped. 5705 size 3/4" dia., has on-off switch, re-sponse 50-12,000 cps. 50-250 ohm imped. Attached light weight cables.

| Stock  | Shure | Output | Cable  | Net     |
|--------|-------|--------|--------|---------|
| No.    | No.   | Level  | Length | Each    |
| 29B268 | 560   |        | 18 ft. | \$27.00 |
| 29B269 | 570S  |        | 30 Ft. | 66.00   |

5705 560

### CARDIOID DYNAMIC COMMUNICATIONS MICROPHONE



SHURE MODEL 522 UNI-COM SHORE MODEL 522 On-COM Problem-solving paging and communica-tions microphone. Reduces noise pick-up. Provides utmost voice intelligibility. Adjustable 93/4" to 121/2" H. Tough Ar-mo-Dur base and case. Dual high or low impedance. Locking or non-locking push bar for relay and microphone. 7 ft. cord cable. Shpg. wt. 2 lbs. No. 29A618. \$39.60 Net Each .

## Electro Voice MICROPHONES FOR EVERY PURPOSE

**ELECTRO-VOICE** FAMOUS DYNAMIC MODEL 664 "VARIABLE D" CARDIOID

> POPULAR CHOICE FOR PERFORMANCE **RUGGEDNESS &** VERSATILITY

**418 DESK STAND** 

Especially recommended for PA service; churches, schools, clu communications—truly the work horse of the microphone field. clubs, recording,

Has Cardioid directional pattern at all frequencies. Built to take rough treatment, yet a superb performer sounding smooth and natural on voice and music. Response 60-15,000 Hz. —58 db output, Has on-off switch, 16 ft, detachable cable, High impedance or 150 ohm tow impedance by moving one wire in connector. 1% max, dia. 7.3 g lg. Wt. 26 oz. Mfg, List \$89.00. Choice No. 29A200, Satin Chrome \$52 40

|                            | φ.σ.ιο   |
|----------------------------|----------|
| Mfg. List \$94.50          | \$56.70  |
|                            |          |
| 564, 674, 644, 623 and 630 | ) \$8.10 |
|                            |          |
| Each                       | \$10.20  |

#### \$10.20 MODEL 674 CARDIOID DYNAMIC

Newest of the EV "Continuously Variable D" microphones. Excellent choice for entertainers, for voice and music. Will take rough handling. Highly ac-claimed because of its outstanding performance and extremely uniform pickup pattern at all frequencies. Has highest rejection of unwanted sound from rear and sides. A three position control selects degree of low-frequency attenuation to overcome feedback and rumble. High or low impedance by changing one pin in connector, Response 60-15,000 Hz. Output -57 db. Has on/off switch in swivel mount for  $\frac{5}{27}$  stand. Satin chrome. Size  $7\frac{7}{8}$ " long, 1" to  $1\frac{1}{4}$ " dia, Detachable 16 ft. cable. Wt. 1 lb. No 298/204 Mfg List \$89.00 Net Each \$53.40 No. 29B204. Mfg. List \$89.00. Net Each ...

#### MODEL 676 CARDIOID - "CONTINUOUSLY VARIABLE"

Rejects side and rear pickup at all frequencies. Has 3-position rumble filter, Finest choice for professional PA, clubs, churches and recording. Response 60-15,000 cps. Output —57 db. Impedance Hi-Z and 150 ohms. Detachable 16 ft. cable. On-off switch, swivel 5%"-27 slip-in adaptor allowing hand or stand use. Satin chrome finish. Mfg. List \$89.00.

| No. 298256. Satin Chrome.<br>No. 298195. Non-Refl. Grey.  | Choice<br>Each                 | \$53.40                    |
|-----------------------------------------------------------|--------------------------------|----------------------------|
| Cold Finished Model 676<br>No. 29B199. Mfg. List \$94.50. | Net Each                       | \$56.70                    |
| No. 29B189-Model 420. Grey.                               | Mfg. List \$21.00.             | adaptor.<br><b>\$12.60</b> |
| Net Each<br>No. 298179-Model 420G. Col-                   | d. Mfg. List \$27.50. Net Each | . T · · · · ·              |

### Electro Voice

#### **MODEL 644 DIRECTIONAL PUBLIC** ADDRESS MICROPHONE



Fine general purpose mikes for paging, communications, home recording. Features uniform pickup from all directions and "Accoustalloy" diaphragm for wide range, blast-proof long-life operation. 630, 623 and 641 have on-off switch, 18 ft. detachable cable, swivel %"-27 mounting.

647A is supplied with lavalier neck cord, belt clip and  $\frac{1}{8}$ -27 stand swivel mount. Quickly removable for hand use. With 18 ft. attached cable.  $\frac{3}{4}$  dia.  $3\frac{5}{8}$  long. Wt. 2 ozs.

| 378 1018 | 5. VVI. Z | 013.                |           |         |         |         |
|----------|-----------|---------------------|-----------|---------|---------|---------|
| Stock    | E-V       |                     | Response  | Output  | Mfg.    | Net     |
| No.      | Type      | Type Element        | Ηr        | Level   | List    | Each    |
| 29A196   | 630       | Dynamic, Hi Imped.  | 60-11,000 | -55 db. | \$55.00 | \$33.00 |
| 29A194   | 623       | Dynamic, Hi or Low  | 60-12,000 | -56 db. | 60.00   | 36.00   |
| 29A637   | 641       | Dynamic, Hi Imped.  | 70-10,000 | -57 db. | 41.50   | 24.90   |
| 29A638   | 641       | Dynamic, Low Imped. | 70-10,000 | -57 db. | 41.50   | 24.90   |
| 29A639   | 647A      | Dynamic, Hi Imped,  | 60-12,000 | -60 db. | 86.50   | 51.90   |
| 29A640   | 647A      | Dynamic, 150 Ohms   | 60-12,000 | -60 db. | 86.50   | 51.90   |

### Carrying

#### **EV MUSIC MAKER MICROPHONES** MODEL 627 CARDIOID FOR HAND AND STAND

A true Cardioid dynamic microphone. Features single direction pickup. Has fast action adaptor for stand, Made for entertainers who like to work "close up." Has smooth, peak-free response, shaped for presence. Empha-sizes low frequencies when used close up. Has built-in pop and dust filter, on/off switch, satin chrome finish. Response 80-11,000 Hz. Output -58 db. Size 67%", 15%" dia. 34" shank. Wt. 1 lb. Complete with 16 ft. detachable cable, no plug. Mfg. List \$63.00.

No. 298203—High Impedance Model 627. YOUR CHOICE No. 29A622—Low Impedance Model 627. EACH \$37.80

MODEL 627PC-MIKE IN CARRYING CASE

Complete entertainer's outfit. High impedance microphone and cable with phone plug attached, ready to use. Fitted molded carrying case cushions mike, protects it during travel. Has space for cable. Shpg. wt. 2 lbs. 20 A 6 22 NA64 1 Lot 6 70 00 ---00

| 110.4 | 67M04 | a INING. LIST | \$10.00. | <b>542.00</b> |
|-------|-------|---------------|----------|---------------|
| Mat   | Each  |               |          |               |
| INCI  | cacn  |               |          | •             |

#### MODEL 631 OMNIDIRECTIONAL HAND AND STAND MICROPHONE

versatile, lightweight, rugged and shock-proof entertainer's microphone.

No. 29A619—High Impedance Model 631. No. 29A620—Low Impedance Model 631. YOUR CHOICE \$37.80 EACH

#### MODEL 631PC-MIKE IN CARRYING CASE

Complete entertainer's outfit. High impedance microphone and cable with phone plug attached, ready to use. Fitted molded carrying case cushions mike, protects it during travel. Has space for cable. Wt. 2 lbs. \$42.00 No. 29A621. Mfg. List \$70.00. Net Each.....



OMNIDIRECTIONAL PICKUP

CARDIOID UNIDIRECTIONAL

635A. Most popular professional quality performers' microphone. Exceptionally good for close-in pickup. Has pop and breath blast filter, RE55. Favorite of the high quality professional EV line. For close instrument miking, audience and interview use, on-the-spot news, etc. RE10. Similar to RE15 below, with slightly less rigid performance tolerances. Matte satin nickel finish. black grille and backbone. RE15. Highest quality super cardioid. Has maximum off-axis rejection at 150° from front. Uniform polar pattern all frequencies. Matte satin nickel finish. All supplied with swivel stand mount, Cannon XLR3 connector and 18 ft. 2-cond. shielded broadcast cable. Wt. less cable approx. 8 ozs.

| Stock<br>No. | E-V<br>Type | Pickup<br>Pattern | Response<br>Hx | Ohms | Output<br>Level | Mfg.<br>List | Net<br>Each |
|--------------|-------------|-------------------|----------------|------|-----------------|--------------|-------------|
| 29A641       | 635A        | Omnidirectional   | 80-13.000      | 150  | -55 db.         | \$ 82.00     | \$ 49.20    |
| 29A642       |             | Omnidirectional   | 40-20.000      | 150  | -55 db.         | 210.00       | 126.00      |
| 29A643       |             | Unidirectional    | 80-13.000      | 150  | -55 db.         | 150.00       | 90.00       |
| 29A644       |             | Unidirectional    | 80-15,000      | 150  | -56 db.         | 255.00       | 153.00      |

See Pages 125 and 126 For Microphone Connectors, Plugs and Adaptors



#### TURNER UNI-DIRECTIONAL DYNAMIC MIKES

MODEL S-500 CARDIOIO. Outstanding performer everywhere because of technical uniformity, near perfect cardioid pickup and frequency response. "Live" at front, "dead" to sounds from rear, allows close up or moving about with great freedom, Cures feedback problems. Response 40-15,000 cps. High or low impedance selection. Output, high —55 db; 150 ohms, —79 db. Professional Canon XLR 4 pin connector, 20 ft. cable. Very outstanding mechanical and appearance design. Shock mounted for severe service. Withstands extremes of temperature and humidity. Slips from 5%"-27 tilt stand adaptor for hand held use. Satin chrome, 1<sup>1</sup>/<sub>24</sub> dia., 61<sup>2</sup>/<sub>8</sub>" 1g. Stand illustrated not supplied. Shog. wt. 3 lbs. No. 298319, Model S-500 with On/Off Switch. Mfg. List \$94.00. \$56.40

Net Each

| COLD FINISHED MODEL 500                                         |
|-----------------------------------------------------------------|
| Very popular for church installations. Specifications as above. |
| No. 29B303. S500C. Mfg. List \$110.00. Net Each                 |
| No. 29B300. Chrome C-7 Stand. Net Each                          |
| No. 29B301. Gold C-7 Stand. Net Each                            |



 MODEL 35 PROFESSIONAL LAVALIER—OMNI-OIRECTIONAL, very high quality dynamic microphone for professional PA or recording applications. Features small size, 3/4" dia., 3" long. Wt, 12 oz. with attached 25 ft, 3-cord cable. High or 150 ohm low impedance selected at end of cable. Response: 70-10,000 Hz, Output —61 db, Desert Cold finished.

 No. 29A626, With Lavalier Neck Cord.
 \$39,00

 Mfg. List \$65.00, Each ...

\$39.00

MOGEL 22850 CARDIOID DYNAMIC. Directional, multi-purpose dynamic for tape recorder use, lectern, PA, etc. Response 70-10,000 Hz. Rear sound pickup reduced 15 db, over most of range. Output —64 db, at high im-pedance. Choice of high or 150-ohm low impedance selected at end of 12 ft, cable. Size 1½,3"x6" long. With Off-On switch, Lavalier cord and swivel stand adapter. Shpg. wt. 1½ lbs. No. 29A627. Mfg. List \$40,00. Net Each.



### ASTATIC AND TURNER MICROPHONE CARTRIDGES

Like new performance for ald mikes. Easily installed. Fit models listed exactly. Easily adapted to many athers.

| Stk. No. | Manufacturer | Type           | Fits Mikes                            | Net Each |
|----------|--------------|----------------|---------------------------------------|----------|
| 29A396   | Astatic      | MC-151 Crystal | JT30, T3                              | \$4.20   |
| 29A397   | Astatic      | MC-127 Ceramic | JT30, T3                              | 4.20     |
| 29A398   | Astatic      | MC-320 Crystal | D-104                                 | 5.70     |
| 29A399   | Astatic      | MC-321 Ceramic | D-104, D-104C                         | 4.20     |
| 29A400   | Astatic      | MC-563 Dynamic | 10D_                                  | 9.90     |
| 29A383   | Turner       | 13C Dynamic    | 9D, 33D, 2" D. x 7/8"                 | 6.60     |
| 29A385   | Turner       | 23 Crystal     | 80, 95X, <u>3</u> ]" D, x <u>3</u> ]" | 4.80     |
| 29B292   | Turner       | 21A Crystal    | 350X, 254X, 133" D. x 1/2"            |          |
| 29B293   | Turner       | 21C Ceramic    | 350C, 254C, 1弱" D. x ½"               | 3.90     |
| 29B313   | Turner       | 27 Crystal     | 454X                                  | 3.90     |

#### TURNER COMMUNICATIONS MICROPHONES

NEW "+3" TRANSISTOR AMPLIFIED BASE STATION MICROPHONES New "+3" TRANSISTOR AMPLIFIED BASE STATION MICROPHONE. Bold new styling, new compression amplifier circuit and exclusive new ceramic interior design make the "+3" the finest, most professional base station microphone offered. Allows user to talk close up or far from mike without varying output signal. Response 300-3,000 Hz, for voice clarity. Has slide lock switch, touch bar, volume control, 3 conductor coiled cord. Blue gun metal and chrome. With wining instructions for more than 100 popular transceivers. Shpg. wt. 3 lbs. No. 29A645 Model +3. Mfg. List \$75.00. Net Each \$45.00

+2 TRANSISTOR AMPLIFIED BASE STATION MICROPHONE WITH VARIABLE OUTPUT LEVEL. Puts the zip back into your CB set and keeps it up to full strength. Features a two transistor preamp with volume con-trol—gives up to 50 times the output level you now have. Just dial your desired signal for maximum modulation all the time. You can even work close or far away from the microphone or change the output for a big or little voice. Has tailored frequency response 300-3500 cps., exclusive touch-to-talk and lock on-off switching. Works with all tube or transistor sets. Blue and chrome finished. Attached coiled cord. Shpg. wt. 3½ lbs. No. 298295. Mfg. List \$55.00. S33.00 Net Each

#### DESK MIKES FOR BASE STATION OR PAGING

"SINGLE SIDEBAND" DESK MIKE

Specially tailored voice response for maximum communications intelligibility. Response 300-3,000 cps. Operates by touch bar on-off switch, lever lock switch or VOX, in relay controlled circuits. Lustrous black and chrome. Size as above. Mfg. List \$32.00. Shgs. wt. 3 lbs. No. 29B380. Model 454X. Crystal. Output —48 db. Net Each........\$19.20 No. 29B379. Model 454C. Ceramic. Output —52 db. Net Each.......\$19.20

M+2 TRANSISTOR AMPLIFIED MOBILE MIKE WITH VOLUME CONTROL

\$23.70



WITH VOLUME CONTROL Adds range to CB mobiles because of full voice power. Has built-in 2 transistor pre-amp with volume control that lets you adjust your modulation for the best performance. Has tailored frequency response, 350-3500 cps. press-to-talk switch, 5 ft. coiled cord. Internal transistor amplifier takes power from internal battery. Mfg. List \$39.50. Wt. 2 lbs. No. 298276. Model M+2U. Wired for relay switching. No. 29A607. Model J-M+2U. Wired for electronic switching.





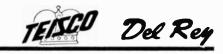


tailored trequency response gives "punchy" high intelligibility on Specially

Specially tailored trequency response gives power, the second stands. Chrome adaptor furnished with 5 ft. cable permits use with any 5%"-27 stand with cord outside of adaptor as illustrated. "G" stand grip bar operates DPST mike and relay control, can be locked "on" if desired. Model UG-8 stand has DPDT switch with all leads terminated in base. Adapts to any circuit. D104 and 10D are all chrome; stand, chrome with gray base. All models, high impedance Average shape wit. 2 lbs. With stand 5 lbs.

| Stk. No. | Astatic<br>Type              | Element Type                                                                                                                 | Response<br>Cps                     | Output<br>Level | Mfg.<br>List                                         | Net<br>Each                                          |
|----------|------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------|------------------------------------------------------|------------------------------------------------------|
|          | 10D<br>GD-104<br>G-10-D<br>G | Crystal<br>Dynamic<br>Crystal with G Stand<br>Dynamic with G Stand<br>Grip-to-talk Stand only<br>Grip-to-talk Stand only (1) | 30-7500<br>300-3000<br>Read descrip | —52 db.         | \$31.00<br>39.70<br>51.20<br>59.90<br>24.95<br>29.95 | \$18.60<br>23.82<br>30.72<br>35.94<br>14.97<br>17.97 |

FINEST GUITARS AND AMPLIFIERS BY





 DELUXE CONCERT SIZE STEEL STRING FOLK GUITAR Finest quality concert size steel string folk guitar. Screwed bridge. Slotted head. Steel reinforced neck. Edges bound top and bottom. Ornate trim around sound hole. Inlaid position marker on 19 fret fingerboard. Length 391/2". Shog. wt. 8 lbs. Highest quality import. \$19.88 No. 400162. Each No. 400505. Carrying Case for above. Each \$19.88 \$9.95

### **3 AMERICAN MADE ALL-MAHOGANY**

CONCERT SIZE STEEL STRING FOLK GUITAR Finest American hand craftsmanship at lowest price ever! All edges including sound hole are bound in ivory. Has screwed Rosewood bridge. Inlaid pearl position markers on 19 fret, Rosewood fingerboard. Length: 391/2 inches. Shpg. wt. 9 lbs. \$29.95 wr. 9 IDS. No. 40A506. Each No. 40A505. Carrying Case for above. Each...... \$9.95

#### PROFESSIONAL ELECTRIC GUITAR AMPLIFIERS



6-WATT SOLID STATE AMPLIFIER (1)

• 2 INPUTS • • PILOT LIGHT Advanced solid state circuitry. Provides finest reproduction with complete set of functions. Has heavy duty 6 inch speaker for distortion-free perform-ance. Has separate volume and tone controls. Acoustically designed solid wood enclosure covered with scuff resistant vinyl. Fully UL approved. Wt. 15 Ibs. Case size 14½ x 12 x 6". Shpg. wt. 12 lbs. \$26.95

### 2 18-WATT SOLID STATE AMPLIFIER WITH REVERB AND TREMOLO

2 INPUTS • 2 INPUTS Features more power and more features than any amplifier at anywhere near this low price. Has big heavy duty 10 inch musical instrument speaker. Finest response, features volume, tone, tremolo and reverb controls. Beautiful vinyl covered wood case. Fully UL approved, Wt, 17 lbs, Case size 181/4 "x12/4" x 61/4". Shpg, wt. 23 lbs. \$54.95 No. 40A2001. Each .....

Beautifully styled double cut-away guitar featuring an adjustable pick-up and chrome bridge. Has volume and tone controls. Removable and adjustable neck features a 22 fret Rosewood fingerboard. Length:  $391/2^{"}$ . Shpg. vt. 12 lbs. Highest Quality import. \$19.95 No. 40D144. Each No. 40A507. Carrying Case for above. Each .....\$9.95

### **(5)** TWO PICK-UP WITH TREMOLO

| Large body double cut-away style featuring deluxe adjustable roller bridge, |
|-----------------------------------------------------------------------------|
| chrome compression tremolo, two adjustable pick-ups, standby switches, and  |
| volume and tone controls, Removable and adjustable neck features a 22 Fret  |
| Rosewood finger board, Length 391/2". Shpg. Wt. 14 lbs. \$36.95             |
| No. 40A511, Each \$30.73                                                    |
| No. 40A507. Carrying Case for above. Each. \$9.95                           |
|                                                                             |

#### **(6) HOLLOW BODY TWO PICK-UP WITH ADJUSTABLE NECK**

(e) HULLOW BODY TWO PICK-UP WITH ADJUSTABLE NECK Beautifully detailed double cut-away thin line electric guitar with two ultra-sensitive, adjustable pick-ups, Friction free adjustable roller bridge. Chromed compression tremolo, Individual noiseless velvet-touch standby switches. Volume and tone controls. The delicately arched body is 1¾" thin, bound with decorative celluloid both front and back and is protected with a pick guard and control panel guard. The removable and adjustable neck is lami-nated for extra strength and features a 19 Fret Rosewood finger board 39" x 1334". Shpg. Wt. 20 lbs. No. 400A12. Each.

No. 40A512. Each...... No. 40A507. Case for above. Each.....

#### FOR ELECTRIC GUITARS



RETRACTABLE SHIELDED CABLE

REINAULABLE SMILLDED GABLE Extends to 15 feet, retracts to 3 feet. Ex-tremely flexible. Both ends angle phone plugs. Shpg. wt. 1 lb. No. 33A6584. Special Each .......\$2.19 New 25 ft. shielded retractable cord. Re-tracts to 4 feet. Plugs as above. Wt. 1 lb. No. 33A6596. Special Each ......\$3.29

#### STANDARD CABLES FOR GUITARS



Special

| Grey  | vinyi  | çover  | SHU | elde | 'u ca | Dies | 101  | driy  |
|-------|--------|--------|-----|------|-------|------|------|-------|
|       |        | inclu  |     |      |       |      |      |       |
| Good  | quali  | ty, Bu | ilt | to   | take  | hai  | rd u | sage. |
| Molde | d rig  | ht ang | gle | star | ndard | l ph | one  | plug  |
| each  | end.   | -      | -   |      |       |      |      |       |
| No. 3 |        |        |     |      |       |      |      |       |
| 6 Ft  | . long | . Wt.  | 8   | oz.  | Ea.   |      |      | 51.19 |

| 6 Ft. long. Wt.                         | 8  | oz.  | Ea | 51.19 |
|-----------------------------------------|----|------|----|-------|
| No. 33A6605.<br>10 Ft, long. Wt.        | 14 | oz.  | Ea | 1.69  |
| <b>No. 33A6606.</b><br>25 Ft. long. Wt. | 2  | lbs. | Ea | 2.19  |

# HIGH QUALITY MUSIC PICK-UPS CRYSTAL CONTACT MIKE Provides brilliant tone. For guitars, pianos, etc. Hi-impedance type. Has o' shielded cable, brass phone plug. 40A500.Import. \$2.79 Special

DYNAMIC With Tone & Volume Controls

Use with metallic stringed instruments. With 8' cable and plug. Bright chrome plate. Import. Wt. 11/2 40A501. Special. \$7.95

73

\$9.95





| LOW PRICES UN AIRES                                                                    |                                 |          |
|----------------------------------------------------------------------------------------|---------------------------------|----------|
| (1) Metal Magazines, Holds 36 slides. Sh                                               | pg. wt. 8 ozs.                  |          |
| No. 66A218. Each                                                                       | 6 Lots, Each                    | \$1.95   |
| (2) Vari-Mount Plastic Magazines. Holds                                                | 36 slides. Shpg. wt. 8 oz.      | 1        |
| No. 66A219, Each\$1.45                                                                 | 6 Lots, Each                    | \$1.34   |
|                                                                                        |                                 |          |
| No 66.3220 Each \$2.95                                                                 | 6 Lots, Each                    | \$2.65   |
| <ul> <li>(3) Circular Magazine. Holds 100 slides.</li> <li>No. 66 A220. Each</li></ul> | wt 1 lb.                        |          |
| (4) Stack Loader. Holds 150 slides. Shpg.<br>No. 66A221. Each                          | 6 Lots Fach                     | \$8.95   |
| NO. 00/1621. DACI                                                                      | 4 20(0) Decition                |          |
|                                                                                        | NTN A 37.01                     |          |
| SAWYER 7                                                                               | KAIS                            |          |
| Roto Tray, Holds 100, Shpg. wt. 1 lb.                                                  |                                 |          |
| No. 66A223. Each \$2.95                                                                | 6 Lots, Each                    | \$2.65   |
| Easy-Edit Tray. Holds 36. Shpg. wt. 8 oz.                                              |                                 | 1        |
| No. 66A224. Each \$1.45                                                                | 6 Lots, Each                    | \$1.29   |
|                                                                                        |                                 |          |
| YANKEE T                                                                               | RAYS                            |          |
| Universal. 30 slot with plastic cover. Fits                                            | the Sawyer's Anscomatic, V      | /iewlex, |
| Keystone, AO Executive. Tower Automat                                                  | ic TDC-Bell & Howell and        | Kodak    |
| Changers. Shog. wt. 8 oz.                                                              |                                 |          |
| No. 66A225. Each                                                                       | 6 Lots, Each                    | 59c      |
| Devene Welleneek 26 slot                                                               | Shog wt 8 oz                    |          |
| Revere-Wollensak. 36 slot<br>No. 66A226. Each                                          | Shpg. wt. 8 oz.<br>6 Lots, Each | 990      |
| NO. 66A226. Each                                                                       | O LUCS, Decil                   |          |

.....\$1.25

#### YASHICA TL 35 MM SLR CAMERA HAS THROUGH-THE-LENS \$157<sup>95</sup> CdS EXPOSURE CONTROL REFLEX VIEWING INTERCHANGEABLE LENS MFG. LIST \$199.95 FOCAL PLANE SHUTTER

Deluxe single lens reflex camera with Deluxe single lens reflex camera with cross-coupled, match needle exposure control through the lens. Standard 50 MM lens focuses 18" to infinity for beautifully sharp pictures or color slides, ASA range 25-800. Speeds: 1/2-1/500 sec, bulb, self-timer. FP-X sync. Has PC flash connector and "Hot" shoe. Supplied with deluxe black case and 50 MM F/2 lens. Wt, 5 lbs, Japan. Yashica Price \$199.95.

No. 66A251, B-A Special Value \$157.95





F/2 LENS

| CAU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | E ON EDEC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      | POLAROID LAND PI                                                                                                                                                                                                             | CTURE FILM                                                                                       |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E ON FRES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      | Type 47 or 107                                                                                                                                                                                                               | SWINGER                                                                                          |
| <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A's KODAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FILM                                                 |                                                                                                                                                                                                                              | SPECIAL                                                                                          |
| PRICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | INCLUDE*P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ROCESSIN                                             | G \$238                                                                                                                                                                                                                      | Black & White                                                                                    |
| and the second s | ~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | and they                                             | EACH 5 LOTS                                                                                                                                                                                                                  | 8 Exposure<br>Rolls                                                                              |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 Tomas                                              | Black & White in 10<br>Sec., Color in 60 Sec-<br>onds.                                                                                                                                                                       | 66A3049. Each \$1.90<br>\$ Lots, Each\$1.77                                                      |
| Trans-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Kodachan Kodachanan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | COLOR MOTOR CA                                       | Y                                                                                                                                                                                                                            | Net 3@ 5@                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Koan                                                 | No. ASA Speed Pictures<br>66A3007   47-3000 Black & White                                                                                                                                                                    | Each Each Each                                                                                   |
| I FLITER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      | 66A3008 42.200 Black & White<br>66A3009 37.3000 Black & White<br>66A3010 32.400 Black & White                                                                                                                                | 1.99 1.86 1.75                                                                                   |
| B-A's LOW PRICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | B-A': LOW PRICE                                      | E 66A3011 48-75 Color Roll<br>66A3012 107-3000 B & W Pack                                                                                                                                                                    | 4.79 4.45 4.18<br>2.69 2.53 2.38<br>5.15 4.79 4.49                                               |
| INCLUDES PROCESSI<br>C X 126<br>12 EXP. \$287                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 35 MM. \$207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |                                                                                                                                                                                                                              |                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                                                                                                                                                                                                                              |                                                                                                  |
| PRICES INCLUDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PACOLOR-X FILM FC<br>PROCESSING - YOU RECEIVE PRIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TS BACK FROM PROCESSOR                               | See separate processing mailers                                                                                                                                                                                              | below, All film be-                                                                              |
| 5tock<br>No.<br>66A3040 CX126 Ins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Kodak No.<br>tamatic Kodacolor-X, 12 exp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each Each                                            | 10 m, low for outdoors, electronic fla<br>Each<br>53,45                                                                                                                                                                      |                                                                                                  |
| 66A3041 CX126 Ins<br>66A3042 CX127 Kot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | tamatic Kodacolor-X, 20 exp.<br>dacolor-X, 12 exp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6.37 5.75<br>4.15 3.74                               | 5.11 FOR INSTANT LOAD<br>3.32 Buy CX Type for Prints, other                                                                                                                                                                  | ers for Slides                                                                                   |
| 66A3044 CX620 Ko                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | dacolor-X, 12 exp.<br>dacolor-X, 12 exp.<br>dacolor-X, 20 exp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4.15 3.74<br>4.15 3.74<br>5.47 4.92                  | 3.32         Stock         Kodak No.         ASA         Kodak           3.32         No.         & Exposure         Speed         Price         N           4.38         66A3071         CX126-12         80         \$1.40 |                                                                                                  |
| KODA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | K KODACHROME M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                      | 66A3072 CX126-20 80 1.95<br>66A3058 KX126-20 64 2.10                                                                                                                                                                         | 1.76 1.72 1.66<br>1.89 1.85 1.78                                                                 |
| Day Kodachrome II Type A<br>Stk. No. Kodak No. Stk. No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Kdchrm. II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Net 3 @ 1                                            | 10 (a 66A3065 EH126-20 160 2.70                                                                                                                                                                                              | 2.07 2.02 1.95<br>2.43 2.38 2.29                                                                 |
| 66A3015 KA464 Use Outdo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 31 K A459<br>Bors & Indoors<br>32 K A460<br>8 MM 25' Double Ro<br>Super 8 MM 50' Ko<br>8 MM 25' Double M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | dapack Crtrge 4.13 3.67                              | 3.04 Buy CX135 for Prints. All others                                                                                                                                                                                        |                                                                                                  |
| 66A3017 K 449 66A30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 32 K A460 8 MM 25' Double M<br>33 K A449 16 MM 100' Roll<br>34 K A447 16 MM 50' Mag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      | 9.88 No. & Exposure Speed Price N<br>6-59 66A3076 CX135-20 80 \$1.95                                                                                                                                                         |                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ODACHROME FILM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FOR COLOR SLIDE                                      | SCA2054 V125 20 05 0.10                                                                                                                                                                                                      | 1.89 1.85 1.79<br>2.65 2.60 2.51<br>1.89 1.85 1.79                                               |
| Stk. No. Kodak No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASA Description<br>25 20 Exp. Kodachrome 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      | @ Ea.         66A3057         KX135-36         64         2.95           66A3059         EX135-20         64         2.30                                                                                                    | 2.85 2.60 2.51<br>2.07 2.02 1.95                                                                 |
| 66A3020 K 135-36<br>66A3021 KX135-20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 25 36 Exp. Kodachrome II<br>64 20 Exp. Kodachrome X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4.87 4.38 3.<br>3.41 3.07 2.                         | .90 66A3061 EH135-20 160 2.70<br>73 66A3062 EH135-36 160 3.75                                                                                                                                                                | 2.88       2.84       2.72         2.43       2.38       2.30         3.38       3.30       3.19 |
| 66A3023 KX126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 64 20 Exp. Kodachrome X In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | stamatic 3.41 3.07 2.                                | .90<br>.73 66A3063 EHB135-20 125 2.70<br>COLOR ROLL                                                                                                                                                                          | 2.43 2.38 2.30<br>FILM                                                                           |
| PRICI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | S EKTACHROME FOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNTED SLIDES                                         | CX for Prints, EX for<br>66A3074 CX120 80 1.25<br>66A3075 CX620 80 1.25                                                                                                                                                      | 1.13 1.10 1.06                                                                                   |
| Stk. No.         Kodak No.           66A3024         EX135-20           66A3025         EX135-36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Description<br>55 MM Day or Flash, 20 Exp.<br>55 MM Day or Flash, 36 Exp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 64 Blue \$3.63 \$3.27 \$                             | O Ea.         66A3075         CX620         80         1.25           52.90         66A3073         CX127         80         1.25           6A3070         EX127         64         1.35                                     | 1.13 1.10 1.06<br>1.13 1.10 1.06<br>1.21 1.19 1.15                                               |
| 6664076 FH135-20 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5 MM Hi-Speed Day, 20 Exp.<br>55 MM Hi-Speed Day, 36 Exp.<br>55 MM Hi-Speed 'B.'' 20 Exp.<br>75 MM Hi-Speed 'B.'' 20 Exp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 160 Blue 4.05 3.65<br>160 Blue 5.72 5.15             | 3.24                                                                                                                                                                                                                         | CALINGS ON                                                                                       |
| 66A3030 EH126-20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Instamatic Hi-Speed Day, 20 Exp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 64 Blue 3.63 3.27<br>160 Blue 4.05 3.65              | 3.24 COMPARE B-A's HUGE<br>2.90<br>3.24 PREPAID PROCESSING                                                                                                                                                                   |                                                                                                  |
| *High Quality Color Slide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 27 Day or Flood, 12 Exp.<br>Processing by 3M in modern high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 64 Blue 2.62 2.35                                    | 2.10 If any of your films have been pu                                                                                                                                                                                       | -vou may buy the                                                                                 |
| mailers supplied with film                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Berkey photo, Send exposed film                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | to address on Prepaid Proces                         | ssing prepaid process mailers listed be<br>Each mailer is good for prepaid pr                                                                                                                                                | elow and save \$\$\$.<br>rocessing of one roll.                                                  |
| KODA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | K KODACHROME M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                      | MAILED DIRECTLY<br>COAST-TO-COAST PRO                                                                                                                                                                                        | CESSING LABS                                                                                     |
| See separate processing mail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | The second |                                                      | New faster, finer service. Latest<br>tion in-lab time only one day                                                                                                                                                           | у.                                                                                               |
| Stk. No. Kodak No. Stk. N<br>66A3050 K459 66A30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A Kodachrome II<br>o. Kodak No. Description<br>166 KA459 8 MM 25' Double F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Price Net Ea. Each Ea                                | Institution         MAILERS FOR KOD           Inch         Use mailers below for color prints           .30         35 mm, or 120 Kodacolor film.                                                                            |                                                                                                  |
| 66A3051 KA464 Use 0<br>66A3035 K460 66A30<br>66A3052 K449 66A30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | utdoors & Indoors Super 8 MM 50' Kod<br>67 KA460 8 MM 25' Double M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | apak Cart. 3.20 2.88 2.82 2<br>Aag. 4.40 3.96 3,88 3 |                                                                                                                                                                                                                              | Net 3 (i) 10 (i)<br>r: Each Each Each                                                            |
| 66A3053 K447 66A30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 69 KA447 16 MM 50' Mag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7.05 6.35 6.21 6                                     | .70 66A3036 CX126-12 Instam'c 12 ex<br>.00 66A3037 CX126-20 Instam'c 20 ex                                                                                                                                                   | (p. \$3.34 \$2.90 \$2.49                                                                         |
| returned direct to you. Suf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DDAK PREPAID PROC<br>to any Kodak Photolab listed or<br>fix 3S on Kodak No. indicates siz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | mailer Einished work is need                         | 16 -                                                                                                                                                                                                                         |                                                                                                  |
| FOR CO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LOR PRINTS FROM KOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ACOLOR FILM                                          | KODACHROME, EKTACH                                                                                                                                                                                                           | IROME, DYNA-                                                                                     |
| Stock         Kodak           No.         No.           66A3077         DP12-35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | For Film Type<br>CX120, 620, 127 and 126—12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Kodak B-<br>Price Net I<br>Exp. \$4.25 \$3.          | Each Use mailers below for movie film                                                                                                                                                                                        | and still film. You                                                                              |
| 66A3078 DP20-3S<br>66A3079 DP20-2R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CX126, 20 Exposure<br>CX135, 20 Exposure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6.40 <b>5.</b><br>5.00 <b>4</b> .                    | 82 will receive back mounted slides (<br>76 Stock<br>50 No. 3M Mailer by Dynachrome                                                                                                                                          | Net 3 (a 10 @                                                                                    |
| FOR CAR<br>66A3080 PK20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | For Kodak 35 MM-20 Exposure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Slide Film                                           | 66A3000 8 MM 25' Roll or Super 8<br>Kodapak Cartridge                                                                                                                                                                        | \$1.78 \$1.40 \$1.05                                                                             |
| 66A3081 PK36<br>66A3082 PK27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | and Kodak 126 20 Exposure SI<br>For Kodak 35 MM-36 Exposure<br>For Kodak 127 Slide Film                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Slide Film 3,40 3.<br>2,35 2.                        | 89         66A3001         8 MM, Magazine           06         66A3002         16 MM, 100' Roll           01         66A3003         16 MM, Magazine                                                                         | .49 .46 .43<br>2.74 2.53 2.34<br>.41 .39 .36                                                     |
| 66A3083 PK59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SMM AND SUPER-8 MO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Double                                               | 66A3004 35 MM & 126-20 Exp.<br>66A3005 35 MM, 36-Exp.<br>66A3006 620 120 127 & 126                                                                                                                                           | 1.78 1.40 1.05<br>2.57 2.04 1.53                                                                 |
| 66A3084 PK60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8 MM Roll or Super 8-50' Car<br>For Kodachrome II Movie Film<br>8 MM 25 Ft. Magazine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      | 89 Instamatic 12 Exp.                                                                                                                                                                                                        | 1.78 1.40 1.05                                                                                   |
| 66A3085 PK49<br>66A3086 PK47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | For 16 MM 100 Ft. Roll<br>For 16 MM 50 Ft. Magazine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5.10 4.4                                             | PLEASE DO NOT MAIL FILM TO BUR                                                                                                                                                                                               | RSTEIN-APPLEBEE CO.                                                                              |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                                                                                                                                                                                                                              |                                                                                                  |

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| Stock<br>No. | Bulb<br>Type | Class S |       | Color<br>Temp, I |   | Same<br>As |        |        |        | Case of<br>144 For |
|--------------|--------------|---------|-------|------------------|---|------------|--------|--------|--------|--------------------|
| 66A6032      | FC-1         | Cube 2  | MCPS  | 5500° I          | К |            | \$2.25 | \$1.57 | \$1.47 | \$16.56            |
| 66A6027      | AG-1B        |         | 4,000 | 6000°            | ĸ | AG-1B      | 2.04   | 1.43   | 1.33   | 15.00              |
| 66A6028      | M-3B         | MGFP    | 9,000 | 6000° I          | ĸ |            | 2.40   | 1.68   | 1.57   | 17.64              |
| 66A6029      | M-2B         |         | 6,000 | 5100° I          | ĸ | M-2B       | 2.40   | 1.68   | 1.57   | 17.64              |
| 66A6030      | 25B          | M       | 9,000 | 6000° I          | ĸ | 5B         | 2.64   | 1.84   | 1.72   | 19.32              |
| 66A6031      | FP26B        | FP      | 8,500 | 6000° I          | ĸ | 6B         | 2.88   | 2.04   | 1.88   | 21.12              |

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| Stock<br>No.                             | Bulb<br>Type                     |               | Color<br>Temp, K                         | Same<br>As |      |      | Case of<br>144 For |
|------------------------------------------|----------------------------------|---------------|------------------------------------------|------------|------|------|--------------------|
| 66A6022<br>66A6023<br>66A6025<br>66A6026 | AC-1<br>M-3<br>Press 25<br>FP-26 | 16,000 20,000 | 3800° K<br>3800° K<br>3800° K<br>3800° K | 5          | 1.68 | 1.57 | 17.64              |



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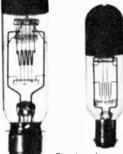


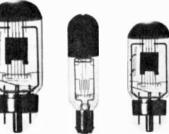


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| 66A6033            | *BCK                 | 500T6/Q/TF                                  | \$11.50      | \$9.43       | \$8.85         | \$8.28         |
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| 66A6061            | BVR                  |                                             | 1.75         | 1.43         | 1.35           | 1.26           |
| 66A6000            | CAL                  | 300T10F4                                    | 4.35         | 3.56         | 3.35           | 3.13           |
| 66A6001            | CAR                  | 150T10TF1                                   | 3.95         | 3.24         | 3.04           | 2.84           |
| 66A6062            | CBA                  | 3570 (33                                    | 11.90        | 9.76<br>2.34 | 9.16<br>2.19   | 8.57<br>2.05   |
| 66A6049            | CBJ/CBC<br>CEM       | 75T8/73<br>110T8/108SC                      | 2.85         | 2.05         | 1.93           | 1.80           |
| 66A6050<br>66A6002 | CLS/CLG              | 200781/ (11                                 | 3.95         | 3.24         | 3.04           | 2.84           |
| 66A6003            | CLX/CMB              | 300T81/2/11<br>300T81/2/12<br>300T81/2/2 SC | 3.55         | 2.91         | 2.73           | 2.56           |
| 66A6004            | CMV/CMT              | 30018/2/12                                  | 4.60         | 3.77         | 3.53           | 3.32           |
| 66A6005            | CTS/CTT              | 1M/T12TF3                                   | 9.15         | 7.51         | 7.05           | 6.59           |
| 66A6006            | CWA                  | 750T12/TF1                                  | 8.25         | 6.77         | 5.70           | 5.33           |
| 66A6007            | čwd                  | 300T I DTF1                                 | 3.95         | 3.24         | 3.04           | 2.84           |
| 66A6008            | ČXK                  | 300T10P                                     | 4.45         | 3.65         | 3.43           | 3.20           |
| 66A6063            | CXL.                 | 3001.00                                     | 6.20         | 5.08         | 4.77           | 4.46           |
| 66A6009            | CYC                  | 300T10SC                                    | 3.95         | 3.24         | 3.04           | 2.84           |
| 66A6010            | ČŻA/CZB              | 500T10F1                                    | 5.75         | 4.72         | 4.43           | 4.14           |
| 66A6011            | CZX/DAB              | 500T10P                                     | 5.50         | 4.51         | 4.24           | 3.96           |
| 66A6051            | DAH                  | 500T12TF/H/200                              | 7.50         | 6.15         | 5.78           | 5.40           |
| 66A6012            | DAK                  | 500TIDTF                                    | 5.25         | 4.31         | 4.04           | 3.78           |
| 66A6013            | DAY                  | 500T1D/TF/H                                 | 6.45         | 5.29         | 4.97           | 4.65           |
| 66A6052            | DCA                  | 150T12TFR/LV                                | 5.75         | 4.72         | 4.43           | 4.14           |
| 66A6014            | DCH/DFP              | 150T12TFR2                                  | 5.50         | 4.51         | 4.24           | 3.96           |
| 66A6053            | DCL                  | 150T12TF1/D                                 | 6.25         | 5.13         | 4.81           | 4.50           |
| 66A6015            | DDB                  | 750T12P                                     | 5.75         | 4.72         | 4.43<br>4.77   | 4.14           |
| 66A6054            | DEJ                  | 750T12/BLR                                  | 6.20<br>5.95 | 5.08<br>4.88 | 4.58           | 4.28           |
| 66A6055            | DEK                  | 500T12TF2/H<br>750T12TF                     | 5.10         | 5.08         | 3.93           | 3.61           |
| 66A6056<br>66A6016 | DEP<br>DFA           | 150T12TFR                                   | 5.95         | 4.88         | 4.58           | 4.28           |
| 66A6017            | DFC/DFN              | 150T12TFR1.                                 | 5.50         | 4.51         | 4.24           | 3.96           |
| 66A6018            | DFD<br>DFD           | IMT12P                                      | 6.15         | 5.04         | 4.74           | 4.43           |
| 66A6064            | DFE                  |                                             | 5.00         | 4.10         | 3.85           | 3.60           |
| 66A6057            | DFK                  | 1M/T12/3LR                                  | 6.75         | 5.54         | 5.20           | 4.86           |
| 66A6058            | DFR                  | 500T12/DFR                                  | 5.65         | 4.53         | 4.35           | 4.07           |
| 66A6059            | DFW                  | 500T12TF2                                   | 5 40         | 4.43         | 4.16           | 3.89           |
| 66A6019            | DFY                  | 1M/T12/5LR                                  | 6.75         | 5.54         | 5.20           | 4.86           |
| 66A6020            | DCH                  | 750112/500                                  | 7.95         | 6.52         | 6.12           | 5.72           |
| 66A6034            | DJH                  | 500T12TF                                    | 7.30         | 5.99         | 5.62           | 5.26           |
| 66A6060            | DJL                  | 150T12TFR3                                  | 5.95         | 4.88         | 4.58           | 4.28           |
| 66A6042            | DKM                  | 250T14TFR/LVD/1                             | 1 8.95       | 7.34         | 6.89           | 6.44<br>5.90   |
| 66A6043            | DLR                  | 250T14/TFR/LVD                              | 8.20<br>6.30 | 6.72<br>5.17 | 6.31<br>4.85   | 4.54           |
| 66A6044            | DLS/DHX              | 150T14/TFR/LVD<br>150TB20/D                 | 9.95         | 8.16         | 7.66           | 7.15           |
| 66A6035            | *DNE                 | IM/T20/13P                                  | 7.15         | 5.86         | 5.51           | 5.15           |
| 66A6045            | DRB/DRC<br>DRS       | 1M/T20/MP                                   | 7.25         | 5.95         | 5.58           | 5.22           |
| 66A6046<br>66A6036 | *DVS                 | 500T3/Clear                                 | 15.25        | 12.50        | 11.74          | 10.98          |
| 66A6037            | *DVY                 | 65006T/TP                                   | 7.35         | 6.03         | 5.66           | 5.29           |
| 66A6038            | *DYP                 | 6000C7/TP                                   | 8.90         | 7.30         | 6.85           | 6.41           |
| 66A6039            | *DYS                 | 6000C7/TP2                                  | 8.90         | 7.30         | 6.85           | 6,41           |
| 66A6040            | *DYV                 | 600QC6/TP3                                  | 9.50         | 7.79         | 7.32           | 6.84           |
| 66A6065            | *EGH                 |                                             | 10.50        | 8.61         | 8.09           | 7.56           |
| 66A0066            | ¢EHA                 |                                             | 11.90        | 9.76         | 9.16           | 8.57           |
| 66A6021            | <b>≑FAL</b>          | 420740                                      | 8.80         | 7.22         | 6.78           | 6.34           |
| 66A6047<br>66A6041 | ¢FC <b>B</b><br>¢FFJ | 600T4/Q<br>600W120VT/4Q                     | 9.30<br>9.20 | 7.63<br>7.54 | 7.16<br>7.08   | 6.70<br>6.62   |

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#### **SYLVANIA** SUN GUN **MOVIE LIGHT** \$1977 **B-A SPECIAL**

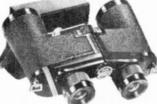
New Sun Gun made especially for Super 8 cam-eras. Bromine lamp has a tiny  $2\frac{1}{2}$ " reflector yet provides brilliant 650 watt illumination, more light than reflectors many times its size.  $3400^{\circ}$  K color temp. Rated at 650 watts 115 VAC. Complete with 10 ft. AC cord. Size 4x3x3''. Shgs. wt. 1 lb. Mfg. List 514.95. No. 66A206. Model SC-8. Net Each \$12.77MTB: LIST \$17.77. No. 66A206. Model SC-8. Net Each \$12.11 No. 66A207. Handle for above. Net Each. ....\$1.95





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SMOOTH CENTER FOCUSING Jason Deluxe Venture 4000 8X32. Magnificent 8 power binocular for all purpose viewing. Compact size, ad-justable eye cups, micro-smooth cen-ter focusing, high intensity, coated BA K-4 prisms for brilliant distortion free viewing, one piece magnesium body, deluxe carrying case. Height 5". Popular price \$79.50. Japan. No. 66A9015, Wt. 18 oz. **\$49.95** BA Special Value Jason Deluxe Venture 7X35 Wide Angle. Fantastic 631 ft. spread at 1000 yds. The very finest general purpose binocular for viewing at any time of day. Has adjustomatic eye cups for use with or without glasses, fully coated optics, BA K-4 prisms, streamlined magnesium body, genuine leather case. Height 5½", Wt. 30 oz. Popular price \$120.00. Japan. No. 66A9016. BA Special Value

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Empire 7X35 Wide Angle Binocular, Follow all the action without missing a play, See 40% more light with this compact binocular. Relative Brightness 37.5, Designed for easy handling. Great for vacations, sight-seeing, bird-watching, all sports. Has chrome trim, soft rubber flexomatic eyecups. Carrying case, shoulder strap, neck strap, cleaning cloth. Height 4". Weight 24 oz. Popularly priced at \$29.95. No. 66A9000, Japan, BA Special Value. Empire Super Sport 7X35 Wide Angle. Next best thing to a front row seat. The most handsome of all the Empire wide angle binoculars. Stretches the field of view to 578 ft. at 1000 yds. Brightness 37.5. Deluxe chrome trimmed aluminized body, rich grained case. Height 5". Weight 28 oz. Popularly priced at \$36.95.

priced at \$36.95 \$29.95 No. 66A9013. Japan. BA Special Value ......



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Jason 6X18 Extra Wide Angle. Re-markable 578 ft. field of view at 1000 yds. usually possible only in binoculars twice the size. Exclusive UVC fully coated optics. Relative brightness, 54. Center focusing, chrome knurling, black zipper pouch, neck strap. Height 3". Weight 13 oz. Pop-ularly priced at \$59.95. Japan. No. 66A9017. BA Special Value



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|-------------------------------------------------------------|------------|--------------|-----------------|---------------------|------------------------------------------------------|-----------------|-------------------------------------------------|------------------|----------------|-----------------|-------------------|------------|-------------------|-----------------|-------------------------|-------------|---------------------|----------------------|
| 1N34A                                                       | IR         | .40          | .36             |                     | 1-24                                                 | 25-99           | 2N697                                           | RCA              | .63            | .46             | No.<br>2N3011     | RCA        | Each<br>.99       | Each<br>.72     | No.<br>2N5496           | Mfg.<br>RCA | Each<br>1,29        | .94                  |
|                                                             | 70         | 1-99         | 100-999         | 1N2070              | ST .35<br>1-99                                       |                 | 2N699<br>2N706A                                 | RCA<br>RCA       | 1.16<br>.73    | .84<br>.53      | 2N3053<br>2N3054  | RCA<br>RCA | .75<br>1.16       | .54<br>.84      | 2N5497                  | RCA         | 1.29                | .94                  |
| 1N34A<br>1N58                                               | TR<br>TR   | .24<br>.55   | .18<br>,41      | 1N2070              | IR .41                                               | .35             | 2N709<br>2N718A                                 | RCA<br>RCA       | 1.32           | .96             | 2N3055            | RCA        | 1.82              | 1.32            | 3N128<br>3N138          | RCA<br>RCA  | 1,45<br>3,30        | 1.06<br>2. <b>40</b> |
| 1 N60                                                       | IR         | 1-4<br>,40   | 5-9<br>.36      | 1N2070A             | IR ,41<br>1-24                                       | .35             | 2N720A                                          | RCA              | 1.32           | .96             | 2N3118<br>2N3119  | RCA<br>RCA | 4.95<br>5.36      | 3.60<br>3.90    | 3N139<br>3N140          | RCA<br>RCA  | 2.89<br>1.62        | 2,10<br>1,18         |
| 1N64                                                        | IR         | .40          | .36             | 1N2071              | ST .37                                               | .32             | 2N886A<br>2N914                                 | TR<br>Use 2N     |                | 6.00            | 2N3228<br>2N3241A | RCA<br>RCA | 1.62<br>.73       | 1.18<br>.53     | 3N141<br>3N142          | RCA         | 1.55                | 1.13                 |
| 1 N82A<br>1 N87A                                            | IR<br>IR   | .95<br>.45   | .85<br>,40      | 1N2071              | 1-99<br>IR .50                                       | 100-999<br>_44  | 2N917<br>2N918                                  | RCA<br>RCA       | 1.27<br>1.41   | .92<br>1.02     | 2N3242A<br>2N3261 | RCA        | .83               | .60             | 3N143                   | RCA<br>RCA  | 1.39                | 1.01                 |
| 1 N248                                                      | TR         | 1-99         | 100-999         | IN2071A<br>1N2326   | IR .50<br>RCA .55                                    | .44             | 2N 1023                                         | RCA              | 2,72           | 1,98            | 2N3262            | RCA<br>RCA | 1.32<br>7.43      | .96<br>5.40     | 3N152<br>3N153          | RCA<br>RCA  | 1,78<br>1,58        | 1.30<br>1.15         |
| 1N248C                                                      | RCA        | 1.65         | 1.20            | 1N2389              | IR Us                                                | e ST14          | 2N1066<br>2N1177                                | RCA<br>Use 40    | 1,98           | 1.44            | 2N3375<br>2N3439  | RCA<br>RCA | 10,80<br>3,71     | 8.95<br>2.70    | 3N154<br>3N159          | RCA<br>RCA  | 1.62<br>2.18        | 1.18                 |
| 1N248RC<br>1N249C                                           | RCA<br>RCA | 1.65<br>2.06 | 1.20<br>1.50    | 1N2859A<br>1N2860A  | RCA .37<br>RCA .40                                   | .27<br>.29      | 2N1178<br>2N1179                                | Use 40<br>Use 40 |                |                 | 2N3440<br>2N3441  | RCA<br>RCA | 1.82              | 1.32            | 5MA4-D                  | IR 1        |                     | 5-9.83               |
| 1N249RC<br>1N250C                                           | RCA<br>RCA | 2.06<br>2.72 | 1.50<br>1.98    | 1 N2970<br>1 N3002A | TR 5.10<br>TR 5.20                                   | 3.85<br>3.90    | 2N1180<br>2N1183                                | Use 40<br>RCA    |                | 40246           | 2N3442            | RCA        | 4.54              | 1.80<br>3.30    | 9006A                   | IR          | 1-99<br>2,30        | 100-999<br>2.05      |
| 1N250RC<br>1N270                                            | RCA<br>TR  | 2.72         | 1,98            | 1N3016              | TR 2.40                                              | 1.60            | 2N1183A                                         | RCA              | 2.31           | 1.68            | 2N3478<br>2N3512  | RCA<br>RCA | 1,90<br>1,08      | 1.38<br>.78     | 10C1<br>10C2            | IR<br>IR    | .32                 | .29<br>.32           |
| 1N283                                                       | ŤŔ         | .51          | .40             | 1N3020A<br>1N3025A  | TR 2.25<br>TR 2.65                                   | 1.60<br>1.80    | 2N1183B<br>2N1184                               | RCA<br>RCA       | 2.89<br>2.48   | 2,10<br>1,80    | 2N3525<br>2N3528  | RCA<br>RCA | 2,31<br>1.58      | 1.68<br>1,14    | 1004                    | IR          | .42                 | .38                  |
| 1 N 2 9 5                                                   | IR         | 1-4<br>.36   | 5-9<br>.32      | 1N3039<br>1N3193    | TR 2.40<br>RCA .35                                   | 1.60<br>.26     | 2N1184A<br>2N1184B                              | RCA<br>RCA       | 2.81<br>4.13   | 2.04 3.00       | 2N3529<br>2N3553  | RCA<br>RCA | 1.96<br>4.37      | 1.43 3.18       | 10C6<br>10C8            | IR<br>IR    | .52<br>.75          | .46                  |
|                                                             |            | 1-99         | 100-999         | 1N3194<br>1N3195    | RCA .38<br>RCA .53                                   | .28             | 2N1224                                          | RCA              | 1.24           | .90             | 2N3583            | RCA        | 2.48              | 1.80            | 10010                   | IR<br>IR    | 1.70<br>Use 1       | 1,20<br>N2069        |
| 1N4838                                                      | TR         | .53          | .35             | 1N3196              | RCA .74                                              | .54             | 2N1225<br>2N1226                                | RCA<br>RCA       | 1.41           | 1.02            | 2N3584<br>2N3585  | RCA<br>RCA | 4.13              | 3.00            | 1004<br>1006            | IR<br>IR    | Use 1               | N2070<br>N2071       |
| 1 N 538<br>1 N 540                                          | RCA<br>RCA | .45          | .32             | 1N3209<br>1N3253    | TR 2.60<br>RCA .38                                   | 1.60            | 2N1302<br>2N1303                                | RCA<br>RCA       | .42<br>.42     | .30<br>.30      | 2N3600            | RCA        | 3.80              | 2.76            | 180B2A                  | IR          | 2,38                | 2.14                 |
| 1 N625                                                      | TR         | .43          | .29             | 1N3254              | RCA .42                                              | .30             | 2N1304<br>2N1305                                | RCA<br>RCA       | .50            | .36             | 2N3632<br>2N3669  | RCA<br>RCA | 12.75             | 10.55<br>2.04   | 18084A<br>18086A        | 1R<br>IR    | 2.81<br>2.90        | 2.48<br>2.75         |
| 1N681<br>1N695A                                             | TR         | 1.53         | 1.02            | 1N3255<br>1N3256    | RCA .56<br>RCA .78                                   | .41<br>.57      | 2N1306                                          | RCA              | .62            | .45             | 2N3670<br>2N3730  | RCA<br>RCA | 3,80<br>1.24      | 2.76<br>.90     | 18088A<br>180810A       | IR          | 3.42                | 3.25                 |
| 1N705<br>1N752A                                             | TR<br>TR   | 1.50         | 1.25            | 1N3287<br>1N3563    | TR .60<br>RCA .94                                    | .42             | 2N1307<br>2N1308                                | RCA<br>RCA       | .58<br>.91     | .42<br>.66      | 2N3731<br>2N3732  | RCA<br>RCA | 1.62              | 1.18<br>.78     | 180C6A                  |             | 5.12<br>2.30        | 4.95                 |
| 1N756A                                                      |            | 1.75         | 1.50            | 1N3754<br>1N3755    | RCA .32<br>RCA .33                                   | .23<br>.24      | 2N1309<br>2N1395                                | RCA<br>RCA       | .91<br>1.82    | .66<br>1.32     | 2N3771<br>2N3772  | RCA        | 4.13              | 3.00            | 180J6A<br>20C1          |             | 2.30<br>.85         | 2.05<br>.72          |
| 1N757<br>1N759A                                             | TR         | 1.75         | 1.50            | 1N3756              | RCA .35                                              | .26             | 2N1396<br>2N1397                                | RCA<br>RCA       | 1.93           | 1.40            | 2N3772            | RCA        | 7.43              | 5.40            | 20C2<br>20C4            | IR<br>IR    | .95<br>1.10         | .80<br>.93           |
| 1N768<br>1N770                                              | TR<br>TR   | 1.55<br>.48  | 1.30<br>.38     | 1N4728<br>1N4764    | Thru<br>IR 1,25                                      | .93             | 2N1479                                          | RCA              | 2.15           | 1.56            | 2N3866<br>2N3878  | RCA<br>RCA | 2.97              | 2.16 3.60       | 20C6<br>20C8            | IR<br>IR    | 1.40<br>2.15        | 1.19<br>1.83         |
| 1N812<br>1N816                                              | TR<br>TR   | 2.20<br>.40  | 1.55<br>.27     | 1N4728A<br>1N4754A  | Thru<br>IR <b>1.90</b>                               | 1.40            | 2N1480<br>2N1481                                | RCA<br>RCA       | 2.31<br>2.48   | 1.68<br>1.80    | 2N3879<br>2N3896  | RCA<br>RCA | 6.60              | 4.80<br>3.18    | 20010                   | IR          | 2.65                | 2.25                 |
|                                                             |            | 1-24         | 25-99           | 1N4785              | RCA 1.08                                             | .78             | 2N1482<br>2N1483                                | RCA<br>RCA       | 3.30 2.89      | 2.40            | 2N3897            | RCA        | 4.37              | 3.66            | 20H3N<br>20H3P          | ST<br>St    | Use 1<br>Use 1      | N 1 344R<br>N 1 344  |
| 1N1084                                                      | ST         | .75          | .63<br>100-999  | 1N5211<br>1N5212    | RCA .38<br>RCA .42                                   | .28<br>.30      | 2N1484<br>2N1485                                | RCA              | 3.63           | 2.64            | 2N3898<br>2N3899  | RCA<br>RCA | 6.60<br>8.75      | 4,80<br>6.36    |                         |             | 1.99                | 100-999              |
| 1N1196A<br>1N1196RA                                         | RCA<br>RCA | 4.95         | 3.60<br>3.60    | 1N5213              | RCA .56                                              | .41             | 2N1486                                          | RCA              | 4.46<br>6.77   | 3.24<br>4.92    | 2N3932<br>2N3933  | RCA<br>RCA | 1.40              | 1.02            | 21PT5<br>21PT10         |             | 1.10                | .82<br>.90           |
| 1N1198A<br>1N1198RA                                         | RCA        | 7.01         | 5.10            | 1N5214<br>1N5215    | RCA .81<br>RCA .42                                   | .59<br>.30      | 2N1487<br>2N1488                                | RCA              | 4.54<br>4.95   | 3.30<br>3.60    | 2N4036            |            |                   |                 | 21PT20<br>21PT40        | IR<br>IR    | 1.30<br>1.70        | .98<br>1,27          |
| 1N1199A                                                     | RČA        | 7.01         | 5.10<br>.90     | 1N5216<br>1N5217    | RCA .45<br>RCA .60                                   | .33             | 2N1489<br>2N1490                                | RCA<br>RCA       | 7.43<br>8.25   | 5.40<br>6.00    | 2N4037            | RCA<br>RCA | 1.32              | .96<br>.84      | 21PT60                  | IR          | 2.25                | 1.70                 |
| 1N1199RA<br>1N1200A                                         | RCA        | 1.24<br>1.41 | .90<br>1.02     | 1N5218              | RCA .85                                              | .62             | 2N1491<br>2N1492                                | RCA<br>RCA       | 1.82 4.29      | 1.32            | 2N4063<br>2N4064  | RCA<br>RCA | 3.80<br>1,90      | 2.76<br>1.38    | 30RB2AP                 | IR          | 1-99<br>4.27        | 100-999<br>3.82      |
| 1N1200RA                                                    | RCA        | 1.41         | 1.02            | 1N5411<br>2N104     | RCA .61<br>Use 2N217                                 | .44             | 2N1493<br>2N1524                                | RCA              | 7.01           | 3.12<br>5.10    | 2N4068<br>2N4069  | RCA<br>RCA | 1.34<br>1.40      | .97<br>1.02     | 30RB4AP<br>30R86AP      | IR<br>IR    | 4.74<br>5.25        | 4.27<br>4.73         |
| 1N1202                                                      | ST         | 1.25         | 1.07            | 2N109<br>2N139      | Use 2N217<br>Use 2N1638                              | or 40262        | 2N1525                                          | RCA<br>Use 2N    |                | .34             | 2N4074            | RCA        | .73               | .53             | 40H3N<br>40H3P          | ST<br>ST    | Use 11<br>Use 11    | N1346R<br>N1346      |
| 1N1202R                                                     | ST         | 1.25         | 1.07            | 2N140<br>2N175      | Use 2N1639                                           |                 | 2N1526<br>2N1527                                |                  | .48<br>1526    | .35             | 2N4101<br>2N4102  | RCA<br>RCA | 3.05<br>2.64      | 2.22<br>1.92    | 40HF5                   | IR          | 1.15                | .80                  |
| 1N1202<br>1N1202A                                           | IR<br>RCA  | 2.60         | 1.75            | 2N176               | Use 2N2613<br>Use 2N2869,                            | /2N301          | 2N1605<br>2N1605A                               | RCA              | .62            | .45             | 2N4240<br>2N4259  | RCA<br>RCA | 2.89<br>1.90      | 2.10            | 40HF5R<br>40HF10        | IR<br>IR    | 1.15<br>1.45        | .80<br>1.05          |
| 1N1202RA                                                    | RČA        | 2.48         | 1.80            | 2N215<br>2N217      | Use 2N217<br>RCA .57                                 | .41             | 2N1613                                          | RCA              | 1.09           | .80<br>.54      | 2N4314<br>2N4346  | RCA<br>RCA | 1.24<br>2.31      | .90<br>1.68     | 40 HF 10 R<br>40 HF 20  | IR<br>IR    | 1.45<br>2.00        | 1.05<br>1.40         |
| 1N1204                                                      | ST         | 1-24<br>1.67 | 25-99<br>1.43   | 2N218<br>2N219      | Use 2N1638<br>Use 2N1639                             |                 | 2N1631<br>2N1632                                | Use 2N<br>RCA    | 1632<br>.58    | .42             | 2N4347            | RCA        | 2.97              | 2.16            | 40 HF 20 R<br>40 HF 40  | IR<br>IR    | 2.00 3.05           | 1.40 2.20            |
| 1N1204R                                                     | ST         | 1.67         | 1.43            | 2N220               | Use 2N2613                                           |                 | 2N1637<br>2N1638                                | RCA<br>RCA       | .57<br>.50     | .41<br>.36      | 2N4348<br>2N4390  | RCA<br>RCA | 4.13              | 3.00<br>.54     | 40HF40R<br>40HF60       | IR<br>IR    | 3.05<br>4.55        | 2.20                 |
| 1N1204A                                                     | RCA        | 1-99<br>4.46 | 100-999<br>3.24 | 2N270<br>2N274      | RCA .76<br>RCA 1.24                                  | .55             | 2N1639<br>2N1683                                | RCA<br>RCA       | .53<br>1.90    | .39<br>1,38     | 2N4427<br>2N4440  | RCA<br>RCA | 2.15<br>11.90     | 1.56<br>9.85    | 40 HF 60 R<br>40 HF 100 | IR          | 4.55                | 3.30<br>3.30         |
| 1N1204RA                                                    | RCA        | 4.46         | 3.24            | 2N301<br>2N301A     | Use 2N2869,<br>Use 2N2870,                           |                 | 2N1700<br>2N1701                                | RCA              | 1.90<br>2.31   | 1.38            | 2N4934<br>2N4936  | RCA<br>RCA | 1.40<br>1.90      | 1.02            | 40HF100R                |             | 9.90<br>9.90        | 7.20<br>7.20         |
| 1N1206<br>1N1206R                                           | ST<br>ST   | 2.34         | 2.00            | 2N351<br>2N370      | Use 2N2869/<br>Use 40242                             | 2N301           | 2N1702                                          | RCA              | 4.54           | 3.30            | 2N5034<br>2N5035  | RCA<br>RCA | 1.34              | .98             | 60H3N<br>60H3P          | ST<br>ST    | Use 11<br>Use 11    | N 1 348R<br>N 1 348  |
|                                                             |            | 2.34         | 2.00            | 2N371<br>2N372      | Use 40244<br>Use 40243                               |                 | 2N1711<br>2N1844A                               | RCA<br>RCA       | .94<br>Use 2   | .69<br>N3896    | 2N5036            | RCA        | 1.42              | 1.04            | 60 M                    | ST          | 1-24                | 25-99                |
| 1N1206A<br>1N1206RA                                         | RCA<br>RCA | 6.19<br>6.19 | 4.50<br>4.50    | 2N376               | Use 2N2869                                           | 2N301           | 2N1846A<br>2N1849A                              | RCA<br>RCA       | Use 2<br>Use 2 | N3897<br>N3898  | 2N5037<br>2N5109  | RCA<br>RCA | 1.41<br>3.47      | 1.02 2.52       | 00M                     | 31          | .85                 | .70                  |
| 1N1344                                                      | ST         | 1-24         | 25-99           | 2N384<br>2N388      | RCA 1.65<br>RCA .47                                  | 1.20<br>.34     | 2N1850A<br>2N1893                               | RCA<br>RCA       | Use 21<br>1.08 | N3899<br>.78    | 2N5179<br>2N5180  | RCA<br>RCA | .65<br>.48        | .47<br>.35      | 61-8968<br>61-8969      | IR<br>IR    | 1-4<br>1.15<br>2.95 | 1.03 2.65            |
| 1N1344R                                                     | ST         | 1.20         | 1.03<br>1.03    | 2N388A<br>2N398     | RCA .88                                              | .64<br>.60      | 2N1905<br>2N1906                                | RCA              | 4.13           | 3.00 4.80       | 2N5181<br>2N5182  | RCA<br>RCA | .45<br>.40        | .33             |                         |             | 1-99                | 100-999              |
| 1N1346<br>1N1346R                                           | ST<br>ST   | 1.50<br>1.50 | 1.29<br>1.29    | 2N398A<br>2N398B    | RCA .83<br>RCA .91<br>RCA 1.16                       | .66             | 2N2015                                          | RCA              | 9.08           | 6.60            | 2N5183<br>2N5184  | RCA<br>RCA | .32<br>.45        | .23<br>.33      | 70H10A<br>70H10AR       | IR<br>IR    | 3.35<br>3.35        | 2.56<br>2.56         |
| 1N1348<br>1N1348R                                           | ST<br>ST   | 2.12 2.12    | 1.82<br>1.82    | 2N404<br>2N404A     | RCA .42<br>RCA .55                                   | .30             | 2N2016<br>2N2102                                | RCA              | 9.90<br>1.13   | 7.20            | 2N5185            | RCA        | .52               | .38             | 70H20A<br>70H20AR       | IR<br>IR    | 4.80<br>4.80        | 3.51<br>3.51         |
| 111581                                                      | TR         | 1-99<br>1.10 | 100-999<br>.70  | 2N405               | Use 2N406                                            | .40             | 2N2147<br>2N2148                                | RCA              | 1.57<br>1.08   | 1.14            | 2N5186<br>2N5187  | RCA<br>RCA | .40<br>.45<br>.55 | .29<br>.33      | 70H40A<br>70H40AR       | IR<br>IR    | 6.95<br>6.95        | 4.85<br>4.85         |
| 1N1581<br>1N1582<br>1N1612                                  | TR<br>RCA  | 1.20         | .80             | 2N406<br>2N407      | RCA .41<br>Use 2N408                                 | .30             | 2N2160 Us<br>2N2270                             | e ir 2160<br>RCA | 0<br>.91       | .66             | 2N5188<br>2N5189  | RCA<br>RCA | .65               | .40<br>.47      | 70 H60A<br>70 H60 A R   | IR<br>IR    | 8.70<br>8.70        | 5.85<br>5.85         |
| 1N1612R                                                     | RCA        | 1.08         | .78<br>.78      | 2N408<br>2N409      | RCA AR                                               | .35<br>or 40262 | 2N2369A<br>2N2405                               | RCA              | 1.65           | 1.20            | 2N5239<br>2N5240  | RCA<br>RCA | 8.25<br>11.55     | 6.00<br>8.00    | 100P805P<br>100P81P     | IR<br>IR    | 4.05<br>4.30        | 3.25<br>3.35         |
| 1N1612<br>1N1612R<br>1N1613<br>1N1613R<br>1N1613R<br>1N1614 | RCA<br>RCA | 1.24         | .90<br>.90      | 2N410<br>2N411      | Use 2N1638<br>Use 2N1638<br>Use 2N1639<br>Use 2N1639 | or 40262        | 2N2475                                          | RCA              | 1.62           | 1.18            | 2N5262<br>2N5296  | RCA<br>RCA | 1.62              | 1.18            | 100PB2P<br>100PB4P      | IR<br>IR    | 5.15<br>6.35        | 4,15                 |
| 1N1614<br>1N1614R                                           | RCA<br>RCA | 1.90         | 1.38            | 2N412<br>2N414      | Use 2N1639                                           | or 40261        | 2N2476<br>2N2477<br>2N2613                      | RCA              | 1.16<br>1.32   | .84<br>.96      | 2N5297<br>2N5298  | RCA<br>RCA | 1.04              | .76             | 100P86P<br>4403         | IR          | 9.95                | 5.15<br>8.00         |
| 1N1615<br>1N1615R                                           | RCA<br>RCA | 3.71 3.71    | 2.70 2.70       | 2N581               | RCA .42<br>RCA .50                                   | .30<br>.36      | 2NZ613<br>2N2614                                | RCA<br>RCA       | .55<br>.50     | .40<br>.36      | 2N5320<br>2N5321  | RCA<br>RCA | 2.15              | 1.56            | 4403                    | RCA         | 1.32                | .96                  |
| 1N1616                                                      | RCA        | 5.36         | 3.90            | 2N582<br>2N585      | RCA .66<br>RCA .99                                   | .48             | 2N2614<br>2N2631<br>2N2708<br>2N2857<br>2N2869/ | RCA :            | 3.47<br>2.31   | 2.52            | 2N5322            | RCA        | 2.15              | 1.56            | 4448<br>7163            | RCA         | 1.21                | .88.                 |
| 1N1616R<br>1N1694                                           | RCA<br>IR  | 5.36<br>.56  | 3.90<br>.37     | 2N586               | RCA 1.73                                             | .72<br>1.26     | 2N2857<br>2N2869/                               |                  | 4.46           | 3.24            | 2N5323<br>2N5415  | RCA<br>RCA | 1.57<br>3.30      | 1.14 2.40       | 40022 40050             | RCA         | .83                 | .88<br>.60           |
| 1N1764A<br>1N1785                                           | RCA<br>TR  | .52<br>2.75  | .38<br>1.95     | 2N591<br>2N647      | RCA .58<br>RCA 1.08                                  | .42<br>.78      | 214301                                          | RCA              | 1.52           | 1.11            | 2N5416<br>2N5442  |            | 4.95<br>11.47     | 3,60<br>8.34    | 40051                   | RCA         | .99<br>1.21         | .72<br>.88           |
| 1N2069                                                      | ST         | 1-24         | 25-99<br>.29    | 2N649<br>2N683      | RCA .86<br>RCA Use 2                                 | .63<br>N3896    | 2N2870/<br>2N301A                               | RCA 3            | 3.15           | 2.29            | 2N5490<br>2N5491  | RCA<br>RCA | 1.07              | .78<br>.78      | 40080<br>40081          | RCA<br>RCA  | 1.08<br>1.41        | .78<br>1.02          |
|                                                             |            | 1-99         | 100-999         | 2N685<br>2N688      | RCA Use 2                                            | N3897<br>N3898  | 2N2895<br>2N2896                                | RCA 1<br>RCA 2   | 1.41<br>2.06   | 1.02            | 2N5492<br>2N5493  | RCA<br>RCA | 1.19              | .86             | 40082<br>40084          | RCA<br>RCA  | 4.04<br>.99         | 2.94<br>.72          |
| 1N2069<br>1N2069A                                           | IR<br>IR   | .32<br>.32   | .28<br>.20      | 2N690<br>2N696      | RCA Use 2<br>TR 1.50                                 | N3899<br>1.00   | 2N2897                                          | RCA 1<br>RCA     | 1.16           | .84             | 2N5494<br>2N5495  | RCA        | 1.19              | .85             | 40217<br>40218          |             | Use 2               | N3261                |
| 00                                                          |            | _            |                 | N                   |                                                      |                 |                                                 |                  |                |                 | 2110-133          | NUA        | 1.13              | .00             | 40215                   |             | use 2               | N3261                |

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## SEMICONDUCTOR DIRECTORY

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------|----------------|--------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|--------------|---------------------|------------------|-------------------|------------------|------------------|----------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.<br>40220   |                      | Each<br>2N3261 |                    |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  | Mfg. Each<br>IR .80 | Each<br>.72  | DD06                | IR .5            | 5 .49             |                  | MAL .5           | 9.49                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | RCA .53              | .39            | 40478              | RCA .66               | .48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  | IR .90              |              | E075L               | IR .5            | 9.50              | KD2112           |                  |                      |
| acc       a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 40234          | RCA .42              | .3D            | 4048D              | RCA .48               | .35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CD215D           |                     |              | E300L               | IR .9            | 2                 |                  | FEN .8           | 5.68                 |
| North         North <th< td=""><td>40236</td><td>RCA .48</td><td>.35</td><td></td><td></td><td></td><td>CD2151</td><td>RCA 3.96</td><td>2.88</td><td></td><td></td><td></td><td>MP1D0</td><td></td><td></td></th<>                                                                                                                                                   | 40236          | RCA .48              | .35            |                    |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CD2151           | RCA 3.96            | 2.88         |                     |                  |                   | MP1D0            |                  |                      |
| Alter         Col. 36.3         Sol. 36.3         Sol. 16.3         So                                                                                                                                                                                                                     | 40238          | RCA .43              | .32            | 40486              | RCA 2.39              | 1.74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                     |              | F4                  | ST U             | e 1N207D          |                  | FEN .8           | 5 .68                |
| 102.4       2.47       3.4       3.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40240          | RCA .38              | .28            | 40513              | RCA 1.24              | .90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CD2202D          | RCA 5.45            | 3.95         | F6                  |                  |                   |                  | 1-               | 5-9                  |
| 00000       FCA 139       13       FCA 130       13       FCA 139       13       FCA 130                                                                                                                                                                                                                                                                                                                                                                                                  | 40243          | RCA .47              | .34            | 40519              | RCA 1.41              | 1.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                     |              | F8                  |                  |                   |                  | 1.               | 9 10-24              |
| Accord         Cold 1.10         Cold 1.10 <thco< td=""><td>40245</td><td>RCA .40</td><td>.29</td><td>40526</td><td>RCA 1.62</td><td>1.18</td><td></td><td>RCA 1.73</td><td>1.26</td><td></td><td>MAL 1.1</td><td>7 .78</td><td></td><td>1.</td><td>9 1D-99</td></thco<> | 40245          | RCA .40              | .29            | 40526              | RCA 1.62              | 1.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | RCA 1.73            | 1.26         |                     | MAL 1.1          | 7 .78             |                  | 1.               | 9 1D-99              |
| Bits         Bits <th< td=""><td>40250</td><td>RCA 1.16</td><td>.84</td><td>40 528</td><td>RCA 1.57</td><td>1.14</td><td>861</td><td>RCA 1.73</td><td>1.26</td><td>FW200</td><td>MAL 1.2</td><td>7.85</td><td>S3MC</td><td>IR 3.9</td><td>5 3.51</td></th<>                                                                                                                                            | 40250          | RCA 1.16             | .84            | 40 528             | RCA 1.57              | 1.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 861              | RCA 1.73            | 1.26         | FW200               | MAL 1.2          | 7.85              | S3MC             | IR 3.9           | 5 3.51               |
| 0 to 4 dees         0 to 4 dees <th0 4="" dees<="" th="" to=""> <th0 4="" dees<="" th="" to=""></th0></th0>                                                                                                                                      | 40254          | RCA .78              | .57            | 4053D              | RCA 2.31              | 1.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 846              | RCA 1.90            | 1.38         | FW400               | MAL 1.5          | 0 1.00            |                  | IR 4.9           | 5 4.4D               |
| AD201         ECA 12.00         P.32         AD202         ECA 12.00         P.33         AD201         ECA 12.00         P.33         AD201         FCA 12.00         P.33         AD201 </td <td>40263</td> <td>Us</td> <td>e 40490</td> <td>40538</td> <td>RCA 1.36</td> <td>.99</td> <td>849</td> <td></td> <td>1.38</td> <td>FWLD1D0</td> <td>MAL 2.1</td> <td>8 1.45</td> <td>S490</td> <td>ST 2.2</td> <td>D 1.58</td>                                                                    | 40263          | Us                   | e 40490        | 40538              | RCA 1.36              | .99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 849              |                     | 1.38         | FWLD1D0             | MAL 2.1          | 8 1.45            | S490             | ST 2.2           | D 1.58               |
| Bits         Bits <th< td=""><td>40281<br/>4029D</td><td>RCA 2.48</td><td>1.80</td><td>40542</td><td>RCA 1.31</td><td>.95</td><td>845</td><td></td><td>1.8D</td><td>FWLD400</td><td>MAL 3,0</td><td>2 2.00</td><td></td><td>ST 4.2</td><td>1 3.60</td></th<>                                                                                                                                           | 40281<br>4029D | RCA 2.48             | 1.80           | 40542              | RCA 1.31              | .95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 845              |                     | 1.8D         | FWLD400             | MAL 3,0          | 2 2.00            |                  | ST 4.2           | 1 3.60               |
| 22311         CC. 32         33         4655         RCA 424         223         RCA 120         1.38         GL         SI 47         325         SISSIAN         SI 12         SISSIAN                                                                                                                                                                                                                                                                                                         | 4D309          | RCA .7D              | .51            | 40544              | RCA .75               | and the second se | 848              | RCA 2.48            | 1,80         |                     | 1.2              | 4 25-99           | S6121-5          | ST 5.6           | 1 4.81               |
| No.1         CA. 1/2         Co. 1/2 <thco. 1="" 2<="" th=""> <thco. 1="" 2<="" th=""> <thco.< td=""><td>40311</td><td>RCA .73</td><td>.53</td><td>40554</td><td>RCA 4.44</td><td>3.22</td><td>832</td><td>RCA 1.90</td><td>1.38</td><td>G4</td><td>ST .4</td><td>3.37</td><td>S6230A-1</td><td>ST 1.7</td><td>7 1.52</td></thco.<></thco.></thco.>      | 40311          | RCA .73              | .53            | 40554              | RCA 4.44              | 3.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 832              | RCA 1.90            | 1.38         | G4                  | ST .4            | 3.37              | S6230A-1         | ST 1.7           | 7 1.52               |
| Alasie         Ch. 19         J.4         Alasie         Line         Line         J.30         Circl         Feb 3.30         Size 0.31         J.30         Size 0.31         J.31         Size 0.31         J.31 <thsize 0.31<="" th=""> <thsize 0.31<="" th=""> <th< td=""><td>4D313</td><td>RCA 2.23</td><td>1.62</td><td>40559</td><td>RCA .70<br/>RCA .70</td><td>.51</td><td>844</td><td>RCA 1.90</td><td>1.38</td><td>G8</td><td>ST .6</td><td>2 .53</td><td>S6230A-3</td><td>ST 2.5</td><td>4 2.17</td></th<></thsize></thsize>                 | 4D313          | RCA 2.23             | 1.62           | 40559              | RCA .70<br>RCA .70    | .51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 844              | RCA 1.90            | 1.38         | G8                  | ST .6            | 2 .53             | S6230A-3         | ST 2.5           | 4 2.17               |
| addiff         CCA         addiff         CCA <t< td=""><td>40315</td><td>RCA .75</td><td>.54</td><td>4D562</td><td>RCA 4.54</td><td>3.30</td><td>862</td><td>RCA 1.90</td><td></td><td></td><td>FEN 9.9</td><td>5</td><td>S6240</td><td>ST 3.7</td><td>6 3.22</td></t<>                                                                                                                                        | 40315          | RCA .75              | .54            | 4D562              | RCA 4.54              | 3.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 862              | RCA 1.90            |              |                     | FEN 9.9          | 5                 | S6240            | ST 3.7           | 6 3.22               |
| Carbon         Carbon<                                                                                                                                                                                                                                                                                                      | 40317          | RCA .78              | .57            |                    |                       | 3.3D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | RCA 1.90            | 1.38         |                     | FEN 1.9          | 6 1.57            | S6240-2          | ST 6.9           | 3 5.93               |
| 4123         RCA         1.24         99         4023         RCA         1.29         1.20         C2311         FCA         1.29         L         CA         200         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40319          | RCA 1.16             | .84            | 40565<br>40566     | RCA 7.43              | 5.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 836<br>CD2311/   |                     |              | GB32J2              | FEN 1.9          | 6 1.57            |                  | ST 12.0          | 0 10.10              |
| approx         RCA         JO         JI         approx         RCA         Log Jing         Res         Res        Res         Res <th< td=""><td>40321</td><td>RCA 1.24</td><td>.90</td><td>40568</td><td>RCA 7.01</td><td>5.1D</td><td>CD2312E</td><td>RCA 1.9D</td><td>1.38</td><td>GD25J1</td><td>FEN 3.2</td><td>4 2.60</td><td></td><td>IR .</td><td>.59</td></th<>                                                                                                                                                                                   | 40321          | RCA 1.24             | .90            | 40568              | RCA 7.01              | 5.1D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CD2312E          | RCA 1.9D            | 1.38         | GD25J1              | FEN 3.2          | 4 2.60            |                  | IR .             | .59                  |
| ab225         RCA         1.30         ab272         RCA         1.30         ab272         RCA         1.30         ab273         RCA         1.54         rest         rest <th< td=""><td>40323</td><td></td><td></td><td>40570</td><td>RCA 1D.75</td><td>7.8D</td><td>CD2314E/</td><td></td><td></td><td></td><td>mplete List</td><td>ing</td><td></td><td></td><td></td></th<>                                                                                                                                                                                | 40323          |                      |                | 40570              | RCA 1D.75             | 7.8D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CD2314E/         |                     |              |                     | mplete List      | ing               |                  |                  |                      |
| 40323       RCA 1.24       90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 40325          | RCA 1.90             | 1.38           | 40572              | RCA 7.01              | 5.1D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CD2315E          | RCA 4.46            | 3.24         |                     | IR .9            | 4 .63             | SQ2503           |                  |                      |
| 40232         RCA         3.3         20037         RCA         1.36         1.36         SCRUC         IR         2.30         1.58           40340         RCA         1.36         1.36         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.36         1.35                                                                                                                                                                                                                                                                                                                                                                                      | 4D328          | RCA 2.19             | 1.6D           | 40574              | RCA 10.75             | 7.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C02317E          | RCA 4.46            | 3.24         | IR106A              | IR 1.1           | 8 .79             |                  |                  |                      |
| alase         PCA         JES         JES <thjes< th=""> <thjes< td="" th<=""><td>4D346</td><td>RCA 1.14</td><td>.83</td><td>40576</td><td>RCA 3.29</td><td>2.38</td><td>······</td><td>1-99</td><td>1D0-499</td><td>IR1D6C</td><td>IR 1.7</td><td>0 1.15</td><td>SCRD2C</td><td>IR 3.2</td><td>0 1.98<br/>D 2.88</td></thjes<></thjes<>                                                                                                                                             | 4D346          | RCA 1.14             | .83            | 40576              | RCA 3.29              | 2.38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ······           | 1-99                | 1D0-499      | IR1D6C              | IR 1.7           | 0 1.15            | SCRD2C           | IR 3.2           | 0 1.98<br>D 2.88     |
| 46349         RCA         1.58         1.13         B-3MC         IR         1.73         I.55         CL503         CCL         1.55         1.25         1.25         2.25-39           40335         RCA         1.32         1.30         1.30         1.30         1.30         1.35         1.24         2.25-39           40355         RCA         1.32         1.30         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.35         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36         1.36                                                                                                                                                                                                                                                                                                                                                                                                       | 4D348          | RCA 1.06             | .77            | 40582              | RCA 5.12              | 1.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL5M4            | CL 1.50             | 1.25         | 1R683               | IR 6,1           | 9 4.13            |                  |                  |                      |
| 20233         Dick         1/2         2/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2         1/2<                                                                                                                                                                                                                                                                                                                                                                                                                  | 40354          | RCA 1.18             | .86            | B-3MC              |                       | 1D-99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CL503            | CL 1.50             | 1.25         | IR690               | IR 11.9          | 5 8.DO            |                  | ST 1.5           | i5 1.33              |
| addise         RCA 153         75         BCC+100         IX         9.39         CL091         CL091         CL191         CL091         CL191         C                                                                                                                                                                                                                                                                                                                                          | 40359          | RCA .32              | .23            |                    | IR 9.95               | 8.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                     | 1.25         | IR1601              | IR 4,9           | 4 3.40            | ST3A20N          | ST 2.1           | 4 1.83               |
| 42353       RCA 1.52       1.22       CA3000       RCA 3.30       2.76       CL603       CL 1.75       1.50       IR1727       IR 5.20       3.80       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007       57.8007                                                                                                                                                                                                                                                                                                                                                  | 40361          | RCA 1.03             | .75            | BCR-100            |                       | 100-999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CL505L           | CL 1.50             | 1.15         | IR1604              | IR 7.0           | 0 4.65            | ST3A40N          | ST 3.1           | 6 2.7D               |
| 40366         RCA         7.48         5.70         CA3002         RCA         2.40         CLE03AL         CL         1.75         1.50         IR1777         IR143A         IR         7.40         4.55           40357         RCA         1.24         300         CLE03AL         CL         1.50         IR1777         IR143A         IR         4.23         3.40           40372         RCA         1.24         300         CLE03AL         CL         1.50         I.15         IR144AA         IR         8.23         3.40           40372         RCA         1.24         300         CLE03A         CL         1.50         I.15         IR144AA         IR         8.23         5.50         ST220H         ST         Use IN1202A           40389         RCA         3.36         CA301A         RCA         1.32         IR1777         IR160         IR         1.40         IR         1.40         IR         1.40         IR         1.40         IR         IR174         IR1234         IR         IR177         IR174         IR174         IR174                                                                                                                                                                                                                                                                                                                                                                                                            | 40363          | RCA 1.82             | 1.32           | CA3DD1             | RCA 5.55              | 4.0D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL6D3A           | CL 1.75             | 1.50         | IR1772              | IR 5,2           | D 3,6D            | ST3A60N          | ST 3.            | 0 3.28               |
| alight file                                                                                                                                                                                                                                                                                                                                                                               | 40366          | RCA 7.84             | 5.70           |                    |                       | 1.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL604            | CL 1.75             | 1.50         | IR1843A             | IR 4.3           | 0 4.95<br>5 3.4D  |                  |                  |                      |
| 40334       RCA 2.58       1.48       CAUDUBA       RCA 3.54       1.50       CLEDT       CL       1.30       IRI2160       IR       1.43       T.20       ST220P       ST       Use       IH1204R         40339       RCA 2.15       1.56       CA30110       RCA 1.47       1.07       CL7031       CL       1.50       1.25       ST240P       ST       Use       IH1204R         40339       RCA 1.24       .30       CA3011       RCA 2.15       1.50       1.25       IAS       IF       1.40       1.42       ST240P       ST       Use       IH1204R         40339       RCA 1.24       .30       CA3011       RCA 2.45       1.50       1.25       IASSI       IF       1.40       ISST20P       ST       ISST20P                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                      |                | CA3008             | RCA 6.44              | 4.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL605            | CL 1.50             | 1.15         | IR1846A             | IR 6.1           | 9 4.13            | IN2389           |                  |                      |
| 40389         RCA         91         .58         CA3011         RCA         1.47         1.07         C1703A         CL         1.25         1.25         1.42         1.22         ST240P         ST         Use IN1204           40387         RCA         1.36         CA3013         RCA         2.13         CA3014         RCA         2.15         1.56         C17034         CL         1.50         1.25         12995         IR         2.40         2.10         ST260P         ST         Use IN1206           40393         RCA         1.38         C.20         CA3015         RCA         3.49         2.28         C1704         CL         1.50         1.25         JA2311         FEN         1.00         8.0         ST710P         ST         1.24         2.49         ST         1.42         1.12         2.20         11.09         ST         2.40         1.10         ST         2.40         1.10         ST         2.40         1.10         ST         2.40         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.1                                                                                                                                                                                                                                                                                                                                                                                              | 40375          | RCA 5.03             | 3.66           | CA301D             | RCA 2.61              | 1.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL607            | CL 1.50             | 1.15         |                     | IR 1.4           | 9 1.20            | ST22DP           | ST Us            | e 1N1202             |
| CO322         PCA         Field         Field         CA         Field         CA         Field         Field </td <td>40390</td> <td>RCA 2.15</td> <td>1.56</td> <td>CA3011</td> <td>RCA 1.47</td> <td>1.07</td> <td>CL703A</td> <td>CL 1.50</td> <td>1.25</td> <td></td> <td>IR 1.</td> <td>0 1.25</td> <td>ST260N</td> <td>ST Us<br/>ST Us</td> <td>e 1N1206R</td>                                                                                    | 40390          | RCA 2.15             | 1.56           | CA3011             | RCA 1.47              | 1.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL703A           | CL 1.50             | 1.25         |                     | IR 1.            | 0 1.25            | ST260N           | ST Us<br>ST Us   | e 1N1206R            |
| 20395       RCA       123       ICA       123       ICA <th< td=""><td>40392</td><td>RCA .91</td><td>.66</td><td>CA3013</td><td>RCA 2.15</td><td>1.56</td><td>CL703M</td><td>CL 1.50</td><td>1.25</td><td></td><td>IR 7,0</td><td>0 5.90</td><td>ST260P</td><td></td><td></td></th<>                                                                                                                                                                                                                                                                                             | 40392          | RCA .91              | .66            | CA3013             | RCA 2.15              | 1.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL703M           | CL 1.50             | 1.25         |                     | IR 7,0           | 0 5.90            | ST260P           |                  |                      |
| 9033<br>00339       RCA       Aca       CA3018       RCA       1.52       T.16       CL705L       CL       T.15       JB317       F.N       1.00       .80       ST720P       ST       1.450       1.25       50         400399       RCA       .50       .36       CA3020       RCA       2.56       1.86       C1707HL       CL       1.50       1.15       JD116K       IR       1.75       1.49       ST740P       ST       2.0.80       17.80         40400       RCA       .56       .46       CA3021       RCA       3.26       2.37       CL707HL       CL       1.50       1.15       JD116K       IR       1.75       1.49       ST910P       ST       1.42.0       1.21.8         40400       RCA       .16       .59       CL903A       CL       1.50       1.25       K505C       IR       ST920P       ST       15.80       13.50         40410       RCA       1.64       .23       .26       2.64       1.50       CL903A       CL       1.50       1.25       K301L       FE       8.56       ST       2.40       20.95       ST       2.40       20.95       ST       2.40       20.95       ST       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 40395          | RCA .38              | .28            | CA3015             | RCA 3.96<br>RCA 6.44  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CL/04M           | CL 1.50             | 1.25         | JA35J1              | FEN 1.0          | D .80             | ST71DN<br>ST71DP | ST 12.<br>ST 12. | D 11.09              |
| 40399       RCA       5.5       400       CA 105       RCA 1.62       1.18       CL705HL       CL 1.50       1.15       JD116K       IR       1.79       109-39       S1/40M       S1 20.80       17.80         40400       RCA .50       .36       CA3020       RCA 3.26       2.37       CU707L       CL 1.50       1.15       JD116K       IR       1.79       1.49       ST910M       ST 14.20       ST910M       ST 14.20       12.18         40405       RCA 1.51       .57       CA3022       RCA 2.46       1.92       CL903A       CL 1.50       1.25       K421       IR       S.30.4       ST910M       ST 14.20       12.18       ST920P       ST 15.80       13.50       ST 20.80       T.4005       ST 20.80       T.4005       ST 20.40       ST 20.                                                                                                                                                                                                                                                                                                                                                                                    | 40397          | RCA .66              | .48            | CA3016A<br>CA3018  | RCA 11.39<br>RCA 1.62 | 8.28<br>1.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CL705L           | CL 1.50             | 1.15         | JB31J1              | FEN 1.           | 08. D             | ST720N<br>ST720P | ST 14.           | 50 12.5D             |
| Dadage       RCA       119       RCA       119       RCA       114       2.28       CL101L       CL       1.50       1.35       JD241K       IR       5.35       S.30.4       ST91DP       ST       14.20       12.20         40407       RCA       1.68       .59       CA3023       RCA       2.66       1.92       CL001       CL       1.50       1.25       K305C       IR       7.95        ST91DP       ST       15.80       13.50         40409       RCA       1.14       .83       CA3028       RCA       2.06       1.50       CL903L       CL       1.50       1.25       K546       IR       6.50        ST92DP       ST       15.80       13.50         40413       RCA       1.06       .77       CA3028A       RCA       2.06       C1.90       CL       1.50       1.25       K02105       RCA       9.85        ST94DP       ST       1.4.20       20.83       ST94DP       ST       2.4.40       20.93       ST94DP       ST       1.4.20       20.83       ST94DP       ST       2.4.40       20.93       ST       2.4.40       20.83       ST94DP       ST       2.4.40       20.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 40399<br>40400 | RCA .55<br>RCA .50   | .40<br>.36     | CA3020             | RCA 2.56              | 1.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | CL 1.50             | 1.15         |                     | IR 1.            | 5 1.49            | ST740N<br>ST740P | ST 2D.           | 17.80                |
| Dade         RCA         1.08         7.8         CL3023         RCA         2.30         1.50         CL903A         CL         1.50         1.25         K805L         IR         7.33         ST92DP         ST         15.80         13.50         13.50           40409         RCA         1.32         .66         CA3026         RCA         2.06         CL903A         CL         1.50         1.25         K805L         IR         7.33         ST92DP         ST         24.40         20.95           40411         RCA         4.26         3.12         CA3028         RCA         2.06         1.50         1.25         K802L1         FEN         85         .68           40411         RCA         1.26         CL904A         CL         1.50         1.25         K802L0         FEN         .85         .68           40411         RCA         3.88         2.82         CA303A         RCA         4.79         3.48         CL905A         CL         1.50         1.55         K02106         RCA         2.40         2.06         .58         GT304A         .68         .452           40429         RCA         2.06         1.50         7.73         .48                                                                                                                                                                                                                                                                                                                                                                                                                               | 40403 40406    | RCA 1.19             | .87            | CA3021             | RCA 3.14              | 2.28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL707HL          | CL 1.50             | 1.35         | JD241K              | IR 3.            | 35 3.04           | ST91DP           | ST 14.           | 20 12.19             |
| 40411       RCA 4.29       3.12       CA30288       RCA 2.06       1.30       CL304       CL 1.50       1.35       KA31L1       FEN       .85       .66         40412       RCA 3.88       2.82       CA3030       RCA 2.61       1.90       CL304       CL 1.50       1.25       K02105       RCA 9.95       .66       K02105       RCA 9.95       .66       K02105       RCA 9.95       .66       WB50       MAL       .58       .86         40421       RCA 1.28       .93       CA3031/       CA3032       RCA 4.95       3.60       CL905L       CL 1.50       1.15       KD2110       RCA 4.40       WB100       MAL       .62       .41         40428       RCA 2.06       1.50       702C       RCA 3.30       2.40       CL905HL       CL 1.50       1.15       KD2110       RCA 4.40       WB400       MAL       .62       .41         40430       RCA 2.97       2.16       CA3033       RCA 4.79       3.48       CL907HL       CL 1.50       1.15       KSA1DAF       IR<1.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 40407          | RCA 1.08             | .78            | CA3023             | RCA 2.56              | 1.86<br>1.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CL903A           | CL 1.50             | 1,25         | K505C               | IR 7.9           | 5                 | ST92DP           | ST 15.           | D 13.5D              |
| 40412       RCA 1.26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 40409<br>40410 | RCA 1.14<br>RCA 1.32 | .96            |                    | RCA 1.47              | 1.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL903N           | CL 1.50             | 1.25         |                     | 1.               | 9 10-24           |                  | ST 24.<br>ST 24. | 10 20.95<br>10 20.95 |
| Jon 13       RCA 3:50       J.52       CA3030 A       RCA 4:79       J.48       CL905       CL       1.50       1.25       RCA 2:75       VB10       MAL       58       .39         40421       RCA 1:28       .93       CA30317       CCA00317       RCA 4:95       3.60       CL905L       CL       1.50       1.15       RCA 2:75       VB10       MAL       .62       .41         40421       RCA 2:06       1.50       702A       RCA 4:95       3.60       CL905HL       CL       1.50       1.35       R02117       RCA 4:40       VB100       MAL       .62       .41         40429       RCA 2:06       1.50       702C       RCA 3:30       2.40       CL905HL       CL       1.50       1.35       KD2110       RCA 2:45       .93       WB400       MAL       .68       .45         40430       RCA 2:36       1.46       CA3033       RCA 4:79       3.48       CL907L       CL       1.50       1.15       KSA10AF       R       1.35       1.01       WB600       MAL       .68       .45         40440       RCA 1:32       .96       CA3035       RCA 2:48       1.80       CS120       IR       2:35       1.66       WB6200                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 40412          | RCA 1.06             | .77            | CA3029A            | RCA 3.14              | 2,28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL904L           | CL 1.50             | 1.25         | KB22J1              | FEN J            | .68               |                  | MAL 1.0          | .86                  |
| 40428       RCA       .31       .23       CA       4.95       3.60       C1905HL       CL       1.50       1.35       KD2110       RCA       2.45       VB2UU       MAL       .88          40429       RCA       2.06       1.50       702C       RCA       3.00       2.40       CL905HL       CL       1.50       1.35       1.99       100-999       VB600       MAL       .98       .66         40431       RCA       2.56       1.86       CA3033A       RCA       8.09       5.88       C1907HL       CL       1.50       1.35       KSA1DAF       IR       1.35       1.01       VBC00       MAL       .98       .66         40432       RCA       1.98       1.44       CA3035       RCA       2.44       1.07       CS120       IR       2.35        KSA1DAF       IR       3.15       2.36       VBC00       MAL       1.28       .44         40440       RCA       1.32       .96       CA3037A       RCA       4.48       1.07       CA3038A       RCA       4.48       .36       .39       KSA1DBF       IR       3.15       2.35       I.76       VBE400       MAL       1.28 <t< td=""><td>40414</td><td>RCA 5.10</td><td>3.7D</td><td>CA3030A<br/>CA3031/</td><td></td><td>3.48</td><td>CL905</td><td>CL 1.50</td><td>1.25</td><td>KD2106</td><td>RCA 2.</td><td>5</td><td>VB5D<br/>VB10D</td><td>MAL .</td><td>58 .39<br/>52 .41</td></t<>                                                                                                                                                                                                                                                              | 40414          | RCA 5.10             | 3.7D           | CA3030A<br>CA3031/ |                       | 3.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL905            | CL 1.50             | 1.25         | KD2106              | RCA 2.           | 5                 | VB5D<br>VB10D    | MAL .            | 58 .39<br>52 .41     |
| How 33       RCA 2.33       1.74       CA3033       RCA 3.30       2.40       CL907       CL       1.50       1.15       F.99       100-999       WB00       MAL       .39       .56         40431       RCA 2.35       1.86       CA3033       RCA 4.79       3.48       CL907L       CL       1.50       1.15       KSA1DAF       R       1.55       1.16       WB00       MAL       .99       .66         40431       RCA 2.56       1.86       CA3033       RCA 4.79       3.48       CL907L       CL       1.50       1.15       KSA1DAF       R       1.55       1.16       WB00       MAL       .99       .66         40433       RCA 1.98       1.44       CA3033       RCA 4.79       3.48       C1907L       CL       1.50       1.15       KSA1DAF       IR       1.51       VBC200       MAL       1.99       100-999       WB00       MAL       1.32       1.61       VBC200       MAL       1.28       1.68       VBC200       MAL       1.25       1.60       VBC200       MAL       1.29       1.52       1.50       1.51       KSA5DAF       IR       1.51       KSA5DAF       IR       1.51       KSA5DAF       IR       1.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 40428          | RCA .31              | .23            | 702A<br>CA3032/    |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CL905HL          | CL 1.50             | 1.35         | KD2110              | RCA 2.4          |                   | VB400            | MAL .            | 78 .52               |
| 40440       RCA       1.32       96       CA3039       RCA       1.97       1.97       1.99       100-999       KS10DBF       IR       3.15       2.36       MAL       1.59       1.026         40442       RCA       .83       .60       CA3037A       RCA       6.479       3.48       CTN50       MAL       .58       .39       KS10DBF       IR       3.15       2.36       W2C600       MAL       1.59       1.026         40442       RCA       .429       3.12       CA3038A       RCA       6.44       4.68       CTN50       MAL       .62       .41       KS10DBF       IR       8.00       6.03       WA21W1       FEN       1.25       1.00         40450       RCA       .55       CA3040       RCA       4.67       3.54       CTN200       MAL       .68       .45       KY1DPF       IR       .65       .49       .26       1.09       10-99       10-99       9.35       WB11W1       FEN       1.25       1.00         40451       RCA       .78       .57       CA3042       RCA       2.06       1.50       CTN600       MAL       .58       .39       KY1DPF       IR       .65       .49       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4043D<br>40431 | RCA 2.39<br>RCA 2.56 | 1.74           | CA3033             | RCA 4.79              | 3.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL907<br>CL907L  | CL 1.50<br>CL 1.50  | 1.15<br>1.15 | KSA1DAF             | IR 1.            | )5 1.D1           | VBC5D            |                  | 39 .66               |
| 40440       RCA       1.32       96       CA3039       RCA       1.97       1.97       1.99       100-999       KS10DBF       IR       3.15       2.36       MAL       1.59       1.026         40442       RCA       .83       .60       CA3037A       RCA       6.479       3.48       CTN50       MAL       .58       .39       KS10DBF       IR       3.15       2.36       W2C600       MAL       1.59       1.026         40442       RCA       .429       3.12       CA3038A       RCA       6.44       4.68       CTN50       MAL       .62       .41       KS10DBF       IR       8.00       6.03       WA21W1       FEN       1.25       1.00         40450       RCA       .55       CA3040       RCA       4.67       3.54       CTN200       MAL       .68       .45       KY1DPF       IR       .65       .49       .26       1.09       10-99       10-99       9.35       WB11W1       FEN       1.25       1.00         40451       RCA       .78       .57       CA3042       RCA       2.06       1.50       CTN600       MAL       .58       .39       KY1DPF       IR       .65       .49       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 40432<br>40439 | RCA 2.97             | 2.16           | CA3035             | RCA 2.48              | 1.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CL907HL          | CL 1.50             | 1.35         | KSA5DAF<br>KSA60BF  | 1R 2.            | 5 1,61            | VBC200<br>VBC400 | MAL 1.<br>MAL 1. | 13.75<br>26.84       |
| 40448       RCA       4.23       3.12       CA3039       RCA       1.61       1.17       CIN100       MAL       .682       .41       KSL50BF       IK       8.00       6.03       WA21W1       FEN       1.25       1.00         40451       RCA       .90       .65       CA3040       RCA       4.61       3.54       CIN400       MAL       .682       .41       KSL50BF       IR       8.00       6.03       WA21W1       FEN       1.25       1.00         40451       RCA       .90       .65       CA3041       RCA       2.06       1.50       CIN400       MAL       .78       .52       KY10PF       IR       .59       .45         40452       RCA       .85       .62       CA3042       RCA       2.06       1.50       CTP50       MAL       .58       .39       KY50PF       IR       .63       .63       21100       Thu       21100       Thu       21100       Thu       21100       Thu       21100       Thu       21304       Thu       .68       .67       .64       .68       KY10DPF       IR       .66       .49       21304       Thu       .68       .74         40462       RCA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 40440 40442    | RCA 1.32             | .96            | CA3037A            | RCA 4.79              | 3.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CTN50            | 1-99<br>MAL .58     | .39          | KSA10DBI<br>KSL1DAF | F IR 3.<br>IR 2. | 5 2.36            |                  | MAL 1.           | 59 1.06              |
| 40451       RCA       .90       .65       CA3040       RCA       .26       1.50       CTN4000       MAL       .78       .52       KY10PF       IR       .59       .45         40458       RCA       .85       .62       CA3041       RCA       2.06       1.50       CTN4000       MAL       .78       .52       KY10PF       IR       .59       .45         40459       RCA       .85       .62       CA3042       RCA       2.06       1.50       CTN4000       MAL       .58       .39       KY10PF       IR       .65       .49         40462       RCA       1.16       .84       CA3043       RCA       2.04       CTP100       MAL       .58       .39       KY10PF       IR       .83       .63       Z1100       Thru       .85       .74         40462       RCA       1.24       .90       CA3045       RCA       2.31       1.68       CTP200       MAL       .68       .45       KY10DPF       IR       .63       Z1130       Thru       .85       .74         40467A       RCA       1.24       .90       CA3045       RCA       1.60       CTP200       MAL       .78       .52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4045D          | RCA 4.29<br>RCA .8D  | 3.12<br>.58    | CA3039             | RCA 1.61              | 1.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CTN1D0<br>CTN200 | MAL .62<br>MAL .68  | .41<br>.45   | KSL1DDB             | F IR 12.4        | D 6.03<br>10 9.35 |                  | FEN 1.           | 25 1.DO              |
| 40467       RCA       1.16       .84       CA3044       RCA       2.31       1.66       CIP100       MAL       .62       .41       KV00PF       IR       .63       .67       Z1304       Thru       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 40451<br>40458 | RCA .90<br>RCA .78   | .65<br>.57     | CA3041             | RCA 2.06              | 1,50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CTN400<br>CTN600 | MAL .95             | .63          | KY1DPF<br>KY2DPF    | IR .<br>IR .     | i9.45<br>i5.49    |                  | 1.               |                      |
| 40467         RCA         1.24         .90         CA3045         RCA         2.47         1.80         CTP200         MAL         .63         KT10PF         IR         1.13         .63         Z1336         IR         2.05         1.85           40467         RCA         1.24         .90         CA3045         RCA         2.47         1.80         CTP200         MAL         .78         .52         KZ10PF         IR         1.66         .49         Z1336         IR         2.05         1.85           40468         RCA         .75         .54         CA3047         RCA         2.61         1.90         CTP600         MAL         .95         .63         KZ20PF         IR         .77         .57         100           40458A         RCA         .75         .54         CA3047         RCA         4.79         3.48         1.4         5.9         KZ50PF         IR         1.10         .81         1-99         Per Type           40472         RCA         .66         .48         CA3050         RCA         3.71         2.70         DD04         IR         .55         .49         KZ10DFF         IR         1.21         .89         ZB6.8         Th                                                                                                                                                                                                                                                                                                                                                                                                                       | 40459 40462    | RCA 1.16             | .84            | CA3043<br>CA3044   | RCA 2.81<br>RCA 2.31  | 1.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CTP100           | MAL .62             | .41          | KY6DPF              | IR .             | 9.67              | Z1134            | IR J             |                      |
| 40468A         RCA         .75         .54         CA3047         RCA         2.01         1.30         1.4         5-9         KZ5DPF         IR         1.10         .81         1-99         Per Type           40472         RCA         .66         .48         CA3050         RCA         3.48         1.4         5-9         KZ5DPF         IR         1.10         .81         1-99         Per Type           40472         RCA         .66         .48         CA3050         RCA         3.71         2.70         DD04         IR         .55         .49         KZ6DPF         IR         1.21         .89         ZB6.8         Thru           40473         RCA         .60         .44         CA3051         RCA         2.72         1.98         DD05         IR         .55         .49         KZ10DPF         IR         1.65         1.21         ZB100A         MAL         .54         .36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 40467A         | RCA 1.24             | .90            | CA3045<br>CA3046   | RCA 1.61              | 1.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CTP400           | MAL .78             | .52          | KZ1DPF              | IR .             | 6 .49             |                  |                  |                      |
| 40473 RCA .60 .44 CA3051 RCA 2.72 1.98 DD05 IR .55 .49 KZ10DPF IR 1.65 1.21 ZB100A MAL .54 .36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 40468A         | RCA .75              | .54            | CA3047A            | RCA 4.79              | 3.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | 1-4                 | 5-9          | KZ5DPF<br>KZ6DPF    | IR 1.<br>IR 1.   | 21 .89            |                  | u                | 9 Per Type           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |                      |                | CA3051             | RCA 2.72              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                     |              | KZ10DPF             |                  |                   |                  |                  |                      |

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| No.<br>A3000                     | Case             | Usage<br>DC Amplifier                                                                     | Each \$3.80          | Each<br>\$2.76       | Each<br>\$2.30       |
| A3001<br>A3002                   | C<br>B           | Video & Wide Band Amplifier                                                               | 5.55                 | 4.00                 | 3.35                 |
| 13005<br>13007<br>13008          | C<br>C<br>D      | RF Amplifier<br>AF Amplifier<br>Operational Amplifier                                     | 2.48<br>5.35<br>6.44 | 1.80<br>3,90<br>4,68 | 1.50<br>3.25<br>3.90 |
| 3008A                            | DC               | Operational Amplifier<br>Operational Amplifier                                            | 9.74                 | 7.08                 | 5.90<br>1,58         |
| 3010A                            | Č                | Operational Amplifier<br>FM IF Amplifier                                                  | 4.79                 | 3.48                 | 2.90                 |
| 3012<br>3013                     | B<br>B           | FM IF Amplifier<br>FM IF Amp./Disc./AF Amplifiers                                         | 1.82<br>2.15         | 1.32<br>1.56         | 1.10<br>1.30         |
| 3014<br>3015                     | B<br>C           | FM IF Amp./Disc./AF Amplifiers<br>Operational Amplifier                                   | 2.48<br>3.96         | 1,80<br>2,88         | 1,50<br>2,40         |
| 3015A<br>3016A                   | C<br>D           | Operational Amplifier<br>Operational Amplifier                                            | 6.44<br>11.39        | 4.68<br>8.28         | 3.90<br>6.90         |
| 3018<br>3019<br>3020             | C<br>B           | Transistor Array<br>Diode Array                                                           | 1.62                 | 1.18<br>1.18         | .98<br>.98           |
| 3020A<br>3021                    | C                | Multi-Purpose Wide Band Amplifier<br>High Gain Wide Band Amp.                             | 2.56<br>3.26<br>3.14 | 1.86<br>2.37<br>2.28 | 1,55<br>1.98<br>1,90 |
| 3022                             | С<br>С<br>С<br>С | Video & Wide Band Amplifier<br>Video & Wide Band Amplifier<br>Video & Wide Band Amplifier | 2.64                 | 1.92<br>1.86         | 1.60                 |
| 3026<br>3028A                    | ČA               | Transistor Array<br>Differential/Cascode Amplifier                                        | 2.06                 | 1.50                 | 1.25                 |
| 30288<br>3029A                   | A<br>F           | Differential/Cascode Amplifier<br>Operational Amplifier                                   | 2.06<br>3.14         | 1,50                 | 1.25                 |
| 3030<br>3030a                    | F                | Operational Amplifier<br>Operational Amplifier                                            | 2.61<br>4.79         | 1.90<br>3.48         | 1.58 2.90            |
| 3031/702<br>3032/702             | 2C A             | Operational Amplifier<br>Operational Amplifier                                            | 4.95<br>3.30         | 3.60<br>2.40         | 3.00                 |
| 3033<br>3033A<br>3035            | E<br>E<br>B      | Operational Amplifier<br>Operational Amplifier                                            | 4.79<br>8.09<br>2.48 | 3.48<br>5.88<br>1.80 | 2.90<br>4.90<br>1.50 |
| 3036<br>3037A                    | BE               | Video and Wide Band Amplifier<br>Dual Darlington Array<br>Operational Amplifier           | 1.47<br>4.79         | 1.07                 | .89<br>2.90          |
| 3038A<br>3039                    | E<br>C           | Operational Amplifier<br>Diode Array                                                      | 6.44<br>1.61         | 4.68                 | 3.90                 |
| 3040<br>3041                     | Č<br>G*          | Video & Wide Band Amplifier<br>Wide Band Amp/FM Detector                                  | 4.87<br>2.06         | 3.54<br>1.50         | 2,95                 |
| 3042<br>3043                     | G*<br>C          | Wide Band Amp/FM Detector<br>Hi Gain IF Amp/FM Detector                                   | 2.08<br>2.81         | 1.50 2.04            | 1.25<br>1.70         |
| 3044<br>3045<br>3046             | B<br>E<br>F      | Special Function Subsystem<br>Transistor Array                                            | 2.31 2.47            | 1.68                 | 1,40                 |
| 3047<br>3047A                    | F                | Transistor Array<br>Operational Amplifier<br>Operational Amplifier                        | 1.61<br>2.61<br>4.79 | 1.17<br>1.90<br>3.48 | .98<br>1.58<br>2.90  |
| 3050                             | É                | Dual Differential Amplifier<br>Dual Differential Amplifier                                | 3.71                 | 2.70                 | 2.25<br>1.65         |
| eads For                         | med To F         | it Pattern G Prepunched Boards.                                                           |                      |                      |                      |
| 2150                             | D                | OIGITAL TYPES<br>Ultra High Speed ECCSL Gate                                              | 3.96                 | 2.88                 | 2.40                 |
| 2151<br>2152<br>2153             | DDD              | Ultra High Speed ECCSL Gate Ultra High Speed ECCSL Gate                                   | 3.96<br>3.96         | 2,88                 | 2,40                 |
| 2200D<br>2201D                   | D<br>E<br>E      | Ultra High Speed ECCSL Gate<br>Low Power DTL Gate<br>Low Power DTL Gate                   | 5.20<br>5,20<br>5.45 | 3.80<br>3.80<br>3.95 | 3.15<br>3.15         |
| 22020                            | Ĕ                | Low Power DTL Gate                                                                        | 5.45<br>6.95         | 3.95<br>3.95<br>5.05 | 3.30<br>3.30<br>4.20 |
| 22050  <br>2300E/83              | E<br>10 F        | Low Power DTL Gate<br>Med Power DTL Gate                                                  | 5.20<br>1.73         | 3.80                 | 3.15                 |
| 2301E/86<br>2302E/84             | 16 F             | Med Power DTL Gate<br>Med Power DTL Gate                                                  | 1.73<br>1,90         | 1,26                 | 1.05                 |
| 2303E/84<br>2304E/84<br>2305E/84 | 15 F             | Med Power DTL Gate<br>Med Power DTL Clocked Flip-Flop                                     | 1.90<br>2.48         | 1.38                 | 1,15                 |
| 2306E/83<br>2307E/84             | 12 F             | Med Power DTL Clocked Flip-Flop<br>Med Power DTL Gate<br>Med Power DTL Gate               | 2.48                 | 1.80                 | 1.50                 |
| 2308E/86<br>2309E/86             | 12 F<br>13 F     | Med Power DTL Gate<br>Med Power DTL Gate                                                  | 1.90<br>1,90<br>1.90 | 1.38<br>1.38<br>1.38 | 1.15<br>1.15<br>1.15 |
| 2310E/83<br>2311E/83             | 16 F<br>17 F     | Med Power Hex Invertor<br>Med Power Hex Invertor                                          | 1.90                 | 1.38                 | 1.15                 |
| 2312E                            | F                | Med Power Hex Invertor<br>Med Power Hex Invertor                                          | 1.90<br>2.39         | 1.38<br>1.74         | 1.15                 |
| 2314E/83<br>2315E                | 1 <b>3</b> F     | Med Power OTL Input Expander<br>Dual Clocked J-K Flip-Flops                               | 1.49<br>4.46         | 1,08                 | .90<br>2.70          |
| 2316E<br>2317E<br>2318E          |                  | Oual Clocked J-K Flip-Flops<br>Oual Clocked J-K Flip-Flops<br>Dual Clocked J-K Flip-Flops | 4.46                 | 3.24                 | 2.70                 |
| SIDE                             |                  | Dual Clocked J-K Flip-Flops                                                               | 4.46                 | 3.24                 | 2.70                 |

.....\$2.50

RCA SILICON POWER CIRCUITS MANUAL

448 pages on transistors, rectifiers, thyristors (SCR's and Triacs). 16A1013. SP51 Each 16A24. T0-30 Tunnel Diode Manual, 159 pages.

SILICON RECTIFIERS MAX. RATINGS 1000 1. 100. RCA Current Amps. 99 Each 999 Each Up Each No. Package PRV 1N3754 1N3755 1N3756 0.125 100 200 \$0.32 \$0,23 \$0.19 A .244 .266 .699 .544 .577 .266 .288 .399 .288 .300 .411 .303 .303 .414 .303 .3344 400 1000 0.125 0.3 0.4 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.6 0.6 0.75 1N3563\* 1N3196 1N3256\* BBBB 800 800 1N3193 1N3194 1N3195 1N3253\* B 200 400 В 600 B 200 1N3254\* 1N3255\* 400 B 600 1N5214 800 800 1N5214 1N5218\* 1N538 1N540 1N1764A 1N2859A 1N2860A 1N5211 1N5212 1N5213 1N5215\* ē B D0-1 D0-1 D0-1 D0-1 D0-1 200 400 100 200 B 400 Ř 600 B 200 1N5216\* 1N5217\* 400 0.75 B 600 \*Insulated Case

### RCA SILICON RECTIFIERS STANDARD POLARITY-CATHODE CONNECTED TO STUD

| RCA No.              | RCA No.             |         | MAX. RA        | TINGS | 1-         | 100-        | 1000       |  |
|----------------------|---------------------|---------|----------------|-------|------------|-------------|------------|--|
| Standard<br>Polarity | Reverse<br>Polarity | Package | kage Amps. PRV |       | 99<br>Each | 999<br>Each | Up<br>Each |  |
| 1N1612               | 1N1612R             | 00-4    | 5              | 50    | \$1.08     | \$0.78      | \$0.65     |  |
| 1N1613               | 1N1613R             | D0-4    | 5              | 100   | 1.24       | .90         | .75        |  |
| 1N1614               | 1N1614R             | DO-4    | 5              | 200   | 1.90       | 1,38        | 1.15       |  |
| 1N1615               | 1N1615R             | DO-4    | 5              | 400   | 3.71       | 2.70        | 2.25       |  |
| 1N1616               | 1N1616R             | D0-4    | 5              | 600   | 5.36       | 3.90        | 3,25       |  |
| 1N1199A              | 1N1199RA            | DO-4    | 12             | 50    | 1.24       | .90         | .75        |  |
| 1N1200A              | 1N1200RA            | DO-4    | 12             | 100   | 1.41       | 1.02        | .85        |  |
| 1N1202A              | 1N1202RA            | DO-4    | 12             | 200   | 2.48       | 1.80        | 1.50       |  |
| 1N1204A              | 1N1204RA            | DO-4    | 12             | 400   | 4,46       | 3.24        | 2.70       |  |
| 1N1206A              | 1N1206RA            | DO-4    | 12             | 600   | 6.19       | 4.50        | 3.75       |  |
| 1N248C               | 1N248RC             | DO-5    | 20             | 55    | 1.65       | 1.20        | 1.00       |  |
| 1N249C               | 1N249RC             | D0-5    | 20             | 110   | 2.06       | 1.50        | 1.25       |  |
| 1N250C               | 1N250RC             | D0.5    | 20             | 220   | 2.72       | 1.98        | 1.65       |  |
| 1N1196A              | 1N1196RA            | D0-5    | 20             | 400   | 4.95       | 3.60        | 3.00       |  |
| 1N1198A              | 1N1198RA            | D0-5    | 20             | 600   | 4.95       | 5.10        | 4.25       |  |

# RCA TRIACS For control of full wave AC loads. Equivalent to 2 SCR's in a single package. Use Triacs for modern, efficient control of AC powered motors, lighting, heating, etc. 40575 rated *(m* 1800 watts and 40576 rated at 3600 watts are designed primarily for control of AC loads such as space heaters, oven and furnace controls.

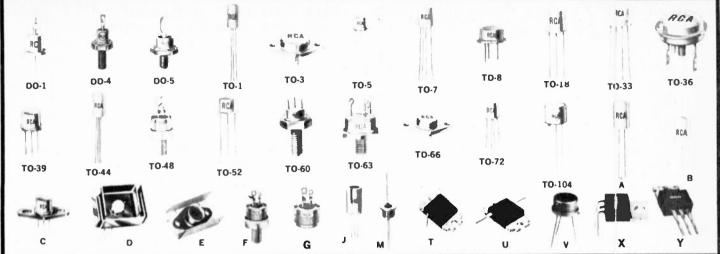
| RCA<br>No. | Line<br>Operation | Outline         | On State<br>RMS Amps. | Off State<br>Vo. Rat. | Gate Fi<br>Require<br>Volts |      | 1-<br>99 | 100-   | 1000<br>up |
|------------|-------------------|-----------------|-----------------------|-----------------------|-----------------------------|------|----------|--------|------------|
| 40525      | low               | T0-5            | 2.5                   | 100                   | 2.2                         | 3    | \$1.57   | \$1,14 | \$0,95     |
| 40526      | 120-V             |                 | 2.5                   | 200                   | 2.2                         | 3    | 1,62     | 1,18   | .98        |
| 40527      | 240-V             | Modified        | 2.5                   | 400                   | 2.2                         | 3    | 2.31     | 1.68   | 1.40       |
| 40528      | low               | Three           | 2.5                   | 100                   | 2.2                         | 10   | 1.57     | 1.14   | .95        |
| 40529      | 120-V             |                 | 2.5                   | 200                   | 2.2                         | 10   | 1,62     | 1.18   | .98        |
| 40530      | 240-V             | L 1" Leads _    | 2.5                   | 400                   | 2.2                         | 10   | 2.31     | 1.68   | 1.40       |
| 40429      | 120-V             | T0-66           | 6                     | 200                   | 2.2                         | 25   | 2.06     | 1.50   | 1.25       |
| 40430      | 240-V             | T0-66           | 6                     | 400                   | 2.2                         | 25   | 2.39     | 1.74   | 1.45       |
| 40485      | 120-V             | TO-5 Modified   |                       | 200                   | 2.2                         | 25   | 2.06     | 1.50   | 1.25       |
| 40486      | 240-V             | 2 · 1" Leads    | 6                     | 400                   | 2.2                         | 25   | 2.39     | 1.74   | 1.45       |
| 10668      | 120-V             | Υ Υ             | 8                     | 200                   | 2.5                         | 25   | 1.62     | 1.18   | .98        |
| 10669      | 240-V             | Ý               | 8                     | 400                   | 2.5                         | 25   | 1.82     | 1.32   | 1.10       |
| 40575      | 120-V             | TO-66           | 15                    | 200                   | 2.5                         | 80   | 2.48     | 1.80   | 1.50       |
| 40576      | 240-V             | TÖ-66           | 15                    | 400                   | 2.5                         | 8Ŏ   | 3.29     | 2.38   | 1,98       |
| 2N5442     | 240-V             | G               | 40                    | 200                   | 2.5                         | 50   | 11,47    | 8.34   | 6.95       |
|            |                   |                 | INTEGRAL              | TRIGGER               | TYPES                       |      |          |        |            |
| 40431      | 120-V             | TO-5 Modified   | 76                    | 200                   | 40                          | .1uF | 2.56     | 1.86   | 1.55       |
| 40432      |                   | 2 - 1" Leads    |                       | 400                   | 40                          | .1uF | 2.97     | 2.16   | 1.80       |
| to. 16     | A1111, T          | echnical Bullet | in on Tria            |                       |                             |      |          |        | FREE       |

| RCA<br>Number                                                                                                                                                                               | Package                                                                                                                 | Amp. I<br>RMS                                                                                    | Ratings<br>  Avg.                                                                     | Rep.<br>PRV                                                               | Gate F<br>Require<br>Volts                      |                                                          | 1-99<br>Each                                                                                                       | 100-999<br>Each                                                                                                                                    | 1000<br>Up<br>Each                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 2N3528<br>2N3529<br>2N4102<br>2N3228<br>2N3525<br>2N4101<br>40553<br>40554<br>40555<br>2N3669<br>2N3670<br>2N1844A<br>2N1846A<br>2N1849A<br>2N1849A<br>2N1849A<br>2N1850A<br>2N683<br>2N685 | T0-8<br>T0-8<br>T0-66<br>T0-66<br>T0-66<br>T0-66<br>T0-66<br>T0-66<br>T0-3<br>T0-48<br>T0-48<br>T0-48<br>T0-48<br>T0-48 | 2<br>2<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 1.3<br>1.3<br>1.3<br>3.2<br>3.2<br>3.2<br>3.2<br>3.2<br>3.2<br>3.2<br>3.2<br>3.2<br>3 | 200<br>400<br>600<br>200<br>400<br>600<br>200<br>400<br>600<br>200<br>400 | 2<br>2<br>2<br>2<br>3.5<br>3.5<br>3.5<br>2<br>2 | 15<br>15<br>15<br>15<br>15<br>40<br>40<br>40<br>40<br>40 | \$1.58<br>1.96<br>2.64<br>1.62<br>2.31<br>3.05<br>2.75<br>4.44<br>4.76<br>2.81<br>3.80<br>Use<br>Use<br>Use<br>Use | \$1.14<br>1.43<br>1.92<br>1.18<br>1.68<br>2.22<br>2.00<br>3.22<br>3.47<br>2.04<br>2.76<br>2N3897<br>2N3897<br>2N3898<br>2N3897<br>2N3896<br>2N3897 | \$0.95<br>1.19<br>1.60<br>.98<br>1.40<br>1.85<br>1.87<br>2.68<br>2.89<br>1.70<br>2.30 |
| 2N688<br>2N690<br>2N3896<br>2N3897<br>2N3898<br>2N3899                                                                                                                                      | TO-48<br>TO-48<br>F<br>F<br>F<br>F                                                                                      | 25<br>25<br>35<br>35<br>35<br>35                                                                 | 16<br>16<br>22<br>22<br>22<br>22<br>22                                                | 100<br>200<br>400<br>600                                                  | 22222                                           | 40<br>40<br>40<br>40                                     |                                                                                                                    | 2N3898<br>2N3899<br>3.18<br>3.66<br>4.80<br>6.36                                                                                                   | 2.65<br>3.05<br>4.00<br>5.30                                                          |

#### See RCA Mounting Hardware On Page 87

...\$2.00

## **C A** SEMICONDUCTORS



#### FOR RCA SEMICONDUCTORS EXPLANATIONS OF SYMBOLS

EXPLANATIONS OF SYMBOLS Cobo — Open-circuit output capacitance (common base): firb—small signal short-circuit forward current transfer cut-off frequency (common base); fr—frequency at which small-signal forward current transfer ratio (common emitter); ers—forward transconductance; Gpc—small-signal average power gain (common emitter); GPs—large-signal average power gain (common emitter); GPs—bave rent; GPE—large-signal average power gain (common emitter); GPs—power gain; hre—static forward current transfer ratio (common emitter); GPs—power ward current, dc; to—drain current; IF(AV)—forward current, average value; IFM—for-ward current, forward current to valley-point forward current; IF/V— peak-point forward current to valley-point forward current ratio; IM—reverse cur-rent, dc; NF—noise figure: Pog—large-signal output power (common emitter);

AUDIO FREQUENCY SILICON N-P-N SMALL-SIGNAL CLASS A FOR LINEAR OPERATION

| ULA                                                                                                                                | 33                                                                                                                                                                                                                                                          | AF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                         | TINGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                            |                                                                                                               |                                                                                                                                           | 1000                                                                                                         |
| Package                                                                                                                            | TC<br>W                                                                                                                                                                                                                                                     | Vcso<br>V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | VCEO<br>V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | lč<br>mA                                                                         | min<br>MHz                                                                                                              | 1-99<br>Each                                                                                                  | 999<br>Each                                                                                                                               | Up<br>Each                                                                                                   |
| T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-18<br>T0-18<br>T0-18<br>T0-18<br>T0-18<br>T0-18<br>T0-104<br>T0-104<br>T0-104<br>T0-104 | 1<br>1<br>1<br>1.8<br>1.8<br>1.8<br>1.8<br>1.8<br>1.8<br>1.8<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2                                                                                                                                              | 18<br>18<br>18<br>18<br>75<br>120<br>120<br>140<br>60<br>60<br>40<br>18<br>25<br>25<br>18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 18<br>18<br>18<br>32<br>80<br>65<br>90<br>45<br>40<br>40<br>18<br>25<br>25<br>18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.1<br>0.1<br>0.1<br>1<br>1<br>1<br>1<br>1<br>0.3<br>1<br>0.2<br>0.2<br>0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 55<br>90<br>90<br>35<br>35<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50                                                                                                                                                                                                  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<sup>f</sup><br>50<br>120<br>120<br>100<br>100<br>100<br>125<br>50<br>50<br>50 | \$0.47<br>.53<br>.60<br>.42<br>1.08<br>1.32<br>1.41<br>2.06<br>1.16<br>.99<br>.73<br>.32<br>.66<br>.60<br>.55 | \$0.34<br>.39<br>.44<br>.30<br>.78<br>.96<br>1.02<br>1.50<br>.84<br>.72<br>.53<br>.23<br>.23<br>.48<br>.44<br>.40                         | \$0.28<br>.32<br>.36<br>.25<br>.65<br>.80<br>.85<br>1.25<br>.70<br>.60<br>.44<br>.19<br>.40<br>.36<br>.33    |
| T0-104<br>T0-104<br>T0-104<br>T0-5<br>J<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5                            | 2222222222233355555                                                                                                                                                                                                                                         | 30<br>40<br>60<br>120<br>30<br>60<br>60<br>75<br>75<br>120<br>120<br>120<br>120<br>120<br>60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25<br>40<br>40<br>25<br>40<br>40<br>40<br>50<br>50<br>80<br>65<br>45<br>90<br>40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.5<br>1<br>†<br>1<br>1<br>1<br>1<br>0.5<br>1<br>1<br>1<br>0.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100<br>125<br>2.5<br>35<br>100<br>125<br>75<br>30<br>70<br>45<br>40<br>30<br>50<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10<br>10<br>50<br>1<br>10<br>10<br>10<br>10<br>10<br>10<br>5<br>5<br>5<br>50     | 50<br>175"<br>50<br>50<br>175<br>175<br>150<br>60<br>70<br>50<br>120<br>120<br>100                                      | .50<br>.73<br>.63<br>1.16<br>.80<br>.78<br>.85<br>.75<br>.94<br>1.08<br>1.13<br>1.57<br>.75                   | .36<br>.53<br>.60<br>.46<br>.58<br>.57<br>.62<br>.54<br>.69<br>.78<br>.82<br>.69<br>.78<br>.82<br>.69<br>.78<br>.82<br>.66<br>1.14<br>.54 | .30<br>.44<br>.50<br>.38<br>.54<br>.54<br>.51<br>.51<br>.51<br>.51<br>.51<br>.51<br>.51<br>.51<br>.51<br>.51 |
|                                                                                                                                    | Package<br>T0-104<br>T0-104<br>T0-104<br>T0-108<br>T0-18<br>T0-18<br>T0-18<br>T0-18<br>T0-18<br>T0-18<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5 | P T<br>Tc-104         P T<br>Tc           70-104         1           170-104         1           170-104         1           170-104         1           170-104         1           170-104         1           170-104         1           170-104         1           170-108         1.8           170-1104         1.8           170-104         2           170-104         2           170-104         2           170-104         2           170-104         2           170-104         2           170-104         2           170-104         2           170-5         2           J         2           10-5         3           10-5         3           10-5         3           10-5         5           10-5         5           10-5         5           10-5         5           10-5         5           10-5         5 | MAX. RJ           P T         Tcc         V cmo           TO-104         1         18           TO-18         1.8         120           TO-18         1.8         140           TO-18         1.8         60           TO-104         2         40           TO-104         2         18           TO-104         2         18           TO-104         2         18           TO-104         2         10           J         2         30           TO-5         2         120           J         2         60           TO-5         3         75           TO-5         3         120           TO-5         5         120           TO-5         5         120           TO-5 <td>MAX. RATINGS           P r<br/>Tc         V cmo         V cmo           70-104         1         18         18           10-104         1         18         18           10-104         1         18         18           10-104         1         18         18           10-104         1         18         18           10-104         1         18         18           10-18         1.8         120         65           10-18         1.8         140         90           10-18         1.8         140         90           10-18         1.8         60         45           10-104         2         40         40           10-104         2         25         25           10-104         2         18         18           10-104         2         18         18           10-104         2         18         18           10-104         2         30         25           10-104         2         60         40           10-5         3         75         50           10-5         3</td> <td><math display="block">\begin{tabular}{ c c c c c c c } \hline MAX. RATINGS \\ \hline PT Tc Vcmo Vcco Ic \\ \hline PT Tc Vcmo Vc V A \\ \hline T0-104 1 18 18 0.1 \\ \hline T0-18 1.8 120 65 1 \\ \hline T0-18 1.8 120 65 1 \\ \hline T0-18 1.8 140 90 1 \\ \hline T0-18 1.8 60 45 1 \\ \hline T0-18 1.8 60 45 1 \\ \hline T0-18 1.8 60 45 1 \\ \hline T0-104 2 40 40 0.3 \\ \hline T0-104 2 40 40 0.3 \\ \hline T0-104 2 45 25 0.2 \\ \hline T0-104 2 48 18 0.2 \\ \hline T0-104 2 48 18 0.2 \\ \hline T0-104 2 18 18 0.2 \\ \hline T0-104 2 18 18 0.2 \\ \hline T0-104 2 18 18 0.2 \\ \hline T0-104 2 40 40 \\ \hline T0-5 2 60 40 0 0.5 \\ \hline T0-5 2 60 40 0 0.5 \\ \hline T0-5 3 75 50 1 \\ \hline T0-5 3 120 80 0.5 \\ \hline T0-5 5 120 90 1 \\ \hline \end{array}</math></td> <td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td> | MAX. RATINGS           P r<br>Tc         V cmo         V cmo           70-104         1         18         18           10-104         1         18         18           10-104         1         18         18           10-104         1         18         18           10-104         1         18         18           10-104         1         18         18           10-18         1.8         120         65           10-18         1.8         140         90           10-18         1.8         140         90           10-18         1.8         60         45           10-104         2         40         40           10-104         2         25         25           10-104         2         18         18           10-104         2         18         18           10-104         2         18         18           10-104         2         30         25           10-104         2         60         40           10-5         3         75         50           10-5         3 | $\begin{tabular}{ c c c c c c c } \hline MAX. RATINGS \\ \hline PT Tc Vcmo Vcco Ic \\ \hline PT Tc Vcmo Vc V A \\ \hline T0-104 1 18 18 0.1 \\ \hline T0-18 1.8 120 65 1 \\ \hline T0-18 1.8 120 65 1 \\ \hline T0-18 1.8 140 90 1 \\ \hline T0-18 1.8 60 45 1 \\ \hline T0-18 1.8 60 45 1 \\ \hline T0-18 1.8 60 45 1 \\ \hline T0-104 2 40 40 0.3 \\ \hline T0-104 2 40 40 0.3 \\ \hline T0-104 2 45 25 0.2 \\ \hline T0-104 2 48 18 0.2 \\ \hline T0-104 2 48 18 0.2 \\ \hline T0-104 2 18 18 0.2 \\ \hline T0-104 2 18 18 0.2 \\ \hline T0-104 2 18 18 0.2 \\ \hline T0-104 2 40 40 \\ \hline T0-5 2 60 40 0 0.5 \\ \hline T0-5 2 60 40 0 0.5 \\ \hline T0-5 3 75 50 1 \\ \hline T0-5 3 120 80 0.5 \\ \hline T0-5 5 120 90 1 \\ \hline \end{array}$ | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                          | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                 | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                       | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                   | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                      |

### AUDIO FREQUENCY GERMANIUM P-N-P SMALL Signal class a for linear operation

|                                                    |                              | MAX                      | <b>K RATIN</b>       | SS                    | CHA                    | RACTER                | STICS                 |                          |                          |                            |
|----------------------------------------------------|------------------------------|--------------------------|----------------------|-----------------------|------------------------|-----------------------|-----------------------|--------------------------|--------------------------|----------------------------|
|                                                    |                              | Рт                       |                      |                       | h                      | fe                    | fhfb                  |                          | 100-                     | 1000                       |
| RCA<br>No.                                         | Package                      | Tc<br>mW                 | Усво<br>V            | 5t<br>MM              | min                    | nA                    | typ<br>MHz            | 1-99<br>Each             | 999<br>Each              | Up<br>Each                 |
| 2N175<br>2N220<br>2N591                            | T0-1                         | 85                       |                      | _40                   | 40                     | -2                    |                       | \$0.58                   | Use<br>\$0.42            | 2N2613<br>2N2613<br>\$0.35 |
| 2N2613<br>2N2614<br>2N2953                         | T0-1<br>T0-1                 | 120<br>120<br>120        |                      | 50<br>50<br>150       | 120<br>100<br>200      | 0.5<br>1<br>10        | 10<br>10<br>10        | .55<br>.50<br>.50        | .40<br>.36<br>.36<br>Us  | .33<br>.30<br>.30<br>.30   |
| 40263<br>40395<br>40359<br>40490<br>40329          | T0-1<br>T0-1<br>T0-1<br>T0-1 | 120<br>120<br>120<br>125 | 20<br>20<br>20<br>25 | 50<br>50<br>20<br>100 | 170<br>40<br>170<br>75 | -1<br>-1<br>-1<br>-10 | 10<br>10<br>10<br>1.5 | .38<br>.32<br>.38<br>.47 | .28<br>.23<br>.28<br>.34 | .23<br>.19<br>.23<br>.28   |
| 2N104<br>2N215<br>2N405<br>2N406<br>2N109<br>2N217 | TO-1<br>TO-1                 | 150<br>165               | -20<br>-35           |                       |                        |                       | 0.65                  | .41<br>.57               | Ŭs<br>.30                | e 2N217<br>e 2N406         |

PT -total non-reactive power input, dc, to all terminals (transistor dissipation); Rts -drain-to-source resistance; TA -ambient temperature; Tc -case temperature; Tmm -mounting-flange temperature; torr -turn-off time; tan-turn-on time; tr -rise time; to collector-to-base voltage, dc (emitter open); Vcav -collector-to-base emitter voltage, dc; Vcac -collector-to-emitter voltage, dc base open); Vcav -collector-to-emitter voltage, dc; (with specified voltage between emitter and tase); Vcav -collector-to-emitter voltage, dc; (with specified voltage between base and emitter); Vos -drain-to-source voltage; Vr -forward voltage drop, dc Vpp -forward voltage point, greater than the peak voltage; Vm -reverse voltage, dc; Vmm -reverse volt-age, maximum (peak) total value. All data given at 25° C.

#### SPECIFY MANUFACTURERS NAME AND NUMBER ON YOUR ORDER

AUDIO FREQUENCY SILICON N-P-N POWER TYPES CLASS A-AB-B FOR LINEAR OPERATION

| 1                | CLA55             | A-4                                                                | 1B-B      | FU             | <b>T</b>   |            | Απ         | UP                 | IRAI         | IUN          |              |
|------------------|-------------------|--------------------------------------------------------------------|-----------|----------------|------------|------------|------------|--------------------|--------------|--------------|--------------|
|                  |                   |                                                                    | AAX. RA   | TINGS          |            | CHAR/      | CTER       | STICS              |              |              |              |
|                  |                   | Pτ<br>Tc 0r                                                        | Усво      | VCEO           | Ic         | h          | FE         | fT                 |              | 100-         | 1000         |
| RCA              | Baskans           | TME                                                                | v         | v              | A          | min        | Tc<br>mA   | typ<br>MHz         | 1-99<br>Each | 999<br>Each  | Up<br>Each   |
| No.<br>40354     | Package<br>T0-104 | W<br>.5TA                                                          | V         | 150            | 0.05       |            | 10         | 100                | \$1.18       | \$0.86       | \$0.71       |
| 40355            | j . j . j         | 1TA                                                                |           | 150            | 0.05       | typ.       | 10         | 100                | 1.24         | .90          | .75          |
| 40407 40408      | T0-5<br>T0-5      | 1TA<br>1TA                                                         |           | 50<br>90       | 0.7        | 40         | 1          | 100                | .81<br>1,08  | .59<br>.78   | .49<br>.65   |
| 2N2895<br>2N2896 | T0-18<br>T0-18    | 1.8<br>1.8                                                         | 120       | 65<br>90       | 1          | 40<br>60   | 150<br>150 | 120*               | 1.41         | 1,02<br>1,50 | .85          |
| 2N2897           | T0-18             | 1.8                                                                | 60        | 45<br>40       | 1          | 50<br>50   | 150<br>150 | 100*               | 1.16         | .84          | .70          |
| 40084<br>2N3241A | T0-18<br>T0-104   | 2                                                                  | 60<br>30  | 25             | 1          | 100        | 10         | 100*<br>175        | .99<br>.73   | .53          | .44          |
| 2N3242A          | T0-104            | 2                                                                  | 40        | 40             |            | 125        | 10         | 175                | .83          | .60          | .50          |
| 2N697<br>2N699   | TO-5<br>TO-5      | 2                                                                  | 60<br>120 | 40 80          | 0.5        | 40         | 150<br>150 | 50*<br>50*         | .63<br>1.16  | .46<br>.84   | .38<br>.70   |
| 2N4074<br>40397  | T0-104<br>T0-104  | 2                                                                  |           | 40             | 0.3        | 50<br>100  | 100        | 80<br>80           | .73          | .53          | .44          |
| 40398 40399      | T0-104<br>T0-104  | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                            |           | 25<br>25<br>18 | 0.2        | 50<br>100  | 100        | 80<br>80           | .60          | .44          | .36          |
| 40400            | T0-104            | 2                                                                  |           | 18             | 0.2        | 50         | 100        | 80                 | .50          | .36          | .30          |
| 40450<br>40451   | }                 | 2                                                                  | 30<br>40  | 25<br>40       | † -        | 100<br>125 | 10<br>10   | 175                | .90          | .65          | .54          |
| 2N1613<br>2N1711 | T0-5<br>T0-5      | 3                                                                  | 75        | 50<br>50       | 1          | 40<br>100  | 150<br>150 | 60*<br>70*         | .75          | .54          | .45<br>.57   |
| 2N1893           | T0-5              |                                                                    | 120       | 80             | 0.5        | 40         | 150        | 50*                | 1.08         | .78          | .85          |
| 2N1479<br>2N1480 | T0-5<br>T0-5      | 5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 60<br>100 | 40             | 1.5        | 20<br>20   | 200        | 1.3                | 2.15         | 1.56         | 1.30<br>1.40 |
| 2N1481<br>2N1482 | T0-5              | 5                                                                  | 60<br>100 | 40             | 1.5        | 35         | 200        | 1.3                | 2.48         | 1.80         | 1.50 2.00    |
| 2N1700           | T0-5              | 5                                                                  | 60<br>120 | 40             | 1          | 20 40      | 100        | 1.3<br>1.3<br>120* | 1.90         | 1.38         | 1.15         |
| 2N2102<br>2N2270 | T0-5<br>T0-5      | 5                                                                  | 60        | 45             | 1          | 50         | 150        | 60*                | .91          | .66          | .55          |
| 2N2405<br>2N3053 | T0-5<br>T0-5      | 5                                                                  | 120       | 90<br>40       | 1 0.7      | 60<br>50   | 150<br>150 | 120*<br>100*       | .75          | .54          | .45          |
| 40309            | T0-5              |                                                                    | <u> </u>  | 18             | 0.7        | 70         | 50         | 100                | .70          | .51          |              |
| 40311<br>40314   | T0-5<br>T0-5      | 55555555                                                           |           | 30 40          | 0.7        | 70         | 50         | 100                | .73          | .53<br>.57   | .44          |
| 40315 40317      | T0-5              | 5                                                                  |           | 35             | 0.7        | 70         | 50         | 100                | .75          | .54          | .45          |
| 40320            | T0-5<br>T0-5      | 5                                                                  |           | 40             | 0.7        | 40 25      | 10         |                    | .78          | .57          | .47          |
| 40321<br>40323   | T0-5              | 5                                                                  |           | 18             | 0.7        | 70         | 50         | 100                | .70          | .51          | .42          |
| 40326<br>40327   | T0-5<br>T0-5      | 5                                                                  |           | 40<br>300      | 0.7        | 40         | 10 20      |                    | 1.24         | .90          | .75          |
| 40360            | T0-5              | 5                                                                  |           | 70             | 0.7        | 40         | 10         | 100<br>100         | .91<br>1.03  | .66          | .55          |
| 40361<br>40366   | T0-5<br>T0-5      | 55555                                                              | 120       | 70             | 0.7        | 70         | 50<br>150  | 100                | 7.84         | 5.70         | 4.75         |
| 40367<br>40539   | T0-5              | 5                                                                  | 100       | 55<br>55<br>90 | 1.5<br>0.7 | 35         | 200        | 100                | 7.84         | 5.70         | .40          |
| 40409 40389      | D                 | 3TA                                                                | A 60      |                | 0.7        | 50<br>50   | 150        | 100                | 1.14         | .83          | .69          |
| 40390            | D D               | 3.5T                                                               | 300       | 250            | 1          | 40         | 20         | 15*                | 2.15         | 1.56         | 1.30         |
| 40392<br>40544   | Č                 | 7                                                                  |           | 50             | 0.7        | 35         |            |                    | .75          | .54          | .45          |
| *FT_MD           | MHZ               | †Lim                                                               | ited by   | y dissi        | ipatio     | n.         |            |                    |              |              |              |

# **RCA** AUDIO FREQUENCY TRANSISTORS

#### AUDIO FREQUENCY SILICON N-P-N POWER TYPES CLASS A-AB-B FOR LINEAR OPERATION

#### MAX RATINGS CHARACTERISTICS P T 100-1000 Tc or hfe f٢ RCA TMF typ MHz 1.99 999 Each Up Each CBO VCEO Ic A Ic No. Package v ٧ min mA Each 1.5 1.5 1.5 1 40347 T0-5 450 .48 8.75 60 40 20 1.1 .66 .40 30 25 40 .64 40348 8.75 90 65 300 1.1 1.06 40349 10-5 10-5 8.75 10 160 450 140 350 150 20 1.1 15\* 1.56 1.13 2.70 .94 2N3439 2N3440 40 40 **30** 40 25 **40** 25 20 10 50 20 20 TO-5 10 300 250 15\* 15\* 50\* 50\* 10\* 10\* 1.82 1.32 1.10 2.76 1.38 1.56 1.14 2N4063 C 450 350 3.80 2.30 2N4063 2N4064 2N5320 2N5321 250 250 75 50 20 500 500 1.90 2.15 1.57 č 300 1.15 10 10 10 10 10 1 2 2 10-5 10-5 10-5 10-5 100 .95 ,69 75 1.57 1.14 1.06 1.24 2.56 2.56 5.03 .83 .77 .90 1.86 1.86 40346 40412 40372 175 250 10 30 .64 .75 1.55 1.55 5.8TA 5.8TA 5.8TA 5.8TA 5.8TA 1.2 1.2 15\* 60\* 55 0.5 90 4327 160 250 120 40373 40374 140 175 EEE 1 500 40375 50 3.66 3.05 25 25 25 25 20 20 35 20 20 25 20 25 20 750 750 750 750 300 500 2.89 3.63 4.46 6.77 2.31 2.48 2.10 2.64 3.24 4.92 1.68 1.80 2N1483 TO-8 60 40 3 3 3 3 2.5 4 4 4 4 4 4 4 $\begin{array}{c} 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \\ 1.2 \end{array}$ 1.75 TO-8 TO-8 TO-8 TO-8 TO-8 TO-66 2N1483 2N1484 2N1485 2N1486 2.20 2.70 100 55 40 55 40 140 55 40 35 60 60 100 4.10 1.40 1.50 2N1701 2N3441 25 25 29 29 29 29 29 29 29 29 60 160 T0-66 T0-66 T0-66 T0-66 2N3054 90 50 500 1.5A 1.16 .84 .84 .72 .75 .72 .72 .70 .70 .60 .62 .60 .60 40250 40310 1A 1A .99 40312 20 20 40316 40324 T0-66 T0-66 40 35 1A .99 .99 20 1A

\*fT MIN MHz

| 1                                                                                                                                                                                              |                                                                                                                                                                     |                                                                                  | MAX R                                                                                 | TINGS                                                                                                                                 |                                                                     | CHARA                                                                                                          | CTERI                                                                                                     | STICS                                                                                                                 |                                                                                                                        |                                                                                                                                         |                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                |                                                                                                                                                                     | Рт<br>Tcor                                                                       |                                                                                       |                                                                                                                                       |                                                                     | h                                                                                                              | FE                                                                                                        | fr                                                                                                                    |                                                                                                                        | 100-                                                                                                                                    | 1000                                                                                                                                   |
| RCA<br>No.                                                                                                                                                                                     | Package                                                                                                                                                             | TMF                                                                              | Усво<br>У                                                                             | VCEO<br>V                                                                                                                             | lc<br>A                                                             | min                                                                                                            | Tc<br>mA                                                                                                  | typ<br>MHz                                                                                                            | 1-99<br>Each                                                                                                           | 999<br>Each                                                                                                                             | Up<br>Each                                                                                                                             |
| 2N3583<br>2N3585<br>2N3585<br>2N3585<br>2N3878<br>2N3879<br>2N4240<br>40318<br>40318<br>40322<br>40322<br>40328<br>40364<br>2N5491<br>2N5491<br>2N5493<br>2N5493<br>2N5495<br>2N5495<br>2N5496 | 10-66<br>10-66<br>10-66<br>10-66<br>10-66<br>10-66<br>10-66<br>10-66<br>10-66<br>10-66<br>10-66<br>10-3<br>Y<br>X<br>Y<br>X<br>Y<br>X<br>X<br>Y<br>X<br>X<br>X<br>X | 35<br>355<br>355<br>355<br>355<br>355<br>355<br>355<br>550<br>500<br>50          | 250<br>375<br>500<br>120<br>500<br>60<br>60<br>60<br>60<br>75<br>75<br>60<br>60<br>90 | 175<br>250<br>300<br>75<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>50<br>60<br>50<br>65<br>65<br>50<br>65<br>80<br>80 | 222772222276777777777777777777777777777                             | 10<br>25<br>25<br>40<br>30<br>40<br>50<br>75<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | $\begin{array}{c} 10\\ 1\\ 1\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 1.5\\ 2\\ 2.5\\ 3\\ 3.5\\ 3.5\\ 3.5\\ \end{array}$ | 15*<br>15*<br>15*<br>10*<br>10*<br>15*<br><br>15<br>1<br>0.8*<br>0.8*<br>0.8*<br>0.8*<br>0.8*<br>0.8*<br>0.8*<br>0.8* | \$2.48<br>4.13<br>6.60<br>2.89<br>2.23<br>2.10<br>2.15<br>4.79<br>4.54<br>1.07<br>1.19<br>1.19<br>1.19<br>1.19<br>1.29 | \$1.80<br>3.00<br>4.80<br>2.10<br>1.62<br>1.52<br>1.56<br>3.48<br>3.30<br>3.48<br>3.30<br>.78<br>.86<br>.86<br>.86<br>.86<br>.86<br>.94 | \$1.50<br>2.51<br>4.00<br>3.00<br>1.75<br>1.33<br>1.22<br>1.33<br>2.99<br>2.75<br>.66<br>.66<br>.77<br>.77<br>.77<br>.77<br>.77<br>.77 |
| 2N1488<br>2N1489<br>2N1490<br>2N1702<br>2N5034<br>2N5036<br>40514<br>2N5035<br>2N5035<br>2N5037<br>40513<br>40542<br>40543                                                                     | T0-3<br>T0-3<br>T0-3<br>T0-3<br>T<br>T<br>T<br>U<br>U<br>U<br>U<br>U<br>T<br>T                                                                                      | 75<br>75<br>75<br>83<br>83<br>83<br>83<br>83<br>83<br>83<br>83<br>83             | 100<br>60<br>100<br>55<br>70<br>55<br>70                                              | 55<br>40<br>55<br>40<br>40<br>50<br>45<br>40<br>50<br>45<br>50<br>60                                                                  | 6<br>6<br>5<br>6<br>8<br>6<br>8<br>6<br>8<br>6<br>8                 | 15<br>25<br>25<br>15<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20                                     | 1.5<br>1.5<br>1.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2                     | 1<br>1<br>1<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8                                               | 4.95<br>7.43<br>8.25<br>4.54<br>1.34<br>1.42<br>1.26<br>1.32<br>1.41<br>1.24<br>1.31<br>1.37                           | 3.60<br>5.40<br>6.00<br>3.30<br>.98<br>1.04<br>.92<br>.96<br>1.02<br>.90<br>.95<br>1.00                                                 | 3.0<br>4.5<br>5.0<br>2.7<br>.8<br>.8<br>.8<br>.8<br>.7<br>.7<br>.8<br>.8<br>.7<br>.7<br>.8                                             |
| 2N4347<br>2N3055<br>40363<br>2N3442<br>40251<br>40325<br>2N4348<br>2N2015<br>2N2016<br>2N3771<br>2N3772<br>2N3773<br>40411                                                                     | T0-3<br>T0-3<br>T0-3<br>T0-3<br>T0-3<br>T0-3<br>T0-3<br>T0-36<br>T0-36<br>T0-3<br>T0-3<br>T0-3<br>T0-3<br>T0-3                                                      | 100<br>115<br>115<br>117<br>117<br>117<br>120<br>150<br>150<br>150<br>150<br>150 | 140<br>100<br>160<br>50<br>140<br>130<br>130<br>50<br>100<br>160                      | 120<br>60<br>70<br>140<br>40<br>35<br>120<br>50<br>65<br>40<br>60<br>140<br>90                                                        | 5<br>15<br>15<br>10<br>15<br>10<br>10<br>10<br>15<br>10<br>16<br>30 | 20<br>20<br>20<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>35                                                 | 2<br>4<br>3<br>8<br>5<br>5<br>5<br>15<br>10<br>8<br>4                                                     | .8*<br>1<br>1<br>.8<br>1<br>1<br>.7<br>1<br>1<br>1<br>.7<br>.7<br>.7                                                  | 2.97<br>1.82<br>1.82<br>4.54<br>1.90<br>4.13<br>9.08<br>9.90<br>4.13<br>4.13<br>7.43<br>4.29                           | 2.16<br>1.32<br>1.32<br>3.30<br>1.38<br>3.00<br>6.60<br>7.20<br>3.00<br>3.00<br>5.40<br>3.12                                            | 1.80<br>1.10<br>1.11<br>2.77<br>1.11<br>2.50<br>5.55<br>6.00<br>2.55<br>2.55<br>4.55<br>2.55                                           |

#### AUDIO FREQUENCY SILICON P-N-P POWER TYPES CLASS A-AB FOR LINEAR OPERATION

|            |         |          | MAX. RA   | TINGS     |          | CHAR | ACTERIS | STICS      |              |             |            |
|------------|---------|----------|-----------|-----------|----------|------|---------|------------|--------------|-------------|------------|
|            |         | Ρт       | 1         |           |          | h    | FE      | fτ         |              | 100-        | 1000       |
| RCA<br>No. | Package | T c<br>W | Усво<br>У | VCEO<br>V | I C<br>A | min  | Tc<br>A | typ<br>MHz | 1.99<br>Each | 999<br>Each | Up<br>Each |
| 40319      | T0-5    | 5        | 40        | 40        | -0.7     | 35   | -50     | 100        | \$1.16       | \$0.84      | \$0.70     |
| 40362      | TO-5    | 5        |           | -70       | -0.7     | 35   | 50      | 100        | 1.24         | .90         | .75        |
| 40537      | T0-5    | 5        |           | -55       | 0.7      | 50   | -50     | 100        | 1.24         | .90         | .75        |
| 40538      | TO-5    | 5        |           | 55        | -0.7     | 15   |         | 100        | 1.36         | .99         | .82        |
| 40406      | TO-5    |          | 50        | 50        | 0.7      | 20   | 0.1     | 100        | 1.19         | .87         | .72        |
| 40410      | D       |          |           | 90        | -0.7     | 50   | -150    | 100        | 1.32         | .96         | .80        |
| 40391      | D       |          | -60       | -40       | -1       | 50   | -150    | 60*        | 1.24         | .90         | .75        |
| 2N4036     |         | 7        | 90        | -65       | -1       | 40   | -150    | 60*        | 1.32         | .96         | .80        |
| 2N4037     |         | 7        | -60       | -40       | -1       | 50   | -150    | 60*        | 1.16         | .84         | .70        |
| 2N4314     |         | 7        | 90        | 65        | -1       | 50   | -150    | 60*        | 1.24         | .90         | .75        |
| 40394      | C       | 7        | 60        | 40        | -1       | 50   | -150    | 60*        | 1.24         | .90         | .75        |
| 2N5322     |         | 10       | -100      |           | -2       | 30   |         | 50*        | 2.15         | 1.56        | 1.30       |
| 2N5323     |         | 10       | 75        | -50       | -2       | 40   |         | 50*        | 1.57         | 1.14        | .95        |
| 2N5415     | TO-5    | 10       |           | -300      | -1       | 30   | -50     | 15*        | 3.30         | 2.40        | 2.00       |
| 2N5416     | T0-5    | 10       |           | -200      | -1       | 30   | 50      | 15*        | 4.95         | 3.60        | 3.00       |
| *fT MI     | N MHz   |          | -         |           | ę        |      | •       |            |              |             |            |

AUDIO FREQUENCY GERMANIUM N-P-N POWER Types class A-AB-B For Linear Operation

|                |              |            | X. RAT    | INGS       | CHARAC   | TERISTICS | 5             |               |               |
|----------------|--------------|------------|-----------|------------|----------|-----------|---------------|---------------|---------------|
|                | 1            | Рт         |           |            | l t      | FE        |               | 100-          | 1000          |
| RCA<br>No.     | Package      | T ∧<br>m₩  | Усво<br>У | lc<br>mA   | typ      | I c<br>mA | 1-99<br>Each  | 999<br>Each   | Úp<br>Each    |
| 2N647<br>2N649 | T0-1<br>T0-1 | 100<br>100 | 25<br>20  | 100<br>100 | 70<br>65 | 50<br>50  | \$1.08<br>.86 | \$0.78<br>.63 | \$0.65<br>.52 |
|                | Comple       | menta      | iry Sym   | metry      | PNP-NPN  | Matched   | Pair •TC      | +MIN          |               |
| 40396          | TO-1         | * 300      | 18        | 500        | + 30     | 250       | Pr83          | Pr60          | Pr50          |

#### AUDIO FREQUENCY GERMANIUM P-N-P POWER TYPES CLASS A-AB-B FOR LINEAR OPERATION

|                                                                                                                                           |                                              |                                                              | MAX. R                                 | ATINGS                                       |                                     | CHA                                           | RACTERI                                                             | STICS                                          |                                                                       |                                                                       |                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------|----------------------------------------|----------------------------------------------|-------------------------------------|-----------------------------------------------|---------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| RCA<br>No.                                                                                                                                | Package                                      | Рт<br>Tcor<br>Tmf<br>W                                       | Усво<br>V                              | VCEO                                         | ic<br>A                             | min                                           | h fe<br>Ic<br>A                                                     | ft<br>typ<br>MHz                               | 1-99<br>Each                                                          | 100-<br>999<br>Each                                                   | 1000<br>Up<br>Each                                                                         |
| 2N407<br>2N408<br>2N270<br>2N1183<br>2N1183A<br>2N1183A<br>2N1183B<br>2N1184B<br>2N1184B<br>2N1184B<br>2N1184B<br>2N176<br>2N351<br>2N376 | TO-8<br>TO-8<br>TO-8                         | .15TA<br>.27TA<br>7.5<br>7.5<br>7.5<br>7.5<br>7.5<br>7.5     | 20<br>25<br>45<br>60<br>80<br>80       |                                              | 70<br>0.75<br>3<br>3<br>3<br>3<br>3 | 65<br>70<br>20<br>20<br>20<br>40<br>40<br>40  | 0.05<br>0.15<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4                     | 1                                              | .76<br>1.82<br>2.31<br>2.89<br>2.48<br>2.81<br>4.13<br>Use 2<br>Use 2 | .55<br>1.32<br>1.68<br>2.10<br>1.80<br>2.04<br>3.00<br>N2869<br>N2869 | 2N408<br>\$0.285<br>.48<br>1.10<br>1.40<br>1.75<br>1.50<br>1.70<br>2.50<br>2N301<br>/2N301 |
| 2N2147<br>2N2148<br>40022<br>40050<br>40051<br>40254<br>40421<br>40462                                                                    | T0-3<br>T0-3<br>T0-3<br>T0-3<br>T0-3<br>T0-3 | 12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5<br>12.5 | 75<br>60<br>32<br>50<br>32<br>75<br>40 | 50<br>40<br>32<br>40<br>50<br>32<br>50<br>40 | 555555555<br>          55555        | 100<br>60<br>38<br>50<br>50<br>30<br>62<br>50 | $ \begin{array}{c} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\$ | 4<br>3<br>0.3<br>0.5<br>0.5<br>0.3<br>2<br>0.6 | 1.57<br>1.08<br>.83<br>.99<br>1.21<br>.78<br>1.28<br>1.16             | 1.14<br>.78<br>.60<br>.72<br>.88<br>.57<br>.93<br>.84                 | .95<br>.65<br>.50<br>.60<br>.73<br>.47<br>.77<br>.70                                       |
| 2N2869/<br>2N301<br>2N2870/<br>2N301A<br>2N1905<br>2N1906                                                                                 | T0-3<br>T0-3                                 | 30<br>30<br>30<br>30                                         | 60<br>80<br>100<br>130                 | 50<br>50<br>60                               | 10<br>10<br>6<br>6                  | 50<br>50<br>50<br>75                          | -1<br>-1<br>-1<br>-1                                                | 0.45<br>0.45<br>4<br>5                         | 1.52<br>3.15<br>4.13<br>6.60                                          | 1.11<br>2.29<br>3.00<br>4.80                                          | .92<br>1.91<br>2.50<br>4.00                                                                |

#### AUDIO FREQUENCY GERMANIUM P-N-P HI-VOLTAGE TYPES FOR LINEAR OPERATION

|                                                        |              | MAX P                                        | ATINGS                                                                       | CHARACT                                    | ERISTICS                       |                                                | 1                                            | 1                                           |
|--------------------------------------------------------|--------------|----------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------|--------------------------------|------------------------------------------------|----------------------------------------------|---------------------------------------------|
|                                                        |              | Усво                                         |                                                                              | VCE                                        | (sat)                          |                                                | 100-                                         | 1000                                        |
| RCA<br>No.                                             | Package      | Peak<br>V                                    | IC<br>A                                                                      | max<br>V                                   | A A                            | 1-99<br>Each                                   | 999<br>Each                                  | Up<br>Each                                  |
| 2N3732<br>2N3730<br>40440<br>2N3731<br>2N4346<br>40439 | T0-3<br>T0-3 | -100<br>-200<br>-200<br>-320<br>-320<br>-320 | $ \begin{array}{c} -3 \\ -3 \\ -10 \\ -10 \\ -10 \\ -10 \\ -10 \end{array} $ | -2<br>-2<br>-0.75<br>-1.5<br>-0.75<br>-1.5 | 0.7<br>0.7<br>6<br>6<br>6<br>6 | \$1.07<br>1.24<br>1.32<br>1.62<br>2.31<br>1.98 | \$0.78<br>.90<br>.96<br>1.18<br>1.68<br>1.44 | \$0.65<br>.75<br>.80<br>.98<br>1.40<br>1.20 |

#### AUDIO FREQUENCY SILICON N-P-N HIGH-VOLTAGE TYPES CLASS A-AB-B FOR LINEAR OPERATION

|                                                                                                                    |                                                                                       | M                                                                         | X RATI                                                   | NGS                                                       | CĤĂ                                                                  | RACTERI                                                             | STICS                                                             | 1                                                                                           |                                                                                      |                                                                                            |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                                                                                                                    |                                                                                       |                                                                           | Рт                                                       |                                                           | h                                                                    | FE                                                                  |                                                                   | 1                                                                                           |                                                                                      |                                                                                            |
| RCA<br>No.                                                                                                         | Package                                                                               | Усво<br>У                                                                 | TC OF<br>TMF<br>W                                        | Ic<br>A                                                   | min                                                                  | lc<br>mA                                                            | fr<br>min<br>MHz                                                  | 1-99<br>Each                                                                                | 100-<br>999<br>Each                                                                  | 1000<br>Up<br>Each                                                                         |
| 2N2102<br>2N2405<br>2N3878<br>2N3879<br>2N4390<br>2N5184<br>2N5185<br>40366<br>40375<br>2N2016<br>2N4347<br>2N4348 | T0-5<br>T0-66<br>T0-66<br>T0-104<br>T0-104<br>J<br>T0-5<br>E<br>T0-36<br>T0-3<br>T0-3 | 120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120<br>120        | 5<br>35<br>35<br>5<br>150<br>100<br>120                  | 1<br>1<br>7<br>0.05<br>.05<br>1<br>1<br>10<br>5<br>10     | 10<br>35<br>50<br>40<br>20<br>10<br>10<br>10<br>50<br>15<br>20<br>15 | 0.01<br>10<br>500<br>20<br>50<br>50<br>1A<br>500<br>5A<br>2A<br>5A  | 120<br>120<br>60<br>50<br>50<br>                                  | \$1.13<br>1.57<br>4.95<br>6.60<br>.75<br>.45<br>.52<br>7.84<br>5.03<br>9.90<br>2.97<br>4.13 | \$0.82<br>1.14<br>3.60<br>4.80<br>.54<br>.33<br>5.70<br>3.66<br>7.20<br>2.16<br>3.00 | \$0.68<br>.95<br>3.00<br>4.00<br>.45<br>.27<br>.31<br>4.75<br>3.05<br>6.00<br>1.80<br>2.50 |
| 2N4068<br>2N4069<br>2N3441<br>2N3442<br>2N3773<br>40349<br>40373<br>40346<br>2N3583<br>40374<br>2N3583             | T0-104<br>J<br>T0-66<br>T0-3<br>T0-3<br>T0-5<br>T0-5<br>T0-5<br>T0-66<br>E<br>T0-5    | 150<br>150<br>160<br>160<br>160<br>160<br>160<br>175<br>250<br>250<br>300 | 29<br>117<br>150<br>5<br>29<br>5<br>35<br>35<br>35<br>10 | 0,2<br>0.2<br>3<br>10<br>30<br>1<br>3<br>1<br>2<br>2<br>1 | 30<br>30<br>20<br>20<br>15<br>25<br>20<br>25<br>40<br>40<br>40       | 30<br>30<br>500<br>3A<br>8A<br>150<br>500<br>10<br>100<br>100<br>20 | 50<br>50<br>1.2<br>0.8<br>0.7<br>1<br>1.2<br>10<br>15<br>15<br>15 | 1.34<br>1.40<br>2.48<br>4.54<br>7.43<br>1.56<br>2.56<br>1.14<br>2.48<br>2.56<br>1.82        | .97<br>1.02<br>1.80<br>3.30<br>5.40<br>1.13<br>1.86<br>.83<br>1.80<br>1.86<br>1.32   | .81<br>.85<br>1.50<br>2.75<br>4.50<br>.94<br>1.55<br><b>.69</b><br>1.55<br>1.55<br>1.10    |
| 2N4064<br>40390<br>2N3584<br>2N3439<br>2N4063<br>2N4063<br>2N3585<br>2N4240                                        | C<br>D<br>TO-66<br>TO-5<br>C<br>TO-66<br>TO-66                                        | 300<br>300<br>375<br>450<br>450<br>500<br>500                             | 10<br>35<br>10<br>10<br>35<br>35                         | 1<br>2<br>1<br>1<br>2<br>2                                | 40<br>40<br>25<br>40<br>40<br>40<br>30                               | 20<br>20<br>1A<br>20<br>20<br>100<br>750                            | 15<br>15<br>15<br>15<br>15<br>15<br>15                            | 1.90<br>2.15<br>4.13<br>3.71<br>3.80<br>6.60<br>2.89                                        | 1.38<br>1.56<br>3.00<br>2.70<br>2.76<br>4.80<br>2.10                                 | 1.15<br>1.30<br>2.50<br>2.25<br>2.30<br>4.00<br>1.75                                       |

Specify Manufacturers Name and Number on Your Order

### **CI** TRANSISTORS

#### RADIO FREQUENCY SILICON MOS FET SMALL-SIGNAL TYPES FOR LINEAR OPERATION

|            |         | SI        | NGLE I | NSULATE      | O GAT    | E N-C    | HANNEL   | •            |             |            |
|------------|---------|-----------|--------|--------------|----------|----------|----------|--------------|-------------|------------|
|            |         | CHAR      | ACTERI | STICS        | MA)      | C. RATI  | INGS     |              |             |            |
|            |         | Gp        | S      | gfs          |          |          |          | 1            | 100-        | 1000       |
| RCA<br>No. | Package | typ<br>dB | MHz    | min<br>4 mho | Vos<br>V | lo<br>mA | Рт<br>mW | 1-99<br>Each | 999<br>Each | Up<br>Each |
| 3N143      | T0-72   | 13.5      | 100    | 5000         | 20       | 50       | 100      | \$1,39       | \$1.01      | \$0.84     |
| 3N139      | T0-72   | 14        | 200    | 3000         | 35       | 50       | 400      | 2.89         | 2.10        | 1.75       |
| 3N128      | T0-72   | 16        | 200    | 5000         | 20       | 50       | 400      | 1.45         | 1.06        | .88        |
| 3N152      | TO-72   | 17        | 200    | 5000         | 20       | 50       | 400      | 1.78         | 1.30        | 1.08       |
| 3N154      | T0-72   | 20        | 200    | 5000         | 20       | 50       | 400      | 1.62         | 1.18        | .98        |
| 40467      | T0-72   | 15        | 200    | 7500         | 20       | 50       | 400      | 1.24         | .90         | .75        |
| 3N142      | T0-72   | 24        | 100    | 4000         | 20       | 50       | 400      | 1.08         | .78         | .65        |
| 40468      | T0-72   | 24        | 100    | 7500         | 20       | 20       | 375      | .75          | .54         | .45        |
| 40559      | TO-72   | 25.8      | 100    | 7500         | 20       | 20<br>20 | 400      | .70          | .51         | .42        |
|            | мо      | S FET S   | ILICON | OUAL II      | SULAT    | ED G     | ATE *    | TYP uMh      | D           |            |
| 3N140      | T0-72   | 18        | 200    | 1000*        | 20       | 50       | 150      | 1.62         | 1.18        | .98        |
| 3N141      | T0-22   | 18        | 200    | 1000*        | 20       | 50       | 150      | 1.55         | 1.13        | .94        |

#### RADIO FREQUENCY SILICON N-P-N SMALL-SIGNAL CLASS A-B-C FOR UHF-VHF-HF -1 CHARACTERISTICS 1 MAY PATINCS

|                                                                                                                                                 |                                                                                                                                | CHAR.                                                                                      | ACTERIS                                   | STICS                                                                     | MAX. R                                                                                     | ATINGS                                                                     | 1                                                                                                       |                                                                                               |                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|                                                                                                                                                 |                                                                                                                                |                                                                                            |                                           | NF                                                                        |                                                                                            |                                                                            | }                                                                                                       |                                                                                               |                                                                                                    |
| RCA<br>No.                                                                                                                                      | Package                                                                                                                        | f T<br>min<br>MHz                                                                          | max<br>dB                                 | oper.<br>freq.<br>MHz                                                     | Усво<br>V                                                                                  | lc<br>mA                                                                   | 1-99<br>Each                                                                                            | 100-<br>999<br>Each                                                                           | 1000<br>Up<br>Each                                                                                 |
| 40354<br>40355<br>2N2270<br>2N2897<br>2N3053<br>40084<br>2N2102<br>2N2405<br>2N2895<br>2N2895<br>2N2896<br>2N5188<br>2N5189<br>2N5181<br>2N5182 | T0-104<br>J<br>T0-5<br>T0-18<br>T0-5<br>T0-18<br>T0-5<br>T0-18<br>T0-18<br>T0-18<br>T0-18<br>T0-104<br>T0-104                  | 100*<br>100*<br>60<br>100<br>100<br>120<br>120<br>120<br>120<br>120<br>120<br>700*<br>700* | 6<br>8<br>6<br>6<br>8<br>3.5<br>4.5       | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>200<br>200                        | Vceo-<br>150V<br>60<br>60<br>60<br>120<br>120<br>120<br>120<br>140<br>60<br>60<br>45<br>45 | 50<br>50<br>1A<br>1A<br>1A<br>1A<br>1A<br>1A<br>1A<br>1A<br>50<br>4        | \$1.18<br>1.24<br>.91<br>1.16<br>.75<br>.99<br>1.13<br>1.57<br>1.41<br>2.06<br>.55<br>.65<br>.45<br>.40 | \$0.86<br>.90<br>.66<br>.84<br>.54<br>.82<br>1.14<br>1.02<br>1.50<br>.40<br>.47<br>.33<br>.29 | \$0.71<br>.75<br>.55<br>.70<br>.45<br>.60<br>.68<br>.95<br>.85<br>1.25<br>.33<br>.39<br>.27<br>.24 |
| 40405<br>40519<br>2N917<br>2N918<br>2N5180<br>2N2708<br>2N4934<br>2N4936<br>2N4936<br>2N4259<br>40238<br>40239                                  | T0-52<br>T0-52<br>T0-72<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104                        | 300<br>500<br>650<br>700<br>700<br>750<br>750<br>750<br>800*<br>800*                       | 3.5<br>6<br>4.5<br>7.5<br>3.5<br>4.5<br>5 | 60<br>60<br>200<br>200<br>450<br>470<br>450                               | 40<br>30<br>30<br>35<br>40<br>50<br>30<br>40<br>45<br>45                                   | 500<br>50<br><br>50<br>50<br>50                                            | 1.41<br>1.27<br>1.41<br>48<br>2.31<br>1.40<br>1.90<br>1.90<br>1.90<br>.43<br>.40                        | Use<br>1.02<br>.92<br>1.02<br>.35<br>1.68<br>1.02<br>1.38<br>1.38<br>1.38<br>.32<br>.29       | 40519<br>.85<br>.77<br>.85<br>.29<br>1.40<br>.85<br>1.15<br>1.15<br>1.15<br>1.15<br>.26<br>.24     |
| 40240<br>40242<br>40243<br>40244<br>40245<br>40246<br>40478<br>40478<br>40479<br>40480<br>40481<br>40482<br>40472<br>40473                      | T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104 | 800*<br>800*<br>800*<br>800*<br>860*<br>860*<br>860*<br>900*                               | 2.5                                       | 100<br>190<br>Oscillator<br>100<br>Oscillator<br>200                      | 45<br>45<br>45<br>45<br>45<br>45<br>45<br>45<br>45<br>45<br>45<br>45                       | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50 | .38<br>.57<br>.47<br>.38<br>.40<br>.38<br>.66<br>.58<br>.48<br>.53<br>.50<br>.50<br>.66<br>.60          | .28<br>.41<br>.34<br>.29<br>.29<br>.28<br>.48<br>.42<br>.35<br>.39<br>.36<br>.48<br>.44       | .23<br>.34<br>.28<br>.23<br>.24<br>.23<br>.40<br>.35<br>.29<br>.32<br>.30<br>.40<br>.36            |
| 40474<br>40477<br>40235<br>40236<br>40237<br>2N3932<br>2N3933<br>2N3600<br>2N2857<br>2N5179<br>2N5109<br>* ft Typ                               | T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-104<br>T0-72<br>T0-72<br>T0-72<br>T0-72<br>T0-73<br>H7          | 900*<br>800*<br>1000*<br>1000*<br>1000*<br>750<br>750<br>850<br>1000<br>1000<br>1200       | 3.3<br>5<br>5<br>4.5<br>4.5<br>4.5<br>3   | Oscillator<br>216<br>Oscillator<br>450<br>200<br>450<br>200<br>200<br>200 | 45<br>45<br>45<br>45<br>30<br>40<br>30<br>30<br>20<br>40                                   | 50<br>50<br>50<br>50<br>50<br>50<br>40<br>50<br>400                        | .48<br>.50<br>.57<br>.48<br>.38<br>1.40<br>1.62<br>3.80<br>4.46<br>.65<br>3.47                          | .35<br>.36<br>.41<br>.35<br>.28<br>1.02<br>1.18<br>2.76<br>3.24<br>.47<br>2.52                | .29<br>.30<br>.34<br>.29<br>.23<br>.85<br>.98<br>2.30<br>2.70<br>.39<br>2.10                       |

2N5109 | TO \* ft Typ MHz

#### R.F. GERMANIUM P-N-P SMALL-SIGNAL TYPES FOR LINEAR OPERATION

|                                                                        |                                                                  | CHAR                 | ACTER                | . TYP                                   | . OPER.                                                         | M         | AX. RAT                                | INGS                                |                                                               |                                                              |                                                            |
|------------------------------------------------------------------------|------------------------------------------------------------------|----------------------|----------------------|-----------------------------------------|-----------------------------------------------------------------|-----------|----------------------------------------|-------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|
|                                                                        |                                                                  |                      |                      | G                                       | pe                                                              |           |                                        |                                     |                                                               |                                                              |                                                            |
| No.<br>RCA                                                             | Package                                                          | f⊤<br>typ<br>MHz     | thrb<br>typ<br>MHz   | dB                                      | Oper.<br>freq.<br>MHz                                           | Усво<br>V | Ic<br>mA                               | Рт<br>mW                            | 1-<br>99<br>Each                                              | 100-<br>999<br>Each                                          | 1000<br>Up<br>Each                                         |
| 2N139<br>2N218<br>2N409<br>2N410<br>2N140<br>2N219<br>2N219<br>2N411   | T0-40<br>T0-1<br>T0-40<br>T0-1<br>T0-40<br>T0-1<br>T0-40         |                      |                      |                                         |                                                                 |           |                                        |                                     | Use 2N<br>Use 2N<br>Use 2N<br>Use 2N                          | 1639 01                                                      | 40262<br>40262<br>40262<br>40261<br>40261                  |
| 2N412<br>40262<br>40488<br>40489<br>40487<br>2N274<br>2N1224<br>2N1226 | T0-40<br>T0-1<br>T0-1<br>T0-1<br>T0-1<br>T0-44<br>T0-33<br>T0-33 | 30<br>30<br>30<br>40 | 30<br>30<br>30<br>30 | 56<br>osc<br>56<br>53<br>22<br>22<br>22 | 0.455<br>ilator<br>0.455<br>1.5<br>12.5<br>12.5<br>12.5<br>12.5 |           | 10<br>10<br>10<br>10<br>10<br>10<br>10 | 80<br>80<br>80<br>120<br>120<br>120 | Use 2N<br>\$0.50<br>.22<br>.28<br>.30<br>1.24<br>1.24<br>1.49 | 1639 01<br>\$0.36<br>.16<br>.20<br>.22<br>.90<br>.90<br>1.08 | 40261<br>\$0.30<br>.13<br>.165<br>.18<br>.75<br>.75<br>.90 |
|                                                                        |                                                                  |                      | ONTIN                | ULEO                                    | AT TOP                                                          | OF N      | TT CO                                  |                                     |                                                               |                                                              |                                                            |

CONTINUED AT TOP OF NEXT COLUMN

#### **R.F. GERMANIUM P-N-P SMALL-SIGNAL TYPES** FOR LINEAR OPERATION

|                                                                                                                    | CO                                                                                             | NTINU            | ED FI                                  | ROM I                                            | BOTTOM                           | OF PR                                  | ECEOIN                                                                                          | IG COL                                        | UMN                                                   |                                                                             |                                                                                                |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------|----------------------------------------|--------------------------------------------------|----------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                                                                                                                    |                                                                                                | CHAR             | ACTE                                   | R. TYI                                           | P. OPER.                         | M                                      | AX. RAT                                                                                         | INGS                                          |                                                       |                                                                             | 1                                                                                              |
| RCA<br>No.                                                                                                         | Package                                                                                        | fr<br>typ<br>MHz | f нгь<br>typ<br>MHz                    | G<br>dB                                          | pe<br>Oper.<br>freq.<br>MHz      | Vcso<br>V                              | lc<br>mA                                                                                        | Рт<br>mW                                      | 1.<br>99<br>Each                                      | 100-<br>999<br>Each                                                         | 1000<br>Up<br>Each                                                                             |
| 2N1395<br>2N1524<br>2N1525<br>2N1526<br>2N1527<br>2N1638<br>2N1639<br>2N1631<br>2N1637<br>2N1637<br>2N372<br>2N370 | T0-33<br>T0-1<br>T0-40<br>T0-1<br>T0-40<br>T0-1<br>T0-1<br>T0-40<br>T0-1<br>T0-7<br>T0-7       | -                | 30<br>33<br>33<br>40<br>45<br>45<br>45 | 22<br>54.4<br>48.9<br>61.5<br>37<br>47.7<br>47.7 | 1.5<br>0.262<br>1.5<br>1.5       | 40<br>24<br>24<br>34<br>34<br>34<br>34 | $ \begin{array}{r} -10 \\ -10 \\ -10 \\ -10 \\ -10 \\ -10 \\ -10 \\ -10 \\ -10 \\ \end{array} $ | 120<br>80<br>80<br>80<br>80<br>80<br>80<br>80 | 1.82<br>.47<br>.48<br>.50<br>.53<br>.58<br>.57        | .35<br>Use 2<br>.36<br>.39<br>Use 2<br>.42<br>.41<br>Use                    | 1.10<br>.28<br>2N1524<br>.29<br>2N1526<br>.30<br>.32<br>2N1632<br>.35<br>.34<br>40243<br>40242 |
| 2N371<br>2N1180<br>2N384<br>2N1225<br>2N1396<br>2N1023<br>2N1066<br>2N1397<br>2N1177<br>2N1179<br>2N1178           | T0-7<br>T0-45<br>T0-44<br>T0-33<br>T0-33<br>T0-44<br>T0-33<br>T0-45<br>T0-45<br>T0-45<br>T0-45 | <br><br>         | 100<br>100<br>100<br>120<br>120<br>120 | 21<br>21<br>21<br>24<br>24<br>24<br>24           | 50<br>50<br>50<br>50<br>50<br>50 | 40<br>40<br>40<br>40<br>40             | 10<br>10<br>10<br>10<br>10<br>10                                                                | 120<br>120<br>120<br>120<br>120<br>120        | Use 4<br>1.65<br>1.41<br>1.93<br>2.72<br>1.98<br>2.15 | Use<br>0245 or<br>1.20<br>1.40<br>1.98<br>1.44<br>1.56<br>Use<br>Use<br>Use | 1.00<br>.85<br>1.17<br>1.65<br>1.20<br>1.30<br>40242<br>40243                                  |

#### **RADIO FREQUENCY SILICON N-P-N POWER TYPES** FOR LINEAR AND CLASS C OPERATION

|                 | <br>- | • | _ |
|-----------------|-------|---|---|
| CHARACTERN TIOC | <br>  |   | 1 |

|                                                                                                      |                                                                                         | C                                               | HARACTI                                                              | ERISTIC                             | S                                                     | MAX. F                                                                | RATINGS                                                        |                                                                                           |                                                                                       |                                                                                      |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                                      |                                                                                         | P                                               | OE                                                                   |                                     |                                                       |                                                                       |                                                                |                                                                                           |                                                                                       |                                                                                      |
| RCA<br>No.                                                                                           | Package                                                                                 | min.<br>W                                       | oper.<br>freq.<br>MHz                                                | Gpe<br>db                           | f⊤<br>typ<br>MHz                                      | PT<br>TC<br>W                                                         | VCEV                                                           | 1-<br>99<br>Each                                                                          | 100-<br>999<br>Each                                                                   | 1000<br>Up<br>Each                                                                   |
| 2N1491<br>40080<br>2N1492<br>40405                                                                   | T0-5<br>T0-39<br>T0-5<br>T0-52<br>T0-39                                                 | 0.01<br>0.1<br>0.1                              | 70<br>27<br>70                                                       | 15<br>17<br>15                      | 380<br>350<br>380                                     | 3<br>0.5<br>3                                                         | 30<br>30<br>60                                                 | \$1.82<br>1.08<br>4.29                                                                    | \$1.32<br>.78<br>3.12<br>Use                                                          |                                                                                      |
| 40081<br>2N1493<br>2N3118<br>2N4427<br>40280<br>2N3868<br>40290                                      | T0-39<br>T0-5<br>T0-5<br>T0-39<br>T0-39<br>T0-39<br>T0-39                               | 0.4<br>0.5<br>1<br>1<br>1<br>2                  | 27<br>70<br>50<br>175<br>175<br>400<br>135                           | 7<br>12<br>10<br>10<br>9<br>10<br>6 | 350<br>380<br>250*<br>800<br>550<br>800<br>500        | 2<br>3<br>4<br>5<br>7<br>5<br>7<br>5<br>7                             | 60<br>100<br>85<br>55<br>36<br>30<br>50                        | 1.41<br>7.01<br>4.95<br>2.15<br>4.62<br>2.97<br>2.48                                      | 1.02<br>5.10<br>3.60<br>1.56<br>3.36<br>2.16<br>1,80                                  | .85<br>4.25<br>3.00<br>1.30<br>2.80<br>1.80<br>1.50                                  |
| 40291<br>2N3553<br>40082<br>40446<br>2N3375<br>40581<br>40582<br>40281<br>2N4440<br>2N2631<br>2N3632 | T0-60<br>T0-39<br>T0-39<br>W<br>T0-60<br>T0-39<br>W<br>T0-60<br>T0-60<br>T0-39<br>T0-60 | 2<br>2.5<br>3<br>3.5<br>3.5<br>4<br>5.5<br>13.5 | 135<br>175<br>27<br>27<br>400<br>27<br>27<br>175<br>400<br>50<br>175 | 6<br>10<br>9<br>5<br>6<br>9<br>6    | 500<br>500<br>200<br>400*<br>400<br>500<br>200<br>400 | 11.6<br>7<br>5<br>10<br>11.6<br>5<br>10<br>11.6<br>11.6<br>8.75<br>23 | 50<br>65<br>60<br>65<br>60<br>60<br>60<br>36<br>65<br>80<br>65 | 10.40<br>4.37<br>4.04<br>4.29<br>10.80<br>4.87<br>5.12<br>10.60<br>11.90<br>3.47<br>12.75 | 7.55<br>3.18<br>2.94<br>3.12<br>8.95<br>3.54<br>3.72<br>8.75<br>9.85<br>2.52<br>10.55 | 6.30<br>2.65<br>2.45<br>2.60<br>7.45<br>2.95<br>3.10<br>7.30<br>8.20<br>2.10<br>8.80 |
| *Min. MF                                                                                             | lz                                                                                      |                                                 |                                                                      |                                     | I                                                     |                                                                       |                                                                |                                                                                           |                                                                                       |                                                                                      |

#### COMPUTER SWITCHING & PULSE SILICON **N-P-N LOW-LEVEL TYPES** FOR MEDIUM-SPEED OPERATION

|                                                                                                                    | 1                                                                                                 | CHAI                                                           | RACTERI                                                             | STICS                                                           |                                                                      | MAX. R                                                                 | ATINGS                                                                      |                                                    |                                                                                                       |                                                                                          | Ì                                                                                       |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| RCA                                                                                                                |                                                                                                   | fr<br>min                                                      | Vce(sat)<br>max                                                     | Cobo                                                            | hF                                                                   | FE<br>TC                                                               | Vcso                                                                        | ic                                                 | 1-                                                                                                    | 100-<br>999                                                                              | 1000                                                                                    |
| No.                                                                                                                | Package                                                                                           | mHz                                                            | V                                                                   | pF                                                              | min                                                                  | mA                                                                     | V                                                                           | A                                                  | Each                                                                                                  | Each                                                                                     | Up<br>Each                                                                              |
| 2N697<br>2N699<br>2N720A<br>2N1893<br>2N5320<br>2N5321<br>2N718A<br>2N1613<br>2N2270<br>2N3879<br>2N3879<br>2N5202 | T0-5<br>T0-5<br>T0-18<br>T0-5<br>T0-5<br>T0-5<br>T0-18<br>T0-5<br>T0-5<br>T0-66<br>T0-66<br>T0-66 | 50<br>50<br>50<br>50<br>50<br>60<br>60<br>60<br>60<br>60<br>60 | 1.5<br>5<br>5<br>0.5<br>0.8<br>1.5<br>1.5<br>0.9<br>2<br>1.2<br>1.2 | 35<br>20<br>15<br>15<br>25<br>25<br>15<br>175<br>175<br>175     | 40<br>40<br>40<br>30<br>40<br>40<br>40<br>40<br>50<br>20<br>20<br>10 | 150<br>150<br>150<br>500<br>500<br>150<br>150<br>150<br>4A<br>4A<br>4A | 60<br>120<br>120<br>100<br>100<br>75<br>75<br>75<br>60<br>120<br>120<br>120 | 0.5<br>1<br>0.5<br>2<br>1<br>1<br>1<br>7<br>7<br>4 | \$0.63<br>1.16<br>1.32<br>1.08<br>2.15<br>1.57<br>1.57<br>1.08<br>.75<br>.91<br>4.95<br>.6.60<br>4.53 | \$0.46<br>.84<br>.96<br>.78<br>1.56<br>1.14<br>.78<br>.54<br>.66<br>3.60<br>4.80<br>3.30 | \$0.38<br>.70<br>.80<br>.65<br>1.30<br>.95<br>.65<br>.45<br>.55<br>3.00<br>4.00<br>2.75 |
| 40375<br>2N1711<br>2N2897<br>2N3053<br>40064<br>40389<br>40392<br>2N2102<br>2N2405<br>2N2895                       | E<br>T0-5<br>T0-18<br>T0-5<br>T0-18<br>D<br>C<br>T0-5<br>T0-5<br>T0-5<br>T0-18                    | 60<br>70<br>100<br>100<br>100<br>100<br>120<br>120<br>120      | 1.4<br>1.4<br>0.5<br>0.5                                            | 175<br>25<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15 | 20<br>100<br>40<br>50<br>50<br>50<br>50<br>30<br>40<br>60<br>60      | 4A<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150      | 120<br>75<br>60<br>60<br>60<br>60<br>60<br>120<br>120<br>120                | 7<br>1<br>0.7<br>0.15<br>0.7<br>0.7<br>1<br>1      | 5.03<br>.94<br>1.16<br>.75<br>.99<br>.91<br>.91<br>1.13<br>1.57<br>1.41                               | 3.66<br>.69<br>.84<br>.54<br>.54<br>.66<br>.66<br>.82<br>1.14<br>1.02                    | 3.05<br>.57<br>.70<br>.45<br>.60<br>.55<br>.55<br>.68<br>.95<br>.85                     |
| 2N2896<br>2N5183<br>2N3262<br>40458<br>40459<br>2N3241A<br>2N3242A<br>40450<br>40451                               | T0-18<br>T0-104<br>T0-39<br>T0-104<br>J<br>T0-104<br>T0-104<br>T0-104<br>T0-104                   | 120<br>125<br>150<br>150<br>150<br>175<br>175<br>175           | 0.5<br>0.6<br>0.3<br>0.25<br>0.3<br>0.25                            | 15<br>Ccb<br>= 20<br>pF                                         | 60<br>40<br>40<br>100<br>100<br>100<br>125<br>100<br>125             | 150<br>300<br>500<br>10<br>10<br>10<br>10<br>10                        | 140<br>18<br>100<br>60<br>60<br>30<br>40<br>30<br>40                        | 1<br>1<br>1.5<br>1<br>1<br>                        | 2.06<br>.32<br>7.43<br>.78<br>.85<br>.73<br>.83<br>.80<br>.90                                         | 1.50<br>.23<br>5.40<br>.57<br>.62<br>.53<br>.60<br>.58<br>.65                            | 1.25<br>.19<br>4.50<br>.47<br>.51<br>.44<br>.50<br>.48<br>.54                           |

Order RCA Mounting Hardware From Page 87

## SWITCHING & PULSE TRANSISTORS

#### COMPUTER SWITCHING & PULSE SILICON P-N-P LOW LEVEL TYPES FOR MEDIUM SPEED OPERATION

|         | 1       |                       | CHAR            | CTERI        | STICS |      | MAX. RA | TINGS |          | 1           |            |
|---------|---------|-----------------------|-----------------|--------------|-------|------|---------|-------|----------|-------------|------------|
|         |         | f <del>r</del><br>min | Vcɛ(sat)<br>max | C obo<br>max |       | FE   | Vcao    | lc    | 1-<br>99 | 100-<br>999 | 1000<br>Up |
| RCA No. | Package | MHz                   | V               | pF           | min   | Ma   | V       | A     | Each     | Each        | Each       |
| 2N5322  | T0-5    | 50                    | 0.7             |              | 30    | -500 | 100     | 2     | 2,15     | 1.56        | 1.30       |
| 2N5323  | T0-5    | 50                    | 1.2             |              | 40    | -500 | 75      | -2    | 1.57     | 1.14        | .95        |
| 2N4036  | T0-5    | 60                    | 0,65            | 30           | 40    |      |         | 1     | \$1.32   | \$0.96      | \$0.80     |
| 2N4037  | 10·5    | 60                    | 1.4             | 30           | 50    |      | 60      | 1     | 1.16     | .84         | .70        |
| 2N4314  | T0-5    | 60                    | 1.4             | 30           | 50    | -150 | 90      | 1     | 1.24     | .90         | .75        |
| 40391   | D       | 60                    | 1.4             | 30           | 50    |      | -60     | -1    | 1.24     | .90         | .75        |
| 40394   | C       | 60                    | 1.4             | 30           | 50    |      | -60     | -1    | 1.24     | .90         | .75        |

#### COMPUTER SWITCHING & PULSE SILICON N-P-N LOW-LEVEL TYPES FOR HIGH-SPEED OPERATION

|                   |                |                  | CHARACT              | ERIST      | ICS              | MAX. RATINGS     |           |            |              |                     | 1                  |
|-------------------|----------------|------------------|----------------------|------------|------------------|------------------|-----------|------------|--------------|---------------------|--------------------|
| RCA<br>No.        | Package        | fт<br>min<br>MHz | Vcɛ(sat)<br>max<br>V | h,F<br>min | E<br>IC<br>mA    | ton<br>max<br>ns | Vсво<br>V | lc<br>A    | 1-99<br>Each | 100-<br>999<br>Each | 1000<br>Up<br>Each |
| 40217             | T0-52<br>T0-52 | -                |                      |            | se 2N3<br>se 2N3 |                  |           | ·          |              |                     |                    |
| 2N3119<br>2N914   | TO-5<br>TO-18  | 250              | 0.5                  | 50         | 100<br>se 2N3    | 40               | 100       | 0.5        | \$5.36       | \$3.90              | \$3.25             |
| 40220             | T0-52          |                  |                      | U          | se 2N3           | 3261             |           |            |              |                     |                    |
| 2N3011<br>2N5186  | T0-18<br>T0-52 | 400              | 0.2                  | 30<br>25   | 10<br>10         | 15<br>25         | 30<br>10  | 0.2<br>0.3 | .99<br>.40   | .72                 | .60                |
| 2N5187<br>2N2369A | TO-52<br>TO-18 | 400              | 0.25                 | 30<br>20   | 10<br>100        | 18<br>12         | 25<br>40  | 0.5        | .45          | .33<br>1.20         | .27<br>1.00        |
| 2N709<br>2N2475   | TO-18<br>TO-18 | 600<br>600       | 0.3                  | 20<br>30   | 10<br>20         | 15<br>20         | 15        |            | 1.32         | .96                 | .80                |
| 2N3261            | T0-52          | 600              | 0.35                 | 40         | 10               | 13               | 40        | 0.5        | 1.32         | .96                 | .80                |

#### COMPUTER SWITCHING & PULSE SILICON N-P-N HIGH-VOLTAGE TYPES FOR HIGH SPEED OPERATION

|                                                                    |                                                  |                                               | HARAC                             | TERIS                                  | TICS                                   |                                  | MAX. R                           | ATINGS                                    | 1                                                    |                                                   |                                                  |
|--------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|-----------------------------------|----------------------------------------|----------------------------------------|----------------------------------|----------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------------------------|--------------------------------------------------|
| RCA<br>No.                                                         | Package                                          | f⊤<br>min<br>MHz                              | Сово<br>max<br>pF                 | h FE<br>min                            | t on<br>max<br>ns                      | t off<br>max<br>ns               | Vсво<br>V                        | Рт<br>Та<br>W                             | 1-99<br>Each                                         | 100-<br>999<br>Each                               | 1000<br>Up<br>Each                               |
| 2N2476<br>2N2477<br>2N3512<br>2N5188<br>2N5189<br>2N5262<br>2N3261 | T0-5<br>T0-5<br>T0-5<br>T0-39<br>V<br>V<br>T0-52 | 250<br>250<br>250<br>250<br>250<br>250<br>600 | 10<br>10<br>10<br>12<br>12<br>3,5 | 20<br>40<br>10<br>20<br>35<br>20<br>30 | 25<br>25<br>30<br>35<br>40<br>30<br>13 | 45<br>45<br>50<br>70<br>60<br>16 | 60<br>60<br>60<br>60<br>75<br>40 | 0.6<br>0.6<br>0.8<br>0.8<br>1<br>1<br>0.3 | \$1.16<br>1.32<br>1.08<br>.55<br>.65<br>1.62<br>1.32 | \$0.84<br>.96<br>.78<br>.40<br>.47<br>1.18<br>.96 | \$0.70<br>.80<br>.65<br>.33<br>.39<br>.98<br>.80 |

#### COMPUTER SWITCHING & PULSE GERMANIUM P-N-P LOW-LEVEL TYPES FOR LOW- AND MEDIUM-SPEED OPERATION

|            |         | CH  | ARAC      | TERIST | ICS      | MAX. R    | ATINGS   | 1            |             | I          |
|------------|---------|-----|-----------|--------|----------|-----------|----------|--------------|-------------|------------|
|            |         |     | Cobo      | h      | FE       |           |          | 1            | 100-        | 1000       |
| RCA<br>No. | Package | MHz | max<br>pF | min    | TC<br>mA | VCBO<br>V | lc<br>mA | 1-99<br>Each | 999<br>Each | Up<br>Each |
| 2N1303     | T0-5    | 3   | 20        | 20     | 10       |           |          | \$0.42       | \$0.30      | \$0.25     |
| 2N404      | TO-5    | 4   | 20        | 30     | -12      | -25       |          | .42          | .30         | .25        |
| 2N404A     | TO-5    | 4   | 20        | 30     | -12      | 40        |          | .55          | .40         | .33        |
| 2N581      | T0-5    | - 4 | 20        | 20     | 20       |           | -100     | .50          | .36         | .30        |
| 2N396A     |         |     |           |        |          |           |          | Use          | 2N388 (     | N-P-N)     |
| 40403      | TO-5    | 5   | 20        | 30     | -10      |           | 200      | .66          | .48         | .40        |
| 2N1305     | TO-5    | 5   | 20        | 40     | -10      |           |          | .48          | .35         | .29        |
| 2N414      | T0-5    | 8   | 11        |        |          |           |          | .42          | .30         | .25        |
| 2N1307     | 70-5    | 10  | 20        | 60     | -10      |           |          | .58          | .42         | .35        |
| 2N582      | T0-5    | 14  | 20        | 40     | 24       | -25       | -100     | .66          | .48         | .40        |
| 2N1309     | T0-5    | 15  | 20        | 80     | -10      | 30        |          | .91          | .66         | .55        |
| 2N1683     | T0-5    | 50° | 12        | 50     |          | -13       | -100     | 1.90         | 1.38        | 1.15       |
| *ft. Min   | MHz     |     |           |        |          |           |          | +            |             |            |

COMPUTER SWITCHING & PULSE GERMANIUM N-P-N LOW-LEVEL TYPES FOR LOW AND MEDIUM-SPEED OPERATION

|            |         | CH         | ARAC      | TERIST | ICS | MAX, R    | ATINGS   |              |             |            |
|------------|---------|------------|-----------|--------|-----|-----------|----------|--------------|-------------|------------|
|            |         | Entb       | Cobo      | h      | FE  |           |          | 1            | 100-        | 1000       |
| RCA<br>No. | Package | min<br>MHz | max<br>pF | min    | nA  | Vсво<br>V | lc<br>mA | 1-99<br>Each | 999<br>Each | Up<br>Each |
| 2N585      | T0-5    | 3          | 25        | 20     | 20  | 25        | 200      | \$0.99       | \$0.72      | \$0.60     |
| 2N1302     | T0-5    | 3          | 20        | 20     | 10  | 25        | 300      | .42          | .30         | .25        |
| 2N1605     | T0-5    | 4          | 20        | 40     | 20  | 25        | 100      | .62          | .45         | .37        |
| 2N1605A    | T0-5    | 4          | 20        | 40     | 20  | 40        | 100      | 1.09         | .80         | .66        |
| 2N388      | T0-5    | 5          | 20        | 60     | 30  | 25        | 200      | .47          | .34         | .28        |
| 2N388A     | T0-5    | 5          | 20        | 60     | 30  | 40        | 200      | .88          | .64         | .53        |
| 2N1304     | T0-5    | 5          | 20        | 40     | 10  | 25        | 300      | .50          | .36         | .30        |
| 2N1306     | T0-5    | 10         | 20        | 60     | 10  | 25        | 300      | .62          | .45         | .37        |
| 2N1308     | T0-5    | 15         | 20        | 80     | 10  | 25        | 300      | .91          | .66         | .55        |

#### COMPUTER SWITCHING & PULSE GERMANIUM P-N-P LOW-LEVEL TYPES HIGH-VOLTAGE FOR LOW AND MEDIUM-SPEED OPERATION

|                                    |                      | MAX.             | RTG.     | CI             | HARACT   | ERISTIC  | S  |                       | _                    |                      |  |
|------------------------------------|----------------------|------------------|----------|----------------|----------|----------|----|-----------------------|----------------------|----------------------|--|
|                                    |                      | Рт               | fτ       | h              | EE.      | h h      | le |                       | 100-                 | 1000                 |  |
| RCA<br>No.                         | Package              | TA<br>mW         | KHz      | min            | IC<br>mA | mia      | mA | Lach                  | 999<br>Each          | Up<br>Each           |  |
| 2N398<br>2N398A<br>2N398B          | T0-5<br>T0-5<br>T0-5 | 50<br>150<br>250 | 20<br>40 | 20<br>20<br>20 | 5<br>5   | 20<br>40 | 11 | \$0.83<br>.91<br>1.16 | \$0.60<br>.66<br>.84 | \$0.50<br>.55<br>.70 |  |
| ILLUSTRATIONS OF RCA SEMICONDUCTOR |                      |                  |          |                |          |          |    |                       |                      |                      |  |

PACKAGES ARE SHOWN ON PAGE 87

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | r i                                                                                                                                                                     | MAX                                                                                                                              | . RATI                                                                                                            | IGS                                                                                      | C                                                                                                        | HARACT                                                                                       | ERISTIC                                                                                 | S S                                                                                                            | 1                                                                                                                                    |                                                                                                                               | I                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RCA<br>No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Package                                                                                                                                                                 | Рт<br>Tc<br>W                                                                                                                    | Vceo<br>V                                                                                                         | lc<br>A                                                                                  | 1<br>min                                                                                                 | IFE<br>TC<br>mA                                                                              | Сово<br>max<br>pF                                                                       | fr<br>min<br>MHz                                                                                               | 1.99<br>Each                                                                                                                         | 100-<br>999<br>Each                                                                                                           | 1000<br>Up<br>Each                                                                                                                                         |
| 40407<br>40408<br>2N718A<br>2N720A<br>2N2895<br>2N2895<br>2N2895<br>2N699<br>2N1613<br>2N1613<br>2N1711<br>2N1893<br>40409<br>40389                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | T0-5<br>T0-18<br>T0-18<br>T0-18<br>T0-18<br>T0-18<br>T0-18<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>D<br>D                                            | 1Ta<br>1Ta<br>1.8<br>1.8<br>1.8<br>1.8<br>1.8<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>5<br>7<br>a<br>3.5Ta<br>3.5Ta | 50<br>90<br>32<br>80<br>65<br>90<br>45<br>40<br>50<br>50<br>80<br>90<br>40<br>250                                 | 0.7<br>0.7<br>1<br>1<br>1<br>1<br>0.5<br>1<br>1<br>0.5<br>0.7<br>0.7<br>0.7              | 40<br>40<br>40<br>60<br>40<br>40<br>40<br>40<br>40<br>40<br>50<br>50<br>50<br>40                         | 1<br>10<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150                       | 25<br>15<br>15<br>15<br>35<br>20<br>25<br>25<br>15<br>15<br>15                          | 120<br>100<br>60<br>50<br>120<br>120<br>100<br>100<br>50<br>60<br>70<br>50<br>100<br>100<br>15                 | \$0.81<br>1.08<br>1.08<br>1.32<br>1.41<br>2.06<br>1.16<br>.63<br>1.16<br>.75<br>.94<br>1.08<br>1.14<br>.91<br>2.15                   | \$0.59<br>.78<br>.78<br>.96<br>1.02<br>1.50<br>.84<br>.46<br>.84<br>.54<br>.69<br>.78<br>.83<br>.66<br>1.56                   | \$0.49<br>.65<br>.65<br>.80<br>.85<br>1.25<br>.70<br>.38<br>.70<br>.45<br>.57<br>.65<br>.55<br>1.30                                                        |
| 2N1479<br>2N1480<br>2N1481<br>2N1481<br>2N1700<br>2N2102<br>2N2270<br>2N2405<br>2N3053<br>40309<br>40311<br>40314<br>40315<br>40317<br>40320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5                                                                                                            | 555555555555555555555555555555555555555                                                                                          | 40<br>55<br>40<br>55<br>45<br>90<br>40<br>18<br>30<br>30<br>40<br>40<br>40                                        | 1.5<br>1.5<br>1.5<br>1.5<br>1<br>1<br>1<br>0.7<br>0.7<br>0.7<br>0.7<br>0.7<br>0.7<br>0.7 | 20<br>20<br>35<br>35<br>20<br>40<br>50<br>50<br>70<br>70<br>70<br>70<br>70<br>40                         | 200<br>200<br>200<br>100<br>150<br>150<br>150<br>50<br>50<br>50<br>50<br>10                  | 150<br>150<br>150<br>150<br>150<br>15<br>15<br>15<br>15<br>15<br>15                     | 1.3<br>1.3<br>1.3<br>1.3<br>1.3<br>120<br>60<br>120<br>120<br>100<br>100<br>100<br>100<br>100                  | 2.15<br>2.31<br>2.48<br>3.30<br>1.13<br>.91<br>1.57<br>.75<br>.70<br>.73<br>.78<br>.75<br>.78<br>.75<br>.78<br>.78                   | 1.56<br>1.68<br>1.80<br>2.40<br>1.38<br>.82<br>.66<br>1.14<br>.54<br>.51<br>.53<br>.57<br>.54<br>.57<br>.57                   | 1.30<br>1.40<br>1.50<br>2.00<br>1.15<br>.68<br>.55<br>.45<br>.45<br>.42<br>.44<br>.47<br>.45<br>.47<br>.47                                                 |
| 40321<br>40323<br>40326<br>40327<br>40360<br>40361<br>40366<br>40367<br>40372<br>40374<br>40375<br>40372<br>40374<br>40375<br>40392<br>40347                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>T0-5<br>E<br>E<br>C<br>T0-5<br>T0-5<br>T0-5                                                                             | 5<br>5<br>5<br>5<br>5<br>5.8Ta<br>5.8Ta<br>5.8Ta<br>5.8Ta<br>7<br>8.75<br>8.75<br>8.75                                           | 175<br>50<br>40<br>65<br>140                                                                                      | 1<br>0.7<br>0.7<br>1<br>0.7<br>0.7<br>1<br>1.5<br>4<br>2<br>7<br>0.7<br>1<br>1<br>1      | 25<br>70<br>40<br>40<br>70<br>40<br>35<br>25<br>40<br>20<br>50<br>20<br>30<br>25                         | 20<br>50<br>10<br>50<br>150<br>200<br>500<br>100<br>4A<br>150<br>450<br>300                  | 120<br>175<br>15                                                                        | 100<br>100<br>100<br>1.2<br>15<br>60<br>100                                                                    | 1.24<br>.70<br>.78<br>1.24<br>.91<br>1.03<br>7.84<br>7.84<br>1.24<br>2.56<br>5.03<br>.91<br>.66<br>1.06<br>1.56                      | .90<br>.51<br>.57<br>.90<br>.66<br>.75<br>5.70<br>5.70<br>5.70<br>5.70<br>3.66<br>.66<br>.48<br>.77<br>1.13                   | .75<br>.42<br>.47<br>.75<br>.62<br>4.75<br>4.75<br>1.55<br>3.05<br>.55<br>.40<br>.64<br>.94                                                                |
| PO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | WER S                                                                                                                                                                   | NITCH                                                                                                                            | IING<br>FOR<br>TRATIN                                                                                             | LOW                                                                                      |                                                                                                          | SILICO<br>EO OP<br>Haracti                                                                   | OWER                                                                                    | TYPE                                                                                                           | .S                                                                                                                                   |                                                                                                                               |                                                                                                                                                            |
| RCA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                         | ₽т                                                                                                                               | VCEO                                                                                                              | lc                                                                                       | - 1                                                                                                      | IFE                                                                                          | Сово<br>тах                                                                             | fr                                                                                                             | 1-99                                                                                                                                 | 100-<br>999                                                                                                                   | 1000<br>Up                                                                                                                                                 |
| No.<br>2N3439<br>2N3440<br>2N4063<br>2N4064<br>40346<br>40412<br>2N1483<br>2N1484                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Package<br>TO-5<br>TO-5<br>C<br>TO-5<br>TO-5<br>TO-5<br>TO-8<br>TO-8                                                                                                    | W<br>10<br>10<br>10<br>10<br>10<br>25<br>25                                                                                      | V<br>350<br>250<br>250<br>175<br>250<br>40<br>55                                                                  | A<br>1<br>1<br>1<br>1<br>3<br>3                                                          | min<br>40<br>40<br>40<br>25<br>40<br>20<br>20                                                            | <b>A</b><br>0.02<br>0.02<br>0.02<br>0.02<br>0.01<br>0.03<br>0.75<br>0.75                     | <b>pF</b><br>10<br>10<br>10<br>10<br>10<br>12<br>1.75<br>1.75                           | MHz<br>15<br>15<br>15<br>15<br>10<br>10<br>1.2<br>1.2                                                          | Each<br>\$3.71<br>1.82<br>3.80<br>1.90<br>1.14<br>1.06<br>2.89<br>3.63                                                               | Each<br>\$2.70<br>1.32<br>2.76<br>1.38<br>.83<br>.77<br>2.10<br>2.64                                                          | Each<br>\$2.25<br>1.10<br>2.30<br>1.15<br>.69<br>.64<br>1.75<br>2.20                                                                                       |
| 2N1 485<br>2N1 486<br>2N1 701<br>2N3441<br>2N3054<br>2N3583<br>2N3583<br>2N3585<br>2N4240<br>2N3878                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | T0-8<br>T0-8<br>T0-8<br>T0-66<br>T0-66<br>T0-66<br>T0-66<br>T0-66<br>T0-66<br>T0-66                                                                                     | 25<br>25<br>25<br>29<br>35<br>35<br>35<br>35                                                                                     | 40<br>55<br>40<br>140<br>55<br>175<br>250<br>300<br>300<br>50                                                     | 3<br>3<br>2.5<br>3<br>4<br>2<br>2<br>2<br>2<br>7                                         | 35<br>35<br>20<br>20<br>25<br>40<br>25<br>25<br>30<br>20                                                 | 0.75<br>0.75<br>0.3<br>0.5<br>0.5<br>0.1<br>1<br>1<br>0.75<br>4                              | 1.75<br>1.75<br>1.75<br>1.75<br>1.75<br>1.75<br>1.20<br>120<br>120<br>120<br>120<br>120 | 1.2<br>1.2<br>1.2<br>1.2<br>1.2<br>1.2<br>1.5<br>15<br>15<br>15<br>15<br>60                                    | 4.46<br>6.77<br>2.31<br>2.48<br>1.16<br>2.48<br>4.13<br>6.60<br>2.89<br>4.95                                                         | 3.24<br>4.92<br>1.68<br>1.80<br>.84<br>1.80<br>3.00<br>4.80<br>2.10<br>3.60                                                   | 2.70<br>4.10<br>1.40<br>1.50<br>.70<br>1.50<br>2.50<br>4.00<br>1.75<br>3.00                                                                                |
| 2N3879<br>40313<br>40318<br>40322<br>40328<br>40364<br>2N5490<br>2N5491<br>2N5492<br>2N5493<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5496<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5490<br>2N5400<br>2N5400<br>2N5400<br>2N5400<br>2N5400<br>2N5400<br>2N54000 | T0-66<br>T0-66<br>T0-66<br>T0-66<br>T0-66<br>Y<br>X<br>Y<br>X<br>Y<br>X<br>Y<br>X<br>Y<br>X<br>Y<br>X<br>Y<br>X<br>T0-3<br>T0-3<br>T0-3<br>T0-3<br>T0-3<br>T0-3<br>T0-3 | 35<br>35<br>35<br>35<br>50<br>50<br>50<br>50<br>50<br>50<br>75<br>75<br>75<br>75<br>75<br>75                                     | 75<br>300<br>300<br>300<br>60<br>50<br>65<br>65<br>50<br>50<br>50<br>50<br>80<br>80<br>80<br>80<br>40<br>55<br>40 | 722227777777766665                                                                       | 20<br>40<br>40<br>20<br>35<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | 4<br>0.1<br>20<br>1<br>0.5<br>2<br>2.5<br>3<br>3.5<br>3.5<br>1.5<br>1.5<br>1.5<br>1.5<br>0.8 | 175<br><br><br>200<br>200<br>200<br>200<br>200                                          | 60<br><br>15<br>0.8<br>0.8<br>0.8<br>0.8<br>0.8<br>0.8<br>0.8<br>0.8<br>0.8<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 6.60<br>2.23<br>2.10<br>2.15<br>2.19<br>4.79<br>1.07<br>1.19<br>1.19<br>1.19<br>1.19<br>1.29<br>4.54<br>4.95<br>7.43<br>8.25<br>4.54 | 4.80<br>1.62<br>1.52<br>1.56<br>3.48<br>.86<br>.86<br>.86<br>.86<br>.86<br>.86<br>.94<br>3.30<br>3.60<br>5.40<br>6.00<br>3.30 | 4.00<br>1.35<br>1.27<br>1.30<br>1.38<br>2.90<br>.65<br>.65<br>.72<br>.72<br>.72<br>.72<br>.72<br>.72<br>.72<br>.78<br>2.75<br>3.00<br>4.50<br>5.00<br>2.75 |
| 04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | WER S                                                                                                                                                                   | WITCH                                                                                                                            |                                                                                                                   | LOW                                                                                      | ILSE<br>•SPE                                                                                             | SILICO<br>ED OP<br>CHAR/                                                                     |                                                                                         | 0 N                                                                                                            | OWER                                                                                                                                 | TYPE                                                                                                                          |                                                                                                                                                            |
| RCA<br>No.<br>40406<br>40410<br>40391<br>40319<br>40362<br>40394                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Package<br>TO-5<br>D<br>TO-5<br>TO-5<br>D                                                                                                                               | P T<br>Te<br>W<br>1Ta<br>3Ta<br>3.51<br>5<br>5<br>7                                                                              | Vce<br>V<br>50                                                                                                    | °                                                                                        | 0.7<br>-0.7<br>-0.7<br>-1<br>-0.7<br>-0.7<br>-0.7<br>-1                                                  | hrin<br>30<br>50<br>35<br>35<br>35                                                           |                                                                                         | fr<br>min<br>MHz<br>100<br>100<br>60<br>100<br>100<br>60                                                       | 1-99<br>Each<br>\$1.19<br>1.32<br>1.24<br>1.16<br>1.24<br>1.24                                                                       | 100-<br>999<br>Each<br>\$0.87<br>.96<br>.90<br>.84<br>.90<br>.90                                                              | 1000<br>Up<br>Each<br>\$0.72<br>.80<br>.75<br>.75<br>.75<br>.75                                                                                            |

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#### Specify Manufacturers Name and Number on Your Order

## **C** SEMICONDUCTORS & HDWE.—FENWAL

### POWER SWITCHING & PULSE GERMANIUM P-N-P POWER TYPES FOR LOW-SPEED OPERATION

|                                                                                            |                                                                      | MA                                                                 | X. RATIN                                | IGS                                          | CH                                           | ARACTER                                               | ISTICS                                  |                                                                |                                                                |                                                                |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------|----------------------------------------------|----------------------------------------------|-------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
|                                                                                            | D'                                                                   |                                                                    | Vcav                                    |                                              |                                              | hre                                                   |                                         | 1                                                              | 100-                                                           | 1000                                                           |
| RCA<br>No.                                                                                 | Package                                                              | Рт<br>W                                                            | v                                       | lc<br>A                                      | min                                          | lc<br>A                                               | VCE<br>V                                | 1-99<br>Each                                                   | 999<br>Each                                                    | Up<br>Each                                                     |
| 2N586<br>2N1183<br>2N1183A<br>2N1183B<br>2N1183B<br>2N1184<br>2N1184A<br>2N1184B<br>2N1905 | T0-7<br>T0-8<br>T0-8<br>T0-8<br>T0-8<br>T0-8<br>T0-8<br>T0-8<br>T0-3 | 0.25<br>7.5<br>7.5<br>7.5<br>7.5<br>7.5<br>7.5<br>7.5<br>7.5<br>30 | 25<br>20<br>30<br>20<br>30<br>40<br>100 | 0.25<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>6 | 30<br>20<br>20<br>20<br>40<br>40<br>40<br>50 | 0.25<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4 | -0.5<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | \$1.73<br>1.82<br>2.31<br>2.89<br>2.48<br>2.81<br>4.13<br>4.13 | \$1.26<br>1.32<br>1.68<br>2.10<br>1.80<br>2.04<br>3.00<br>3.00 | \$1.05<br>1.10<br>1.40<br>1.75<br>1.50<br>1.70<br>2.50<br>2.50 |
| 2N1906                                                                                     | T0-3                                                                 | 30                                                                 | -130                                    | -6                                           | 75                                           | μ <u>i</u>                                            | 2                                       | 6.60                                                           | 4.80                                                           | 4.00                                                           |

#### POWER SWITCHING & PULSE SILICON N-P-N POWER TYPES FOR HIGH-VOLTAGE OPERATION

|                  |               | MA         | X. RATIN | GS         | CHAF     | RACTERIS | STICS     |              |             | 1          |
|------------------|---------------|------------|----------|------------|----------|----------|-----------|--------------|-------------|------------|
|                  |               | VCEO       | Pτ       | fr         |          | h F E    |           |              | 100-        | 1000       |
| RCA<br>No.       | Package       | v          | w        | min<br>MHz | min      | lc<br>mA | V CE<br>V | 1-99<br>Each | 999<br>Each | Up<br>Each |
| 2N4347           | T0-3          | 120        | 100      | 0.8        | 20       | 2A       | 4         | \$2.97       | \$2.16      | \$1.80     |
| 2N4348           | T0-3          | 120        | 120      | 0.7        | 15       | 5A       | 4         | 4.13         | 3.00        | 2.50       |
| 2N4390           | T0-104        | 120        | 0.5      | 50         | 20       | 20       | 1         | .75          | .54         | .45        |
| 2N3441           | T0-66         | 140        | 25       | 1.2        | 20       | 500      | 4         | 2.48         | 1.80        | 1.50       |
| 2N3442           | T0-3          | 140        | 117      | 0.8        | 20       | 3A       | 4         | 4.54         | 3.30        | 2.75       |
| 2N3773           | T0-3          | 140        | 150      | 0.7        | 15       | 88       | 4         | 7.43         | 5.40        | 4.50       |
| 40349            | TO-5          | 140        | 8.75     | 1.1        | 25       | 150      | 4         | 1.56         | 1.13        | .94        |
| 40373            | E             | 140        | 5.8      | 1.2        | 20       | 500      | 4         | 2.56         | 1.86        | 1.55       |
| 2N4068           | TO-104        | 150        | 0.5      | 50         | 30       | 30       | 10        | 1.34         | .97         | .81        |
| 2N4069           | _J            | 150        | 1        | 50         | 30       | 30       | 10        | 1.40         | 1.02        | .85        |
| 40354            | TO-104        | 150        | 0.5      | 50         | 55       | 10       | 10        | 1.18         | .86         | .75        |
| 40355            | J             | 150        | 1        | 50         | 55       | 10       | 10        | 1.24 2.48    | .90         |            |
| 2N3583           | TO-66         | 175        | 35       | 15         | 10       | 1A       | 10        |              | 1.80        | 1.50       |
| 40346            | T0-5          | 175        | 10       | 10         | 25<br>10 | 10       | 10        | 1.14<br>2.56 | 1.86        | 1.55       |
| 40374            | E             | 175        | 5.8      | 15<br>15   |          | 1A<br>50 | 10        | 3.30         | 2.40        | 2.00       |
| 2N5415*          | T0-5          | -200       | 10<br>10 |            | 30<br>40 | 20       | 10        | 1.82         | 1.32        | 1,10       |
| 2N3440<br>2N3584 | T0-5<br>T0-66 | 250<br>250 | 35       | 15<br>15   | 25       | 1A       | 10        | 4.13         | 3.00        | 2.50       |
| 2N3564<br>2N4064 | C C           | 250        | 10       | 15         | 40       | 20       | 10        | 1.90         | 1.38        | 1.15       |
| 40390            | D             | 250        | 3,5      | 15         | 40       | 20       | 10        | 2.15         | 1.56        | 1.30       |
| 40350            | T0-5          | 250        | 10       | 10         | 40       | 30       | 20        | 1.06         | .77         | .64        |
| 2N3585           | T0-66         | 300        | 35       | 15         | 25       | 14       | 10        | 6.60         | 4.80        | 4.00       |
| 2N3383           | TO-66         | 300        | 35       | 15         | 30       | 750      | 10        | 2.89         | 2.10        | 1.75       |
| 2N5416*          | TO-5          |            | 10       | 15         | 30       | 50       | -10       | 4.95         | 3.60        | 3.00       |
| 2N3439           | TO-5          | 350        | 10       | 15         | 40       | 20       | 10        | 3.71         | 2.70        | 2.25       |
| 2N4063           | C C           | 350        | 10       | 15         | 40       | 20       | 10        | 3.80         | 2.76        | 2.30       |
| 211-1003         | v v           | 330        | 10       | 1.7        | - 40     | 20       | 1 10      | 0.00         |             | 1          |

\*PNP Type.

#### POWER SWITCHING & PULSE SILICON N-P-N POWER TYPES FOR LOW-SPEED OPERATION MAX. RATINGS CHARACTERISTICS T

|                            |                        | MAA               | . #ALIP         | 162            | 1 6            | TARAL             | ENISIE    | 63              |                        |                       | 1                    | GA51P2                     | B           | 100K               | 10.3:1                  | 2.00                 | 1.60                | 1.30              | 1.14                     |
|----------------------------|------------------------|-------------------|-----------------|----------------|----------------|-------------------|-----------|-----------------|------------------------|-----------------------|----------------------|----------------------------|-------------|--------------------|-------------------------|----------------------|---------------------|-------------------|--------------------------|
|                            |                        | Pτ                | VCEO            | lc             | h              | F IE              | Cobo      | fr              |                        | 100-                  | 1000                 | GB32J2                     | Å           | 2K                 | 7.3:1                   | 1.96                 | 1.57                | 1.28              | 1.12                     |
| RCA<br>No.                 | Package                | Tc<br>W           | v               | A              | min            | Ic<br>A           | max<br>pF | typ<br>MHz      | 1·99<br>Each           | 999<br>Each           | Up<br>Each           | GB32P8<br>G025J1           | B           | 2K<br>500          | 7,3:1<br>5.1:1          | 2.35<br>3.24         | 1.88                | 1.53              | 1.34<br>1.85             |
| 2N5034<br>2N5036<br>2N5035 | T                      | 83<br>83<br>83    | 40<br>50<br>40  | 6<br>8<br>6    | 20<br>20<br>20 | 2.5<br>2.5<br>2.5 |           | 0.8             | \$1.34<br>1.42<br>1.32 | \$0.98<br>1.04<br>.96 | \$0.81<br>.86<br>.80 | JB25J1<br>JB31J1<br>JA35J1 | CCC         | 500<br>1K<br>5K    | 6.9:1<br>6.9:1<br>9.1:1 | 1.00<br>1.00<br>1.00 | .80<br>.80<br>.80   | .65<br>.65<br>.65 | .57<br>.57<br>.57<br>.49 |
| 2N5037<br>40513<br>2N4347  | U<br>U<br>T0-3         | 83<br>83<br>100   | 50<br>45<br>120 | 8<br>6<br>5    | 20<br>20<br>20 | 2.5<br>2,5<br>2   |           | 0.8             | 1.41<br>1.24<br>2.97   | 1.02<br>.90<br>2.16   | .85<br>.75<br>1.80   | KA31L1<br>LB21J1<br>NB11J1 | C<br>C<br>C | 1K<br>100<br>10    | 9,1:1<br>6,9:1<br>6,9:1 | .85<br>.85<br>.45    | .68<br>.68<br>.68   | .56<br>.56<br>.56 | .49<br>.49<br>.72        |
| 2N3055<br>40363<br>2N3442  | T0-3<br>T0-3<br>T0-3   | 115<br>115<br>117 | 60<br>70<br>140 | 15<br>15<br>10 | 20<br>20<br>20 | 4 4 3             |           | 1 1 0.8         | 1.82<br>1.82<br>4.54   | 1.32<br>1.32<br>3.30  | 1.10<br>1.10<br>2.75 | QA51J1<br>RB41L1<br>WA21W1 | D<br>D<br>E | 100K<br>10K<br>100 | 9.1:1<br>9.1:1<br>9.1:1 | 1.25<br>1.20<br>1.25 | 1.00<br>.96<br>1.00 | .82<br>.78<br>.82 | .72<br>.69<br>.72<br>.72 |
| 2N4348<br>2N2015<br>2N2016 | T0-3<br>T0-36<br>T0-36 | 120<br>150<br>150 | 120<br>50<br>65 | 10<br>10<br>10 | 15<br>15<br>15 | 5                 | 400       | 0.7             | 4.13<br>9.08<br>9.90   | 3.00<br>6.60<br>7.20  | 2.50<br>5.50<br>6.00 | WB11W1<br>KB22J1           | E<br>C      | 10<br>200          | 6,9:1<br>6.9:1          | 1.25                 | 1.00                | .82               | .49                      |
| 2N3771<br>2N3772<br>2N3773 | T0-3<br>T0-3<br>T0-3   | 150<br>150<br>150 | 40<br>60<br>140 | 15<br>10<br>16 | 15<br>15<br>15 | 15<br>10<br>8     | 400       | 1<br>0.9<br>0.7 | 4.13<br>4.13<br>7.43   | 3.00<br>3.00<br>5.40  | 2.50<br>2.50<br>4.50 | Contains                   | 10 glass    | bead and roo       | BASIC /                 | Resistance           | e values            | from 3K           | to 135K                  |
| 40411                      | T0-3                   | 150               | 90              | 16             | 35             | 4                 |           | 0.7             | 4.29                   | 3.12                  | 2.60                 |                            |             |                    | s manual and            |                      |                     |                   | \$8.96                   |

#### GERMANIUM TUNNEL DIODES FOR SWITCHING & MICROWAVE SMALL SIGNAL TYPES

|       |         |           |      | CHAR     | ACTERI        | STICS    |     |           |        |             |            |
|-------|---------|-----------|------|----------|---------------|----------|-----|-----------|--------|-------------|------------|
| RCA   |         | lı<br>min | max  | C<br>max | l ⊳/l∨<br>min | V<br>min | max | tr<br>typ | 1.99   | 100-<br>999 | 1000<br>Us |
| No.   | Package | mA        | mA   | pFW      |               | m٧       | ۳V  | ps        | Each   | Each        | Each       |
| 40561 | M       | 4.5       | 5.5  | 25       | 6:1           | 430      | 590 | 1800      | \$4.54 | \$3.30      | \$2.78     |
| 40566 | M       | 4.75      | 5,25 | 15       | 8:1           | 490      | 560 | 1200      | 7.43   | 5.40        | 4,50       |
| 40571 | I M     | 4.75      | 5.25 | 8        | 8:1           | 490      | 560 | 600       | 8.60   | 6.24        | 5.20       |
| 40562 | M       | 9         | 11   | 25       | 6:1           | 440      | 600 | 900       | 4.54   | 3.30        | 2.78       |
| 40567 | M 1     | 9.5       | 10,5 | 15       | 8:1           | 510      | 580 | 600       | 6.52   | 4.74        | 3,95       |
| 40572 | M       | 9.5       | 10.5 | 8        | 8:1           | 510      | 580 | 300       | 7.01   | 5.10        | 4.25       |
| 40563 | I M I   | 18        | 22   | 30       | 6:1           | 460      | 620 | 600       | 4.54   | 3.30        | 2.75       |
| 40568 | M       | 19        | 21   | 20       | 8:1           | 530      | 600 | 400       | 7.01   | 5.10        | 4.25       |
| 40573 | M       | 19        | 21   | 10       | 8:1           | 530      | 600 | 200       | 8.95   | 9.94        | 4.9        |
| 40564 | M       | 45        | 55   | 40       | 6:1           | 530      | 640 | 350       | 4.54   | 3.30        | 2.79       |
| 40569 | M       | 47.5      | 52.5 | 25       | 8:1           | 550      | 620 | 200       | 7.43   | 5.40        | 4.50       |
| 40574 | M       | 47.5      | 52.5 | 12       | 8:1           | 550      | 620 | 100       | 10.75  | 7.80        | 6.50       |
| 40565 | M       | 90        | 110  | 40       | 6:1           | 540      | 650 | 150       | 4.54   | 3.30        | 2.75       |
| 40570 | M       | 95        | 105  | 25       | 8:1           | 560      | 630 | 100       | 10.75  | 7.80        | 6.50       |

#### GERMANIUM DAMPER DIODES FOR TV HORIZONTAL DEFLECTION

|                 |              | MA                  | MAX. RATINGS    |                    |             | HARACT       | ERISTICS   | 1              |                     | 1                  |
|-----------------|--------------|---------------------|-----------------|--------------------|-------------|--------------|------------|----------------|---------------------|--------------------|
| RCA<br>No.      | Package      | V nm<br>(peak)<br>V | V#<br>cont<br>V | irm<br>(peak)<br>A | tf(AV)<br>A | VF(AV)       | 1n<br>1A   | 1-99<br>Each   | 100-<br>999<br>Each | 1000<br>Up<br>Each |
| 40442<br>1N4785 | T0-3<br>T0-3 | 200<br>320          | 40<br>60        | 10<br>10           | 777         | 0.77<br>0.77 | 150<br>150 | \$0.83<br>1.08 | \$0.60<br>.78       | \$0.90<br>.65      |

#### GLASS-METAL-CADMIUM-SULFIDE PHOTOCELLS

|    |            |                                 |                               |                          |      |              |                     |                    | 1-20               |
|----|------------|---------------------------------|-------------------------------|--------------------------|------|--------------|---------------------|--------------------|--------------------|
|    | RCA<br>No. | Resistance<br>@ 2 f.c.<br>K Ohm | OC or<br>Peak AC<br>max Volts | Power<br>Dissip.<br>Watt | Fig. | 1-99<br>Each | 100-<br>999<br>Each | 1000<br>Up<br>Each |                    |
| İ. | SQ2503     | 30                              | 600                           | 0.75                     | Α    | \$1.28       | \$0.93              | \$0.77             | (A) 1"<br>Diameter |
| Ł  | 7163       | 17                              | 600                           | 0.75                     | A    | 1.28         | .92                 | .77                |                    |
| L  | 4448       | 14                              | 600                           | 0.75                     | A    | 1.21         | .85                 | .73                | (B) TO-8           |
| L  | 4404       | 9                               | 600                           | 0.75                     | Α    | 1.21         | .88                 | .73                | Modified           |
| L  | 4403       | 3                               | 350                           | 0.75                     | A    | 1.32         | .96                 | .80                | // //              |
|    | SQ2520     | 0.85                            | 200                           | 0.35                     | В    | 1.32         | .96                 | .80                | // 1               |

#### FENWAL THERMISTORS

Thermistors are thermal resistors of ceramic material combined with metals to obtain a definite decrease in resistance as temperature is increased. Features close tolerance and stability with high reliability and unlimited life. An ideal temperature measuring device. Res. ratio  $0^{\circ}$  C to  $50^{\circ}$  C.

| Mfg.<br>No. | Fig. | 0hms @<br>25° C | Ratio  | 1-9<br>Each | 10-24<br>Each | 25-99<br>Each | 100-241<br>Each |
|-------------|------|-----------------|--------|-------------|---------------|---------------|-----------------|
| GA51J1      | A    | 100K            | 10.3:1 | \$1.96      | \$1.57        | \$1.28        | \$1.12          |
| GA51P2      | B    | 100K            | 10.3:1 | 2.00        | 1.60          | 1.30          | 1.14            |
| GB32J2      | Ā    | 2K              | 7.3:1  | 1.96        | 1.57          | 1.28          | 1.12            |
| GB32P8      | B    | 2K              | 7.3:1  | 2.35        | 1.88          | 1.53          | 1.34            |
| G025J1      |      | 500             | 5.1:1  | 3.24        | 2.60          | 2.11          | 1.85            |
| JB25J1      | Â    | 500             | 6.9:1  | 1.00        | .80           | .65           | .57             |
| JB31J1      | č    | 1K              | 6.9:1  | 1.00        | .80           | .65           | .57             |
| JA35J1      | Č    | 5K              | 9.1:1  | 1.00        | .80           | .65           | .57             |
| KA31L1      | Ē    | ĪΚ              | 9.1:1  | .85         | .68           | .56           | .49             |
| LB2111      | č    | 100             | 6.9:1  | .85         | .68           | .56           | .49             |
| NB11J1      | Č    | 10              | 6.9:1  | .65         | .68           | .56           | .49             |
| QA51J1      | Ď    | 100K            | 9.1:1  | 1.25        | 1.00          | .82           | .72             |
| RB41L1      | Ď    | 10K             | 9.1:1  | 1.20        | .96           | .78           | .69             |
| WA21W1      | Ē    | 100             | 9.1:1  | 1.25        | 1.00          | .82           | .72             |
| WB11W1      | Ē    | 10              | 6.9:1  | 1.25        | 1.00          | .82           | .72             |
| KB22J1      | ιč   | 200             | 6.9:1  | .85         | .68           | .56           | .49             |

Λ

#### THERMISTOR BASIC APPLICATION KIT

|                    | RCA SEM            | ICONDUC          | TOR HARD                         | WARE             |                      |                 |                                         |                                 |
|--------------------|--------------------|------------------|----------------------------------|------------------|----------------------|-----------------|-----------------------------------------|---------------------------------|
| Stock              | Package Outline    | RCA              | Description                      | Standard<br>Pack | Price<br>Per Package | DO-5 TO-48      | 00-4 TO-64                              | TO-36 TO-63                     |
| No.                | For Semiconductors |                  |                                  |                  |                      |                 | <u>en</u> 25                            |                                 |
| 12A2410            | [ D0-4 ]           | NA38C            | Nut                              | 25               | \$0.38               | CON Call        | as as                                   |                                 |
| 12A2411            |                    | NR109A           | Lock Washer                      | 25               | .27                  | a hada          |                                         | Jell                            |
| 12A2412            | and                | DF6C             | Insulator—Mica                   | 50               | .68                  |                 |                                         |                                 |
| 12A2413            | T0-64              | DF3D             | Insulator—Teflon                 |                  | .60                  | THE H           |                                         |                                 |
| 12A2414            |                    | NR59B            | Connector                        | 25               | .60                  |                 | (O) DFeC                                | 1 0 1 0 7A                      |
| 12A2415            | D0.5 ]             | NA38B            | Nut                              | 25               | .52                  |                 |                                         |                                 |
| 12A2416            |                    | NR110A           | Lock Washer                      | 25               | 1.44                 | ( O ) 0F68      | C 0F30                                  | ( <del>···</del> ) 495334-5 🛛 👹 |
| 12A2417            |                    | NR68A            | Connector                        |                  | .89                  | $\sim$          | DF6C                                    | 0 NR608                         |
| 12A2418            | and                | DF3H             | Insulator—Teflon                 | 50               | .85                  | O OF3H          | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | ( ) 0F60                        |
| 12A2419            |                    | DF6B             | Insulator-Mica                   | 100              | 1.15                 |                 | O NR598                                 | C 495274                        |
| 12A2420            | TO-1 & TO-18       | SA2100           | Heat Sink Clip                   | 100              | 2.40                 | ( ) DF68        |                                         | A39C () 495334-6                |
| 12A2421            | T0-3 7             | 495320           | Insulator-Mica                   | 100              | 1.64                 |                 | O NR109A                                |                                 |
| 12A2422            |                    | 495334-7         | Washer-Nylon                     | 50               | .85                  |                 | NA38C                                   |                                 |
| 12A2423            | TO-5 Flange        | DF63A            | Insulator-Mica                   | 25               | 1.09                 | - HAUDA         | C HAJOC                                 | TO-66                           |
| 12A2424            | T0-8 7             | DF13B<br>DF14A   | Mounting Clamp                   | 100              | 1.96                 | () NR110A       |                                         |                                 |
| 12A2425            |                    |                  | Insulator-Mica                   | 100              | 1.64                 | ( NA388         |                                         | For S                           |
| 12A2422            |                    | 495334-7         | WasherNylon                      | 25               | 1.04                 | NA3BE           |                                         | то-60 р.А.                      |
| 12A2410            | T0-36              | NA38C            | Nut                              | 25               | .38<br>.26           |                 | <b>1</b>                                | P.4                             |
| 1242426            | 11 1               | NR66B            | Washer                           | 25               | .54                  | TO-3            |                                         | DF31A 495334-7                  |
| 12A2427            | 11 1               | NR48A            |                                  | 25               | 1.72                 | 10.3            | OF138                                   | "Flange-Type TO-5"              |
| 12A2428<br>12A2429 | 11                 | 495334-5<br>DF7A | Bushing—Delrin<br>Insulator—Mica | 25               | .92                  |                 | $\bigcirc$                              |                                 |
| 12A2429            |                    | NA38C            | Nut                              | 25               | 32                   | 10 01           | то-в                                    |                                 |
| 12A2410            | L TO-60            | NR66B            | Washer                           | 25               | .38                  | 0               |                                         |                                 |
| 12A2420            | 10-63              | DF6D             | Insulator-Mica                   | 100              | 1.62                 | 200.0)          | 0                                       | (O) NR66B                       |
| 12A2440            | 10-03              | 495334-6         | Insulator—Teflon                 |                  | 11.14                | /               | 0714                                    |                                 |
| 1242441            | T0-66              | DF31A            | Insulator—Mica                   | 100              | 1.77                 | 6 0             | 10: 10                                  | NASEC                           |
| 12A2442            |                    | 495334-7         | Washer—Nylon                     | 100              | 1.64                 | 495320 405324.7 | 495334-7                                | THT DF63A                       |
| 1242422            |                    | 1 490034-1       | Trastier-itytoli                 | 1 100            | 1.04                 | 495320 495334-7 | 432334.1                                |                                 |

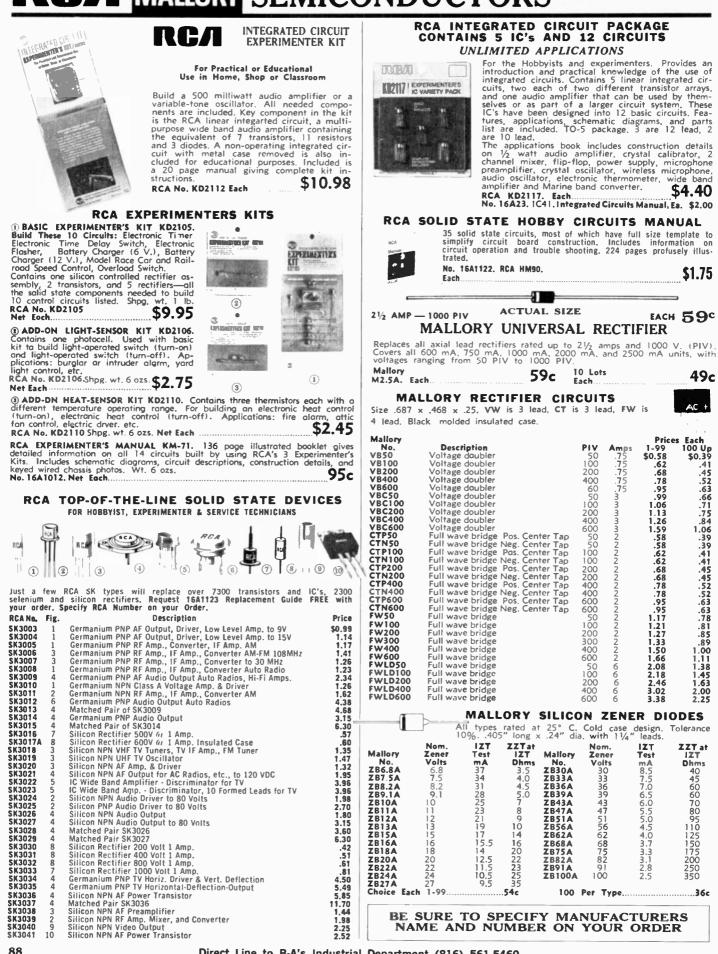
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 .63

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 .66

 .06
 .71

 .13
 .75

 .26
 .84

1.06

.41 .45 .45 .52 .52 .63 .63 .78

.81

.85

1.00 1.11 1.38 1.45 1.63 2.00 2.25

ZZT at

Dhms

350

IZT

1-99 \$0.58 .62 .68

1.06

1.59

.58 .58 .62 .62 .68 .68 .78 .78 .95 .95 1.17 1.21

1.27 1.33 1.50 1.66 2.08 2.18

2.46

3.38

IZT

Test mA 8.5 7.5 7.0 6.5 6.0 5.5 5.0 4.5

4.0

3.3

2.8

2.5

100

EACH 59°

ZB27A

Choice Each

1-99.

4.50

5.49 5.85 11.70

1.44

2.25

2.52

SK3036

SK3037

SK3038

SK3039

SK3040

44

44

3

10

| I. | <b>R</b> . | SEMICONDUCTORS | FOR | TV | &                                                                                                               | HOBBY |
|----|------------|----------------|-----|----|-----------------------------------------------------------------------------------------------------------------|-------|
|    |            |                |     |    | A REPORT OF A R |       |

| -                                                                                                 |                                                                                                                         |                                                                                       |                                                                                                            |                                                                                            |                                                             |                                         |                                                     |                                               |                |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|----------------|
|                                                                                                   |                                                                                                                         | //                                                                                    | 2 AMP -                                                                                                    | 1.000                                                                                      | <b>/ERSA</b><br>LT. Provid                                  | tec volt                                | 200 00                                              | tection                                       | from 10        |
|                                                                                                   |                                                                                                                         | {                                                                                     | volts up                                                                                                   | to 1,000<br>mps. Idea<br>orders, B                                                         | volts and                                                   | nd surg                                 | e curre<br>lios, ph                                 | nt protection                                 | tion up        |
|                                                                                                   | C)                                                                                                                      | •                                                                                     | tape rec                                                                                                   | orders, B<br>t. R210, E                                                                    | & W TV                                                      | and cold                                | r TV.                                               |                                               | \$1.30         |
|                                                                                                   |                                                                                                                         | ١.                                                                                    |                                                                                                            | IODES                                                                                      |                                                             | CTIF                                    |                                                     |                                               |                |
| //                                                                                                |                                                                                                                         | <u> </u>                                                                              | R. D                                                                                                       | IUDES                                                                                      |                                                             |                                         | TERS                                                | •                                             |                |
| 1                                                                                                 | BITL BECT.                                                                                                              |                                                                                       | 0                                                                                                          |                                                                                            |                                                             | Ju                                      | 1                                                   | - n                                           | 8              |
| 4                                                                                                 |                                                                                                                         | > í                                                                                   |                                                                                                            |                                                                                            | Nº1                                                         | G                                       | 服。                                                  |                                               | 10             |
| 2                                                                                                 | 11                                                                                                                      |                                                                                       | 16                                                                                                         |                                                                                            | L'S                                                         |                                         |                                                     |                                               | A B            |
| Ť                                                                                                 | 111                                                                                                                     | 2                                                                                     |                                                                                                            |                                                                                            |                                                             |                                         |                                                     |                                               | 7              |
| 1                                                                                                 | 111                                                                                                                     | ાંગ                                                                                   | 1. Cale                                                                                                    | 3 4 4                                                                                      |                                                             | 5                                       |                                                     |                                               |                |
| Int. Re                                                                                           |                                                                                                                         |                                                                                       |                                                                                                            |                                                                                            |                                                             | 1-4                                     |                                                     |                                               | 100-999        |
| No.<br>1N34A                                                                                      | Fig.                                                                                                                    | 60 Volt                                                                               |                                                                                                            | ermanium (                                                                                 | liode                                                       | Ead<br>\$0.4                            | 0 \$0.3                                             | 6 \$0.32                                      | Each<br>\$0.29 |
| 1 N60<br>1 N64                                                                                    | 0                                                                                                                       | 40 Volt                                                                               | , 50 MA G                                                                                                  | ermanium I<br>ermanium I                                                                   | Diode                                                       | .4                                      | 0 .3                                                | 6 .32                                         | .29            |
| 1N82A<br>1N87A                                                                                    | 0                                                                                                                       | 25 Volt                                                                               | , 50 MA U                                                                                                  | HF Silicon I<br>ermanium [                                                                 | Diode                                                       | .9                                      | 5.8                                                 | 5.76                                          | .68            |
| 1N295                                                                                             |                                                                                                                         | 50 Volt                                                                               | , 30 MA G                                                                                                  | ermanium [                                                                                 | Diode                                                       | .3                                      | 6.3                                                 | 2 .29                                         | .26            |
| 0004<br>0005                                                                                      | 2                                                                                                                       | Dual Di                                                                               | ode Serie                                                                                                  | Cath. G.E. I<br>s Con. G.E.                                                                | Equiv, 6GI                                                  | 01 .5                                   | 5.4                                                 | 9.44                                          | .36            |
| DD <b>06</b>                                                                                      | (2)                                                                                                                     |                                                                                       |                                                                                                            | Anode G.E.                                                                                 |                                                             |                                         |                                                     | 9.44                                          | .36            |
| Int. Re                                                                                           |                                                                                                                         | C                                                                                     | Max.                                                                                                       | Inches                                                                                     | 5                                                           | 1-4                                     | 5-9                                                 | 10-99                                         | 100-999        |
| No.<br>E075L                                                                                      | M<br>To                                                                                                                 |                                                                                       | 130                                                                                                        | Size<br>.67x.67x                                                                           |                                                             | Each<br>\$0.59                          | Each<br>\$0.50                                      | Each<br>\$0.44                                | Each<br>\$0.35 |
| E150L<br>E300L                                                                                    | 75-<br>150-                                                                                                             | 150                                                                                   | 130<br>130                                                                                                 | 1"x1"<br>1¼x1¼x                                                                            |                                                             | .75                                     | .67<br>.92                                          | .62<br>.92                                    | .44<br>.61     |
| ESOOL                                                                                             | 400-                                                                                                                    |                                                                                       | 130                                                                                                        | 14/2×14/2×                                                                                 | 15/16                                                       | 1.25                                    | 1.22                                                | 1.02                                          | .70            |
|                                                                                                   | 'Three te                                                                                                               | rminal                                                                                | Fig. (1)                                                                                                   | NOUSTRIAL                                                                                  | . SELENIU                                                   | others 1                                | KS<br>pridge.                                       | 1-24                                          | 25-99          |
| J14C1*                                                                                            |                                                                                                                         | 36                                                                                    | 14                                                                                                         | 1                                                                                          | .5 1                                                        | 4/2×14/2×                               | 11/8                                                | \$1.50<br>2.40                                | \$1.25 2.10    |
| J29B1<br>J29B5                                                                                    |                                                                                                                         | 36<br>36                                                                              | 29<br>29                                                                                                   |                                                                                            | .5 1<br>.8 3                                                | 1/2x11/2x<br>x3 x                       | 1 4/2<br>2 5/8                                      | 7.00                                          | 5.90           |
|                                                                                                   |                                                                                                                         |                                                                                       |                                                                                                            | ERY CHARG                                                                                  |                                                             |                                         |                                                     | 1.0                                           | 10-99          |
| Int. Rei<br>No.                                                                                   | ct. Fig.                                                                                                                | Input<br>V, AC                                                                        |                                                                                                            | put Out<br>V. Am                                                                           |                                                             | Size                                    |                                                     | 1-9<br>Each                                   | Each           |
| JD116K<br>JD117K                                                                                  |                                                                                                                         | 16.5<br>16.5                                                                          | 6.                                                                                                         |                                                                                            |                                                             | 3x3x.5<br>4x4x.5                        |                                                     | \$1.75<br>2.34                                | \$1.49<br>2.00 |
| JD241M<br>BCF-10                                                                                  | <u>(</u> )                                                                                                              | 16.5<br>Pos. (                                                                        | 6.                                                                                                         | 12                                                                                         |                                                             | 6x5x.5<br>6x4x3.9                       |                                                     | 3.35<br>\$9.95                                | 3,04<br>\$8,95 |
| BCR-10                                                                                            | 10 com.                                                                                                                 | Neg. 🤅                                                                                | 5 33 6                                                                                                     | -12 50-                                                                                    | 100†                                                        | 6x4x3.9                                 |                                                     | 9.95                                          | 8.95           |
| Interna                                                                                           | itional R                                                                                                               | ectifier                                                                              | BC101                                                                                                      | 6 or 12 voi<br>1-9                                                                         | t. 100 am                                                   | p maxt i<br>15.00                       | 10-99                                               | XP., COOIL                                    | \$13.50        |
| +Ratin                                                                                            | gs with I                                                                                                               |                                                                                       | -                                                                                                          |                                                                                            |                                                             |                                         |                                                     |                                               |                |
| -                                                                                                 | 108                                                                                                                     |                                                                                       |                                                                                                            | RTV                                                                                        |                                                             |                                         |                                                     | ECTIF                                         |                |
| Int. R                                                                                            | 8 used<br>ect. 61-89                                                                                                    | as voit                                                                               | nge boos<br>DO PR Vo                                                                                       | ter rectifi<br>Its. 1-4 Ea                                                                 | er and 6<br>ach                                             | \$1.15                                  | 5-9                                                 | Each                                          | \$1.03         |
| Int. R                                                                                            | ect. 61-8                                                                                                               |                                                                                       |                                                                                                            | olts. 1-4 E                                                                                |                                                             | \$2.95                                  |                                                     | Each                                          |                |
| Í                                                                                                 | NE                                                                                                                      |                                                                                       |                                                                                                            | CON<br>5% of all                                                                           |                                                             |                                         |                                                     | TIFIE<br>requireme                            |                |
| Ċ                                                                                                 | 111                                                                                                                     | sulat                                                                                 | ed to el                                                                                                   | iminate sh                                                                                 | orting. M                                                   | eet or                                  | exceed                                              | the speci                                     | fications      |
| I.R.                                                                                              | Cell Per                                                                                                                |                                                                                       | ie origina                                                                                                 | Output                                                                                     | Series                                                      |                                         | 1-4                                                 | 5-9                                           | 10-99          |
| No.<br>CD-05                                                                                      | Device<br>3                                                                                                             | PRV.<br>18                                                                            | VRMS.<br>12                                                                                                | 65MA                                                                                       | Res.<br>100 ohi                                             | m                                       | Each<br>\$0,80                                      | Each<br>\$0,72                                | Each<br>\$0.65 |
| CD-07                                                                                             | 4<br>5                                                                                                                  | 18                                                                                    | 12                                                                                                         | 65MA<br>65MA                                                                               | 100 oh<br>100 oh                                            | m                                       | .90                                                 | .81                                           | .73            |
| CD-09                                                                                             |                                                                                                                         | 18                                                                                    |                                                                                                            |                                                                                            |                                                             |                                         |                                                     |                                               |                |
| SIL                                                                                               | ICON                                                                                                                    | REC                                                                                   | TIFIE                                                                                                      | ER TUI                                                                                     | BE RE                                                       |                                         |                                                     | 5WA                                           | 231            |
| A piu<br>5Y3, 5                                                                                   | Z4, 6004                                                                                                                | acemen<br>I. Conti                                                                    | ains a si                                                                                                  | a, DAWA,<br>Jige limiti                                                                    | ng resisto                                                  | or which                                | adds                                                | to its                                        | IN ACES SASP   |
| praction in high                                                                                  | her equi                                                                                                                | mited                                                                                 | oltage.                                                                                                    | 4, 5AW4,<br>urge limiti<br>er forward                                                      | voltage                                                     | characte                                | eristic i                                           | esuits                                        | TVI STOR       |
| Int, R<br>1-24Ea                                                                                  | ect. No. :<br>Ich.                                                                                                      | ST-14/1                                                                               | N2389.                                                                                                     | 0 25-                                                                                      | 99 Each                                                     |                                         |                                                     | \$3.00                                        |                |
|                                                                                                   | IN                                                                                                                      | TER                                                                                   | NATE                                                                                                       | ONAL                                                                                       | RECTI                                                       | FIER                                    | BO                                                  | OKS                                           |                |
| SCR H                                                                                             | andbook.                                                                                                                | Basic                                                                                 | theory or                                                                                                  | understar                                                                                  |                                                             |                                         |                                                     |                                               | ontrolled      |
| No. 1                                                                                             | ers, Circi<br><b>6A1119.</b>                                                                                            | uit data<br>HB-40.                                                                    | . 132 pa<br>Each                                                                                           | ges.                                                                                       |                                                             |                                         |                                                     |                                               | \$2.50         |
| Zener                                                                                             | Diode H                                                                                                                 | andbool                                                                               | . Zener                                                                                                    | dunde AC                                                                                   | DC Audio                                                    | o. RF. C                                | ompute                                              | r. Instrun                                    | nentation      |
| No. 1                                                                                             | 6A1120.                                                                                                                 | HB-20.                                                                                | Each                                                                                                       | ons includ                                                                                 |                                                             |                                         |                                                     |                                               | \$3.00         |
| Solar                                                                                             | Cell and                                                                                                                | Photo                                                                                 | cell Hand                                                                                                  | lbook. 75<br>m and silic                                                                   | light ope                                                   | rated c<br>cells, 1                     | ircuits.<br>36 page                                 | Contains<br>es.                               | S2 00          |
|                                                                                                   |                                                                                                                         |                                                                                       | Each                                                                                                       |                                                                                            |                                                             |                                         |                                                     |                                               | \$2.00         |
|                                                                                                   |                                                                                                                         |                                                                                       |                                                                                                            |                                                                                            |                                                             | -                                       | DEC                                                 |                                               | OR             |
| 11                                                                                                | NTEG                                                                                                                    | RATI                                                                                  | ED CI                                                                                                      | RCUIT                                                                                      | VOLI                                                        | AGE                                     | REG                                                 | IULAI                                         | VIL            |
| Capab                                                                                             | le of pro                                                                                                               | viding                                                                                | a constar                                                                                                  | t output v                                                                                 | oltage for                                                  | varvina                                 | input                                               | volt-                                         |                |
| Capab<br>ages<br>tronic                                                                           | le of pro<br>and vary<br>compone                                                                                        | viding<br>ing out<br>ints in                                                          | a constar<br>put load<br>conjunctio                                                                        | t output v<br>currents.                                                                    | oltage for                                                  | varvina                                 | input                                               | volt-                                         | 3              |
| Capab<br>ages<br>tronic<br>amps                                                                   | le of pro<br>and vary<br>compone<br>can be c                                                                            | viding<br>ing out<br>nts in<br>delivere                                               | a constan<br>put load<br>conjunctio<br>d to a lo                                                           | t output v<br>currents.<br>on with the<br>ad.                                              | oltage for<br>By using<br>NJS 300,                          | varvina                                 | input                                               | volt-                                         |                |
| Capab<br>ages<br>tronic<br>amps<br>Input<br>Output                                                | le of pro<br>and vary<br>compone<br>can be o<br>voltage<br>t voltage                                                    | viding<br>ing out<br>nts in<br>felivere<br>range<br>range                             | a constar<br>put load<br>conjunctio<br>d to a lo<br>+ 8 to +<br>+ 2 to                                     | t output v<br>currents.<br>on with the<br>ad.<br>-30 volts.<br>+20 volts.                  | oltage for<br>By using<br>NJS 300,                          | varying<br>conver<br>current            | g input<br>itional<br>s of set                      | volt-<br>elec-<br>veral 1                     |                |
| Capab<br>ages<br>tronic<br>amps<br>Input<br>Output<br>Input-<br>Minim                             | le of pro<br>and vary<br>compone<br>can be o<br>voltage<br>t voltage<br>Output vo<br>um load                            | viding<br>ing out<br>nts in<br>felivere<br>range<br>range<br>oltage o<br>current      | a constar<br>put load<br>conjunctio<br>d to a lo<br>+ 8 to +<br>+ 2 to<br>differentia                      | t output v<br>currents.                                                                    | oltage for<br>By using<br>NJS 300,                          | varying<br>conver<br>current            | g input<br>itional<br>s of set                      | volt-<br>elec-<br>veral 1                     |                |
| Capab<br>ages<br>tronic<br>amps<br>Input<br>Output<br>Input-<br>Minim                             | le of pro<br>and vary<br>compone<br>can be o<br>voltage<br>t voltage<br>Output vo<br>um load                            | viding<br>ing out<br>nts in<br>felivere<br>range<br>range<br>oltage<br>current        | a constar<br>put load<br>conjunctio<br>d to a lo<br>+ 8 to +<br>+ 2 to<br>differentia<br>3 MA.             | t output v<br>currents.<br>on with the<br>add.<br>- 30 volts.<br>+ 20 volts.<br>II 3 volts | oltage for<br>By using<br>NJS 300,<br>minimum,              | varying<br>conver<br>current<br>20 vol1 | s input<br>itional<br>s of ser<br>s maxin           | volt-<br>elec-<br>veral 4<br>num.             | voltage.       |
| Capab<br>ages<br>tronic<br>amps<br>Input<br>Output<br>Input-<br>Minim<br>Load<br>Line r<br>8 lead | le of pro<br>and vary<br>compone<br>can be c<br>voltage<br>Output vo<br>um load<br>regulation<br>egulation<br>I TO-5 pa | viding<br>ing out<br>ints in<br>delivere<br>range<br>current<br>.5%.<br>.1%<br>ckage. | a constar<br>put load<br>conjunctio<br>d to a lo<br>+ 8 to +<br>+ 2 to<br>differentia<br>3 MA.<br>change o | t output v<br>currents.<br>on with the<br>ad.<br>-30 volts.<br>+20 volts.                  | oltage foi<br>By using<br>NJS 300,<br>minimum,<br>oltage pe | 20 volt                                 | s input<br>itional<br>s of sev<br>s maxin<br>change | volt-<br>elec-<br>veral 4<br>num.<br>of input |                |

### INTERNATIONAL RECTIFIER



Silicon controlled rectifiers combine many functions of transistors and conven-tional rectifiers and make it possible to construct simple circuits which will per-form things that could be only accomplished with complex circuitry and expensive components in the past. Each of the SCR devices listed below is supplied with a 24 page booklet detailing the theory and operation of an SCR as well as sche-matically describing many interesting and useful projects. Typical applications, light dimmers, speed controls, relay replacement, etc.

| No.         Voits         Current         Voits         MA         Type           SCR-01-C         50         3.5         1.5         15         2N1771           SCR-02-C         200         3.5         1.5         15         2N1771           SCR-03-C         50         9         2         40         2N685           SCR-04-C         200         9         2         40         2N685 | 1 \$2.20 \$1.98 \$1.58<br>4 3.20 2.88 2.30<br>3.20 2.88 2.30 |
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|

#### I. R. SCR EXPERIMENTER KIT

#### (2) IR2160 UNIJUNCTION TRANSISTOR

| Provides accurate timing and                     | triggering | for | Silicon | Controlled | Rectifier | circuits. |
|--------------------------------------------------|------------|-----|---------|------------|-----------|-----------|
| Rating 400 MW, 30 V. max.<br>I.R. No. 2160. Each | \$1.49     |     | 100-9   | 99 Each    |           | \$1.20    |

#### **1 WATT ZENER VOLTAGE REGULATORS** Ĩ

| 10  | 20                                         | tifier No. on your                                                                                                                                     |                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                  |
|-----|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                            | 7.1120.0                                                                                                                                               |                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                  |
| 8.2 | 25                                         | 7.1120.0                                                                                                                                               | 27                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                  |
|     |                                            |                                                                                                                                                        |                                                                                                                                                                                         | 9                                                                                                                                                                                                                                                                                                                                |
|     | 35                                         | Z-1116-C                                                                                                                                               |                                                                                                                                                                                         | 10                                                                                                                                                                                                                                                                                                                               |
| 4.7 | 40                                         | Z-1114-C                                                                                                                                               | 15                                                                                                                                                                                      | 13                                                                                                                                                                                                                                                                                                                               |
| 3.9 | 50                                         | Z-1112-C                                                                                                                                               | 12                                                                                                                                                                                      | 15                                                                                                                                                                                                                                                                                                                               |
|     | Current                                    | Int. Kect.<br>No.                                                                                                                                      | Voltage                                                                                                                                                                                 | Test<br>Current                                                                                                                                                                                                                                                                                                                  |
|     | Nom.<br>Iltage<br>3.9<br>4.7<br>5.6<br>6.8 | Nom.         Test           0ltage         Current           3.9         50           4.7         40           5.6         35           6.8         30 | No.         No.           3.9         50         Z-1112-C           4.7         40         Z-1114-C           5.6         35         Z-1116-C           6.8         30         Z-1118-C | Vom.         Test         Int.Rect.         Nom.           Itage         Current         No.         Voltage           3.9         50         Z-1112-C         12           4.7         40         Z-1114-C         15           5.6         35         Z-1116-C         18           6.8         30         Z-1118-C         22 |

#### ZENER DIODE KITS

An assortment of 5 popular 1-watt Zener diodes. With 24-page manual. \$1.95 Int. Rect. D0-170. Net Each. K-546. 12 assorted Zener diodes, ranging from 400 MW to 10 watts, and from 3 to 27 volts. With 24-page instruction and project manual. \$6.50 \$6.50 Int. Rect. K546. Net Each.

#### EXPERIMENTER PHOTOCELLS AND SUN BATTERIES

May be used for powering transistor radios, light meters, operating small motors from sunlight. B2MC is  $\frac{1}{2}\times\frac{3}{4}$  with mounting brackets. Others are  $\frac{1}{6}$  square molded case. All have leads, Each cell supplied with project book.

| Int. Rect.                                         |                                                                              |                                         | Outp                                                 | ut                                                                                                           |                                                        |
|----------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| No.<br>B2MC<br>B3MC<br>S1MC<br>S3MC<br>S4MC<br>S5M | Material<br>Selenium<br>Selenium<br>Silicon<br>Silicon<br>Silicon<br>Silicon | Fig.<br>(1)<br>(2)<br>(2)<br>(4)<br>(4) | Voltage<br>24<br>.24<br>.34<br>.685<br>.3-,4<br>.685 | MA.<br>2<br>1 <sup>1</sup> / <sub>2</sub> ·2 <sup>1</sup> / <sub>2</sub><br>10·16<br>10·16<br>25·40<br>18·25 | Each<br>\$1.50<br>1.75<br>2.25<br>3.95<br>3.95<br>4.95 |
| _                                                  |                                                                              |                                         |                                                      |                                                                                                              |                                                        |

#### **ZCADMIUM SULPHIDE PHOTO-CONDUCTIVE CELL**

Light-sensitive resistor for use in operating relays, count-Light-sensitive resistor for use in operating relays, coun-ing devices, door openers, turning on street lights, etc. Does not generate electricity. Enclosed in plastic case, Max applied volt, 20 Power dissipation, 4 watt. Dark resistance, 11 ohm, resistance, 10 FC illumination 7200 ohm; 100 FC illumination 800 ohm 1 3/16" square. \$2.35

International Rectifier CS120. Each



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Special Anti-Friction Bearing Type—Designed to op-erate directly from the power supplied by Solar Cells. Offers many fascinating experiments and science projects. Runs on .3 to 1.5 V. Recommended cell is S4M above. Int. Rect. EPSOC. S3.95

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#### Each MP100 METER PROTECTOR MAKES ALL MULTIMETERS BURNOUT PROOF

Simply install across meter terminals of sensitive meters up to 100 ua on VOM's, Wheatstone and Kelvin Bridge instruments. It also protects against test lead reversal. .\$1.98 Int. Rect. MP100. Net Each ...

# **RECTIFIERS, CLAIREX PHOTOCELLS**

| SAR                                                                                                                                                                                                                                                                                                      | KES TA                                                                                                | RZIAN                                                |                                                                                                                                                             | DGE                                                                                                                | RECT                                                                                                                                                                                | FIERS                                                                                                                                                             |                                                                                                                                                                                               |                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                          |                                                                                                       |                                                      |                                                                                                                                                             |                                                                                                                    | RECH                                                                                                                                                                                | <b>H</b>                                                                                                                                                          | •                                                                                                                                                                                             |                                                                                                         |
| 1                                                                                                                                                                                                                                                                                                        |                                                                                                       | 2                                                    | · ·                                                                                                                                                         |                                                                                                                    | 3                                                                                                                                                                                   | Y.                                                                                                                                                                |                                                                                                                                                                                               | CL500,<br>CL-600                                                                                        |
| Only %," squar<br>Amps, resistive                                                                                                                                                                                                                                                                        | inductive loa                                                                                         | ch. Insulat<br>ad, derate                            | ed case<br>20% for                                                                                                                                          | with so<br>capaciti                                                                                                | ider lug<br>ive load.                                                                                                                                                               | terminals.                                                                                                                                                        | Rated 2                                                                                                                                                                                       | Series                                                                                                  |
| Sarkes Tarzian<br>No.<br>S6230A<br>S6230A-1<br>S6230A-2<br>S6230A-3<br>S6230A-4                                                                                                                                                                                                                          | Voltage<br>PIV<br>200<br>400<br>600<br>800<br>1000                                                    | RATING<br>RMS<br>140<br>280<br>420<br>560<br>700     | 1-24<br>Each<br>\$1.47<br>1.77<br>2.11<br>2.54<br>3.47                                                                                                      | E:<br>\$1                                                                                                          | -99 1<br>ach<br>1.26<br>1.52<br>1.80<br>2.17<br>2.97                                                                                                                                | 00-499<br>Each<br>\$1.19<br>1.41<br>1.68<br>2.02<br>2.76                                                                                                          | 500 Up<br>Each<br>\$1.05<br>1.27<br>1.51<br>1.82<br>2.48                                                                                                                                      |                                                                                                         |
| 1 <sup>1</sup> ‰" diameter,<br>8-32 mounting s<br>Sarkes Tarzian                                                                                                                                                                                                                                         |                                                                                                       | FULL WAVE<br>mounting<br>5 Amps. fo                  |                                                                                                                                                             | N BRIOGE<br>Epoxy<br>ve-inducti                                                                                    | RECTIFII<br>case with<br>ve load.                                                                                                                                                   |                                                                                                                                                                   |                                                                                                                                                                                               |                                                                                                         |
| No.<br>S6121-1<br>S6121-3<br>S6121-5                                                                                                                                                                                                                                                                     | PIV<br>200<br>400<br>600                                                                              | RMS<br>140<br>280<br>420                             | Each<br>\$4.21<br>4.41<br>5.61                                                                                                                              | E:                                                                                                                 | -99 1<br>ach<br>3.60<br>3.78<br>1.81                                                                                                                                                | Each<br>\$3.35<br>3.51<br>4.47                                                                                                                                    | Each<br>\$3.01<br>3.16<br>4.02                                                                                                                                                                | 6                                                                                                       |
| Only .560" dia<br>Requires no hea<br>inductive load.                                                                                                                                                                                                                                                     | (12 AMP.                                                                                              | FULL WAY                                             | E SILICO                                                                                                                                                    | N BRIDG                                                                                                            | E RECTIFI                                                                                                                                                                           | ERS                                                                                                                                                               |                                                                                                                                                                                               |                                                                                                         |
| Sarkes Tarzian<br>No.<br>\$6240<br>\$6240-1<br>\$6240-2                                                                                                                                                                                                                                                  | Voltage<br>PIV<br>200<br>400<br>600                                                                   | Rating<br>RMS<br>140<br>280<br>420                   | 1-24<br>Each<br>\$3.76<br>5.15<br>6.93                                                                                                                      | Ei<br>\$3                                                                                                          | -99 1<br>ach<br>3,22<br>1,40<br>5,93                                                                                                                                                | 00-499<br>Each<br>\$3.00<br>4.00<br>5.40                                                                                                                          | 500 Up<br>Each<br>\$2.70<br>3.60<br>4.86                                                                                                                                                      | c                                                                                                       |
| S6240-3<br>S6240-4                                                                                                                                                                                                                                                                                       | 800<br>1000                                                                                           | 560<br>700                                           | 9.35<br>12.00                                                                                                                                               | 10                                                                                                                 | .85<br>).10                                                                                                                                                                         | 7.30<br>9.63                                                                                                                                                      | 6,60<br>8.65                                                                                                                                                                                  | S                                                                                                       |
|                                                                                                                                                                                                                                                                                                          | SARKE                                                                                                 |                                                      | 0                                                                                                                                                           | 4                                                                                                                  |                                                                                                                                                                                     |                                                                                                                                                                   |                                                                                                                                                                                               |                                                                                                         |
| Oimensions: Fig<br>Fig. 3 Body .12<br>¼-28 stud x 1.4<br>Pcathode con                                                                                                                                                                                                                                    | . 1 overall<br>5" dia. x .34<br>135" overall<br>nected to stu                                         | 3/6″ dia. 1<br>12″ L.; Fig<br>length; Fi<br>id. N—an | < 1" L.;<br>g. 4 10-3<br>g. 6 ¾-1<br>ode conn                                                                                                               | Fig. 2 E<br>2 Stud x<br>6 Stud x<br>lected to                                                                      | stud.                                                                                                                                                                               |                                                                                                                                                                   |                                                                                                                                                                                               |                                                                                                         |
| Sarkes Tarzian<br>No.                                                                                                                                                                                                                                                                                    | Jedec<br>No.                                                                                          | Fig.                                                 | PIV                                                                                                                                                         | Current<br>Amps.                                                                                                   | 1-24<br>Each                                                                                                                                                                        | 25-99<br>Each                                                                                                                                                     | 100 Up<br>Each                                                                                                                                                                                |                                                                                                         |
| M500/40M<br>60M<br>F2<br>F4<br>F6<br>F6<br>G2<br>G4<br>G8<br>G8<br>G8<br>G8<br>G10<br>20H3P<br>20H3P<br>20H3N<br>40H3P                                                                                                                                                                                   | 1N1084<br>1N2069<br>1N2070<br>1N2071<br>1N1344<br>1N1344R<br>1N1346                                   |                                                      | 400<br>600<br>200<br>400<br>600<br>800<br>200<br>400<br>600<br>800<br>1000<br>200<br>200<br>400                                                             | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>6<br>6                                                                          | \$0.75<br>.85<br>.33<br>.35<br>.52<br>.37<br>.43<br>.43<br>.62<br>.95<br>1.20<br>1.20<br>1.50                                                                                       | \$0.63<br>.70<br>.29<br>.30<br>.32<br>.44<br>.32<br>.37<br>.40<br>.53<br>.82<br>1.03<br>1.03<br>1.29                                                              | \$0.59<br>.66<br>.27<br>.28<br>.29<br>.35<br>.37<br>.37<br>.37<br>.76<br>.96<br>1.20                                                                                                          | CL-900<br>Series                                                                                        |
| 40H3N<br>60H3P<br>60H3P<br>51220P<br>51220P<br>51220N<br>51240P<br>51260P<br>51260N<br>513A20N<br>513A20P<br>513A20P<br>513A20P<br>513A20P<br>513A20P<br>513A60P<br>513A60P<br>513A60N<br>513A60N<br>513A60N<br>513A60N<br>513A60N<br>51710P<br>51720P<br>51740N<br>51740N<br>51740N<br>51740N<br>51740N | 1 N1346R<br>1 N1348<br>1 N1348R<br>1 N1202<br>1 N1202R<br>1 N1204R<br>1 N1204R<br>1 N1206<br>1 N1206R |                                                      | 400<br>600<br>200<br>200<br>400<br>600<br>600<br>100<br>100<br>200<br>400<br>400<br>400<br>600<br>100<br>200<br>200<br>200<br>200<br>200<br>200<br>400<br>4 | 6<br>6<br>12<br>12<br>12<br>12<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>160<br>160<br>160<br>160<br>160<br>250 | 1.50<br>2.12<br>1.25<br>1.67<br>1.67<br>1.67<br>2.34<br>2.34<br>2.34<br>2.34<br>2.34<br>2.14<br>3.16<br>3.16<br>3.80<br>12.90<br>12.90<br>12.90<br>14.50<br>20.80<br>20.80<br>14.20 | 1.29<br>1.82<br>1.82<br>1.07<br>1.07<br>1.43<br>2.00<br>2.00<br>2.00<br>2.33<br>1.33<br>1.83<br>2.70<br>3.28<br>1.09<br>12.50<br>12.50<br>17.80<br>12.50<br>17.80 | 1.20<br>1.69<br>1.69<br>1.00<br>1.33<br>1.33<br>1.86<br>1.86<br>1.86<br>1.84<br>1.24<br>1.70<br>2.52<br>3.06<br>10.32<br>10.32<br>10.32<br>11.58<br>11.58<br>11.58<br>11.58<br>16.60<br>11.36 | Klip-Sels<br>load volt<br>KSA have<br>All Klip-S<br>I.R.<br>No.<br>KY1DPF<br>KY20PF<br>KY20PF<br>KY50PF |
| ST910N<br>ST920P<br>ST920N<br>ST940P                                                                                                                                                                                                                                                                     |                                                                                                       | 0                                                    | 100<br>200<br>200<br>400                                                                                                                                    | 250<br>250<br>250<br>250                                                                                           | 14.20<br>15.80<br>15.80<br>24.40                                                                                                                                                    | 12.19<br>13.50<br>13.50<br>20.95                                                                                                                                  | 11.36<br>12.60<br>12.60<br>19.52                                                                                                                                                              | KY100PF<br>KZ10PF<br>KZ20PF<br>KZ50PF                                                                   |

#### **RECTIFIER MOUNTING HARDWARE**

| No. 128843. Single Clip-In Mounting for M500 and 60M, Each12c    |
|------------------------------------------------------------------|
| No. 12A2457. Oual Clip-In Mounting for M500 and 60M. Each25c     |
| Complete set for DO-4 Rectifier includes 2 mica washers, 1 brass |
| washer, 1 teflon washer, 1 solder lug, 1 10-32 lock nut.         |
| No. 12A2402. Mallory H0-04. Each                                 |
| Complete set for DO-5 Rectifier. Includes one each mica washer.  |
| brass washer, teflon washer, solder lug, 1/4-28 lock nut.        |
| No. 12A2403. Mallory HD-05. Each                                 |

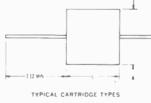


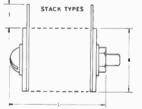
#### CLAIREX PHOTOCONDUCTIVE CELLS

Resistance tolerance at 2 ft. C  $\pm$  331/3%. Temp. range —50° to + 75° C. CL5M Series. Maximum power air 3/2 watt, heat sink 2 watts .550″ dia. x .184″ high.

| 1.1              | dia, x .                                                                                                                   | 184″ nign                                                                                                           |                                                                                                                                         |                                                                                            |                                                                                         |                                                                                      |                                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| CL500,           | Clairex<br>No.                                                                                                             | Sensitive<br>Material                                                                                               | Peak Spectral<br>Response<br>(Angstroms)                                                                                                | Resistance<br>@ 2 Ft. C<br>(Ohms)                                                          | Max.<br>Voltage<br>Peak AC                                                              | 1-99<br>Each                                                                         | 100-<br>499<br>Each                                                                          |
| CL-600<br>Series | CL5M3<br>CL5M4<br>CL5M7                                                                                                    | CdS<br>CdS<br>CdS                                                                                                   | 7350<br>6900<br>6150                                                                                                                    | 7.2K<br>1.5K<br>7.2K                                                                       | ******                                                                                  | 1.50<br>1.50<br>1.50                                                                 | 1.25<br>1.25<br>1.15                                                                         |
|                  |                                                                                                                            | eries. Ma<br>a. x .500″                                                                                             | ximum power:<br>H.                                                                                                                      | air ¼ wa                                                                                   | tt, heat                                                                                | sink ½                                                                               | watt.                                                                                        |
|                  | CL503<br>CL504<br>CL504L<br>CL505<br>CL505L                                                                                | CdSe<br>CdSe<br>CdSe<br>CdS<br>CdS<br>CdS                                                                           | 7350<br>6900<br>6900<br>5500<br>5500                                                                                                    | 7.2K<br>1.5K<br>.25K<br>9K<br>1.5K                                                         | 250<br>250<br>170<br>250<br>170                                                         | \$1.50<br>1.50<br>1.50<br>1.50<br>1.50                                               | \$1.25<br>1.25<br>1.25<br>1.15<br>1.15                                                       |
| 1                | CL700 S                                                                                                                    | eries. Ma                                                                                                           | ximum power                                                                                                                             | 125 MW (                                                                                   | 25° C                                                                                   | 360″                                                                                 | dia. x                                                                                       |
| CL5M             | CL703<br>CL703A<br>CL703M<br>CL703L<br>CL704<br>CL704<br>CL704M<br>CL704L<br>CL705<br>CL705L<br>CL705HL<br>CL707<br>CL707L | CdSe<br>CdSe<br>CdSe<br>CdSe<br>CdSe<br>CdSe<br>CdSe<br>CdS<br>CdS<br>CdS<br>CdS<br>CdS<br>CdS<br>CdS<br>CdS<br>CdS | 7350<br>7350<br>7350<br>6900<br>6900<br>6900<br>5500<br>5500<br>5500<br>6150<br>6150                                                    | 133K<br>67K<br>30K<br>2.7K<br>30K<br>7K<br>.6K<br>166K<br>3.3K<br>28K<br>133K<br>2.7K      | 300<br>300<br>250<br>170<br>300<br>250<br>170<br>300<br>170<br>170<br>170<br>170        | 1.50<br>1.50<br>1.50<br>1.50<br>1.50<br>1.50<br>2.00<br>1.50<br>1.50<br>1.50<br>1.50 | 1.25<br>1.25<br>1.25<br>1.25<br>1.25<br>1.25<br>1.25<br>1.55<br>1.5                          |
| CL-700<br>Series | CL707HL<br>CL600 S                                                                                                         | CdS<br>eries. Ma                                                                                                    | 6200<br>ximum power                                                                                                                     | 10K<br>75 MW (a                                                                            | 170<br>25° с.                                                                           | 1.50<br>.245″                                                                        | 1.35<br>dia. x                                                                               |
|                  | CL602<br>CL603<br>CL603A<br>CL603A<br>CL604<br>CL604<br>CL604<br>CL604<br>CL605<br>CL605<br>CL605L<br>CL607                | CdSe<br>CdSe<br>CdSe<br>CdSe<br>CdSe<br>CdSe<br>CdS<br>CdS<br>CdS                                                   | 5150<br>7350<br>7350<br>6900<br>6900<br>5500<br>5500<br>6150                                                                            | 1 Meg<br>133K<br>75K<br>3.5K<br>30K<br>1.5K<br>166K<br>7.5K<br>133K                        | 300<br>300<br>300<br>170<br>300<br>170<br>300<br>170<br>300                             | 1.50<br>1.75<br>1.75<br>1.75<br>1.75<br>1.75<br>1.75<br>1.50<br>1.50<br>1.50         | 1.15<br>1.50<br>1.50<br>1.50<br>1.50<br>1.50<br>1.15<br>1.15                                 |
|                  | CL900 S                                                                                                                    | eries. Ma                                                                                                           | ximum power                                                                                                                             | 50 MW @                                                                                    | 25° C.                                                                                  | .210″                                                                                | dia. x                                                                                       |
| CL-900<br>Series | CL903<br>CL903A<br>CL903A<br>CL903L<br>CL904<br>CL904<br>CL904L<br>CL905L<br>CL905L<br>CL905HN<br>CL905HN<br>CL907HL       | CdSe<br>CdSe<br>CdSe<br>CdSe<br>CdSe<br>CdSe<br>CdS<br>CdS<br>CdS<br>CdS<br>CdS<br>CdS<br>CdS<br>CdS<br>CdS<br>CdS  | $\begin{array}{c} 7350\\ 7350\\ 7350\\ 7350\\ 6900\\ 6900\\ 5500\\ 5500\\ 5500\\ 5500\\ 5500\\ 6150\\ 6150\\ 6150\\ 6200\\ \end{array}$ | 133K<br>67K<br>66K<br>30K<br>15K<br>2K<br>166K<br>10K<br>700K<br>100K<br>133K<br>6K<br>24K | 250<br>250<br>100<br>250<br>100<br>250<br>100<br>100<br>100<br>100<br>100<br>100<br>100 | 1.50<br>1.50<br>1.50<br>1.50<br>1.50<br>1.50<br>1.50<br>1.50                         | 1.25<br>1.25<br>1.25<br>1.25<br>1.25<br>1.25<br>1.25<br>1.15<br>1.35<br>1.35<br>1.15<br>1.35 |
|                  |                                                                                                                            |                                                                                                                     | rex Technical I<br>sk for Stock N                                                                                                       |                                                                                            |                                                                                         |                                                                                      |                                                                                              |

#### NTERNATIONAL RECTIFIER SELENIUM KLIP-SELS





Klip-Sels apply transient suppression to protect semi-conductor devices from overload voltage peaks. Klip-Sels increase reliability without affecting circuit operation. KSA have 8-32 Stud, KSL have 14-20 Stud, All Klip-Sels shown are Non-Polarized, Polarized Klip-Sels available on special order.

#### CARTRIDGE

|                                                                                                   |                                                                |                                                                  | - Ur                                                            | IN I NIDA                                                                                                | 36                                                                 |                                               |                                                                           |                                                                        |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|
| t.R.<br>No.                                                                                       | RMS<br>Volts                                                   | Typical<br>Clamp V.                                              | Amps<br>at Clamp<br>Volts                                       | Dimen                                                                                                    | sions —                                                            | - Inches<br>T                                 | 1-99<br>Each                                                              | 100-999<br>Each                                                        |
| KY1DPF<br>KY20PF<br>KY50PF<br>KY100PF<br>KZ10PF<br>KZ20PF<br>KZ20PF<br>KZ50PF<br>KZ50PF<br>KZ50PF | 26<br>52<br>130<br>156<br>260<br>26<br>52<br>130<br>156<br>260 | 67<br>133<br>333<br>400<br>666<br>67<br>133<br>333<br>400<br>666 | 0.25<br>0.25<br>0.25<br>0.25<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0 | .57 Dia.<br>.57 Dia.<br>.57 Dia.<br>.57 Dia.<br>.57 Oia.<br>.70 Dia.<br>.70 Dia.<br>.70 Dia.<br>.70 Dia. | .63<br>.63<br>.88<br>.88<br>.63<br>.63<br>.63<br>.63<br>.88<br>.88 | ****                                          | \$0.59<br>.65<br>.83<br>.89<br>1.13<br>.66<br>.77<br>1.10<br>1.21<br>1.65 | \$0.45<br>.49<br>.63<br>.67<br>.85<br>.49<br>.57<br>.81<br>.89<br>1.21 |
|                                                                                                   |                                                                |                                                                  | STA                                                             | CK TY                                                                                                    | PES                                                                |                                               |                                                                           |                                                                        |
| KSA10AF<br>KSA20AF<br>KSA50AF<br>KSA608F<br>KSA100BF<br>KSL10AF<br>KSL60BF<br>KSL10DBF            | 26<br>52<br>130<br>156<br>260<br>26<br>156<br>260              | 67<br>133<br>333<br>400<br>666<br>67<br>400<br>666               | 3.0<br>3.0<br>3.0<br>3.0<br>15.0<br>15.0<br>15.0                | 1" sq.<br>1" sq.<br>1" sq.<br>1" sq.<br>1" sq.<br>2" sq.<br>2" sq.<br>2" sq.<br>2" sq.                   | 1.37<br>1.50<br>1.87<br>2.00<br>2.46<br>1.62<br>2.37<br>2.96       | .47<br>.47<br>.47<br>.47<br>.69<br>.69<br>.69 | 1.35<br>1.55<br>2.15<br>2.35<br>3.15<br>2.50<br>8.00<br>12,40             | 1.01<br>1.16<br>1.61<br>1.76<br>2.36<br>1.88<br>6.03<br>9.35           |

## INTERNATIONAL RECTIFIER SEMICONDUCTORS

I. R. Zener Voltage Regulators 21100 through 21120 .38" 'dia, x .250" L. Top Hat style, 21122 through 21134 .22" dia, x .345" L. 21300 Series 10-32 stud x 1.6" overall length. Cathode con-nected to stud through 21320, anode connected to stud 21322 and higher. 10% tolerance.

| sinn ritt                                                              | z anu ingi | CI. 10 /0 (( | nerance. |          | •       | 1 2       | $\mathbf{v}$ |  |  |  |
|------------------------------------------------------------------------|------------|--------------|----------|----------|---------|-----------|--------------|--|--|--|
| Order By International Rectifier Number () 1 WATT SIZE () 10 WATT SIZE |            |              |          |          |         |           |              |  |  |  |
| I.R. No.                                                               | Volts      | I.R. No.     | Volts    | I.R. No. | Volts   | I.R. No.  | Volts        |  |  |  |
| Z1100                                                                  | 3.9        | Z1118        | 22       | Z1304    | 5.6 1   | Z1322     | 33           |  |  |  |
| Z1 102                                                                 | 4.7        | Z1120        | 27       | Z1306    | 6.8     | Z1324     | 34           |  |  |  |
| Z1104                                                                  | 5.6        | Z1122        | 33       | Z1308    | 8.2     | Z1326     | 47           |  |  |  |
| Z1106                                                                  | 6.8        | Z1124        | 39       | Z1310    | 10      | Z1328     | 56           |  |  |  |
| Z1108                                                                  | 8.2        | Z1126        | 47       | Z1312    | 12      | Z1330     | 68           |  |  |  |
| Z1110                                                                  | 10         | Z1128        | 56       | Z1314    | 15      | Z1332     | 68<br>82     |  |  |  |
| 21112                                                                  | 12         | Z1130        | 68       | Z1316    | 18      | Z1334     | 100          |  |  |  |
| Z1114                                                                  | 15         | Z1132        | 82       | Z1320    | 27      | Z1336     | 120          |  |  |  |
| Z1116                                                                  | 18         | Z1134        | 100      |          |         |           |              |  |  |  |
| Your                                                                   | 1-9 Ea.    |              | 100-999  | Your     | 1-9 Ea. | 10-99 Ea. | 100-999      |  |  |  |
| Choice                                                                 | \$0.85     | \$0.74       | \$0.67   | Choice   | \$2.05  | \$1.85    | \$1.48       |  |  |  |

5

**1 WATT SILICON ZENER DIODES** 

Moisture resistant thermosetting polymer. .107" max. dia. x .205" L. Cathode end marked by color band. Available in 10% tolerance (No suffix) and 5% tolerance ("A"

| suffix).             | (110 501117)                                   |                           | torerance (                            | <b>^</b>             |                                                |                           |                                        |
|----------------------|------------------------------------------------|---------------------------|----------------------------------------|----------------------|------------------------------------------------|---------------------------|----------------------------------------|
| Int.<br>Rect.<br>No. | Nominal<br>Zener<br>Voltage<br>Vz@lzt<br>Volts | Test<br>Current<br>Izt mA | Max Zener<br>imped.<br>Zzt@izt<br>Ohms | Int.<br>Rect.<br>No. | Nominal<br>Zener<br>Voltage<br>Vz@lzt<br>Velts | Test<br>Current<br>Izt mA | Max Zener<br>Imped.<br>Zzt@lzt<br>Ohms |
| 1N4728               | 3.3                                            | 76                        | 10                                     | 1N4746               | 18                                             | 14                        | 20                                     |
| 1N4729               | 3.6                                            | 69                        | 10                                     | 1N4747               | 20                                             | 12.5                      | 22                                     |
| 1N4730               | 3.9                                            | 64                        | 9                                      | 1N4748               | 22                                             | 11.5                      | 23                                     |
| 1N4731               | 4.3                                            | 58                        | 9                                      | 1N4749               | 24                                             | 10.5                      | 25                                     |
| 1N4732               | 4.7                                            | 53                        | Ř                                      | 1N4750               | 27                                             | 9.5                       | 35                                     |
| 1N4733               | 5.1                                            | 49                        | 9<br>8<br>7                            | 1N4751               | 30                                             | 8.5                       | 40                                     |
| 1N4734               | 5.6                                            | 45                        |                                        | 1N4752               | 33                                             | 7.5                       | 45                                     |
| 1N4735               | 6.2                                            | 41                        | 5                                      | 1N4753               | 36                                             | 7.0                       | 50                                     |
| 1N4736               | 6.8                                            | 37                        | 3.5                                    | 1N4754               | 39                                             | 6.5                       | 60                                     |
| 1N4737               | 7.5                                            | 34                        | 4.0                                    | 1N4755               | 43                                             | 6.0                       | 70                                     |
| 1N4738               | 8.2                                            | 31                        | 4.5                                    | 1N4756               | 47                                             | 5.5                       | 80                                     |
| 1N4739               | 9.1                                            | 28                        | 5.0                                    | 1N4757               | 51                                             | 5.0                       | 95                                     |
| 1N4740               | 10                                             | 25                        | 7                                      | 1N4758               | 56                                             | 4.5                       | 110                                    |
| 1N4741               | 11                                             | 23                        | Ŕ                                      | 1N4759               | 62                                             | 4.0                       | 125                                    |
| 1N4742               | 12                                             | 21                        | 8                                      | 1N4760               | 68                                             | 3.7                       | 150                                    |
| 1N4743               | 13                                             | 19                        | 10                                     | 1N4761               | 75                                             | 3.3                       | 175                                    |
| 1N4744               | 15                                             | 17                        | 14                                     | 1N4762               | 82                                             | 3.0                       | 200                                    |
| 1N4745               | 15                                             | 15.5                      | 16                                     | 1N4763               | 91                                             | 2.8                       | 250                                    |
| 1114743              | 10                                             | 15.5                      | 10                                     | 1N4764               | 100                                            | 2.5                       | 350                                    |

10% Tolerance (No suffix) 1N4728 Thru IN4764. Choice Each 1-99....\$1.25 Asst. Each 100.....\$1.05 5% Tolerance ("A suffix") IN4728A Thru IN4764A. Choice Each 1-99.....\$1.90 Asst. Each 100.....\$1.60

### INTERNATIONAL RECTIFIER

LOW COST 2 AMP SCR's Plastic case. Mtg. tab Internally connected to cathode. 1.2" long x .38" wide overall including leads. Mtg. tab

| Int. Rect. | Reverse     | Gate Firing Ro  | equirements    | Pri            | Ces    |
|------------|-------------|-----------------|----------------|----------------|--------|
| No.        | Voltage     | Volts           | MA             | 1-99           | 100 up |
| IR106Y     | 30          | 1               | -5             | \$0,94         | \$0.63 |
| R106F      | 50          | 1               | .5             | 1.10           | .73    |
| R106A      | 100         | 1               | .5             | 1,18           | .79    |
| IR106B     | 200         | ī               | .5             | 1.34           | .89    |
| R106C      | 300         | 1               | .5             | 1.70           | 1,15   |
| -          | INTERN      | ATIONAL         |                | de.            | ,246   |
|            |             | ER SCR's        |                | and the second |        |
| 3 amp and  |             | 0-32 stud, .69" |                | A14444444444   |        |
|            | mp and 16 a | np have 1/4-28  |                | amon Ale       |        |
| No.        | Rating      | Voltage Gate    | Firing Require | ments          | Prices |

| Amp | Reverse                                                                                     | Volts                                                                                                                                                                                                                                                                                                                                                                                                                  | MA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1-99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100 up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| 3   | 50                                                                                          | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                    | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | \$3.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | \$2.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3   |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                        | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|     | Amp<br>3<br>3<br>3<br>5<br>5<br>5<br>5<br>5<br>10<br>10<br>10<br>10<br>10<br>10<br>16<br>16 | Amp         Reverse           3         50           3         100           3         200           3         400           5         50           5         100           5         200           5         400           5         200           10         50           10         100           10         200           10         400           16         50           16         100           16         400 | Amp         Reverse         Volts           3         50         3.0           3         100         3.0           3         200         3.0           3         200         3.0           3         200         3.0           5         50         3.0           5         50         3.0           5         200         3.0           5         200         3.0           5         200         3.0           10         50         3.0           10         100         3.0           10         200         3.0           10         200         3.0           10         400         3.0           16         50         3.0           16         100         3.0           16         400         3.0 | Amp         Reverse         Volts         MA           3         50         3.0         30           3         100         3.0         30           3         200         3.0         30           3         200         3.0         30           3         200         3.0         30           5         50         3.0         30           5         100         3.0         30           5         200         3.0         30           5         200         3.0         30           5         400         3.0         90           10         100         3.0         90           10         200         3.0         90           10         400         3.0         90           16         50         3.0         90           16         100         3.0         90           16         200         3.0         90           16         400         3.0         90 | Amp         Reverse         Voits         MA         1-99           3         50         3.0         30         \$3.68           3         100         3.0         30         \$4.94           3         200         3.0         30         \$5.32           3         400         3.0         30         \$7.00           5         50         3.0         30         \$7.00           5         500         3.0         30         \$7.00           5         200         3.0         30         \$5.20           5         200         3.0         30         \$5.20           5         400         3.0         30         \$5.20           10         100         3.0         90         \$6.19           10         100         3.0         90         \$6.19           10         400         3.0         90         \$6.19           10         400         3.0         90         \$6.19           10         400         3.0         90         \$6.19           10         400         3.0         90         \$6.19           16         100         3.0 |

### CENTRALAB SOLAR BATTERY Powers any 9 volt transistor radio FROM SUNLIGHT

Works just like solar panels that power most U.S. sateliltes. Only 33/a x 24/2 x 1/4" thick, yet converts required amount of sunlight into electric current for operat-ing 9 volt transistor radios. Simple to connect with 84/2" leads and battery snap-on connector included ... no wiring changes necessary. Comes complete with mounting adaptor for attaching to back or top of radio. Shpg. wt. 4 oz. \$7.99 No. 20A1194. Special Each......

### HHHH 12A2249 HE-103 1.4" .440/.544

100 Per Type Each ......93c

100 Per Type Each ..... \$1.40





1.8 AMP SILICON BRIDGE RECTIFIER ASSEMBLIES Single-phase miniature bridge rectifier assemblies. Hermetically sealed and com-pletely insulated. Size .56"x.56"x.22".

| I.R.<br>Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 10C1<br>10C2<br>10C4<br>10C6<br>10C8<br>10C10<br>INTER<br>Hermetical<br>70 AMP 1/4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| IDC1<br>IDC2<br>IDC4<br>IDC6<br>IDC6<br>IDC6<br>IDC6<br>IDC6<br>IDC7<br>INTER<br>Hermetical<br>70 AMP <sup>1</sup> / <sub>4</sub><br>Standard F<br>Reverse P(<br>IR<br>Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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44<br>-28 Stud x 1<br>rolarity-catho<br>blarity-catho<br>blarity-catho<br>blarity-anode<br>Numbers<br>Reverse<br>Polarity<br>40HF10R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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200<br>400<br>600<br>800<br>SILICO<br>SILICO<br>Sverall.                                                                                                                                                                  | 95<br>1,10<br>1,40<br>2,15<br>2,85<br>N RECT<br>1-99<br>Each<br>\$1,15<br>1,45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| IDC1<br>IDC2<br>IDC4<br>IDC6<br>IDC6<br>IDC0<br>INTER<br>Hermetical<br>70 AMP 3/4<br>Standard P<br>Reverse PC<br>IR<br>Standard<br>Polarity<br>40HF5<br>40HF10<br>40HF20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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44<br>-28 Stud x 1<br>tolarity-catho<br>Jarity-anode<br>Numbers<br>Reverse<br>Polarity<br>40HF5R<br>40HF10R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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\$0.29<br>.32<br>.38<br>.46<br>.85<br>1.20<br>CTIF<br>Stud x<br>d to Stud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| IOC1<br>IOC2<br>IOC4<br>IOC6<br>IOC8<br>IOC10<br>INTER<br>Hermetical<br>ZoAMP <sup>1</sup> / <sub>4</sub><br>Standard P<br>Polarity<br>AOHF5<br>40HF10<br>40HF50<br>40HF40<br>40HF60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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44<br>-28 Stud x 1<br>volarity-catho<br>olarity-catho<br>larity-anode<br>Numbers<br>Reverse<br>Polarity<br>40HF58<br>40HF40R<br>40HF40R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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     | 200<br>400<br>600<br>800<br>5ILICO<br>overall.<br>Current<br>AMPS<br>40<br>40<br>40                                                                                                                                       | 95<br>1,10<br>1,40<br>2,15<br><b>N RECT</b><br>1-99<br>Each<br>\$1,15<br>1,45<br>2,00<br>3,05<br>4,55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| IOC1<br>IOC2<br>IOC4<br>IOC6<br>IOC8<br>IOC8<br>IOC10<br>INTER<br>Hermetical<br>70 AMP ½<br>Standard F<br>Reverse Pr<br>IR<br>Standard<br>Polarity<br>40HF10<br>40HF40<br>40HF40<br>40HF40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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44<br>-28 Stud x 1<br>olarity-cathol<br>Numbers<br>Reverse<br>Polarity<br>40HF10R<br>40HF10R<br>40HF10R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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     | 200<br>400<br>600<br>800<br>51LICD<br>overall.<br>Current<br>AMPS<br>40<br>40                                                                                                                                             | 95<br>1,10<br>1,40<br>2,15<br>2,85<br>N RECT<br>1-99<br>Each<br>\$1,15<br>1,45<br>2,00<br>3,05<br>4,55<br>9,90<br>3,35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 0C1<br>0C2<br>0C4<br>0C6<br>0C0<br>0C10<br>INTER<br>Hermetical<br>70 AMP <sup>3</sup> / <sub>4</sub><br>Standard F<br>Standard 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          | 200<br>400<br>600<br>800<br>51LICO<br>overall.<br>Current<br>AMPS<br>40<br>40<br>40<br>40<br>40<br>40<br>70<br>70                                                                                                         | 95<br>1,10<br>1,40<br>2,15<br>2,85<br>N RECT<br>1.99<br>Each<br>\$1,15<br>1,45<br>2,00<br>3,05<br>4,55<br>9,90<br>3,35<br>4,80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| \$0.32<br>.35<br>.42<br>.52<br>.75<br>1.70<br>NAL RE<br>0 AMP ¼-28<br>.37" overall.<br>do connected<br>0 200<br>200<br>200<br>200<br>200<br>0 000<br>200<br>0 000<br>200<br>0 000<br>8 1000<br>200<br>0 000<br>200<br>0 000<br>8 1000<br>200<br>0 000<br>8 1000<br>1000<br>200<br>0 000<br>8 1000<br>1000<br>1000<br>1000<br>1000<br>1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                                                                                                                                                                                                                                     | 200<br>400<br>600<br>800<br><b>NATIOI</b><br>VATIOI<br>VSealed. 44<br>-28 Stud x 1<br>olarity-cathe<br>Numbers<br>Reverse<br>Polarity<br>40HF58<br>40HF10R<br>40HF40R<br>40HF600<br>70H10AR<br>70H40AR<br>70H40AR<br>70H60AR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | \$0.32<br>.35<br>.42<br>.52<br>.75<br>1.70<br>NAL RE<br>0 AMP ¼-28<br>.37" overall.<br>.37" overall.<br>.30" overall. | \$0.29<br>.32<br>.38<br>.46<br>.46<br>.5<br>.1.20<br>CTIF<br>Stud x<br>d to Stud<br>to Stud<br>to Stud<br>to Stud<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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     | 200<br>400<br>600<br>800<br><b>SILICO</b><br>overall.                                                                                                                                                                     | 95<br>1,10<br>1,40<br>2,15<br>2,85<br>N RECT<br>1-99<br>Each<br>\$1,15<br>1,45<br>2,00<br>3,05<br>4,55<br>9,90<br>3,35<br>4,80<br>6,95<br>8,70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| IOC1           IOC2           IOC4           IOC6           IOC10           INTER           Reverse Prese P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 200<br>400<br>600<br>800<br><b>NATIOI</b><br>Iy Sealed. 44<br>-28 Stud x 1<br>tolarity-catho<br>Numbers<br>Reverse<br>Polarity<br>40HF50R<br>40HF40R<br>40HF40R<br>40HF40R<br>40HF40R<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR    | \$0.32<br>.35<br>.42<br>.52<br>.75<br>1.70<br>NAL RE<br>0 AMP 1/4-28<br>.37" overall.<br>.37" overall.<br>.37" overall.<br>.37" overall.<br>0 AMP 1/4-28<br>.00<br>0 br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | \$0.29<br>.32<br>.38<br>.46<br>.65<br>.120<br>CTIF<br>Stud x<br>d to Stud<br>to Stud<br>Stud<br>to Stud<br>to Stud<br>to Stud<br>to Stud     | 20C1<br>20C2<br>20C4<br>20C6<br>20C4<br>20C6<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C9<br>20C8<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9 | 200<br>400<br>600<br>800<br>51LICO<br>overall.<br>Current<br>AMPS<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>8<br>Blocking                                              | 95<br>1,10<br>1,40<br>2,15<br>N RECT<br>1.99<br>Each<br>\$1,15<br>1,45<br>2,00<br>3,05<br>4,55<br>9,90<br>3,35<br>4,80<br>6,95<br>8,70<br>TIR<br>Pri                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .60<br>.93<br>1.19<br>2.25<br>IFIER<br>C<br>100-95<br>Each<br>\$0.80<br>1.44<br>2.20<br>3.30<br>7.20<br>2.55<br>3.53<br>5.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1001<br>10024<br>10024<br>10026<br>10028<br>10020<br>10028<br>100210<br>INTER<br>Hermetical<br>70 AMP <sup>3</sup> / <sub>4</sub><br>Standard P<br>Palarity<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF50<br>40HF5                                                                                                                                                                                                                                                                                                                                                                              | 200<br>400<br>600<br>800<br><b>NATIOI</b><br>y Sealed. 41<br>-28 Stud x 1<br>bolarity-catho<br>Numbers<br>Reverse<br>Polarity<br>40HF50R<br>40HF50R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R     | \$0.32<br>.35<br>.42<br>.52<br>.75<br>1.70<br>NAL RE<br>0 AMP ¼-28<br>.37" overall.<br>0 de connected<br>0 de co                            | \$0.29<br>.32<br>.38<br>.46<br>.46<br>.51.20<br>CTIF<br>Stud x<br>d to Stud<br>to     | 20C1<br>20C2<br>20C4<br>20C6<br>20C4<br>20C6<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C9<br>20C8<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9 | 200<br>400<br>600<br>800<br>1000<br>SILICO<br>overall.<br>Current<br>AMPS<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70 | 95<br>1,10<br>1,40<br>2,15<br>N RECT<br>1.99<br>Each<br>\$1,15<br>1.45<br>2,65<br>9,90<br>3,05<br>4,55<br>9,90<br>3,35<br>4,80<br>6,95<br>8,70<br>1.99<br>Print<br>1.99<br>\$1,10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .60<br>.93<br>.1.19<br>1.83<br>2.25<br>IFIER:<br>2.25<br>IFIER:<br>2.25<br>100-99<br>Each<br>\$0.60<br>1.05<br>1.44<br>2.20<br>3.33<br>7.20<br>2.55<br>3.55<br>3.55<br>3.55<br>3.55<br>3.55<br>3.55<br>3.55                                                                                                                                                                                                                                                                                 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| Image: Constraint of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200<br>400<br>600<br>800<br><b>NATIOI</b><br>Iy Sealed. 44<br>-28 Stud x 1<br>tolarity-catho<br>Numbers<br>Reverse<br>Polarity<br>40HF50R<br>40HF40R<br>40HF40R<br>40HF40R<br>40HF40R<br>40HF40R<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR    | \$0.32<br>.35<br>.42<br>.52<br>.75<br>1.70<br>NAL RE<br>0 AMP 1/4-28<br>.37" overall.<br>.37" overall.<br>.30" overal | \$0.29<br>.32<br>.38<br>.46<br>.65<br>.120<br>CTIF<br>Stud x<br>d to Stud<br>to St    | 20C1<br>20C2<br>20C4<br>20C6<br>20C4<br>20C6<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C9<br>20C8<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9 | 200<br>400<br>600<br>800<br>51LICO<br>overall.                                                                                                                                                                            | 95<br>1,10<br>1,40<br>2,15<br>N RECT<br>1.99<br>Each<br>\$1,15<br>1,45<br>2,00<br>3,05<br>4,55<br>9,90<br>3,35<br>4,55<br>9,90<br>3,35<br>4,80<br>6,95<br>8,70<br>TIR<br>Pri<br>1-99<br>\$1,10<br>1,20                                                                                                                                                                                           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| Image: Constraint of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200<br>400<br>600<br>800<br><b>INATIOI</b><br>Iy Sealed. 44<br>-28 Stud x 11<br>tolarity-catho<br>larity-anode<br>Numbers<br>Reverse<br>Polarity<br>40HF50R<br>40HF40R<br>40HF40R<br>40HF40R<br>40HF40R<br>40HF40R<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>70H40AR<br>7   | \$0.32<br>.35<br>.42<br>.52<br>.75<br>1.70<br>NAL RE<br>0 AMP 1/4-28<br>.37" overall.<br>de connected<br>connected<br>connected<br>connected<br>0 200<br>400<br>200<br>400<br>0 200<br>400<br>0 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                                                                                                                           | 95<br>1,10<br>1,40<br>2,15<br>N RECT<br>1.99<br>Each<br>\$1,15<br>1,45<br>2,65<br>N RECT<br>1.99<br>Each<br>\$1,15<br>1,45<br>3,05<br>4,80<br>6,95<br>8,70<br><b>J</b><br><b>F</b><br>1.99<br><b>F</b><br>1.99<br><b>F</b><br>1.99<br><b>F</b><br>1.99<br><b>F</b><br>1.99<br><b>F</b><br>1.99<br><b>F</b><br>1.99<br><b>F</b><br>1.99<br><b>F</b><br>1.15<br>1.45<br>2.00<br>3.05<br>4.80<br>6.95<br>8.70<br><b>F</b><br><b>F</b><br>1.99<br><b>F</b><br>1.99<br><b>F</b><br>1.15<br>1.45<br>2.00<br>3.05<br>4.80<br>6.95<br>8.70<br><b>F</b><br><b>F</b><br><b>F</b><br><b>F</b><br><b>F</b><br><b>F</b><br><b>F</b><br><b>F</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | .80<br>.93<br>1.19<br>2.22<br>IFIER<br>Each<br>\$0.80<br>1.00<br>1.44<br>2.22<br>3.33<br>3.5<br>1.4<br>2.22<br>3.33<br>3.5<br>5.87<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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    | \$0.32<br>.35<br>.42<br>.52<br>.75<br>1.70<br>NAL RE<br>0 AMP ¼-28<br>.37" overall.<br>dode connected<br>0 200<br>400<br>200<br>400<br>8 1000<br>200<br>400<br>8 1000<br>200<br>400<br>8 1000<br>200<br>400<br>8 1000<br>200<br>400<br>8 1000<br>200<br>400<br>8 1000<br>200<br>400<br>8 1000<br>200<br>400<br>8 1000<br>200<br>400<br>8 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                                                                                                     | \$0.29<br>.32<br>.32<br>.33<br>.46<br>.5<br>.1.20<br>CTIF<br>Stud x<br>d to Stud<br>to Stud<br>t | 20C1<br>20C2<br>20C4<br>20C6<br>20C4<br>20C6<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C9<br>20C8<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9                 | 200<br>400<br>600<br>800<br>1000<br>SILICO<br>overall.<br>Current<br>AMPS<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40                                                                   | 95<br>1,10<br>1,40<br>2,15<br>N RECT<br>1.99<br>Each<br>\$1,15<br>1.45<br>2,00<br>3,05<br>4,55<br>9,90<br>3,35<br>4,80<br>6,95<br>6,95<br>8,70<br>TFR<br>Pri<br>1.99<br>\$1,10<br>1.20<br>1.20<br>1.20<br>1.20<br>2.25                                                                                                                                                                                      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.80<br>.93<br>1.93<br>1.83<br>2.22<br>IFIER<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each<br>\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>Each)\$0.8(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1.00-9(<br>1 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                                                                                                                                                                                                                                                                                                                                                                                             | 200<br>400<br>600<br>800<br><b>NATIO!</b><br>y Sealed. 41<br>-28 Stud x 1<br>-28 Stud x 1                                                                                                                                                                 | \$0.32<br>.35<br>.42<br>.52<br>.75<br>1.70<br>NAL RE<br>0 AMP 1/4-28<br>.37" overall.<br>de connecte<br>connected<br>0 AMP 1/4-28<br>.37" overall.<br>0 AMP 1/4-28<br>.37" overall.<br>0 AMP 1/4-28<br>.37" overall.<br>0 AMP 1/4-28<br>.00<br>0 AMP 1/4<br>.00<br>0 br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | \$0.29<br>.32<br>.38<br>.46<br>.65<br>.51.20<br>CTIF<br>Stud x<br>d to Stud<br>to     | 20C1<br>20C2<br>20C4<br>20C6<br>20C4<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8                                                                                 | 200<br>400<br>600<br>800<br>SILICO<br>overall.<br>Current<br>AMPS<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40                                                                           | 95<br>1,10<br>1,40<br>2,15<br>N RECT<br>1.99<br>Each<br>\$1,15<br>1,45<br>2,65<br>N RECT<br>1.99<br>Each<br>\$1,15<br>1,45<br>2,00<br>3,05<br>4,80<br>6,95<br>8,70<br>IIR<br>Pri<br>1.99<br>\$1,00<br>1.99<br>Pri<br>1.99<br>\$1,00<br>1.99<br>Pri<br>1.99<br>\$1,10<br>1.99<br>\$1,00<br>3,05<br>4,80<br>6,95<br>8,70<br>IIR<br>Pri<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,00<br>3,05<br>4,80<br>6,95<br>8,70<br>Pri<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,00<br>3,05<br>4,80<br>6,95<br>8,70<br>Pri<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>1.99<br>\$1,10<br>\$1,15<br>1.45<br>\$1,15<br>1.45<br>\$1,15<br>1.45<br>\$1,15<br>1.45<br>\$1,10<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,17<br>\$1,19<br>\$1,10<br>\$1,10<br>\$1,20<br>\$1,20<br>\$1,10<br>\$1,10<br>\$1,20<br>\$1,20<br>\$1,10<br>\$1,20<br>\$1,20<br>\$1,10<br>\$1,20<br>\$1,20<br>\$1,10<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,20<br>\$1,70<br>\$2,25<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$2,50<br>\$ | .80<br>.93<br>1.19<br>2.22<br>IFIER<br>Each<br>\$0.80<br>1.00<br>1.44<br>2.22<br>3.33<br>3.5<br>1.4<br>2.22<br>3.33<br>3.5<br>5.87<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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41<br>-28 Stud x 1<br>rolarity-anode<br>Numbers<br>Reverse<br>Polarity<br>40HF50<br>40HF50<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>40HF60R<br>4 | \$0.32<br>.35<br>.42<br>.75<br>1.70<br>NAL RE<br>0 AMP ¼-28<br>.37" overall.<br>de connected<br>0 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$0.29<br>.32<br>.38<br>.46<br>.65<br>.120<br>CTIF<br>Stud x<br>d to Stud<br>to St    | 20C1<br>20C2<br>20C4<br>20C6<br>20C4<br>20C6<br>20C8<br>20C8<br>20C8<br>20C8<br>20C8<br>20C9<br>20C8<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9<br>20C9                 | 200<br>400<br>600<br>800<br>0 1000<br>SILICO<br>overall.<br>Current<br>AMPS<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40                                                                 | 95<br>1,10<br>1,40<br>2,15<br>N RECT<br>1.99<br>Each<br>\$1,15<br>1.45<br>1.45<br>2.00<br>3.05<br>4.55<br>9.90<br>3.35<br>4.80<br>6.95<br>8.70<br>Frid<br>1.99<br>Priv<br>1.99<br>\$1.10<br>1.20<br>1.20<br>1.20<br>SINKS<br>Each<br>\$1.15<br>1.45<br>SINKS<br>Each<br>\$1.15<br>SINKS<br>Each<br>\$1.10<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SIN<br>SIN<br>SIN<br>SIN<br>SIN<br>SIN<br>SIN<br>SI                                                                                                                                                                                                                                  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| 001<br>002<br>002<br>002<br>002<br>002<br>002<br>002<br>002<br>002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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41<br>-28 Stud x 1<br>rolarity-anode<br>Numbers<br>Reverse<br>Polarity<br>40HF5N<br>40HF5N<br>40HF5N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N<br>40HF60N      | \$0.32<br>.35<br>.42<br>.75<br>.75<br>1.70<br>NAL RE<br>0 AMP ¼-28<br>.37" overall.<br>de connected<br>0 de connected<br>0 de connected<br>0 200<br>400<br>200<br>400<br>0 200<br>400<br>0 200<br>400<br>0 200<br>400<br>0 200<br>400<br>0 200<br>400<br>0 200<br>400<br>0 200<br>400<br>0 200<br>400<br>0 200<br>400<br>0 200<br>400<br>8<br>100<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>400<br>200<br>2 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\$0.29<br>.32<br>.32<br>.46<br>.46<br>.46<br>.46<br>.46<br>.46<br>.46<br>.46<br>.46<br>.46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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     | 200<br>400<br>600<br>800<br>51LICO<br>overall.                                                                                                                                                                            | 95<br>1,10<br>1,40<br>2,15<br>N RECT<br>1.99<br>Each<br>\$1,15<br>1.45<br>1.45<br>2.00<br>3.05<br>4.55<br>9.90<br>3.35<br>4.80<br>6.95<br>8.70<br>Frid<br>1.99<br>Priv<br>1.99<br>\$1.10<br>1.20<br>1.20<br>1.20<br>SINKS<br>Each<br>\$1.15<br>1.45<br>SINKS<br>Each<br>\$1.15<br>SINKS<br>Each<br>\$1.10<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SINKS<br>SIN<br>SIN<br>SIN<br>SIN<br>SIN<br>SIN<br>SIN<br>SI                                                                                                                                                                                                                                                                  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.86<br>.91<br>1.81<br>2.22<br>IFIER<br>C<br>100-91<br>Eact<br>\$0.81<br>1.02<br>1.44<br>2.22<br>3.5<br>3.0.81<br>1.02<br>1.44<br>2.22<br>3.5<br>3.5<br>8<br>5.81<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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All International Rectifier Semiconductors Are Available From B-A

.17

## MOTOROLA HEP SEMICONDUCTORS

| -\/                |                        |                                                                                                                                                             |                      | HEP                           | Case                             |                                                                                                                                                                                 | Price                 |
|--------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 0                  |                        |                                                                                                                                                             | Tur                  | No.<br>605                    | Style<br>59                      | Description 12.8 Volt Zener Diode 1 Watt                                                                                                                                        | Each<br>1.84          |
|                    |                        |                                                                                                                                                             |                      | 606<br>607<br>608             | 59<br>59<br>59                   | 14.0 Volt Zener Diode 1 Watt<br>15.0 Volt Zener Diode 1 Watt<br>27.0 Volt Zener Diode 1 Watt                                                                                    | 1.84                  |
| 42                 | 00-7<br>59             | Ų ₽₽ ⊂<br>60 86 TO-36 ∕⊂ 92 93 108                                                                                                                          | TO-72                | 609<br>610                    | 59<br>59<br>59                   | 27.0 Volt Zener Diode 1 Watt<br>33.0 Volt Zener Diode 1 Watt<br>55.0 Volt Zener Diode 1 Watt                                                                                    | 1.84<br>2.49<br>2.49  |
| 76                 | 59                     |                                                                                                                                                             |                      | 611<br>612                    | 59<br>59                         | 62.0 Volt Zener Diode 1 Watt<br>82.0 Volt Zener Diode 1 Watt                                                                                                                    | 2.49                  |
| $\int_{W^{-1}W}$   |                        |                                                                                                                                                             |                      | 613<br>620                    | 59<br>87L                        | 110 Volt Zener Diode 1 Watt<br>Thyristor (Silicon Controlled Rectifier)                                                                                                         | 3.85<br>4.40          |
|                    |                        | TO-3                                                                                                                                                        | 10                   | 621<br>622                    | 87L<br>90                        | Thyristor (Silicon Controlled Rectifier)<br>Thyristor (Silicon Controlled Rectifier)                                                                                            | 5.25<br>5.10          |
| TO-5               | TO-99<br>TO-100        | TO-1 DD-21 87L 90 77                                                                                                                                        | ⊺0- <b>92</b>        | 623<br>624<br>625             | T0-3<br>T0-3<br>T0-3             | Ge General Purpose Audio Power Amplifier—PNP<br>Ge General Purpose Audio Power Amplifier—PNP                                                                                    | 2.20                  |
| HEP                | Case                   | Specify HEP Number On Your Order                                                                                                                            | Price                | 626<br>627                    | TO-3<br>TO-3                     | Ge General Purpose Audio Power Amplifier—PNP<br>Ge General Purpose Audio Power Amplifier—PNP<br>Ge General Purpose Audio Power Amplifier—PNP                                    | 7.10<br>6.35<br>5.20  |
| <u>No.</u><br>1    | Style<br>TD-18         | Ge RF Transistor—PNP—100 MHz 150 mW                                                                                                                         | Each \$ .89          | 628<br>629                    | TO-3<br>TO-5                     | Ge General Purpose Audio Power Amplifier—PNP<br>Ge General Purpose Audio Amplifier—PNP                                                                                          | 2.20                  |
| 2 3 50             | T0-5<br>T0-72          | Ge RF Transistor—PNP—1000 MHz 300 mW<br>Ge RF Transistor—PNP—250 MHz 100 mW<br>Si BF Transistor MUN_200 mW                                                  | 1.25                 | 630<br>631                    | TD-5<br>TO-5                     | Ge General Purpose Audio Amplifier—PNP<br>Ge General Purpose Audio Amplifier—PNP                                                                                                | 2.20 2.10             |
| 50<br>51<br>52     | TO-18<br>TD-5<br>TD-18 | Si RF Transistor—NPN—100 MHz 300 mW<br>Si RF Transistor—PNP—50 MHz 600 mW<br>Si RF Transistor—PNP—100 MHz 300 mW                                            | .79<br>1.29<br>.95   | 632<br>633                    | TO-5<br>TO-5                     | Ge General Purpose Audio Amplifier—PNP<br>Ge General Purpose Audio Amplifier—PNP                                                                                                | 1.67<br>1.84          |
| 53<br>54           | T0-5<br>T0-92          | Si RF Transistor—NPN—50 MHz 600 mW<br>Si RF Transistor—NPN—30 MHz 310 mW                                                                                    | 1.15                 | 634<br>635<br>636             | TO-5<br>TD-5<br>TO-18            | Ge General Purpose Audio Amplifier—PNP<br>Ge General Purpose Alloy Junction RF—PNP<br>Ge General Purpose Alloy Junction RF—PNP                                                  | 2.20                  |
| 55<br>56           | TO-92<br>TO-92         | SI RF Transistor—NPN—210 MHz 310 mW<br>SI UHF Oscillator—NPN—750 MHz 310 mW                                                                                 | 1.20<br>1.44         | 637<br>638                    | T0-72<br>T0-5                    | Ge General Purpose Alloy Junction RF—PNP<br>Ge General Purpose Drift Field—PNP                                                                                                  | 1.12<br>1.84<br>2.33  |
| 57<br>101<br>102   | TO-92<br>DD-7<br>59    | Si RF Transistor—PNP—200 MHz 310 mW<br>Zener Diode—10 V 400 mW<br>Zener Diode—26 V 400 mW                                                                   | 1.20                 | 639<br>640                    | TO-1<br>TO-1                     | Ge General Purpose Drift-Field—PNP<br>Ge General Purpose Drift-Field—PNP                                                                                                        | 1.50                  |
| 103                | 59<br>59               | Zener Diode—3.6 V 1 W<br>Zener Diode—6.2 V 1 W<br>Zener Diode—9.1 V 1 W                                                                                     | 1.20<br>1.20<br>1.20 | 641<br>700<br>701             | TO-5<br>77<br>77                 | Ge General Purpose RF and Audio Amplifier—NPN<br>Si General Purpose Audio Power Amplifier—NPN<br>Si General Purpose Audio Power Amplifier—NPN                                   | 1.32 2.75             |
| 105<br>134         | 59<br>TO-18            | Zener Diode—12 V 1 W<br>Ge Diode (1N34A Substitute)                                                                                                         | 1.20                 | 702<br>703                    | TO-66<br>TO-66                   | Si General Purpose Audio Power Amplifier—NPN<br>Si General Purpose Audio Power Amplifier—PNP<br>Si General Purpose Audio Power Amplifier—NPN                                    | 2.49<br>.5.25<br>2.75 |
| 135<br>151         | TO-18<br>DD-5          | Ge Diode (IN60 Substitute)<br>Si Power Rectifier—Stud—50 PIV 15 Amp                                                                                         | .26<br>.79           | 704<br>705                    | TO-3<br>TO-3                     | Si General Purpose Audio Power Amplifier—NPN<br>Si General Purpose Audio Power Amplifier—PNP                                                                                    | 3.65                  |
| 153<br>154<br>156  | DO-5<br>59<br>59       | Si Power Rectifier—Stud—200 PIV 15 Amp<br>Si Rectifier—Axial Lead—50 PIV 1 Amp<br>Si Rectifier—Axial Lead—200 PIV 1 Amp                                     | 1.24<br>.36<br>.41   | 706<br>707<br>708             | TO-5<br>TO-3                     | Si General Purpose Audio Power Amplifier—NPN<br>Silicon High Voltage, Hi Power—NPN—(400 Volts 10 Amp)                                                                           | 3.10                  |
| 157<br>158         | 59<br>59               | Si Rectifier—Axial Lead—400 PIV 1 Amp<br>Si Rectifier—Axial Lead—600 PIV 1 Amp<br>Si Rectifier—Axial Lead—600 PIV 1 Amp                                     | .45                  | 709<br>710                    | TO-18<br>TO-18<br>TO-5           | Si Low Power RF Amplifier—PNP<br>Si UHF Oscillator, Mixer, RF Amplifier—NPN<br>Si Low Frequency PF card Anglifier —NPN                                                          | 1.20<br>6.55          |
| 159<br>160         | 59<br>59               | Si Rectifier—Axial Lead—800 PIV 1 Amp<br>Si Rectifier—Axial Lead—1000 PIV 1 Amp                                                                             | .60<br>.75           | 712<br>713                    | TO-5<br>TO-5                     | Si Low Frequency RF and Audio Ampiifier—PNP<br>Si Low Frequency Oscillator, Mixer, RF Amplifier—NPN<br>Si Low Frequency Oscillator, Mixer, RF Amplifier—NPN                     | 1.20<br>3.30<br>2.45  |
| 161<br>162<br>165  | 60<br>60<br>TD-92      | Si ''Top Hat'' Rectifier—50 PIV 3 Amp<br>Si ''Top Hat'' Rectifier—200 PIV 3 Amp<br>Si Dual Diode—Common Cathode                                             | 1.09                 | 714<br>715                    | TO-5<br>TO-92                    | Si High Voltage Audio AmplifierNPN<br>Si General Purpose Low Freq. RF and Audio AmpPNP                                                                                          | 3.10<br>.95           |
| 166<br>170         | TO-92<br>59            | Si Oual Diode—Common Anode<br>Si Rectifier—Axial Lead—1000 PIV 2.5 Amp                                                                                      | .62<br>.60<br>.82    | 716<br>717<br>718             | TO-92<br>TO-92<br>TO-92          | Si General Purpose Med. Current Amplifier & Switch—PNP<br>Si Low Noise Audio Amplifier—PNP<br>Si VIII CIUE Control Marco PNP                                                    | 1.24<br>1.60          |
| 175<br>176         | 108<br>108             | Full Wave Bridge Rectifier—50 PIV 1 Amp<br>Full Wave Bridge Rectifier—200 PIV 1 Amp                                                                         | 1.49 2.05            | 719                           | TO-92<br>TO-92                   | Si VHF/UHF Oscillator, Mixer, RF Amplifier—NPN<br>Si VHF/UHF Oscillator, Mixer, RF Amplifier—NPN<br>Si VHF/UHF Oscillator, Mixer, RF Amplifier—NPN                              | 1.40<br>1.49<br>1.55  |
| 177<br>178<br>200  | 108<br>108<br>TO-3     | Full Wave Bridge Rectifier—400 PIV 1 Amp<br>Full Wave Bridge Rectifier—600 PIV 1 Amp<br>Co. Bover Taggister DND - 100 PIV 1 Amp                             | 2.25<br>3.05         | 721<br>722                    | T0-92<br>T0-92                   | Si General Purpose Audio Amplifier—NPN<br>Si General Purpose Audio Amplifier—NPN                                                                                                | 1.55                  |
| 230<br>231         | TO-3<br>TO-36          | Ge Power Transistor—PNP—TO-3—3 Amp 90 Watt<br>Ge Power Transistor—PNP—TO-3—5 Amp 90 Watt<br>Ge Power Transistor—PNP—TO-36—15 Amp 150 Watt                   | .82<br>.89<br>1.69   | 723<br>724<br>725             | TO-92<br>TO-92<br>TO-92          | Si General Purpose Audio Amplifier—NPN<br>Si General Purpose Audio Amplifier—NPN                                                                                                | .95<br>.95            |
| 232<br>233         | TO-3<br>TO-36          | Ge Power Transistor—PNP10-3-7 Amp 90 Watt<br>Ge Power Transistor—PNPT0-3615 Amp 170 Watt                                                                    | 2.34 4.20            | 7 <b>26</b><br>727            | TO-92<br>TO-92                   | Si General Purpose Audio Amplifier—NPN<br>Si General Purpose Audio Amplifier—NPN<br>Si General Purpose Audio Amplifier—NPN                                                      | 1.05                  |
| 234<br>235<br>236  | TO-3<br>TO-3<br>TD-41  | Ge High Voltage Pwr Transistor—PNP—200 V 5 A 56 W<br>Ge High Voltage Pwr Transistor—PNP—320 V 10 A 56 W                                                     | 3.25<br>4.50         | 728<br>729                    | TO-92<br>TO-92                   | Si General Purpose Audio Amplifier—NPN<br>Si General Purpose Audio Amplifier—NPN                                                                                                | 1.05<br>1.10<br>1.35  |
| 240<br>241         | T0-66<br>T0-66         | Ge High Current Pwr Transistor—PNP—80 V 25 A 106 W<br>Si Power Transistor—NPN—TO-66—300 V 500 mA 10 W<br>Si High Power Transistor—NPN—160 V 5 A 40 W        | 5.70<br>2.05<br>1.79 | 730<br>731<br>732             | TO-92<br>TO-92                   | Si General Purpose Audio Amplifier—NPN<br>Si General Purpose Audio Amplifier—NPN                                                                                                | 1.05                  |
| 242                | TO-5                   | Si Med Power TransistorPNP60 V 3 A 6 W<br>(Comp. to 243)                                                                                                    | 2.40                 | 733<br>734                    | TO-92<br>TO-92<br>TO-92          | Si General Purpose Audio Amplifier—NPN<br>Si General Purpose Audio Amplifier—NPN<br>Si General Purpose Audio Amplifier—NPN                                                      | 1.39                  |
| 243<br>244         | TD-5<br>77             | Si Med Power Transistor—NPN—60 V 3 A 6 W<br>(Comp. to 242)                                                                                                  | 1.79                 | 735<br>736                    | TO-92<br>TO-92                   | Si General Purpose Audio Amplifier—NPN<br>Si General Purpose Audio Amplifier—NPN<br>Si General Purpose Audio Amplifier—NPN                                                      | 1.40<br>1.39<br>1.28  |
| 245                | 77                     | Si High Voltage Pwr Transistor—NPN—300 V 500 mA 25W<br>Si Med Power Transistor—NPN—60 V 3 A 30 W<br>(Comp. to 246)                                          | 2.15                 | 737<br>738                    | TO-92<br>TO-92                   | Si General Purpose Audio Amplifier—NPN<br>Si General Purpose Audio Amplifier—NPN                                                                                                | 1.39                  |
| 246                | 77                     | Si Med Power Transistor—PNP—60 V 3 A 30 W<br>(Comp. to 245)                                                                                                 | 1.99                 | 739<br>801<br>802             | T0-92<br>T0-72<br>T0-92          | Si 2N404 (Germanium) Replacement—PNP<br>Field Effect Transistor—Audio—N Channel<br>Field Effect Transistor—RF—N Channel                                                         | .85<br>1,59           |
| 247<br>248         | TO-3<br>TO-3           | Si High Power Transistor—NPN—70 V 10 A 150 W<br>(Comp. to 248)                                                                                              | 2.80                 |                               | MOTO                             | DROLA MOUNTING ACCESSORIES                                                                                                                                                      | 1.59                  |
| 240                | T0-5                   | Si High Power Transistor—PNP—70 V 10 A 150 W<br>(Comp. to 247)<br>Ge General Purpose Transistor—PNP—Med. Coin, 200 mW                                       | 6.49                 | Motorola<br>HEP-450           |                                  | Oescription<br>for Mounting Kit—TO-3                                                                                                                                            | Each<br>\$0.30        |
| 251<br>2 <b>52</b> | T0-5<br>T0-5           | Ge General Purpose Transistor—PNP—Med. Gain—200 mW<br>Ge General Purpose Transistor—PNP—Hi Gain—200 mW<br>Ge Gen. Purpose Transistor—PNP—Low Leakage—200 mW | .79<br>.89<br>.89    | HEP-451<br>HEP-452<br>HEP-453 | Integrat<br>Transist<br>Integrat | tor Mounting Kit—TO-3<br>ted Circuit Socket (Pkg. of 2) 10 Pin<br>tor Mounting Kit—TO-66<br>ted Circuit Socket 14 Pin                                                           | 1.49                  |
| 253<br>254<br>300  | TO-5<br>TO-5<br>86     | Ge General Purpose Transistor PNP-Med. Gain-225 mW                                                                                                          | .95<br>.89           | HEP-454<br>HEP-455            | 1.C. Soc<br>TO-36 M              | cket—8 Pin—Pkg. of 2<br>Aounting Kit                                                                                                                                            | .99<br>1.49<br>.32    |
| 302<br>304         | 86<br>92               | Thyristor (SCR)—50 V 5 Amp<br>Thyristor (SCR)—200 V 5 Amp<br>Thyristor (SCR)—50 V 15 Amp<br>Thyristor (SCR)—50 V 15 Amp                                     | 2.29<br>2.69<br>4.35 | HEP-500<br>HEP-501<br>HEP-502 | Heat Si                          | nk—T0-36<br>nk—T0-36<br>nk—T0-5                                                                                                                                                 | 2.35<br>2.35          |
| 305<br>306         | 92<br>92               | Thyristor (SCR) Reverse Polarity—50 V 15 Amp<br>Thyristor (SCR) 200 V 15 Amp<br>Thyristor (SCR) Reverse Polarity—200 V 15 Amp                               | 4.60                 | IN                            | TEGRA                            | TED CIRCUIT EXPERIMENTER KIT                                                                                                                                                    | .89                   |
| 307<br>310<br>311  | 92<br>TO-92<br>TO-92   |                                                                                                                                                             | 6,20<br>1,49         | Buffer, H                     | 5 RTL Inte<br>HEP 583 J-M        | grated Circuits (one each HEP 581 4-input Gate, HEP 58<br>(Filp-Flop, and two HEP 580 Oual 2-input Gates)—PLUS<br>(Corse-Parence and Substitution Cuide, and circu              | 2 Dual<br>''Tips      |
| 320<br>340         | TO-92<br>86            | Si Bilateral Trigger Olde<br>Thyristor (SCR)—30 V 800 mA<br>Triac—200 V 8 A<br>Integrated Circuit—ECL—Half Adder                                            | .99<br>.99<br>4.49   | build ult<br>4 input          | ra high gai<br>mixer, freq       | nd I.C. Cross-Reference and Substitution Guide, and circu<br>n amplifier, sine to square wave converter, RF signal in<br>uency standard, siren, tachometer and audio signal gen | jector,<br>erator.    |
| 55 <b>3</b><br>554 | 71<br>71               | Integrated Circuit—ECL—Bias Oriver                                                                                                                          | 1.89                 | Each.                         | HEK-1.                           |                                                                                                                                                                                 | 3.95                  |
| 556<br>558         | 71 71                  | Integrated Circuit—ECL—3 Input Gate<br>Integrated Circuit—ECL-J-K Flip Flop                                                                                 | 1.79<br>2.39         | introduct                     | ion to int                       | rojects Manual. Gives<br>egrated circuits and                                                                                                                                   | 111                   |
| 570<br>571<br>572  | 93<br>93<br>93         | Integrated Circuit—RTL—Quad Gate<br>Integrated Circuit—RTL—Qual Buffer<br>Integrated Circuit—RTL—Dual J.K Flip Flop                                         | 2.10<br>2.10<br>3.90 | struct pr                     | ojects with                      | ques. Easy to con-<br>parts lists to build<br>organ, square wave                                                                                                                | W                     |
| 580<br>581         | TO-99<br>TO-99         | Integrated Circuit—RTL—Dual 2-Input Gate<br>Integrated Circuit—RTL—Dual 4-Input Gate                                                                        | .95<br>.95           | generator                     | r. code prac                     | ctice oscillator, glide-                                                                                                                                                        | 7                     |
| 582<br>583         | TO-99<br>TO-99         | Integrated Circuit—RTL—Dual Buffer<br>Integrated Circuit—RTL—J-K Flip Flop                                                                                  | .99<br>1.49          |                               |                                  | tring guitar. 92 pages<br>ola 407. \$1.00                                                                                                                                       |                       |
| 584<br>590<br>591  | TO-99<br>71<br>71      | Integrated Circuit—RTL—Dual 2-Input Gate<br>Integrated Circuit—Linear—High Frequency Amplifier<br>Integrated Circuit—Linear—Wide Band Amp/Oisc.             | 1.89<br>3.99<br>3.60 | Field Effe                    | struction te                     | tor projects manual gives introduction to field effect trans                                                                                                                    | build                 |
| 592<br>593         | 71<br>71               | Integrated Circuit—Linear—Stereo Preamplifier<br>Integrated Circuit—Linear—I Watt Audio Power Amplifier                                                     | 3.00<br>3.25<br>7.95 | vibrato,<br>51/2x81/2"        | audio mixe<br>'. Wt. ½ I         | r, timer, crystal oscillator, preamp., DC voltmeter. 90<br>b.                                                                                                                   | pages                 |
| 600<br>601         | 00-21<br>D0-21         | Silicon Press-Fit Rectifier (Cathode to Case)<br>Silicon Press-Fit Rectifier (Anode to Case)                                                                | 1.11                 | No. 16A1<br>Solid Sta         | 114. Motor<br>ite projects       | ola 408. Each                                                                                                                                                                   | lists.                |
| 602<br>603<br>604  | 59<br>59<br>59         | 5.0 Volt Zener Diode 1 Watt<br>5.6 Volt Zener Diode 1 Watt<br>11.5 Volt Zener Diode 1 Watt                                                                  | 1.84<br>1.84<br>1.84 | 62 pages<br>No. 16A1          | . 54/2×84/2".<br>115. Motor      | Wt. ½ lb.<br>ola 400. Each<br>sing Motorola HEP IC's—Brochure                                                                                                                   |                       |
| 92                 | <i></i>                | Ask For 16A1116 Motorol                                                                                                                                     |                      |                               |                                  |                                                                                                                                                                                 | NEE                   |

## SPECIAL PURPOSE TUBES

| Tube<br>Type               | Make           | P<br>1-4       | rices E<br>5-15 |                | 50 Up           | Tube<br>Type                 | Make         | P<br>1-4       | rices Ea<br>5-15 |                | 50 Up          | Tube<br>Type                     | Make           | P<br>1-4      | rices E<br>5-15 | ach<br>16-49  | 50 Up         |
|----------------------------|----------------|----------------|-----------------|----------------|-----------------|------------------------------|--------------|----------------|------------------|----------------|----------------|----------------------------------|----------------|---------------|-----------------|---------------|---------------|
| OA2                        | RCA            | \$ 1.32        | \$ 1.25         | \$ 1.19        | \$ 1,12         | NL-623                       | N.E.         | \$13.35        | \$12.68          | \$12.01        | \$11.34        | 5696                             | RCA            | \$ 1.95       | \$ 1,85         | \$ 1.75       | \$ 1.66       |
| 0A3<br>0A4G                | RCA<br>RCA     | 1.54<br>1.86   | 1.46            | 1.39           | 1.31<br>1.58    | NL-635/7019<br>NL-635L/7020  | N.E.<br>N.E. | 13.50<br>13.50 | 12.82<br>12.82   | 12,15          | 11.47          | 5725/6AS6W<br>5726/6AL5W         | RCA<br>RCA     | 3.12<br>1.55  | 2.96            | 2.80          | 2.65          |
| 082                        | RCA            | 1.37           | 1.30            | 1.23           | 1.16            | NL-635P/6930                 | N.E.         | 14.15          | 13.44            | 12.74          | 12.02          | 5727                             | RCA            | 2,90          | 2.75            | 2.61          | 2.46          |
| 0C2<br>0C3                 | RCA<br>RCA     | 1.50<br>1.50   | 1.42            | 1.35<br>1.35   | 1.28<br>1.28    | NL660L/7786<br>NL-710/6011   | N.E.<br>N.E. | 13.50<br>12.70 | 12.83<br>12.06   | 12.15          | 11.48<br>10.79 | 5749/68A6W<br>5751               | RCA<br>RCA     | 2.20<br>2.55  | 2.09            | 1,98          | 1.87<br>2.17  |
| 003                        | RCA            | 1.44           | 1.37            | 1,30           | 1.22            | NL-710L/7518                 | N.E.         | 14,00          | 13,30            | 12,60          | 11.90          | 5763                             | RČA            | 2.45          | 2.33            | 2.20          | 2,08          |
| 0G3/85A2<br>1C21           | Mul.<br>RCA    | 2.30<br>4.15   | 2.18            | 2.07<br>3.74   | 1.95<br>3.53    | NL-714<br>NL-716             | N.E.         | 10.00<br>12.50 | 9.50<br>11.87    | 9.00<br>11.25  | 8.50<br>10.62  | 5814A<br>5814WA                  | RCA<br>RCA     | 2.35<br>2.40  | 2.23<br>2.28    | 2.11 2.16     | 2.00<br>2.04  |
| 114                        | RCA            | 1.50           | 1.42            | 1.35           | 1.27            | NL-740/6856                  | N.E.<br>N.E. | 23.25          | 22.09            | 20.92          | 19.76          | 5820A                            | RCA            | 995.00        |                 |               |               |
| 1M3/DM70 See I<br>1P37     | DM70<br>RCA    | 6.85           | 6,50            | 6,16           | 5,82            | NL-740L/7022<br>NL-740P/6857 | N.E.<br>N.E. | 24.35<br>24.35 | 23.13<br>23.13   | 21.91<br>21.91 | 20.69<br>20.69 | 5823<br>5876A                    | RCA<br>RCA     | 1.72<br>6.90  | 1.63<br>6.55    | 1.55<br>6.21  | 1.46<br>5.86  |
| 1939                       | RCA            | 3.45           | 3.27            | 3.10           | 2.93            | NL-760                       | N.E.         | 28.10          | 26.69            | 25.29          | 23,88          | 5894                             | Mul            | 25.50         |                 |               |               |
| 1P40<br>1P41               | RCA<br>RCA     | 5.60<br>6.15   | 5.32<br>5.84    | 5.04<br>5.53   | 4.76<br>5.23    | NL-760L<br>NL-760P           | N.E.<br>N.E. | 29.40<br>29.80 | 27.93<br>28.31   | 26.46<br>26.82 | 24.99<br>25.33 | 5915<br>5963                     | RCA<br>RCA     | 1.62<br>1.36  | 1.54<br>1.29    | 1.46          | 1.38<br>1.16  |
| 2-010                      | Eimac          | 18.00          | 17,10           | 16,00          | 15.30           | 807                          | RCA          | 4.20           | 3.99             | 3,78           | 3.57           | 5965                             | RCA            | 1.92          | 1,82            | 1.72          | 1.63          |
| 2C39A                      | RCA            | 20.75          | 19.71           | 18.67          | 17.63           | 810                          | RCA<br>RCA   | 30.75<br>7.75  | 29.21<br>7.36    | 27.67<br>6.97  | 26.03<br>6.59  | 6005/6AQ5W<br>6012               | RCA<br>RCA     | 3.23<br>7.65  | 3.07<br>7.27    | 2.90<br>6.88  | 2.74<br>6.50  |
| 2C40<br>2D21               | RCA<br>RCA     | 31.75<br>1.29  | 30.16           | 28.48          | 26.89           | 811A<br>812A                 | RCA          | 7.20           | 6.84             | 6.48           | 6.12           | NL-6014/C1K                      | N.E.           | 11,80         | 11.21           | 10.62         | 10.03         |
| 2D21W'                     | RCA<br>RCA     | 2.90           | 2.76            | 2.61           | 2.47<br>3.36    | 813                          | RCA          | 25.95          | 24.56<br>4.27    | 23.27<br>4.04  | 22.08<br>3.81  | 6072<br>6080                     | RCA<br>RCA     | 3.90<br>5.33  | 3.70<br>5.06    | 3.51<br>4.80  | 3.31<br>4.53  |
| 2E26<br>2X2A               | RCA            | 3.95<br>4.20   | 3.75<br>3.99    | 3,56<br>3,78   | 3.57            | 816<br>828                   | RCA<br>RCA   | 4.50<br>37.00  | 35.15            | 33.30          | 31.45          | 6082                             | RCA            | 5.60          | 5.32            | 5.04          | 4.76          |
| 384                        | RCA            | 1.55           | 1.47            | 1.39           | 1.32            | 833A                         | RCA          | 69.95          | 66.45            | 62.95<br>3.37  | 59.45<br>3.19  | 6136<br>6146A                    | RCA<br>RCA     | 2.70<br>4.30  | 2.56<br>4.08    | 2.43<br>3.87  | 3.65          |
| 3B28<br>NL-3C23            | RCA<br>N.E.    | 8.85<br>11.98  | 8.41<br>11.38   | 8.00<br>10.78  | 7.52<br>10.18   | 866A<br>868                  | RCA<br>RCA   | 3.75<br>6.85   | 3.56<br>6.50     | 6,16           | 5.82           | 6146B/8298A                      | RCA            | 5.15          | 4.89            | 4,63          | 4.38<br>5.61  |
| 3CX100A5                   | Eimac          | 26.50<br>14.60 | 25.17 13.87     | 23.85<br>13.14 | 22.52<br>12.41  | 872A ·                       | RCA          | 10.70          | 10.16            | 9.63<br>2.05   | 9.09<br>1.94   | 6146W<br>6159B                   | RCA<br>RCA     | 6.60<br>5.05  | 4.80            | 4.54          | 4.29          |
| NL-C3J/AL<br>3RP1          | N.E.<br>RCA    | 18.30          | 17,39           | 16.47          | 15.55           | 884<br>918                   | RCA<br>RCA   | 2.28<br>6.85   | 2.16<br>6.50     | 6,16           | 5.82           | 6197                             | RCA            | 2.30<br>2.95  | 2.18            | 2.07<br>2.65  | 1.95<br>2.51  |
| 3RP1A                      | RCA            | 27.00<br>34.00 | 25.65<br>32.30  | 24.30<br>30,60 | 22,95<br>28,90  | 919                          | RCA          | 10.15          | 9.64             | 9.13           | 8.63<br>3.19   | 6201<br>6202                     | RCA            | 2.69          | 2.55            | 2.42          | 2.29          |
| 3-400Z/8163<br>4-125A/4D21 | Eimac<br>Eimac | 36.00          | 34.20           | 30,00          | 20,30           | 922<br>923                   | RCA<br>RCA   | 3.75<br>5.50   | 3.56<br>5.22     | 3.37<br>4.94   | 4.66           | 6211                             | RCA            | 2.15          | 2.04            | 1.93          | 1,83          |
| 4-250A/5D22                | Eimac<br>Eimac | 48.00<br>48.00 | 45.60<br>45.60  | 43.20<br>43.20 | 40.80           | 925                          | RCA          | 5.95<br>7.15   | 5.65<br>6.79     | 5,35<br>6,43   | 5.05<br>6.07   | 6267/EF86 See t<br>6293          | EF86 62<br>RCA | 5.50          | 5.22            | 4.94          | 4.66          |
| 4-400A/8438<br>4-1000A     |                |                | 45.60           |                | 40.80<br>114.75 | 927<br>929                   | RCA<br>RCA   | 3.65           | 3.47             | 3.28           | 3,10           | 6336A                            | RCA            | 19.04<br>1.85 | 18.09<br>1.76   | 17.14         | 16.18<br>1.57 |
| 4CX250B/7203               | Eimac          | 35.60<br>23.15 | 33.82           | 32.04 20.83    | 30.26<br>19.68  | 930                          | RCA          | 5.60           | 5.32             | 5,04           | 4.76<br>10.28  | 6350<br>6360A                    | RCA            | 6,25          | 5.94            | 5.63          | 5.32          |
| 4X150A/7034<br>4X250B      | Eimac<br>Eimac | 23.15          | 33.82           | 32.04          | 30.26           | 931A<br>934                  | RCA<br>RCA   | 12,10<br>7.00  | 6.65             | 6.30           | 5.95           | 6386                             | RCA<br>RCA     | 7.75<br>3.33  | 7.36<br>3.16    | 6.97<br>3.00  | 6.59<br>2.83  |
| 5BP1A                      | RCA            | 38.85          | 36.90           | 34.97          | 33.02           | 955                          | RCA          | 7.05           | 6.70             | 6.34           | 5.99           | 6417<br>6550                     | RCA            | 4.59          | 4.36            | 4.13          | 3.90          |
| 5R4GYB<br>5UP1             | RCA<br>RCA     | 2.03<br>21.10  | 1.93 20.04      | 1.83           | 1.72<br>17.93   | 991<br>NL1051A ''B'' Ign.    | RCA<br>N.E.  | 1.62<br>65.00  | 1.54 61.75       | 1.46 58.50     | 1.38<br>55.25  | 6570                             | RCA<br>RCA     | 12.10<br>3.35 | 11.49<br>3.18   | 10.89<br>3.01 | 10.28<br>2.85 |
| 6AS6                       | RCA<br>RCA     | 3.43 4.93      | 3.26 4.68       | 3.08           | 2.91<br>4.19    | NL1052A "C" Ign.             | N.E.         | 99,00          | 94.05            | 89,10          | 84.15          | 6626/0A2WA<br>6660/6BA6          | RCA            | 1.01          | .96             | .91           | .86           |
| 6AS7G<br>6J4               | RCA            | 4.93           | 3.82            | 3.62           | 3.42            | NL1061<br>NL1062             | N.E.<br>N.E. | 65.00<br>99.00 | 94,05            | 58.50<br>89,10 | 55.25<br>84.15 | 6661/6BH6<br>6669/6AQ5A          | RCA<br>RCA     | 1.34<br>1.06  | 1.27            | 1.21          | 1.14<br>.90   |
| NL-Ç6J                     | N.E.           | 28.10 29.40    | 26.69           | 25.29<br>26.46 | 23.88<br>24.99  | 1612                         | RCA          | 5.77           | 5.48<br>4.68     | 5.19<br>4.44   | 4.90<br>4.19   | 6677/6CL6                        | RCA            | 1.85          | 1.76            | 1.66          | 1.57          |
| NL-C6JL<br>12A6            | N.E.<br>RCA    | 29.40          | 3.19            | 3.02           | 24.99           | 1614<br>1619                 | RCA<br>RCA   | 6.23           | 5.91             | 5.61           | 5.30           | 6678/6U8A<br>6679/12AT7          | RCA<br>RCA     | 1.62<br>1.50  | 1.54            | 1.46          | 1.30          |
| 12AT7WA                    | RCA            | 2.53           | 2.40            | 2.28           | 2.15            | 1620                         | RCA<br>RCA   | 7.55<br>3.85   | 7.17 3.68        | 6.79<br>3.46   | 6.42<br>3.27   | 6680/12AU7A                      | RCA            | 1.22          | 1.16            | 1.10          | 1.04<br>1.07  |
| EL37<br>KT66               | Mul.<br>Mul.   | 4.26<br>4.65   | 3.55<br>3.88    | 3,19<br>3,49   | 3.03<br>3.31    | 1621<br>1625                 | RCA          | 6.30           | 5.98             | 5.66           | 5.34           | 6681/12AX7A<br>6688A             | RCA<br>RCA     | 1.26<br>6.80  | 6,46            | 6.12          | 5.78          |
| DM70/1M3                   | Mul,           | 1.44           | 1.20            | 1.08           | .86<br>1,22     | 1629                         | RCA<br>RCA   | 2.04<br>2.37   | 1.94<br>2.25     | 1,84 2,13      | 1.73<br>2.01   | 6883                             | RCA            | 4.25          | 4.04            | 3.82          | 3.40          |
| EF80/6BX6<br>EZ80/6V4      | Mul.<br>Mul.   | 1.83           | 1.53            | 1.37           | .61             | 2050<br>2050A                | RCA          | 2.03           | 1.93             | 1.83           | 1.72           | 6922 See E88CC<br>N1-6989/C6J/KL | / 6922<br>N.E. | 29.45         | 27.98           | 26.50         | 25.03         |
| EM81/6DA5                  | Mut.           | 1.77           | 1.47            | 1.32           | 1.25<br>1.33    | 5557<br>5558                 | RCA<br>RCA   | 9.50<br>17.50  | 9.02<br>16.62    | 8.55<br>15.75  | 8.07<br>14.87  | 7054<br>7059                     | RCA<br>RCA     | 1.54<br>1.48  | 1.46            | 1.38          | 1.31<br>1.26  |
| ECF82/6U8<br>83            | Mul.<br>RCA    | 1.86<br>1.89   | 1.55            | 1.40           | 1.55            | NL5563A                      | N.E.         | 50.00          | 47.50            | 45.00          | 42.50          | 7059                             | RCA            | 1.75          | 1.66            | 1.57          | 1,49          |
| EM84/6FG6                  | Mul.           | 2.01           | 1,67            | 1.50           | 1.42            | 5581<br>5582                 | RCA<br>RCA   | 6.20<br>7,45   | 5.89<br>7.08     | 5.58<br>6.71   | 5.27<br>6.34   | 7061<br>7062                     | RCA<br>Mul     | 1.16<br>2.25  | 1.10            | 1.04          | .90<br>1.91   |
| EF85/68Y7<br>EF86/6267     | Mul.<br>Mul.   | 1.83           | 1.53<br>1.30    | 1.37           | 1,30<br>1,11    | 5583                         | RCA          | 9,30           | 8,83             | 8.36           | 7.89           | 7119                             | Mul            | 2.95          | 2.80            | 2.65          | 2.51          |
| E88CC/6922                 | Mul,           | 4.87           | 4.63            | 4,38           | 4,14            | NL-5632/C3J                  | N.E.<br>RCA  | 12.70<br>3.53  | 12.06            | 11.43          | 10.79<br>3.00  | 7167<br>7360                     | RCA<br>RCA     | 1.41<br>3.77  | 1.34<br>3.58    | 1.27          | 1.20<br>3.20  |
| ECC88/6DJ8<br>KT88         | Mul.<br>Mul.   | 2.97<br>7.86   | 2.82            | 2.67           | 2.52<br>5.59    | 5642<br>5651A                | RCA          | 1.78           | 1.69             | 1.60           | 1.51           | 7551                             | RCA            | 3.37          | 3.20            | 3.03          | 2.86          |
| EBF89/6DC8                 | Mul.           | 1.83           | 1.52            |                | 1.30            | 5654                         | RCA<br>N.E.  | 2.41<br>52.50  | 2.29<br>49.67    | 2.17<br>45.45  | 2.05<br>44.62  | 7558<br>7586                     | RCA<br>RCA     | 3.49<br>3.35  | 3.31<br>3.18    | 3.14<br>3.01  | 2.96<br>2.85  |
| EZ90/6X4                   | Mul.           | 1.26           | 1.20            |                | 1.07            | NL-5665/C16J<br>5670         | RCA          | 2.45           | 2.33             | 2.28           | 2.08           | 7587                             | RCA            | 5.20<br>9.75  | 4.94<br>9.26    | 4.68<br>8.77  |               |
| 100TH<br>FG105             | Eimac<br>N.E.  | 59.00          | 24,70<br>56,05  | 53.10          | 50,15           | 5675                         | RCA          | 6.90           | 6.55             | 6.21           | 5.86           | 7788<br>7895                     | Mul<br>RCA     | 3.35          | 3,18            | 3,01          | 2.85          |
| 250TH<br>304TL             | Eimac<br>Eimac |                | 42.75           |                |                 | 5678<br>NL-5684/C3J/A        | RCA<br>N,E.  | 2.30<br>13.10  | 2,18<br>12,44    | 2.07<br>11.79  | 1,95<br>11,13  | 8008<br>8032                     | RCA<br>RCA     | 11.50<br>4.90 | 10.92 4.65      | 10,35         | 9.77<br>4.16  |
| 575Å                       | RCA            | 20.60          | 19.57           | 18.54          | 17.51           | NL-5684NE                    | N.E.         | 16.70          | 15.86            | 15.03          | 14.19          | 8056                             | RCA            | 5.00          | 4.75            | 4.50          | 4.25          |
| NL-604<br>NL-604L          | N.E.<br>N.E.   | 11,80<br>13.00 | 11.21           |                |                 | 5686<br>5687                 | RCA<br>RCA   | 3.37<br>4.05   | 3.20<br>3.85     | 3.03<br>3.64   | 2.86<br>3.44   | 8077/7054<br>8233                | RCA<br>Mul     | 1.40<br>13.25 | 1.33            | 1.26          |               |
| NL-606                     | N.E.           | 21.40          | 20.33           | 19.26          | 18.19           | 5691                         | RCA          | 8.75           | 8.31             | 7.87           | 7.44           | 8393                             | RCA            | 3.45          | 3,28            | 3.10          | 2.93          |
| NL-606L<br>NL-615          | N.E.<br>N.E.   | 23.50<br>10.05 |                 |                |                 | 5692<br>5693                 | RCA<br>RCA   | 8.25<br>6.60   | 7.84<br>6.27     | 7.42           |                | 9001<br>9006                     | RCA<br>RCA     | 5.38<br>2.70  | 5.11<br>2.56    | 4.84<br>2.43  |               |
| NL'013                     | W.E.           | 10.00          | 3,00            | 3,04           | . 0,04          |                              | (            | 0.00           | 0.47             | 0.04           | 4.41           |                                  | 1.011          | 21110         |                 |               |               |

#### READOUT TUBES BY NATIONAL ELECTRONICS

| NEAD.      |                  |                                                                                                                        | ALIONAL                                                                |                        |                                             |                                    |
|------------|------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------|---------------------------------------------|------------------------------------|
|            |                  | umerals 0 thru<br>ugged, non-fading,<br>od readability u<br>ider license from<br>icept NL5030 16<br>elow, Write for to | , all electronic.<br>nder all lightin<br>Burroughs Co<br>D V. and NL70 | Red-<br>g con<br>rp. O | orange glow<br>ditions, Man<br>perates at 1 | provides<br>ufactured<br>170 volts |
| Mfg. No.   | Fig. Char.       | Size Each                                                                                                              | Mfg. No.                                                               | Fig.                   | Char, Size                                  | Each                               |
| NL807      |                  |                                                                                                                        | NL7037                                                                 |                        | 2 In.                                       | \$26.50                            |
|            |                  |                                                                                                                        | NL8091                                                                 | 2                      | 1.375 In.                                   | 22.50                              |
| NL809      |                  |                                                                                                                        |                                                                        |                        |                                             | 15.75                              |
| NL840/8754 | 2 0.6 1<br>0.6 1 |                                                                                                                        | NL8421/5092                                                            |                        | 0.6 ln.                                     |                                    |
| NL6844A    | 0.6 1            | In, 11.00                                                                                                              | NL8422/5991                                                            |                        | 0,6 In.                                     | 15,75                              |
|            | _                | SOCKETS FOR I                                                                                                          |                                                                        |                        |                                             |                                    |
| Stk. No.   | Mfg. No.         | For T                                                                                                                  | ube Types                                                              |                        |                                             | Net Each                           |
| 12A5029    | RTS-1            | NL8421, 68                                                                                                             | 444                                                                    |                        |                                             | \$0.90                             |
| 12A5030    | RTS-3            | NL7977/403                                                                                                             |                                                                        |                        |                                             | 1.00                               |
| 12A5031    | RTS-4            | NL8422/59                                                                                                              |                                                                        |                        |                                             | .90                                |
|            |                  |                                                                                                                        |                                                                        |                        |                                             | 1.25                               |
| 12A5032    | RTS-5            | NL8091, NL                                                                                                             | /03/                                                                   |                        |                                             | .40                                |
| 12A5033    | RTS-11           | NL807                                                                                                                  |                                                                        |                        |                                             |                                    |
| 12A5028    | RTS-14           | NL840/8754                                                                                                             | 1                                                                      |                        |                                             | .40                                |
|            |                  |                                                                                                                        |                                                                        | 1.92                   | TUDEC                                       |                                    |

#### TUNG-SOL DIGIVAC READOUT TUBES

### IEC MULLARD 10M SERIES ELECTRON TUBES

#### **2 YEAR GUARANTEE**

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- · Section-to-section uniformity.
- Long Life Guaranteed Performance.

· Manufactured to extremely close tolerance.

Order By Mullard 10M Tube Type

| Tube Type       | Net Each | Tube Type      | Net Each | Tube Type      | Net Each |
|-----------------|----------|----------------|----------|----------------|----------|
| ECC81/12AT7-10M | \$2.55   | ECC88/6DJ8-10M | \$3.10   | EF94/6AU6-10M  | \$2.05   |
| ECC82/12AU7-10M | 2.20     | ECH81/6AJ8-10M | 2.65     | EF95/6AK5-10M  | 3.25     |
| ECC83/12AX7-10M | 2.20     | EF86/6267-10M  | 2.50     | EF183/6EH7-10M | 2.60     |
| ECC85/6AQ8-10M  | 2.40     | EF89/6DA6-10M  | 2.55     | EL84/6BQ5-10M  | 2.15     |

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| Mullard<br>Type    | EIA<br>Type | Net<br>Pair     | Multard<br>Type     | EIA<br>Type  | Net<br>Pair |
|--------------------|-------------|-----------------|---------------------|--------------|-------------|
| EL34/MP<br>KT66/MP | 6CA7        | \$7.32<br>10.11 | EL90/MP<br>EL95/MP  | 6AQ5<br>5DL5 | \$3.24 4.26 |
| EL84/MP<br>KT88/MP | 6805        | 4.11<br>16.56   | ECL82/MP<br>7189/MP | 6BM8<br>7189 | 4.08 4.17   |

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NCA NECENYING THE MANUAL 2 Receiving Tubes may be assorted for quantity Prices---The more you buy the more you save at B-A! n li 8

| Taba                  | ā.     | tions                         | hl of                | Met                  | 60            |                         | ou save              |              | 1943<br>831 - 1 | <b>F^</b>     | ( <b>P</b>           | - +1 · · ·                    | ht =r                | A1-1         |                      |                        |                       | AL.          |                |                                                                                                                 |
|-----------------------|--------|-------------------------------|----------------------|----------------------|---------------|-------------------------|----------------------|--------------|-----------------|---------------|----------------------|-------------------------------|----------------------|--------------|----------------------|------------------------|-----------------------|--------------|----------------|-----------------------------------------------------------------------------------------------------------------|
| Tabe<br>Type          |        | ptional<br>List               | Ne#<br>1-5           | Net<br>6- <b>49</b>  | 50 or<br>Over | Tube (<br>Type          | Dptional<br>List     | Net<br>1-5   | Net<br>6-49     | 50 or<br>Over | Tube C<br>Type       | ptional<br>List               | Net<br>1-5           | Net<br>6-49  | 50 or<br>Over        | Tube C<br>Type         | ptional<br>List       | Net<br>1-5   | Net<br>6-49    | 50 or<br>Over                                                                                                   |
| 074<br>1402           |        | \$3.40<br>3.40                | \$2.04               | \$1.53               | \$1.36        | 6AF3<br>6AF4A           | \$3.55<br>4.45       |              |                 | \$1.42        | 6CN7                 | \$4.45                        |                      | \$2.00       |                      | 6HZ6                   | \$3.00                | \$1.80       | \$1.35         | \$1.20                                                                                                          |
| 1AY2                  |        | 2.60                          | 1.56                 | 1.17                 | 1.04          | 6AF6C                   | 6.30                 | 2.67<br>3.78 | 2.00<br>2.84    | 1.78<br>2.52  | 6CQ4<br>6CQ8         | 3.55<br>4.10                  | 2.13<br>2.46         | 1.60<br>1.85 | 1.42                 | 6J5<br>6J5GT           | 4.6C<br>4.10          | 2.76<br>2.46 | 2.07<br>1.85   | 1.84<br>1.64                                                                                                    |
| 18C2<br>163G1         | T/183G | 3.25<br><b>T</b> 3.40         | 2.04                 | 1.46                 | 1.30<br>1.36  | 6AF9<br>6AF11           | 3.55<br>5.20         | 2.13         | 1.60<br>2.34    | 1.42          | 6CS6<br>6CS7         | 3.30<br>3.75                  | 1.98<br>2.25         | 1.49<br>1.69 | 1.32                 | 6J6A<br>6J7            | 4.05<br>5.80          | 2.43<br>3.48 | 1.82<br>2.61   | 1.62<br>2.32                                                                                                    |
| 1K3.1<br>1L6          | 13     | 3.40                          | 2.04                 | 1.53                 | 1.36          | 6AC5<br>6AC7            | 3.80                 | 2.28         | 1.71            | 1.52          | 6CU5                 | 3.55                          | 2.13                 | 1.60         | 1.42                 | 6JB6A                  | 5.85                  | 3.51         | 2.63           | 2.34                                                                                                            |
| 185                   | -      | 4.45                          | 2.67                 | 2.00                 | 1.78          | 6AH4GT                  | 3.25                 | 4.21         | 3.08<br>1.46    | 2.74<br>1.30  | 6CU8<br>6CW4         | 4.60<br>4.90                  | 2.76<br>2.94         | 2.07<br>2.21 | 1.84<br>1.96         | 6JC6A<br>6JC8          | 3.95<br>3.05          | 2.37         | 1.78<br>1.37   | 1.58                                                                                                            |
| 1\$2A/<br>1\$5        | D187   | 2.55<br>3.40                  | 1.53                 | 1.15                 | 1.02          | 6AH6<br>6AK5/EF95       | 5.20<br>4.75         | 3.12<br>2.85 | 2.34            | 2.08<br>1.90  | 6CW5/EL86            | 2.75<br>5.20                  | 1.65<br>3.12         | 1.24         | 1.10                 | 6JD6<br>6JE6A          | 3.55                  | 2.13         | 1.60<br>6LQ6/0 | 1.42                                                                                                            |
| 114                   |        | 3 85<br>3.85                  | 2.31<br>2.31         | 1.73                 | 1.54<br>1.54  | 6AK6<br>6AL3/EY88       | 2.40                 | 1.42         | 1.28            | 1.14          | 6CY5<br>6CY7         | 4.25                          | 2.55                 | 1.91         | 1.70                 | 6JE8                   | 3.70                  | 2.22         | 1.67           | 1.48                                                                                                            |
| 105                   |        | 3.40                          | 2.04                 | 1.53                 | 1.36          | 6AL5                    | 2.70                 | 1.62         | 1.22            | 1.08          | 6CZ5                 | 4.75                          | 1.83                 | 1.37<br>2.14 | 1.22                 | 6JF6<br>6JH6           | 6.85<br>2.95          | 4.11         | 3.08           | <b>2.74</b><br>1.18                                                                                             |
| 1X2B                  | /1X2A  | 3.70                          | 2.22                 | 1.15                 | 1.02          | 6AL11<br>6AM8A          | 4.75<br>4.05         | 2.85<br>2.43 | 2.14<br>1.82    | 1.90<br>1.62  | 6D10<br>6DA4         | 4.65<br>3.70                  | 2.79<br>2.22         | 2.09<br>1.67 | 1.86<br>1.48         | 6JH8<br>6JM6A          | 5.30<br>4.95          | 3.18         | 2.39<br>2.23   | 2.12                                                                                                            |
| 2AS2                  | 3/2DZ4 | 3.30                          | 2.46                 | 1.85<br>1.49         | 1.64          | 6AN8A<br>6AQ5A          | 4.65<br>2.95         | 2.79         | 2.09            | 1.86          | 6DB5<br>6DC6         | 5.00<br>3.85                  | 3.00                 | 2.25<br>1.73 | 2.00<br>1.54         | 6JN6<br>6JN8           | 4.90                  | 2.94         | 2.21           | 1.96                                                                                                            |
| 2 AV 2<br>2 BN 4/     | A      | 2.85<br>3.55                  | 1.71 2.13            | 1.28                 | 1.14<br>1.42  | 6AQ6<br>6AQ7CT          | 3.25                 | 1.95         | 1.46            | 1.30          | 6DE4<br>6DE6         | 3.25                          | 1.95                 | 1.46         | 1.30                 | 6JT6A                  | 5.40                  | 3.24         | 2.43           | 2.16                                                                                                            |
| 2CY5<br>2655          |        | 4.40                          | 2.64                 | 1.98                 | 1.76          | 6AQ8/ECC8               | 5 3.00               | 1.80         | 1.35            | 1.20          | 6DE7                 | 3.25<br>4.45                  | 1.95 2.67            | 1.46<br>2.00 | 1.30<br>1.78         | 6JS6B<br>6JT8          | 7.30<br>4.00          | 4.38<br>2.40 | 3.29<br>1.80   | 2.92<br>1.60                                                                                                    |
| 2GK5/                 | 2FQ5A  | 4.20                          | 2.52                 | 1.89                 | 1.94          | 6AR5<br>6AR11           | 2.45<br>4.50         | 1.47 2.70    | 1.10<br>2.03    | .98.<br>1.80  | 6DG6GT<br>6DJ8/ECC88 | 3.85                          | 2.31                 | 1.73         | 1.54<br>1.51         | 6JU8A<br>6JW8/ECF8     | 3.85                  | 2.31         | 1.73           | 1.54<br>1.24                                                                                                    |
| 2NQ5<br>3A3B          |        | 3.85<br>3.20                  | 2.31                 | 1.73                 | 1.54<br>1.28  | 6AS5<br>6AS8            | 3.75<br>4.85         | 2.25         | 1.69            | 1.50<br>1.94  | 6DK6<br>6DL5/EL95    | 2.95                          | 1.77                 | 1.33         | 1.18                 | 6JZ8                   | 3.55                  | 2.13         | 1.60           | 1.42                                                                                                            |
| 3854A<br>3815         | /3DZ4  | 4.10                          | 2.46                 | 1.85<br>1.22         | 1.64<br>1.08  | 6AT6<br>6AT8A           | 2.40 5.20            | 1.44         | 1.08            | .96           | 6DN7                 | 4.60                          | 2.76                 | 2.07         | 1.84                 | 6K6CT<br>6K7           | 3.50<br>5. <b>90</b>  | 2.10         | 1.58           | 1.40                                                                                                            |
| 3AT2<br>3AW2          |        | 3.40<br>3.20                  | 2.04                 | 1.53                 | 1.36          | 6AU4GTA                 | 4.40                 | 2.64         | 1.98            | 1.76          | 6DQ5<br>6DR7         | 7.85<br>4.60                  | 4.71<br>2.76         | 3.53<br>2.07 | 3.14<br>1.84         | 6K11/6Q11<br>6KA8      | 3.80<br>4.50          | 2.28         | 1.71 2.03      | 1.52                                                                                                            |
| 3AU6                  |        | 2.95                          | 1.77                 | 1.33                 | 1.28          | 6AUSCT<br>6AU6A         | 5.20<br>2.65         | 3.12<br>1.59 | 2.34            | 2.08<br>1.06  | 6DS4<br>6DS5         | 4.90<br>3.65                  | 2.94<br>2.19         | 2.21<br>1.64 | 1.96<br>1.46         | 6KD6<br>6KE8           | 8.50<br>5.65          | 5.10<br>3.39 | 3.83<br>2.54   | 3.40<br>2.26                                                                                                    |
| 38C5<br>38N6          |        | 2. <b>95</b><br>4. <b>7</b> 5 | 1.77<br>2.85         | 1.33                 | 1.18          | 6AU8A<br>6AV5CA         | 5.20<br>5.20         | 3.12<br>3.12 | 2.33<br>2.34    | 2.08<br>2.08  | 6DT5<br>6DT6A        | 3.55                          | 2.13                 | 1.60         | 1.42                 | 6KM6                   | 8 20                  | 4.92         | 3.69           | 3.28                                                                                                            |
| 3BU8/<br>3BZ6         | 3628   | 4.90<br>3.30                  | 2.94                 | 2.21                 | 1.96          | 6AV6<br>6AW8A           | 1.95                 | 1.17         | .88             | .78           | 6DT8                 | 3.75                          | 2.25                 | 1.22         | 1.08                 | 6KT6<br>6KT8           | 3.30<br>4.90          | 1.98<br>2.94 | 1.49           | 1.32                                                                                                            |
| 3ÇA3                  | -      | 3.20                          | 1.92                 | 1.44                 | 1.28          | 6AX3                    | 2.90                 | 1.74         | 1,31            | 1.16          | 6DW4B<br>6DX8/ECL84  | 3.50<br>2.90                  | 2.10<br>1.74         | 1.58<br>1.31 | 1.40<br>1.16         | 6KV8<br>6KY8A          | 5.85<br>7.25          | 3.51<br>4.35 | 2.63<br>3.26   | 2.34<br>2.91                                                                                                    |
| 3CB6/<br>3CS6         | 36136  | 2.95<br>3.70                  | 1.77                 | 1.33<br>1.67         | 1.18<br>1.48  | 6AX4GTB<br>6AX5GT       | 3.40<br>3.85         | 2.04<br>2.31 | 1.53<br>1.73    | 1.36          | 6DZ4<br>6E5          | 4.10                          | 2.46                 | 1.85         | 1.64                 | 6KZ8                   | 3.70                  | 2.22         | 1.67           | 1.48                                                                                                            |
| 3CY5<br>3C9G4         |        | 3.90<br>5.20                  | 2.34                 | 1.76                 | 1.56 2.08     | 6AY3B<br>6AZ8           | 3.40                 | 2.04         | 1.53            | 1.36          | 6EA7<br>6EA8         | 5.70                          | 3.42                 | 2.57         | 2.28                 | 6L6<br>6L6CC           | . 9.65                | 5.79         | 4.34           | 3.86                                                                                                            |
| 300K6<br>300T6A       |        | 2 95 3.25                     | 1.79                 | 1.33                 | 1.18          | 6B10<br>6BA6/EF93       | 3.80                 | 2.28         | 1.71            | 1.52          | 6EB8                 | 3.55                          | 2.13<br>3.03         | 1.60<br>2.27 | 1.42                 | 6LB6<br>6L7            | 8.60<br>6. <b>9</b> 5 | 5.16<br>4.17 | 3.87<br>3.13   | 3.44<br>2.78                                                                                                    |
| 3ĠK5                  | /3HA5  | 4.20                          | 2.52                 | 1.89                 | 1.68          | 6BA7                    | 2.70<br>5.85         | 1.62<br>3.51 | 1.22<br>2.63    | 1.08          | 6EH4A<br>6EH7/EF183  | 8.20<br>3.85                  | 4.92<br>2.31         | 3.69<br>1.73 | 3.28<br>1.54         | 6LE8<br>6LF8           | 6.20<br>4.65          | 3.72         | 2.79<br>2.09   | 2.48<br>1.86                                                                                                    |
| 31105                 | -      | 3.85<br>5.25                  | 2.31<br>3.15         | 1.73                 | 1.54<br>2.10  | 68A8A<br>68A11          | 4.65<br>4.45         | 2.79<br>2.67 | 2.09            | 1.86<br>1.78  | 6EJ7/EF184<br>6EM5   | 3.55<br>4.00                  | 2.13<br>2.40         | 1.60<br>1.80 | 1.42                 | 6LJ8<br>6LN8/LCF80     | 4.10                  | 2.46         | 1.85           | 1.64                                                                                                            |
| 3JC6A<br>3V4          |        | 4.40                          | 2.64                 | 1.98<br>1. <b>69</b> | 1.76<br>1.50  | 6BC5/6CE5<br>6BC7       | 3.25                 | 1.95         | 1.46            | 1.30          | 6EM7<br>6ER5         | 5.70<br>4.20                  | 3.42                 | 2.57         | 2.28                 | 6LQ6/6JE6C             |                       | 5.10         | 3.83           | 3.40                                                                                                            |
| 48U6<br>48C8          |        | 3.40<br>4.00                  | 2.04                 | 1.53                 | 1.36          | 6BC8/6BZ8<br>6BE3/6BZ3  | 4.45                 | 2.67         | 2.00            | 1.78          | 6ESS                 | 2.85                          | 1.71                 | 1.28         | 1.68                 | 6LQ8<br>6LT8           | 3.50                  | 3.33<br>2.10 | 2.50<br>1.58   | 2.22<br>1.40                                                                                                    |
| 4807A                 | 46.50  | +1.90<br>4.45                 | 2.94                 | 2.21                 | 1.96          | 6BE6                    | 3.10                 | 1.86         | 1.69<br>1.40    | 1.50          | 6ES8 ECC18<br>6EU7   | 3.60                          | 3.27 2.16            | 2.45         | 2.18<br>1.44         | 6LU8<br>6LX8/LCF80     | 4.75                  | 2.85         | 2,14           | 1.90<br>1.04                                                                                                    |
| 48Z€                  | 4038   | 2.95                          | 1.77                 | 1.33                 | 1.78<br>1.18  | 6BF5<br>6BF6            | 3,35<br>2.85         | 2.01<br>1.71 | 1.51            | 1.34          | 6EU8<br>6EV5         | 3.70<br>3.55                  | 2.22                 | 1.67         | 1.48                 | 6LY8<br>6MD8           | 3,90                  | 2.34         | 1.76           | 1.56                                                                                                            |
| 48 Z 7<br>4 Ç B 6     |        | ·1.90<br>2.85                 | 2.94<br>1.71         | 2.21                 | 1.96<br>1.14  | 6BC6C<br>6BH6           | 6.45<br>3.60         | 3.87         | 2.90            | 2.58<br>1.44  | 6EW6<br>6EW7         | 3.00                          | 1.80<br>3.60         | 1.35         | 1.20 2.40            | 6ME8                   | 5.05                  | 3.03         | 2.27           | 2.02                                                                                                            |
| 4CS6<br>4DT6A         |        | 3 40<br>3 25                  | 2.04                 | 1.53                 | 1.36<br>1.30  | 6BH8<br>6BH11           | 4.60<br>4.70         | 2.76         | 2.07            | 1.84          | 6F5<br>6F6           | 5.85                          | 3.51 3.69            | 2.63         | 2.34                 | 6N7<br>6Q7             | 5.90                  | 3.03<br>3.54 | 2.27<br>2.66   | 2.02                                                                                                            |
| 4EH7/L                |        | 3.55<br>3.55                  | 2.13                 | 1.60                 | 1.42          | 6BJ6<br>6BJ7            | 3.60                 | 2.16         | 1.62            | 1.44          | 6FD7                 | 5.70                          | 3.42                 | 2.57         | 2.46                 | 654A<br>65A7           | 3.40<br>5.90          | 2.04<br>3.54 | 1.53<br>2.66   | 1.36 2.36                                                                                                       |
| 46K5                  |        | 3.90                          | 2.34                 | 1.76                 | 1.56          | 6BJ8                    | 4.45                 | 1.77 2.67    | 1.33            | 1.18          | 6FG7<br>6FH5         | 4.15<br>4.55                  | 2.49<br>2.73         | 1.87<br>2.05 | 1.66<br>1.82         | 6SC7<br>6SF5           | 5.35<br>5.00          | 3.21<br>3.00 | 2.41<br>2.25   | 2.14<br>2.00                                                                                                    |
| 4 M S8                |        | 3.70                          | 1.32                 | .99<br>1.67          | .88<br>1.48   | 68K4C<br>68K5           | 7 55<br>3.50         | 4.53         | 3.40<br>1.58    | 3.00<br>1.40  | 6FJ7<br>6FM7         | 4.15<br>3. <b>9</b> 0         | 2.49<br>2.34         | 1.87<br>1.76 | 1.66                 | 65G7<br>65H7           | 5.60                  | 3.36         | 2.52           | 2.24                                                                                                            |
| 48C6A<br>48D6         |        | 4.60<br>4.60                  | 2.76<br>2.76         | 2.07<br>2.07         | 1.84<br>1.84  | 6BK7B<br>6BL7CTA        | 4.45<br>5.60         | 2.67<br>3.36 | 2.00<br>2.52    | 1.78<br>2.24  | 6FM8<br>6FQ5A        | 2.85<br>See 6                 | 1.71<br>GK5          | 1.28         | 1,14                 | 6SJ7                   | 4.90                  | 2.94         | 2.21           | 2.46                                                                                                            |
| 4668<br>46, J8        |        | 6.05                          | 3.63<br>2.46         | 2.72<br>1.85         | 2.42<br>1.64  | 6BL8/ECF80<br>6BM8/ECL8 | 2.70                 | 1.62         | 1.22            | 1.08          | 6FQ7/6CG7            | 2.45                          | 1.47                 | 1.10         | .98                  | 65K7<br>65K7CT         | 5.00<br>5.50          | 3.00<br>3.30 | 2.25<br>2.48   | 2.00<br>2.20                                                                                                    |
| 5AM8<br>5AN8          |        | 4 <b>9</b> 0<br>5.20          | 2.94                 | 2.21 2.34            | 3.96<br>2.08  | 6BN4A                   | 4.00                 | 2.40         | 1.80            | 1.60          | 6FS5<br>6FV6         | 4.10                          | 2.46<br>2.67         | 1.85         | 1.64<br>1.78         | 6SL7GT<br>6SN7GTB      | 4.40<br>3.55          | 2.64<br>2.13 | 1.98<br>1.60   | 1.76<br>1.42                                                                                                    |
| 5AQ5                  | C734   | 2.95                          | 1.77                 | 1.33                 | 1.18          | 6BN6/6KS6<br>6BN8       | 4.10 3.70            | 2.46<br>2.22 | 1.85<br>1.67    | 1.64<br>1.48  | 6FV8A<br>6FY5/EC97   | 4. <b>70</b><br>2. <b>7</b> 5 | 2.82                 | 2.12         | 1.88<br>1.10         | 65Q7<br>6T8A           | 4.95                  | 2.97 2.61    | 2.23           | 1.98                                                                                                            |
| SAR4/<br>SAS4A        |        | 4.25<br>3.45                  | 2.55<br>2.07         | 1.91                 | 1.70          | 6BN11<br>6BQ5/EL84      | 4.50<br>3.55         | 2.70<br>2.13 | 2.03<br>1.60    | 1.80<br>1.42  | 6FY7<br>6GB5/EL500   | 3.50                          | 2.10                 | 1.58         | 1.40                 | 6T10<br>6U8A/6KD8      | 4.65                  | 2.79         | 2.09           | 1.86                                                                                                            |
| 5AT8<br>588           |        | 4.45                          | 2.67<br>3.30         | 2.00 2.48            | 1.78          | 6BQ6/6CU6<br>6BQ7A      | 4.90                 | 2.94         | 2.21            | 1.96          | 6GC5                 | 5.00                          | 3.00                 | 2.25         | 2.00                 | 6010                   | 3.80                  | 2.28         | 1.55           | 1.38                                                                                                            |
| 5BC3A<br>5BK7A        |        | 3 40                          | 2.04                 | 1.53                 | 1.36          | 6BR8A                   | 4.55                 | 2.73         | 2.05            | 1.82<br>1.88  | 6GE5<br>6GH8A        | 4.55<br>3.20                  | 2.73<br>1.92         | 2.05<br>1.44 | 1.82<br>1.28         | 6V6<br>6V6CTA          | 6.80<br>3.75          | 4.08         | 3.06           | 2.72                                                                                                            |
| 58R8                  |        | 4.15                          | 2.94                 | 2.21                 | 1.96          | 6BS3A<br>6BS8           | 3.70<br>4.90         | 2.22         | 1.67<br>2.21    | 1.48<br>1.96  | 6GJ5A<br>6GJ7/ECF80  | 6.15<br>1 3.10                | 3.69<br>1.86         | 2.77<br>1.40 | 2.46<br>1.24         | 6W4CT<br>6W6CT         | 3.30                  | 1.98         | 1.49           | 1.32                                                                                                            |
| 5818<br>5008          |        | 3,10<br>3,70                  | 1.86<br>2.22         | 1.40<br>1.67         | 1.24<br>1.48  | 6BU8<br>6BV8            | 4.55<br>3.30         | 2.73<br>1.98 | 2.05<br>1.49    | 1.82<br>1.32  | 6GK5/6FQ54<br>6GK6   | 4.15                          | 2.49 2.04            | 1.87         | 1.66                 | 6X4                    | 2.75                  | 1.65         | 1.24           | 1.10                                                                                                            |
| 5CL8A<br>5EA8         |        | 4. <b>9</b> 0<br>5. <b>05</b> | 2.94<br>3.03         | 2.21<br>2.27         | 1.96<br>2.02  | 68W4<br>68W8            | 2.75                 | 1.65         | 1.24            | 1.10          | 6GL7<br>6GM6         | 5.80<br>3.25                  | 3.48                 | 2.61         | 2.32                 | 6X5CT<br>6X8A          | 3.30                  | 1.98         | 1.49           | 1.32                                                                                                            |
| 5618<br>5EW6          |        | 4.00<br>3 <b>4</b> 0          | 2.40                 | 1.80                 | 1.60          | 6BX7CT<br>6BY6          | 5.90<br>3.40         | 3.54<br>2.04 | 2.66            | 2.36          | 6GN8                 | -1 60                         | 2.76                 | 2.07         | 1.30                 | 6X9/ECF200<br>6Y6CA    | 4.95                  | 1.74<br>2.97 | 1.31 2.23      | 1.16                                                                                                            |
| 58G7                  |        | 4.05                          | 2.43                 | 1.82                 | 1.62          | 68Y8<br>68Z6            | 2.70                 | 1.62         | 1.22            | 1.08          | 6GT5A<br>6GU7        | 6 <b>.3</b> 5<br>3.70         | 3.81                 | 2.86         | 2.54<br>1.48         | 6Z10/6J10<br>7AU7      | 5.50<br>3.10          | 3.30<br>1.86 | 2.48<br>1.40   | 2.20<br>1.24                                                                                                    |
| 5CH8A                 | CF801  | 2.95                          | 2.76                 | 2.07                 | 1.84          | 6BZ7                    | ·2.70<br>4.45        | 1.62         | 1.22            | 1.08<br>1.78  | 6GV5<br>6GW6/6DQ6    | 4.15<br><b>B</b> 4.65         | 2.49<br>2.79         | 1.87<br>2.09 | 1.66                 | 7C5<br>7F7             | 3.35<br>7.50          | 2.01 4.50    | 1.51<br>3.38   | 1.34                                                                                                            |
| 5GM6                  |        | 3.25                          | 1.9 <b>5</b><br>2.31 | 1.46<br>1.73         | 1.30<br>1.54  | 6C4<br>6C5              | 2.95<br>5.35         | 1.77<br>3.21 | 1.33<br>2.41    | 1.18<br>2.14  | 6GW8/ECL8            | <b>5</b> 3.05<br>3.20         | 1.83<br>1.92         | 1.37<br>1.44 | 1.22                 | 7F8<br>7N7             | 8.25                  | 4.95<br>4.26 | 3.71<br>3.20   | 3.30                                                                                                            |
| 53L6<br>5KD8          |        | 3.85<br>2.50                  | 2.31                 | 1.73<br>1.13         | 1.54          | 6C9<br>6CA4             | 5.50                 | 3.30         | 2.48            | 2.20          | 6CX7<br>6CY5         | 4.00                          | 2.40                 | 1.80         | 1.60                 | 8AR11<br>8AW8A         | 4.35                  | 2.61         | 1.96           | 2.84                                                                                                            |
| 5KE8<br>5LJ8          |        | 5 80<br>4 10                  | 3.48<br>2.46         | 2.61                 | 2.32          | 6CA5<br>6CA7/EL34       | 3.25<br>3.00<br>5.35 | 1.80<br>3.21 | 1.35            | 1.20 2.14     | 6GY6                 | 2.90                          | 1.74                 | 1.31         | 1.84                 | 8B10                   | 4.85<br>3.50          | 2.91<br>2.10 | 2.18           | 1.94<br>1.40                                                                                                    |
| 5 <b>1</b> 8<br>5U4GB |        | 4.45                          | 2.67                 | 2.00                 | 1.78          | 6CB5A<br>6CB6A 6CF6     | 5.35                 | 5.61         | 4.21            | 3.74          | 6GY8<br>6H6          | 3.90<br>5.30                  | 2.34<br>3.18         | 1.76         | 1.56<br>2.12         | 88A11<br>88Q5          | 4.15                  | 2.49<br>2.25 | 1.87<br>1.69   | 1.66<br>1.50                                                                                                    |
| 5U8                   |        | 4.25                          | 1.65<br>2.55<br>1.77 | 1.24                 | 1.10<br>1.70  | 6CD6GA                  | 6.20                 | 1.71<br>3.72 | 1.28<br>2.79    | 1.14 2.48     | 6HB6/6HA6<br>6HB7    | 4.45<br>4.00                  | 2.67<br>2.40         | 2.00<br>1.80 | 1.78                 | 88011<br>88011         | 4.30 5.00             | 2.58         | 1.94 2.25      | 1.72                                                                                                            |
| 5U9/L0<br>5V3A/       | 5AU4   | 2.95<br>3 80                  | 2.28                 | 1.33                 | 1.18<br>1.52  | 6CC3/6CD3<br>6CC8A      | 3.70<br>3.85         | 2.22 2.31    | 1.67<br>1.73    | 1.48<br>1.54  | 6HES<br>6HES         | 4.20 8.05                     | 2.52 4.83            | 1.89         | 1.68                 | 8CS7                   | 4.00                  | 2.40         | 1.80           | 1.60                                                                                                            |
| 5¥4GA                 | L      | 4 30<br>3.70                  | 2.58                 | 1.94<br>1.67         | 1.72          | 6CH8<br>6CJ3/6CH3       | 5.60<br>3.60         | 3.36         | 2.52            | 2.24          | 6HF8<br>6HG5         | 5.30                          | 3.18                 | 2.39         | 2.12                 | 8CW5/XL86<br>8FQ7/8CG7 | 2.55                  | 1.53         | 1.15           | 1.02                                                                                                            |
| 588<br>593GT          |        | 415                           | 2.49                 | 1.87                 | 1.66          | 6CK3                    | 3.70                 | 2.22         | 1.67            | 1.48          | 6HG8/ECF86           |                               | 1.77                 | 1.33         | 1.18<br>1.48         | 8JU8A<br>8JV8          | 3.35<br>4.30          | 2.01<br>2.58 | 1.51<br>1.94   | 1.34<br>1.72                                                                                                    |
| 5¥4GT                 |        | 2.60                          | 2.04                 | 1.17                 | 1.36          | 6CK4<br>6CL3            | 3.55<br>3.50         | 2.13         | 1.60<br>1.58    | 1.42<br>1.40  | 6HJ8<br>6HL8         | 3.10<br>3.05                  | 1.86<br>1.83         | 1.40<br>1.37 | 1.24<br>1.22<br>1.54 | 8KA8<br>8LC8           | 4.65 4.75             | 2.79         | 2.09           | 1.86                                                                                                            |
| 523<br>6AB4           |        | 4.45                          | 2.67                 | 2.00                 | 1.78<br>1.44  | 6CL6<br>6CL8A           | 4.15<br>4.15         | 2.49<br>2.49 | 1.87<br>1.87    | 1.66<br>1.66  | 6HM5/6HA5<br>6HQ5    | 3.85                          | 2.31 2.70            | 1.73         | 1.54                 | 8LT8<br>9A8/PCF80      | 3.25<br>2.65          | 1.95         | 1.46           | 1.30                                                                                                            |
| 6AC7<br>6AC10         |        | 5.75<br>4.25                  | 3.45<br>2.55         | 2.59<br>1.91         | 2.30          | 6CM6<br>6CM7            | 3.85<br>3.60         | 2.31<br>2.16 | 1.73            | 1.54<br>1.44  | 6HS5<br>6HS6         | 4 <b>.5</b> 0<br>7.75<br>3.70 | 4.65<br>2.22<br>2.58 | 3.49         | 3.10                 | 9AU7                   | 2.95                  | 1.77         |                | 1.06                                                                                                            |
| 6AD10                 |        | 7.10                          | 4.26                 | 3.20                 | 2.84          | 6CM8                    | 4.05                 | 2.43         | 1.82            | 1.62          | 6H58                 | 4.30                          | 2.58                 | 1.94         | 1.48<br>1.72         | 9BJ11<br>10CW5/LL86    | 4.80<br>2.55          | 2.88         | 2.16           | 1.92                                                                                                            |
| 94                    |        |                               |                      |                      |               | Ontional                |                      |              |                 |               |                      |                               |                      |              |                      |                        |                       |              |                | the second se |

NOTE: Optional List Prices Above are those suggested by the Manufacturer

| Tube Optional Net Nct 50 or   Tube O                                                                                                                                                                                                          | ptional Net Net 50 or                                                                                                                                   | Tube Optional Net                                                                                                        | Net 50 or                            | Tube                            |                                            | let 50 or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type         List         1-5         6-49         Over         Type           10DE7         \$4.45         \$2.67         \$2.00         \$1.78         12BF6                                                                                | List 1-5 6-49 Over<br>\$2.35 \$1.41 \$1.06 \$0.94                                                                                                       | 13Z10/13J10 5.55 3.33                                                                                                    | 6-49 Over<br>2.50 2.22               | Type<br>25BQ6CTB/               | /                                          | -49 Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 10DX8/         12BH7A           LCL84         2.75         1.65         1.24         1.10         12BK5           10EC7         4.35         2.61         1.96         1.74         12BL6                                                     | 3.50     2.10     1.58     1.40       3.75     2.25     1.69     1.50       3.70     2.22     1.67     1.48                                             | 14BL115.803.4814BR115.303.1815BD11A5.503.30                                                                              | 2.61 2.32<br>2.39 2.12<br>2.48 2.20  | 25CU6<br>25C5<br>25CD6CB        |                                            | 1.98 \$1.76<br>1.49 1.32<br>2.88 2.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 10CF7A 4.75 2.85 2.14 1.90 12806CTB/<br>10CK6 3.45 2.07 1.55 1.38 12CU6                                                                                                                                                                       | 4.45 2.67 2.00 1.78                                                                                                                                     | 15CW5/PL84 2.45 1.47<br>15KY8A 5.80 3.48                                                                                 | 1.10 .98<br>2.61 2.32                | 25DN6<br>25EH5                  | 6.60 <b>3.96</b><br>3.70 <b>2.22</b>       | 2.97 2.64<br>1.67 1.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 10CN8 4.45 2.67 2.00 1.78 12BR7<br>10HF8 5.35 3.21 2.41 2.14 12BY7A<br>10JA8 4.15 2.49 1.87 1.66 12CA5                                                                                                                                        | 3.05 <b>1.83 1.37 1.22</b><br>3.20 <b>1.92 1.44 1.28</b><br>3.95 <b>2.37 1.78 1.58</b>                                                                  | 16AQ3/XY882.701.6217AX4CTA3.702.2217AY3A3.402.04                                                                         | 1.22 1.08<br>1.67 1.48<br>1.53 1.36  | 25L6CT<br>25Z6CT<br>27CB5/      |                                            | 1.67 1.48<br>1.73 1.54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 10JT8 405 2.43 1.82 1.62 12CU5/12C5<br>10JY8 3.65 2.19 1.64 1.46 12DB5                                                                                                                                                                        | 3.90 2.34 1.76 1.56<br>2.60 1.56 1.17 1.04                                                                                                              | 17BE3/<br>17BZ3 3.20 1.92                                                                                                | 1.44 1.28                            | PL500<br>33CY7A                 | 6.05 <b>3.63</b>                           | 1.67 1.48<br>2.72 2.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 10KU8         4.85         2.91         2.18         1.94         12DS7           11AR11         4.10         2.46         1.85         1.64         12DT5                                                                                    | 5.40 <b>3.24 2.43 2.16</b><br>3.10 <b>1.86 1.40 1.24</b>                                                                                                | 17BF11 4.70 2.82<br>17BS3A/<br>17DW4A 3.40 2.04                                                                          | 2.12 1.88<br>1.53 1.36               | 35C5<br>35EH5<br>35L6CT ~       | 3.40 2.04                                  | 1.33 1.18<br>1.53 1.36<br>1.73 1.54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11BQ11         4.10         2.46         1.85         1.64         12DT8           11BT11         6.50         3.90         2.93         2.60         12EK6           11KV8         5.90         3.54         2.66         2.36         12FX5 | 4.00 2.40 1.80 1.60<br>3.55 2.13 1.60 1.42<br>3.25 1.95 1.46 1.30                                                                                       | 17DW4A3.402.0417C97.154.2917CK33.552.13                                                                                  | 3.22 2.86<br>1.60 1.42               | 35W4<br>35Y4                    | 1.65 .99<br>4.50 <b>2.70</b>               | . <b>74</b> .66<br>2.03 1.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 11LQ8 5.90 3.54 2.66 2.36 12CE5<br>12AB5 3.85 2.31 1.73 1.54 12CN7A                                                                                                                                                                           | 4.50 <b>2.70 2.03 1.80</b><br>5.10 <b>3.06 2.30 2.04</b>                                                                                                | 17CU5/17C5 3.10 1.86<br>17D4 4.05 2.43                                                                                   | 1.40 1.24<br>1.82 1.62               | 35Z5CT<br>36AM3B<br>38HE7       | 2.55 1.53                                  | 1.22 1.08<br>1.15 1.02<br>3.00 2.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 12AD6         3.50         2.10         1.58         1.40         12CW6/           12AE6A         3.10         1.86         1.40         1.24         12DQ6B           12AF3         4.25         2.55         1.91         1.70         12H6 | 4.95 <b>2.97 2.23 1.98</b><br>4.45 <b>2.67 2.00 1.78</b>                                                                                                | 17DE4 3.65 2.19<br>17DM4A 4.05 2.43<br>17EW8/                                                                            | 1.64 1.46<br>1.82 1.62               | 38HK7<br>50B5                   | 6.55 <b>3.93</b><br>2.95 <b>1.77</b>       | 2.95 2.62<br>1.33 1.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 12AF6 3.15 1.89 1.42 1.26 12HC7<br>12AL5 2.75 1.65 1.24 1.10 12JB6A                                                                                                                                                                           | 5.10 <b>3.06 2.30 2.04</b><br>6.20 <b>3.72 2.79 2.48</b>                                                                                                | HCC85 2.75 1.65<br>17GT5A 5.55 3.33                                                                                      | 1.24 1.10<br>2.50 2.22               | 50C5<br>50DC4                   | 2.40 1.44                                  | 1.15 1.02<br>1.08 .96<br>1.35 1.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 12AQ5 3.50 2.10 1.58 1.40 12L6CT<br>12AT6 2.75 1.65 1.24 1.10 12MD8<br>12AT7/ 12SA7                                                                                                                                                           | 3.55         2.13         1.60         1.42           4.85         2.91         2.18         1.94           5.90         3.54         2.66         2.36 | 17GW6/<br>17DQ6B 5.25 3.15<br>17JB6A 5.50 3.30                                                                           | 2.36 2.10<br>2.48 2.20               | 50EH5<br>50HK6<br>50L6CT        | 2,15 1.29                                  | .97 .86<br>1.80 1.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ECC81 3.20 1.92 1.44 1.28 12SC7<br>12AU6 2.90 1.74 1.31 1.16 12SJ7                                                                                                                                                                            | 4.70 <b>2.82 2.12 1.88</b><br>4.30 <b>2.58 1.94 1.72</b>                                                                                                | 17JM6A 4.95 2.97<br>17JN6 3.90 2.34                                                                                      | 2.23 1.98<br>1.76 1.56               | 60FX5<br>117L7/                 |                                            | 1.33 1.18<br>6.64 5.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 12AU7A/<br>ECC82 2.75 1.65 1.24 1.10 125K7CT<br>12AV5CA 5.45 3.27 2.45 2.18 125L7CT                                                                                                                                                           | 5.30 <b>3.18 2.39 2.12</b><br>4.45 <b>2.67 2.00 1.78</b><br>4.95 <b>2.97 2.23 1.98</b>                                                                  | 17JZ83.552.1318FX6A2.951.7719AU4GTA4.352.61                                                                              | 1.60 1.42<br>1.33 1.18<br>1.96 1.74  | M7CT<br>5879<br>5881            | 5,00 <b>3.00</b>                           | 2.25 2.00<br>2.34 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 12AV6 1.95 1.17 .88 .78 12SN7CTA<br>12AV7 4.15 2.49 1.87 1.66 12SQ7                                                                                                                                                                           | 3.85 2.31 1.73 1.54<br>4.95 2.97 2.23 1.98                                                                                                              | <b>19T8</b> 4.90 <b>2.94</b><br><b>21CY5</b> 4.65 <b>2.79</b>                                                            | 2.21 1.96 2.09 1.86                  | 6973<br>7025                    | 3,10 <b>1.86</b>                           | 2.07 1.84<br>1.40 1.24<br>3.35 2.98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 12AX4CTB 2.95 1.77 1.33 1.18 12V6CT<br>12AX7A/<br>ECC83 2.70 1.62 1.22 1.08 12X4                                                                                                                                                              | 4.45         2.67         2.00         1.78           4.90         2.94         2.21         1.96           2.25         1.35         1.01         .90  | 21JZ6         4.85         2.91           21LR8         4.75         2.85           21LU8         4.75         2.85      | 2.18 1.94<br>2.14 1.90<br>2.14 1.90  | 7027A<br>7189<br>7199           | 3.85 2.31                                  | 1.73 1.54<br>2.21 1.96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 12AY3A 2.90 1.74 1.31 1.16 13DE7<br>12AY7 5.70 3.42 2.57 2.28 13DR7                                                                                                                                                                           | 4.75 <b>2.85 2.14 1.90</b><br>5.30 <b>3.18 2.39 2.12</b>                                                                                                | <b>22BW3</b> 3.40 <b>2.04</b><br><b>22DE4</b> 4.20 <b>2.52</b>                                                           | 1.53 1.36<br>1.89 1.68               | 7247<br>7355                    | 3,65 2.19                                  | 1.44 1.28<br>1.64 1.46<br>1.51 1.34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 12AZ7A 3.70 2.22 1.67 1.48 13EM7/<br>12B4A 3.50 2.10 1.58 1.40 15EA7<br>12BA6 2.10 1.26 .95 .84 13FD7                                                                                                                                         | 5.85 <b>3.51 2.63 2.34</b><br>5.30 <b>3.18 2.39 2.12</b>                                                                                                | 22JF6         6.85         4.11           22JC6A         6.20         3.72           22JU6         6.35         3.81     | 3.08 2.74<br>2.79 2.48<br>2.86 2.54  | 7408<br>7581A<br>7591A          | 4.55 2.73                                  | 2.05 1.82<br>1.26 1.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 12BD6 2.35 1.41 1.06 .94 13FM7<br>12BE6 2.55 1.53 1.15 1.02 13CF7A                                                                                                                                                                            | 3.40 <b>2.04 1.53 1.36</b><br>4.70 <b>2.82 2.12 1.88</b>                                                                                                | <b>23Z9</b> 4.70 <b>2.82 24JE6A</b> 8.50 <b>5.10</b>                                                                     | 2.12 1.88<br>3.83 3.40               | 7868<br>8417                    | 4.75 <b>2.85</b><br>5.65 <b>3.39</b>       | 2.14 1.90<br>2.54 2.26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                               | RCA HI-LITE RARE EARTH                                                                                                                                  |                                                                                                                          | RCA C                                | OLORAM                          | A PICTURE '                                | TUBES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                               | Stock           No.         Type           6A2511         H15LP22                                                                                       | Wt.         Bulb         Net           Lbs.         Allowance         Each           17         \$20.00         \$106.41 | Stock<br>No.                         | Туре                            | Wt. Bulb<br>Lbs. Allowance                 | and the second se |
| TV                                                                                                                                                                                                                                            | 6A2512 H15NP22<br>19EXP22 Use H1                                                                                                                        | 17 20.00 102.56                                                                                                          | 6A2519 C                             | 15LP22<br>15NP22<br>19GVP22/    | 17 \$20.00<br>17 20.00                     | \$91.96<br>89.38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| TUBES                                                                                                                                                                                                                                         | 19EYP22 Use H1<br>6A2500 H19GVP22                                                                                                                       | 28 25.00 <b>117.95</b>                                                                                                   | 6A2521 C                             | 9EXP22<br>19GWP22/              | 28 25.00                                   | 99.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                               | 6A2501 H19GWP22<br>19GXP22 Use H<br>19GYP22 Use H                                                                                                       | 32 25,00 <b>127.56</b><br>19GVP22                                                                                        | 1                                    | 9EYP22<br>9GXP22 Use            | 32 25.00<br>C19GVP22/19EX<br>C19GVP22/19EX | 106.73<br>P22<br>P22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| HI-LITE<br>ALL-NEW COLOR TY                                                                                                                                                                                                                   | 1967F22 Use H<br>196ZP22 Use H<br>6A2513 H19HNP22                                                                                                       | 19GWP22<br>30 25.00 <b>158.65</b>                                                                                        | 1                                    | 9GZP22 Use<br>1FKP22 Use        | C19GWP22/19E<br>C21GVP22/21FJF             | YP22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                               | 21FBP22 Use H2<br>21FJP22 Use H2                                                                                                                        | LIGUP22                                                                                                                  | 2                                    | 21GUP22/<br>1FBP22A<br>21GVP22/ | 48 17.50                                   | 79.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                               | 21FKP22 Use H2<br>6A2502 H21GUP22                                                                                                                       | 48 17.50 <b>98.08</b>                                                                                                    | 2                                    | 1FJP22A<br>22JP22               | 52 17.50<br>50 25.00                       | 84.85<br>119.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                               | 6A2503 H21GVP22<br>6A2514 H22JP22<br>6A2515 H22KP22                                                                                                     | 52         17.50         104.49           50         25.00         151.29           50         30.00         151.29      | 6A2508 C                             | 22KP22<br>23EGP22A<br>25XP22/   | 50 30.00<br>50 15.00                       | 117.88<br>177.69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| B-A Full 12 Month Warranty, Hi-Lite tubes con-<br>tain all new parts and materials. Colorama tubes                                                                                                                                            | 6A2515 H22KP22<br>6A2516 H22UP22<br>25AP22 Use H2                                                                                                       | 50 30.00 168.39                                                                                                          | 6A2510 C                             | 5AP22A<br>25YP22/               | 52 30.00                                   | 96.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| contain used materials, carefully inspected to meet<br>high quality standards. Silverama tubes contain all<br>new materials except for the envelope which is                                                                                  | 25ABP22 Use H.<br>6A2517 H25AJP22                                                                                                                       | 25XP22<br>48 30.00 175.64                                                                                                |                                      |                                 | 48 30.00<br>IIDE TYPES                     | 91.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| carefully inspected prior to reuse to meet the<br>standard of the original. Shipped express or truck.                                                                                                                                         | 6A2504 H25XP22<br>6A2505 H25YP22                                                                                                                        | 52         30.00         139.10           48         30.00         132.69                                                | 6A2507 C                             |                                 | 48 \$17.50<br>52 17.50                     | 79.49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RCA BLACK & WHITE SILVER                                                                                                                                                                                                                      |                                                                                                                                                         | RCA BLACK                                                                                                                | Wt. Net                              | E SILVE                         |                                            | Wt. Net                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Stk.         Wt.         Net         Stk.           No.         Type         Lbs.         Each         No.           6A200         17BJ/AT/AV/CBP4         17         \$22.63         6A206         21AN                                      | Type Lbs. Each                                                                                                                                          | No. Type<br>6A212 21YP4B                                                                                                 | Lbs. Each<br>31 \$20.25              |                                 | Type<br>EN/ECP4                            | Lbs. Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6A201 17DS/BZ/CK/DLP4 13 25.00<br>6A202 19AV/BW/XP/ZP4 19 31.25<br>6A208 21CE                                                                                                                                                                 | 27 <b>\$21.88</b><br>//AUP4 31 <b>24.69</b>                                                                                                             | 6A213 21ZP4C<br>6A214 23AH/AUP4                                                                                          | 31 <b>\$20.25</b><br>36 <b>38.44</b> | 6A224 23                        | F/K/M/WP4A<br>HF/HXP4A<br>Y/X/TP/BDP4      | 33 <b>37.38</b><br>40 <b>45.38</b><br>33 <b>42.81</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6A203 19AY/AXP4 19 31.25 6A209 21DE<br>6A204 19CX/CQP4 19 31.25 6A211 21DS                                                                                                                                                                    | /CZ/DAP4 26 25.94<br>/CXP4 27 25.94                                                                                                                     | 6A215 23BL/ANP4<br>6A223 23BQ/UP4                                                                                        | 44 <b>42.81</b><br>40 <b>41.56</b>   | 6A220 24/<br>6A221 24/          | AE/AN/DP/ZP4                               | 39       27.25         39       39.25         39       27.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 6A205 19DQ/DW/EWP4 19 34.13 6A210 21EN<br>B-A TV PICTU                                                                                                                                                                                        |                                                                                                                                                         | 6A216 23C/BN/HP4<br>B-                                                                                                   | A BLACK AN                           |                                 |                                            | 37 61.63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| FULL 12 MONTH                                                                                                                                                                                                                                 |                                                                                                                                                         | Stk. No. Type                                                                                                            | Wt. Net<br>Lbs. Each                 |                                 | Туре                                       | Wt. Net<br>Lbs. Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Black and white tubes contain                                                                                                                                                                                                                 | new materials except for                                                                                                                                | 6A5000 11BP/CP4<br>6A5001 12LP/KP4A<br>6A5002 14AJ/AVP4                                                                  | 6 \$19.87<br>14 16.00<br>14 21.07    | 6A5028                          | 21AV/AUP4B                                 | 27         \$13.95           31         17.29           27         13.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| the envelope which is inspec<br>standards. Color tubes contain                                                                                                                                                                                | used materials carefully                                                                                                                                | 6A5003 14HP, QP4<br>6A5004 16AU BDP4                                                                                     | 14 <b>22.97</b><br>14 <b>22.27</b>   | 6A5030<br>6A5031                | 21CE/DFP4<br>21COP4                        | 24 <b>20.00</b><br>24 <b>21.28</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| inspected to meet high quality<br>Shipped freight or express.                                                                                                                                                                                 | standard of original tube.                                                                                                                              | 6A5005 16CP4B<br>6A5006 17BJ/AV/AT/P<br>6A5007 17BP4B/JP4                                                                | 14 20.27<br>4 18 16.00<br>21 16.00   | 6A5033                          | 21DLP4                                     | 24 <b>20.00</b><br>27 <b>20.00</b><br>27 <b>20.00</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RARE EARTH COLOR PICTURE                                                                                                                                                                                                                      | TUBES<br>IIb Allowance Net Each                                                                                                                         | 6A5008 17CK/BR/BZ/P<br>6A5009 17CFP4                                                                                     | 4 13 20.00<br>13 21.27               | 6A5035<br>6A5036                | 21EP48<br>21EO/FAP4                        | 34 <b>20.00</b><br>24 <b>20.00</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6A7508 19EYP22 30 Lbs.                                                                                                                                                                                                                        | \$25.00 <b>\$ 87.50</b>                                                                                                                                 | 6A5010 17CP4<br>6A5011 17DA/DRP4<br>6A5012 17DQP4                                                                        | 13 20.65<br>13 23.93<br>13 20.65     | 6A5039<br>6A5040                | 21WP4A<br>21XP4A                           | 24 <b>20.00</b><br>29 <b>21.28</b><br>29 <b>21.28</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6A7503 21FBP22A 45 Lbs.<br>6A7504 21FJP22A 45 Lbs.                                                                                                                                                                                            | 20.00° <b>59.37</b><br>20.00° <b>76.56</b>                                                                                                              | 6A5013 1/DK/DL/DS/P<br>6A5014 17H/RP4B                                                                                   | 4 13 20.65<br>19 16.75               | 6A5041<br>6A5042                | 21 YP4A<br>21 ZP4B                         | 29 <b>13.95</b><br>29 <b>13.95</b><br>36 <b>30.70</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6A7505 23EGP22A 50 Lbs.<br>6A7506 25AP22A 52 Lbs.                                                                                                                                                                                             | 25.00 <b>107.81</b><br>30.00 <b>84.37</b>                                                                                                               | 6A5015 17L/VP4<br>6A5016 17QP/U/YP4A<br>6A5017 19ABP4                                                                    | 20 17.30<br>20 17.30<br>19 27.30     | 6A5044<br>6A5045                | 23ALP4<br>23AN/BK/ZP4                      | 31 <b>30.70</b><br>44 <b>33.93</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6A7507 25BP22A 52 Lbs.<br>≈\$10.00 Bulb Allowance if you return Sulfide tube.                                                                                                                                                                 | 30.00 <b>83.43</b>                                                                                                                                      | 6A5018 19AF/AUP4<br>6A5020 19AJP4                                                                                        | 25 <b>33.10</b><br>19 <b>26.60</b>   | 6A5046<br>6A5047                | 23AW/BJP4<br>23AV/C/HP4                    | 36         30.70           43         34.20           43         34.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SULPHIDE COLOR PICTURE T<br>Stk. No. Type Weight Net Each Bul                                                                                                                                                                                 | UBES<br>b Allowance Net Exchange                                                                                                                        | 6A5021 19AV/XP/ZP4<br>6A5022 19AY/AX/AH<br>6A5023 19BD/CL/CRP                                                            | P419 26.68<br>4 25 26.60             | 6A5049<br>6A5050                | 23EP4<br>23F/K/M/WP4                       | 43 <b>34.20</b><br>31 <b>30.70</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6A7500 21FBP22 45 Lbs. \$50.00                                                                                                                                                                                                                | \$10.00 <b>\$40.00</b><br>10.00 <b>44.68</b>                                                                                                            | 6A5024 19EHP4<br>6A5025 19EN/DU/EJP                                                                                      | 19 <b>33.65</b><br>4 19 <b>33.65</b> | 6A5051<br>6A5052                | 24AE/ZP/YP4A<br>24AH/ALP4<br>24CP4         | 40 <b>21.33</b><br>34 <b>34.45</b><br>38 <b>21.90</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6A7501 21FJP22 54 Lbs. 54.68                                                                                                                                                                                                                  | 10.00 17.00                                                                                                                                             | 6A5026 20CP4/DP4                                                                                                         | 20 20.00                             |                                 |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

#### SULPHIDE COLOR PICTURE TUBES

| Stk. No. | Туре    | Weight  | Net Each | Bulb Allowance | Net Exchange |
|----------|---------|---------|----------|----------------|--------------|
| 6A7500   | 21FBP22 | 45 Lbs. | \$50.00  | \$10.00        | \$40.00      |
| 6A7501   | 21FJP22 | 54 Lbs. | 54.68    | 10.00          | 44.68        |

Off-The-Shelf Delivery From B-A's Large Electronic Parts Inventory

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BA                                                                                                                                                       | T                                                                                          | <b>FER</b>                                                                    | IE                                                                                  | S                                                                                              |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FRESH BATTERIES FR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OM B-                                                                                                                                                    | A LA                                                                                       | ST LO                                                                         | DNG                                                                                 | ER                                                                                             |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| FABULOUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MA                                                                                                                                                       | LLORY                                                                                      | DURA                                                                          | CELL                                                                                | MERCU                                                                                          | JRY BA                                                                                                        | ATTERIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Stock<br>No.                                                                                                                                             | Mallery<br>No.                                                                             | Replaces<br>Eveready                                                          | User<br>Each                                                                        | Pkg. @<br>Qty. Eac                                                                             |                                                                                                               | Size Inches<br>O.D. H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DURACELL BATTERIES<br>LAST UP TO 5 TIMES LONGER<br>THAN ORDINARY BATTERIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 21 A5010<br>21 A5011<br>21 A5012<br>21 A5013<br>21 A5013<br>21 A5014<br>21 A5015<br>21 A5015<br>21 A5016<br>21 A5017<br>21 A5018<br>21 A5019<br>21 A5020 | RM1<br>RM3R<br>RM4R<br>RM12<br>RM12R<br>RM42<br>RM42R<br>RM401<br>RM401<br>RM502R<br>RM575 | E1<br>E3<br>E4<br>E12<br>E12N<br>E42<br>E42N<br>E400A<br>E400<br>E401<br>E502 | \$0.90<br>1.40<br>1.91<br>1.28<br>1.40<br>4.04<br>4.25<br>.64<br>.72<br>1.28<br>.30 | 4 \$0.6<br>4 1.0<br>4 1.4<br>4 1.4<br>4 1.0<br>2 3.2<br>2 3.3<br>6 .5<br>3 .5<br>4 1.0<br>6 .2 | 8 1.35<br>7 1.35<br>0 1.4<br>8 1.35<br>0 1.4<br>0 1.35<br>0 1.35<br>6 1.4<br>0 1.35<br>6 1.4<br>1.35<br>4 1.4 | 5% x 84<br>1. x 84<br>1.2 x 84<br>5% x 184<br>5% x 184<br>1.2 x 2%<br>1.2 x 2%<br>1.2 x 2%<br>1.2 x 2%<br>1.2 x 1%<br>1.2 x 1%<br>1.2 x 12%<br>1.2 x 12%<br>1.2 x 12%<br>1.2 x 14<br>1.2 x |
| 21A5000       MN       9100       Replaces 904 or NE.       User Each\$0.43       2 @ Ea\$0.33         21A5001       MN       1400       C Size Cell. 935 etc.       User Each\$64       4 @ Ea\$49         21A5002       MN       1500       AA Penlight, 915 etc.       User Each\$51       4 @ Ea\$39         21A5003       MN       1300       D Size Cell. 950 etc.       User Each\$90       4 @ Ea\$63         21A5004       MN       2400       AAA Size. 912 etc.       User Each\$90       4 @ Ea\$63         21A5005       MN       1604       9 Volt Transistor.       User Each\$1.4 @ Ea\$100         21A5006       PX 825       Flashcube #1.       Each43       4 @ Ea\$33         MALLORY RECHARCEABLE ALKALINE BATTERIES | 21A5021<br>21A5022<br>21A5023<br>21A5024<br>21A5025<br>21A5026<br>21A5026<br>21A5028<br>21A5028<br>21A5029                                               | RM625<br>RM625R<br>RM630<br>RM640<br>RM675<br>TR115R<br>TR132R<br>TR133<br>TR133R          | E625<br>E625N<br>E630<br>E640<br>E675<br>E115N<br>E132N<br>E133<br>E133N      | .51<br>.72<br>.64<br>.55<br>.38<br>2.76<br>1.66<br>1.91<br>1.91                     | 4 .4<br>4 .5<br>4 .5<br>4 .4<br>6 .3<br>2 2.1<br>4 1.2<br>4 1.4<br>4 1.4                       | 6 1.35<br>0 1.4<br>3 1.4<br>2 1.4<br>4 6.75<br>7 2.7<br>8 4.2                                                 | 5/8×1/4<br>5/8××1/4/5<br>5/8××5/8××1/4/5<br>5/8××1/1/2<br>8<br>1/4/4<br>1/4/4<br>1/4/4<br>1/4/4<br>8<br>1/4/4<br>1/4/4<br>1/4/4<br>5/8×××1/4/4<br>1/4/4<br>5/8××××1/4/4<br>5/8×××××1/4/4<br>5/8××××××1/4/4<br>5/8××××××××××××××××××××××××××××××××××××                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 21A230 SA13D Replaces D Cell. Each\$1.49 6 @ Ea\$1.17<br>21A231 SA14C Replaces C Cell. Each. 1.28 6 & Ea\$1.00<br>21A232 SA15AA Replaces AA Cell. Each. 85 4 & Each. 1.65<br>13A8022. Mallory BC15 Charger designed specifically for Rechargeable Alka-<br>line Batteries. Each. \$8.95<br>No. 16A1105. Mallory Bulletin. Shows how to build recharging circuit. Free<br>MALLORY SILVER OXIDE BATTERIES                                                                                                                                                                                                                                                                                                                                    | 21A5030<br>21A5031<br>21A5032<br>21A5033<br>21A5034<br>21A5035<br>21A5036                                                                                | TR134R<br>TR135R<br>TR136R<br>TR146X<br>TR163<br>TR164<br>TR165<br>TR175                   | E134N<br>E135N<br>E135N<br>E136N<br>E146X<br>E163<br>E164<br>E165<br>E175     | 2.34<br>2.76<br>3.19<br>1.66<br>1.91<br>1.91<br>2.34<br>1.49                        | 2 1.8<br>2 2.1<br>2 2.4<br>4 1.3<br>2 1.4<br>4 1.4<br>2 1.8<br>4 1.1                           | <b>3</b> 5.40<br><b>4</b> 6.75<br><b>7</b> 8.1<br><b>2</b> 8.4<br><b>8</b> 4.2<br><b>8</b> 5.6<br><b>3</b> 7  | 학교소<br>- 유<br>· · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Tiny, long life cells for new Zenith and Audiotex hearing aids.           21A5007.         MS13.         1.5 V.         .21×.31".         Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 21A235<br>21A5037<br>21A5038<br>21A5057<br>21A5039                                                                                                       | TR175<br>TR177<br>TR233<br>TR289<br>ZM-9                                                   | E177<br>E233N<br>E289<br>E9                                                   | 1.91<br>3.36<br>3.61<br>.85                                                         | 4 1.4<br>2 2.6<br>4 2.8<br>4 .6                                                                | 8 9.8<br>0 4.2<br>0 12.6                                                                                      | 設計<br>2<br>1<br>1<br>2<br>1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>1<br>2<br>2<br>1<br>3<br>2<br>2<br>1<br>3<br>2<br>2<br>1<br>3<br>3<br>3<br>3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RCA AND EVENIADY BATTERIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ſ                                                                                                                                                        | EVER                                                                                       | ADY@                                                                          |                                                                                     | ATTE                                                                                           |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                                                                                        |                                                                                            | рно                                                                           |                                                                                     | H BATTER                                                                                       |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Stock<br>No.<br>21A196                                                                                                                                   | Eveready<br>Type<br>EPX13                                                                  | Burgess<br>Equiv.<br>HPX-1                                                    | Each<br>3 \$0.50                                                                    | Voltage<br>1.35                                                                                |                                                                                                               | Dimensions<br>L. W. H.<br>r Polaroid & Oth.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ENERGIZERS - TRANSISTOR BATTERIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 21B116<br>21A218<br>21A219                                                                                                                               | 460K<br>489<br>491<br>497                                                                  | XX150<br>U160<br>U320                                                         | 1.97<br>6.96<br>6.26<br>11.87                                                       | 225<br>240<br>510                                                                              | .8 V<br>2.7<br>.8<br>1.6                                                                                      | /inklite w/Lamp<br>411x2111x415"<br>2111x115%"<br>3x111x55%"<br>5%x111x55%"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Stock RCA eady eady Wt. Equiva-<br>No. No. Stk. No. Number Price Volts Lbs. Oimensions lent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 21A205<br>21A128<br>21A195                                                                                                                               | 504<br>531                                                                                 | Y10                                                                           | 1.00                                                                                | 15<br>4½<br>1.5                                                                                | .03<br>.08 F<br>.05                                                                                           | or new Polaroid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 218141 V\$323 21A305 216 Ea 48 9 .08 1% x 1% x 12% 206<br>218159 V\$300A 21A306 226 Ea 68 9 .1 1" Dia x 1% P6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 21A50<br>21A51<br>21A52                                                                                                                                  | 815<br>835<br>850                                                                          | 920<br>120<br>220                                                             | .17<br>.19<br>.19                                                                   | 11/2                                                                                           | .1<br>.2                                                                                                      | Pen Cell Size<br>C Cell Size<br>D Cell Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>218142 VS305 21A309 246 Ea 1.36</b> 9 .3 1 <sup>13</sup> / <sub>2</sub> x 2 <sup>1</sup> / <sub>6</sub> x 2 <sup>3</sup> / <sub>4</sub> v X9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 21A198<br>21B113                                                                                                                                         | RADIC<br>222<br>W350                                                                       | 2MN6<br>Z30NX                                                                 | .64                                                                                 | ELECTRONI                                                                                      | .08<br>1.0                                                                                                    | 1品×抽×1弱                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>218137</b> VS306 <b>218311</b> 276 Ea 1.57 9 1.0 2% x 2% x 3% 2″ D6<br><b>21846</b> VS332 <b>218312</b> 333 Ea68 44/2 .06 .662″ Dia, x 1.965 1306                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 21B123<br>21B71                                                                                                                                          | W353<br>411                                                                                | 2F<br>U10                                                                     | 1.22<br>1.00                                                                        | 1 1/2<br>15<br>22 1/2                                                                          | .8<br>.05                                                                                                     | ਤੇ- <sub>16</sub> ×1 <sub>78</sub> ×4 <u>3</u><br>2∰×13%×4 <del>%</del><br>1∰× 5%×128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 21678 VS334 21A313 1015 Ea16 1½ .05 AA Cell 930<br>21A39 VS335 21A314 1035 Ea19 1½ .1 C Cell 130<br>21A38 VS336 21A315 1050 Ea19 1½ .2 D Cell 230                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 21A27<br>21B69<br>21B138                                                                                                                                 | 412<br>413<br>415                                                                          | U15<br>U20<br>U30                                                             | 1.17<br>1.30<br>1.75                                                                | 30<br>45                                                                                       | .1<br>.1<br>.1                                                                                                | 1 x 5/8x2<br>1 x 5/8x2 2<br>1 x 5/8x3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ALKALINE LONGLIFE, HIGH ORAIN TYPES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 21B164<br>21C165<br>21B104                                                                                                                               | 416<br>417<br>420                                                                          | UX45<br>K10<br>K15                                                            | 2.07<br>1.56<br>1.65                                                                | 671/2<br>15<br>221/2                                                                           | .3<br>.1<br>.2                                                                                                | 1 x +x31/2<br>1 x +x31/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 21A41 VS1334 21A5041 E91 Ea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 21B110<br>21B121<br>21A17                                                                                                                                | 425P<br>437<br>455                                                                         | XX15<br>XX50<br>XX30                                                          | 2.10<br>3.15<br>2.27                                                                | 221/2<br>221/2<br>75<br>45                                                                     | 2.30<br>.5                                                                                                    | 1 x 50x3<br>1 x 10x3<br>1 x 10x3                                                                                                                                                                                                                                   |
| 21A133 VS1335 21A5043 E93 [Ea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 21B67<br>21A18<br>21B26                                                                                                                                  | 457<br>467<br>477                                                                          | K45<br>XX45<br>P45                                                            | 2.70<br>2.70<br>2.70                                                                | 67 1/2<br>67 1/2<br>67 1/2                                                                     | .5<br>.8                                                                                                      | 2Hx136x3#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 21A224         VS1339         21A5046         532         Ea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 21B132<br>21A19                                                                                                                                          | 479<br>482                                                                                 | P60<br>M30                                                                    | 2.97<br>2.97                                                                        | 90<br>45                                                                                       | .5<br>.7<br>2.0<br>3.1                                                                                        | 143× 1+×51<br>143×1+×713<br>343×1+×51/2<br>343×21×53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 21A222 VS1564 21A5049 564 Ea 9.94 1342 5.5 8% x 21% x 5%"<br>FLASHLIGHT, LANTERN, EMERGENCY LIGHTING, TOYS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 21C143<br>21B20<br>21B68                                                                                                                                 | 484<br>490<br>493                                                                          | B30<br>N60<br>U200                                                            | 3.47<br>3.15<br>9.07                                                                | 45<br>90<br>300                                                                                | 1.0<br>1.2                                                                                                    | 3월×1兆3월<br>2월×2录×3월                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2145 VS0065 214216 No.6 Ea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 218145<br>21C140<br>21893                                                                                                                                | 505<br>506<br>703                                                                          | Y15<br>Y20<br>532                                                             | 1.17<br>1.75<br>1.36                                                                | 221/2<br>30<br>41/2                                                                            | .04<br>.05<br>.3                                                                                              | 5%× +¥×1時<br>1月× 56×1日<br>2斤× ×3占<br>3號× ××2時                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>21889 VS040S 21A319 510S Ea</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 21B153<br>21B70<br>21B66                                                                                                                                 | 713<br>717<br>724                                                                          | 85<br>C5<br>Z4                                                                | 2.27<br>1.23<br>.87                                                                 | 41/2<br>71/2<br>71/2<br>6                                                                      | .4<br>.6<br>.2                                                                                                | 25/2×1+2×2+2<br>25/2×1+2×3+2<br>1-5-2×1+2×2+2<br>25/2×25/2×43/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 21A214 VS139 21A321 715 Ea 4.86 74/2 7.9 71/4 x 4% x 6% 4745H<br>21A212 VS140 21A322 716 Ea 5.53 9 9.3 81% x 4% x 6% 476H<br>21B136 VS317 21A323 731 Ea 2.15 6 3.1 Radar Lite TW1<br>21C139 VS342 21A324 732 Ea 2.33 12 3.2 Radar Lite TW2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 21B122<br>21A192<br>21A12                                                                                                                                | 735<br>738<br>742                                                                          | 4FH<br>Z30<br>4F                                                              | .99<br>2.97<br>1.15                                                                 | 11/2<br>45<br>11/2                                                                             | 1.5<br>1.5<br>1.4                                                                                             | 23/8×23/8×43/8<br>3 x2 4 /8<br>25/8×24 ×4<br>25/8×25/8×34<br>25/8×25/8×34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 21A40 VS073 21A325 904 Ea 10 11/2 .01 Size N N<br>21C60 VS074 21A326 912 Ea 13 11/2 .02 AAA Size 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 21A31<br>21A15<br>21B91                                                                                                                                  | 744<br>746<br>750                                                                          | F4P1<br>C3<br>422                                                             | 1.15<br>1.76<br>.79                                                                 | 6<br>41/2<br>3                                                                                 | 1.4<br>1.3<br>.1                                                                                              | 3년X1년X4년<br>1년x 년x2년                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 21A2 VS035A 21A328 935 Ea 17 1½ 1 C Cell #1<br>21A1 VS036 21A329 950 Ea 17 1½ 2 D Cell #2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 21892<br>218102<br>218100                                                                                                                                | 751<br>7625<br>763                                                                         | 432<br>5308<br>4156                                                           | .87<br>3.05<br>1.61                                                                 | 3<br>41/2<br>45<br>221/2                                                                       | .2<br>3.3<br>.7                                                                                               | 2 × ++×2<br>4-5<br>3 <sup>1</sup> / <sub>2</sub> ×2-5<br>3 <sup>1</sup> / <sub>2</sub> ×2-5<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>3<br>2<br>2<br>3<br>2<br>2<br>3<br>2<br>2<br>3<br>2<br>3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 21A211 VS039 21A330 1461 5 3.85 6 9.2 Hot Shot S461 7<br>21A189 VS340 21A331 1463 5 4.01 12 7.8 Hot Shot 2G8H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 21A23<br>21B101<br>21A9                                                                                                                                  | 773<br>778<br>781                                                                          | 5540<br>5156SC<br>5360                                                        | 1.75                                                                                | 71/2 221/2                                                                                     | .6 9<br>1.5<br>.4                                                                                             | Scr. Term. & Lead<br>41/8×211 × 318<br>Scr. Term.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| BATTERY PLUGS AND SNAP-ONS<br>(D) 12A1341. Individual snap fas-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 21B11<br>21A135                                                                                                                                          | 964<br>2356N                                                                               | 21R<br>C6X                                                                    | .52<br>1.64                                                                         | 41/2<br>11/2<br>9                                                                              | .6<br>.7                                                                                                      | 111 dia. x4<br>218×111×61/4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| (D) 12A1341. Individual snap fas-<br>teners for 455, 457, 467, etc. Male<br>and female. Per Set. 16c<br>50 Up. Per Set. 12c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Stock<br>No.                                                                                                                                             | Eveready                                                                                   | Amp<br>Hours                                                                  | Burgess<br>Equiv.                                                                   | 25 V Rech<br>Net<br>Each                                                                       | Wt.<br>Lbs.                                                                                                   | Replaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| No. Illus. Ratt. No. Prongs Ea. 456, etc. Each. 48c<br>12A573 A 736, 746 2 12c (E) 12A2011 Spaper strip for 437                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 21A5056<br>21A194                                                                                                                                        | CH500<br>CH1.5                                                                             | ) .5<br>1.5                                                                   | CD14                                                                                | \$1.95<br>4.52                                                                                 | .06                                                                                                           | Size AA 915<br>Size C 935                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 12A573       A       736, 746       2       12c       (F)       12A2011.       Snap-on strip for 437.         12A163       A       718, 744       2       10c       477, etc.       Each       65c         12A162       A       742, 4F       2       10c       (E)       12A2012.       Snap-on strip for U30.         12A574       B       482, M3       3       10c       415, 216, etc.       Each       16c                                                                                                                                                                                                                                                                                                                           | 21A234<br>21A202<br>*1010 is N                                                                                                                           | CH4<br>1010*<br>Model Igni                                                                 | 4<br>1,2<br>tion Glo Pl                                                       | ug Hobb                                                                             | 6.30<br>5.30<br>y Battery,                                                                     | .34                                                                                                           | Size D 950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 96 See Page 137 For Cli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                          |                                                                                            |                                                                               |                                                                                     |                                                                                                |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

See Page 137 For Clip-in Battery Holders

# MALLORY COMPONENTS Centralab CAPACITORS



MTA 15-1 Mallobin. 53 Assorted MTA (described on Page 99). Molded aluminum electrolytic capacitors in 19 popular values. Regular net price is \$23,20, Save \$5.82, get a free 15 drawer storage cabinet plus a Free Lufkin Automatic Ruler worth \$3.50 retail. No. 15A5213. Mallory MTA 15-1. Net Each \$17.38

MTV 15-1 Mallobin 48 Assorted MTV (described on page 99) printed circuit molded aluminum electrolytic capacitors in 24 popular values. Regular net is \$23.04. Save \$4.55, get a Free 15 drawer Storage Cabinet plus a Free Lufkin Ruler worth \$3.50 retail

No. 15A5214. Mallory MTV 15-1. Net Each. \$18.49 

 PVC 15-1 Mallobin 58 Assorted PVC (described on page 98) 600 and 1600 volt PVC

 Mylar capacitors in 29 values. Free 12 drawer Storage Cabinet.

 No. 15A2245. Mallory PVC 15-1. Net Each

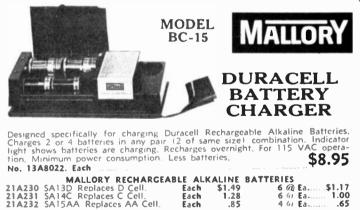
#### MALLORY SONALERT ELECTRONIC AUDIBLE SIGNALLING DEVICE

FREE



ELECTRONIC AUDIBLE SIGNALLING DEVICE Illustration shows front and side view. Pro-duces a penetrating sound by purely elec-tronic means. Solid state circuitry. There is no arcing or RF noise. Very compact, light and highly versatile. Consumes less current than a normal indicator light. Can also be used to complement visual signals. Positive audible warnings are instantly given in fault alarms for computers, fire signals, instru-ments, medical electronics, appliances, communications as well as telephone sig-nals and protection equipment. †Pulsing unit; pulse rate 3.5 cps (depending on input voltage), "Furnished with silicon transistors for operation to -40° to +185° F. Frequency tolerance: 2800 ±300 Hz; 4500 ±500 Hz. Mounts in 11%" nole with screw-on ring, neck length "4"," Overall dia. of unit 11%", max. depth behind panel 1.38". Has two 14" combination terminals. Shpg. wt. 3 oz.

| Stk. No. | Mfg. No. | Freq. Hz | Voltage      | 1-24   | Prices Each<br>25-49 | 50-99  |
|----------|----------|----------|--------------|--------|----------------------|--------|
| 12A2443  | \$C628   | 2800     | 6-28 V DC    | \$5.50 | \$5.40               | \$5.15 |
| 12A2444  | SC628A   | 2800     | 6-28 V AC/DC | 8.75   | 8.60                 | 8.20   |
| 12A2445  | \$C628H  | 4500     | 6-28 V DC    | 6.35   | 6.25                 | 5.95   |
| 12A2446  | \$C628P1 | 2800     | 6-28 V DC    | 9.95   | 9.75                 | 9.30   |
| 1242447  | SC628S*  | 2800     | 6-28 V DC    | 6.75   | 6.65                 | 6.35   |
| 12A2448  | \$C110   | 2800     | 110 V AC     | 8.75   | 8.60                 | 8.20   |





Each Panasonic No. Description Stock No. D Cell C Cell AA Pencell 9 Volt Transistor 25c 25c 20c 59c UM1D UM2D 21A333 21A334 214335 UM3D 21 A3 36 006PD

|                                  |                  |                   |                   | LAB             |                   | NERA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                  |                      |                 | C         |
|----------------------------------|------------------|-------------------|-------------------|-----------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|----------------------|-----------------|-----------|
| inn ara                          | inet k           | on witi           | h overa           | II prote        | ctive c           | oating f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | or ma       | ximum<br>C volts | protec-              | - <b>N</b> II   | N S       |
| ng, *60                          | 0 V. 1           | Toleran           | ce 109            | 6 throu         | gh 150            | 0 Mmf.,<br>lickness,<br>100 thru<br>ck875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | balan       | ice gual         | anteed               | F               | -         |
| 290″ di                          | vaiu<br>a., 10   | e, Sizi<br>00 thr | e ,156'<br>u 2500 | .385" (         | 1um m<br>1ia., 33 | 100 thru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6800        | .59″ di          | a., .01              | 0               |           |
| nd .02<br>Mmf,                   | are .6           | 59″ dia<br>Imf.   | , and .<br>Mm     | 05 is .2        | 25″ thi<br>Imf.   | ck875<br>Mmf.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ″dia.       | Mmf.             |                      | mf.             | Mf        |
| 5                                | -                | 25                | 5                 | 6               | 150               | 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | )           | 560              | 20                   | 000             | *.0       |
| 10<br>12                         |                  | 27<br>30          |                   | 8<br>5          | 180<br>200        | 330<br>350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 680<br>750       |                      | 200<br>300      | *.0       |
| 15                               |                  | 33                | 8                 | 2               | 220               | 360                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | )           | 800              | 4                    | 000             |           |
| 18<br>20                         |                  | 39<br>47          | 9<br>10           |                 | 240<br>250        | 390<br>470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 820<br>1000      |                      | 700<br>000      |           |
| 22                               |                  | 50                | 12                |                 | 270               | 500<br>d Capaci                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | 1500             |                      | 800             |           |
| C:                               | pacity           |                   | ITY SIR.          | 1.99            | 100-1             | and the second s |             | 500-399          | the second second    | •3999 40        | 100 U     |
|                                  |                  |                   | 0 Mmf.            | \$0.15          | \$0.1             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .075        | \$0.056          |                      |                 | 0.03      |
| 01 Mfd.<br>02 and                | 05 M             | i dal             |                   | .24             | .1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .12<br>.225 | .09              |                      | 054<br>155      | .04       |
|                                  |                  |                   |                   |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                  |                      |                 |           |
| CEN                              | IKA              | LAU               | 6 MI-             | CAP/            |                   | Y LU<br>, CK, Di                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | W .         | VOL.             | IAG                  | E DIS           |           |
|                                  |                  |                   |                   | ring hig        | h capa            | city and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | very        | low por          | ver (                | ) (             | 141       |
| actor c                          | ombin            | ed wit            | h smail           |                 | 0                 | it weigh<br> -80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                  |                      |                 | 07<br>5 / |
|                                  |                  |                   |                   | UK IU V         | 200.              | 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - 20 %      | •                |                      |                 | 20        |
| Stk.<br>No.                      | Mfd.             | Dia.              | 1-99<br>Each      | 100-199<br>Each | 499<br>Each       | Stk.<br>No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mfd.        | Dia.             | 1 <b>·99</b><br>Each | 100-199<br>Each | 49<br>Eac |
| 5A858<br>5A859                   | .05              | 1/4"<br>3/8"      | \$0.18            | \$0,143         | \$0.09            | 15A860<br>15A861                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | .2          | %16''<br>3/4''   | \$0.30               | \$0.24          | \$0.1     |
| 34633                            |                  | 78                | .10               | CK-50           |                   | + 80 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | - 20 %      | -74              |                      |                 |           |
| 5A2124                           | .005             | 3/8″              | .21               | .17             | ,11               | 158563                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .03         | ×16″             | .21                  | .17             | .1        |
| 58560<br>58561                   | .01              | 3⁄8″<br>‱″        | .21               | .17<br>.17      | .11               | 158564<br>158566                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | 5/8"<br>5/8"     | .30                  | .24             | .1        |
| 30301                            | .02              | /16               |                   |                 |                   | 60 -4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                  | .00                  |                 |           |
| 5B773                            | .005             | .385″             |                   | .24             | .15               | 15B775                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .02         | .406"            | .54                  | .43             |           |
| 5B774                            | .01              | .385″             | .30               | .24             | .15               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                  |                      |                 |           |
|                                  | CE               |                   |                   | B D             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                  |                      | RS              |           |
|                                  |                  | 1600              | VULIL             | ERAMIC          | 200-              | FOR BU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PPER P      | TPLICA           | 1042                 |                 | 20        |
| Stk.                             |                  |                   |                   | 100-199         | 499               | Stk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                  |                      | 100-199         | 49        |
| No.<br>58954                     | Mfd.             | Dia.              | Each<br>\$0.27    | Each<br>\$0.21  | Each<br>\$0,14    | No.<br>158957                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mfd.        | Dia.             | Each<br>\$0.27       | Each<br>\$0.21  | Eac       |
| 58955                            | .004             | .60″              | .27               | .21             | .14               | 158961                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .01         | .83″             | .27                  |                 | .1        |
| I 5B956                          | .005             | .60″              | .27               | .21             | .14               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                  |                      |                 |           |
|                                  | C                |                   | TYPE D            |                 |                   | DC GEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                  |                      | S               |           |
| Stock                            |                  | Size              | 1-49              | 50-99           | 100-499           | Stock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | Size             | 1-49                 | 50-99           | 10        |
|                                  | Mmf.             | Dia.              | Each              | Each            | Each              | No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mmf.        | Dia.             | Each                 | Each            | Ea        |
| 5A869                            | 10               | .33"              | \$0.24            | \$0.19          | \$0.12            | 15A877                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 220         | .33"             | \$0.24               | \$0.19          | \$0.      |
|                                  | 50               | .33″<br>.33″      | .24               | .19             | .12               | 15B386<br>15A868                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | .33″             | .24                  | .19             | •         |
| 5B385                            | 68               |                   |                   |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                  |                      |                 |           |
| 5B385<br>5A874<br>5A875<br>5A876 | 68<br>100<br>150 | .33"<br>.33"      | .24               | .19             | .12               | 154873                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mfd.        | .63″             | .30                  | .24             | .1        |

#### TYPE ATT NOA TERA POLET WITH TENDERATURE SAA W

| TYPE                                                               | DTZN                                        | IPO ZEI                                                            | RO DRI                                                  | FT WI                                            | гн темре                                                           | KATURI                                                    | t500 1                                                      | W. V. D                                          | 6                                                       |
|--------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|
| Stk. Na.                                                           | Mmf.                                        | Size<br>Dia.                                                       | 1-99<br>Each                                            | 100<br>Up Ea.                                    | Stk. No.                                                           | Mmf.                                                      | Size<br>Dia.                                                | 1-99<br>Each U                                   | 100<br>Ip Ea.                                           |
| 15A768<br>15A769<br>15A770<br>15A771<br>15A772<br>15B332<br>15B333 | 1.5<br>2.2<br>3.3<br>4.7<br>6.8<br>10<br>15 | .320''<br>.290''<br>.290''<br>.290''<br>.290''<br>.290''<br>.290'' | \$0.18<br>.18<br>.18<br>.18<br>.18<br>.18<br>.18<br>.18 | \$0.14<br>.14<br>.14<br>.14<br>.14<br>.14<br>.14 | 158334<br>158336<br>158337<br>158338<br>158339<br>158379<br>158379 | 22<br>33<br><b>47</b><br>68<br>100<br>220<br>2 <b>7</b> 0 | .390"<br>.390"<br>.590"<br>.590"<br>.590"<br>.719"<br>.719" | \$0.18<br>.18<br>.18<br>.18<br>.18<br>.30<br>.30 | \$0.14<br>.14<br>.14<br>.14<br>.14<br>.14<br>.24<br>.24 |
| معطى                                                               |                                             | CEN                                                                | TRA                                                     | LAB                                              | CERA                                                               | міс .                                                     |                                                             | MEK-S                                            |                                                         |

# Type 825. Provides precision adjustment with smooth linear change per degree rotation. Miniature size, $\frac{3}{3} \times \frac{1}{4}$ wide. 500 V. DC W. NPO are zero drift, N300 and N500 hove uniform negative change 300 and 500 parts per million per degree C.

MMf. Type



solder lugs. 5000 volts.



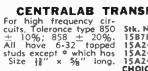
Stk. No.

Mmf. Type

| C    |              | Туре      | MFT          |
|------|--------------|-----------|--------------|
| .15" | Feed-thru.   | .875" ove | roll length, |
|      | dia. Efficie | ent low c | cost, solder |

Stk. No. Mmf.

| Toleronce 2                  | 20% for 100                 | t <b>RF bypossing</b><br>0 mmf, and +5<br>f, 500 WV DC | 0 .15" dia, Effici                                | ent lo<br>moder |
|------------------------------|-----------------------------|--------------------------------------------------------|---------------------------------------------------|-----------------|
| Stk. No.<br>158658<br>158659 | <b>Mmf.</b><br>1000<br>1500 | \$0.75 \$0.6                                           | p Stk. No. Mmf. To<br>0 158522 50<br>0 158527 100 | olerano<br>10%  |



| , ) 010   |          |        |         |      | 301001 |
|-----------|----------|--------|---------|------|--------|
| flonge m  | ntg. For | r mod  | ern sp  | bace | saving |
| circuit d | esign.   | 500 v  | volts E | DC.  |        |
| Stk. No.  | Mmf. 1   | Folera | nce 1.  | -99  | 100 Up |
| 15B522    | 50       | 10%    | 5 50    | .30  | \$0.24 |
| 15B527    |          |        |         | .30  | .24    |
| 158532    |          | GM     |         | .30  | .24    |
|           |          |        |         |      |        |
|           |          |        |         |      | ~~     |
| ANSMI     | TTIN     | GC     | ERA     | MI   | CS     |
|           | Mf       | g.     | Cas     | ».   | Temp.  |
| Stk. No.  | No       |        | Mm      | f.   | Coeff. |
| 15B787*   | 850      | SL.    | 10      | 0    | N750   |
| 15A246    | 850      | )Ś     | 10      | Ó    | N750   |
| 15A247    | 858      | S.     | 500     | Ō    | HiK    |
| 15A248    | 858      |        | 100     | Ó    | HiK    |
| CHOICE.   | EACH     |        |         |      | \$2.70 |
|           |          |        |         |      |        |



Type

98c

7-45 N500



## APACITORS

.

#### MALLORY PVC RADIAL LEAD CAPACITORS MALLORY PVC 2133

100 and 200 volt ratings are flat pressed Mylar dielectric. 400, 600 and 1600 volt ratings have paper and Mylar dielec-tric. Dipped Epoxy case. End foil swagged over and leads welded plus Epoxy coating protected. No chance for opens or intermittents. Tolerance  $\pm$  10%.

WORKING VOLT DC --- 100% MYLAR DIELECTRIC 100 Order by Stock No. 15C410 and Mfd. No.

| Mfd.      |            | Size Inches |           | Lead      | 1-24   | 25-49  | 50.99  | 100 Up  |
|-----------|------------|-------------|-----------|-----------|--------|--------|--------|---------|
| No.       | L          | W.          | Th.       | Spacing   | Each   | Each   | Each   | Each    |
| .018      | .750       | .313        | .188      | .625      | \$0,17 | \$0.13 | \$0,10 | \$0.081 |
| .022      | .750       | .344        | .219      | .625      | .17    | .13    | .10    | .081    |
| .033      | .750       | .344        | .219      | .625      | .17    | .13    | .10    | .083    |
| .04       | .750       | .344        | .219      | .625      | .18    | .14    | .11    | .087    |
| .047      | .750       | .344        | .219      | .625      | .18    | .14    | .11    | .091    |
| .056      | .750       | .375        | .250      | .625      | .20    | .16    | .12    | .097    |
| .068      | .750       | .375        | .250      | .625      | .20    | .16    | .12    | .101    |
| .1        | .750       | .438        | .313      | .625      | .22    | .17    | .13    | .109    |
| .15       | .750       | .688        | .344      | .625      | .27    | .20    | .16    | .134    |
| .22       | .750       | .750        | .375      | .625      | .28    | .22    | .17    | .141    |
| .25       | .750       | .781        | .406      | .625      | .30    | .23    | .17    | .145    |
| .33       | .750       | .844        | .438      | .625      | .33    | .25    | .19    | .163    |
| .47       | 1.125      | .750        | .375      | 1.00      | .38    | .29    | .23    | .188    |
| .47<br>.5 | 1.125      | .781        | .406      | 1.00      | .38    | .29    | .23    | .188    |
| .68       | 1.125      | .844        | .469      | 1.00      | .45    | .33    | .27    | .22     |
| .0        | 1.125      | .938        | .563      | 1.00      | .60    | .45    | .36    | .297    |
| .0<br>.5* |            | .75 Long >  |           |           | .82    | .62    | .47    | .40     |
| 2.0*      |            | .75 Long x  |           |           | .98    | .75    | .68    | .487    |
| Tubular   | style with | Axial Lea   | 1s. Mylar | wrap, Epo | xy end |        | .00    |         |

#### 200 WORKING VOLT DC --- 100% MYLAR DIELECTRIC

|                     |                      | Order by                                     | Stock N              | o. 15B420            | and Mfd.                  | No.               |                   |                      |
|---------------------|----------------------|----------------------------------------------|----------------------|----------------------|---------------------------|-------------------|-------------------|----------------------|
| Mfd.<br>No.         | L                    | Size Inches<br>W.                            | Th.                  | Lead<br>Spacing      | 1·24<br>Each              | 25-49<br>Each     | 50-99<br>Each     | 100 Up<br>Each       |
| .01<br>.015<br>.022 | .750<br>.750<br>.750 | .313<br>.344<br>.375                         | .188                 | .625                 | \$0.17                    | \$0.13<br>.13     | \$0.10            | \$0.081              |
| .033<br>.04         | .750                 | .375<br>.375                                 | .250<br>.250<br>.250 | .625<br>.625<br>.625 | .17<br>.17<br>.18         | .13<br>.13<br>.14 | .10<br>.10<br>.11 | .081<br>.083<br>.087 |
| .047<br>.05<br>.068 | .750<br>.750<br>.750 | .375<br>.375<br>.406                         | .250<br>.250<br>.281 | .625<br>.625<br>.625 | .18<br>.18<br>.20         | .14<br>.14<br>.16 | .12<br>.12<br>.12 | .091<br>.091<br>.101 |
| .1<br>.15           | .750                 | .719<br>.781                                 | .313<br>.375         | .625<br>.625         | .22                       | .17               | .13               | .109                 |
| .22<br>.25<br>.33   | 750<br>.750<br>.750  | .844<br>.906<br>.969                         | .469<br>.500<br>.563 | .625<br>.625<br>.625 | .30<br>.30<br>.33         | .23<br>.23<br>.25 | .17<br>.17<br>.19 | .142<br>.149<br>.163 |
| .47<br>.5<br>1.0*   | 1.125                | .875                                         | .500<br>.531         | 1.00                 | .38                       | .29<br>.29        | .23<br>.23        | .194<br>.194         |
| 2.0*                |                      | 1.750 Long x<br>L.875 Long x<br>h Axiai Lead | .984 Di              | a.                   | .66<br>1,12<br>xy end fil | .49<br>.82        | .39<br>.68        | <b>.323</b><br>.545  |

#### 400 WORKING VOLT DC --- PAPER/MYLAR DIELECTRIC

|             |     |              | Order by          | Stock        | No. | 158421          | and Mfd.     | No.           |               |                |
|-------------|-----|--------------|-------------------|--------------|-----|-----------------|--------------|---------------|---------------|----------------|
| Mfd.<br>No. |     | L            | Size Inches<br>W. | Th.          |     | Lead<br>Spacing | 1·24<br>Each | 25-49<br>Each | 50-99<br>Each | 100 Up<br>Each |
| .01<br>.02  | • . | .690<br>.855 | .500<br>.688      | .390<br>.390 |     | .562<br>.750    | \$0.15       | \$0.11<br>.11 | \$0.09<br>.09 | \$0.07<br>.07  |

#### MALLORY COMPUTER GRADE CAPACITORS

Type CG high capacity units for filter and storage use in power supplies, computers, telephone networks, high grade test instruments or wherever extreme reliability is required. Temperature range -20 to  $+85^{\circ}$  C. Capacity tol. of 3 to 150 WVDC, -10% +75%; 151 to 450 WVDC -10% +50%. Insulating sleeve furnished.

|          |              | , maarating | 31004 | c runnancu     |          |           |            |
|----------|--------------|-------------|-------|----------------|----------|-----------|------------|
| Stk. No. | Mfg. No.     | Cap. Mfd.   | V. DC | Size           | 1-49 Ea. | 50-99 Ea. | 100 Up Ea. |
| 15A7508  | CG143U15D1   | 14,000      | 15    | 2×41/8"        | \$4.47   | \$3.51    | \$2.88     |
| 150395   | CG152U25A1   | 1,500       | 25    | 13/a x 2 1/a " | 1.72     | 1.35      | 1.11       |
| 15A7504  | CG63U25K1    | 6,000       | 25    | 2x31/8"        | 3.23     | 2.54      | 2.08       |
| 158315   | CG852U25D1   | 8,500       | 25    | 2x41/a"        | 3.90     | 3.07      | 2.51       |
| 15C392   | CG472U35K1   | 4,700       | 35    | 2x31/8"        | 3.46     | 2.73      | 2.23       |
| 15C393   | CG243U35G1   | 24,000      | 35    | 3x55/a″        | 7.75     | 6.09      | 4.98       |
| 15A7503  | CG82U50A1    | 800         | 50    | 13/8×21/8"     | 1.74     | 1.37      | 1.12       |
| 15A7507  | CG152U50B1   | 1500        | 50    | 13/a x3 1/a "  | 2.05     | 1.62      | 1.32       |
| 15A7502  | CG23U50C1    | 2000        | 50    | 13/a x4 1/a"   | 2.29     | 1.80      | 1.47       |
| 15A7505  | CG332U50K1   | 3300        | 50    | 2x31/8"        | 3.25     | 2.56      | 2.09       |
| 150369   | CG452U50D1   | 4500        | 50    | 2x41/8"        | 3.47     | 2.72      | 2.23       |
| 15B316   | CG14U50F1    | 10.000      | 50    | 3x41/8"        | 6.70     | 5.27      | 4.30       |
| 15A7506  | CG152U75C1   | 1500        | 75    | 13/ax41/a"     | 2.84     | 2.23      | 1.82       |
| 15C370   | CG3451U75D1  | 3450        | 75    | 2×4 1/8"       | 4.03     | 3.17      | 2.59       |
| 150371   | CG822U75F1   | 8200        | 75    | 3x41/8"        | 7.25     | 5.70      | 4.66       |
| 15B318   | CG1551U150D1 | 1550        | 150   | 2x41/8"        | 4.01     | 3.15      | 2.58       |
| 150394   | CG562U150G1  | 5600        | 150   | 3x55/n″        | 9.87     | 7.76      | 6.35       |
| 150372   | CG13T200D1   | 1000        | 200   | 2x41/8"        | 4.51     | 3.54      | 2.90       |
| 15R322   | CC241T45001  | 240         | 460   | 2241211        | 2.42     | 2 60      | 2 20       |

Order Vertical Mounting Brackets Below

#### CAPACITOR MOUNTING HARDWARE For CG, PSU, HC and NP Capacitors

VERTICAL MTG. BRACKETS Stk. No. Mfg. No. Size Each 13/6 to 1%,6" 11/2 to 11/4" 13/4 to 11%,6" 2 to 2%,6" 3" VR3 VR4 VR6 \$0.15 .15 .18 154491 100 15A895 15A897 15A492 HE HORIZONTAL BRACKETS .30 .36 VR8 15A898 **VR12** Requires end cap on capacitor. END CAPS Stk. No. Mfg.No. Size Each \$0.21 .21 .24 3¼4" L. 3<sup>21</sup>⁄32" L. 4<sup>21</sup>⁄32" L 15A2219 HB-2 HB-4 15A2222 15A2201 1%4" 11%6" 2%6" PL3 PL6 .15 .18 15A2220 15A2221 HB-8 15A2238 PL8

|             | 40    | O WORKING<br>Order by |        | DC PAPER,<br>No. 15B421 |              |               | C             |                |
|-------------|-------|-----------------------|--------|-------------------------|--------------|---------------|---------------|----------------|
| Mfd.<br>No. | L     | Size Inches<br>W.     | Th.    | Lead<br>Spacing         | 1-24<br>Each | 25-49<br>Each | 50-99<br>Each | 100 Up<br>Each |
| .047        | 1.150 | .969                  | .415   | 1.062                   | \$0.21       | \$0,15        | \$0,11        | \$0,09         |
| .05         | 1.150 | .969                  | .415   | 1.062                   | .21          | .15           |               | .09            |
| .1          | 1.180 | .969                  | .520   | 1.062                   | .27          | .19           | .14           | .11            |
| .22         | 1.560 | 1.344                 | .620   | 1.437                   | .27          | .23           | .18           | .16            |
| .25         | 1.560 | 1.344                 | .650   | 1.437                   | .27          | .23           | .18           | .16            |
| .47*        |       | 1.625 Long >          | ( .700 | Oia.                    | .72          | .52           | .41           | .31            |
| .5*         |       | 1.625 Long >          |        |                         | .83          | .54           | .42           | .322           |
| *Tubular    |       | h Axial leads         |        |                         |              |               |               |                |

#### 600 WORKING VOLT DC --- PAPER/MYLAR DIELECTRIC

| Order | by | Stock | No. | 15B422 | and | Mfd. | No. |  |
|-------|----|-------|-----|--------|-----|------|-----|--|
|       |    |       |     |        |     |      |     |  |

| Mfd.     |            | Size Inches   |          | Lead    | 1-24   | 25-49  | 50-99  | 100 Up |
|----------|------------|---------------|----------|---------|--------|--------|--------|--------|
| No.      | L          | W.            | Th.      | Spacing | Each   | Each   | Each   | Each   |
| .001     | .66        | .500          | .340     | .562    | \$0.15 | \$0,11 | \$0.08 | \$0.07 |
| .0015    | .66        | .500          | .340     | .562    | .15    | .11    | .08    | .07    |
| .002     | .66        | .500          | .340     | .562    | .15    | .11    | .08    | .07    |
| .0022    | .66        | .500          | .340     | .562    | .15    | .11    | .08    | .07    |
| .0025    | .66        | .500          | .340     | .562    | .15    | .11    | .08    | .07    |
| .003     | .66        | .500          | .370     | .562    | .15    | .11    | 80.    | .07    |
| .0033    | .66        | .500          | .370     | .562    | .15    | .11    | .08    | .07    |
| .0039    | .66        | .500          | .370     | .562    | .15    | .11    | .08    | .07    |
| .0047    | .69        | .500          | .400     | .562    | .15    | .11    | .08    | .07    |
| .005     | .69        | .500          | .400     | .562    | .15    | .11    | .08    | .07    |
| .0068    | .69        | .500          | .430     | .562    | .18    | .12    | .08    | .07    |
| .0082    | .87        | .688          | .370     | .812    | .18    | .12    | .09    | .07    |
| .01      | .87        | .688          | .390     | .812    | .18    | .12    | .09    | .07    |
| .015     | .87        | .688          | .445     | .812    | .18    | .14    | .10    | .07    |
| .02      | .87        | .688          | .445     | .812    | .18    | .14    | .10    | .08    |
| .022     | .87        | .688          | .470     | .812    | .18    | .14    | .10    | .08    |
| .025     | .87        | .688          | .500     | .812    | .21    | .15    | .11    | .09    |
| .03      | 1.15       | .969          | .415     | 1.062   | .21    | .15    | .11    | .09    |
| .033     | 1.15       | .969          | .430     | 1.062   | .21    | .15    | .11    | .09    |
| .039     | 1.15       | .969          | .470     | 1.062   | .21    | .15    | .11    | .09    |
| .047     | 1.15       | .969          | .490     | 1.062   | .24    | .16    | .12    | .10    |
| .05      | 1.15       | .969          | .490     | 1.062   | .24    | .16    | .12    | .10    |
| .1       | 1.30       | 1.094         | .640     | 1.187   | .27    | .21    | .15    | .13    |
| .15      | 1.56       | 1.344         | .650     | 1.437   | .30    | .25    | .18    | .15    |
| .25      | 1.56       | 1.344         | .830     | 1.437   | .48    | .35    | .27    | .206   |
| .47*     | 2.00       | Long x .85    |          |         | 1.07   | .77    | .60    | .46    |
| 1.0*     | 2.5″       |               | 65" Dia. |         | . 1.90 | 1.63   | 1.28   | .977   |
| *Tubular | style with | n Axial lead: | S.       |         |        |        |        |        |

1600 WORKING VOLT DC --- PAPER/MYLAR DIELECTRIC

|             |      | urder by          | STOCK N | 5. 15A2200      | and Mrd.     | NO.           |               |                |
|-------------|------|-------------------|---------|-----------------|--------------|---------------|---------------|----------------|
| Mfd.<br>No. | L    | Size Inches<br>W. | Th.     | Lead<br>Spacing | 1-24<br>Each | 25-49<br>Each | 50-99<br>Each | 100 Up<br>Each |
| .001        | .87  | .688              | .350    | .812            | \$0.21       | \$0.16        | \$0,13        | \$0.096        |
| .0022       | .87  | .688              | .420    | .812            | .21          | .16           | .13           | .096           |
| .0033       | .87  | .688              | .480    | .812            | .24          | .17           | .14           | .096           |
| .005        | .87  | .969              | .565    | .812            | .24          | .17           | .14           | .104           |
| .0068       | 1.18 | .969              | .485    | 1.062           | .27          | .20           | .15           | .104           |
| .0082       | 1.18 | .969              | .510    | 1.062           | .27          | .20           | .15           | .113           |
| .01         | 1.18 | .969              | .525    | 1.062           | .30          | .21           | .17           | .123           |
| .022        | 1.60 | 1.344             | .585    | 1.437           | .42          | .31           | .26           | .172           |
| .033        | 1.60 | 1.344             | .695    | 1.437           | .45          | .34           | .27           | .192           |
| .05         | 1.60 | 1.344             | .790    | 1.437           | .51          | .40           | .32           | .222           |

#### MALLORY HI-CAPACITY DRY ELECTROLYTICS

INDUSTRIAL TYPE CAPACITOR. For filtering dry disc rectifiers, elec-tric fence controls or any use requiring high capacity at low volt-age. Plastic case provides complete insulation. Temperature Range -20° C to +85° C. Tolerance HC to 50 WVDC -10% to +150%. 51 to 350 WVDC -10% to +100%, 450 WVDC --10% to +50%. NP ±25%. Wt. 8 ors. HC - Polarized.

| Mfd. | Volts | Mfg. No.* | Dia. x L.     | Stk. No. | 1-9 Ea. | 10-24 Ea |
|------|-------|-----------|---------------|----------|---------|----------|
| 1000 | 25    | HC2510A   | 1 1/4 × 2 3/4 | 15A790   | \$3,19  | \$2.73   |
| 2000 | 25    | HC2520A   | 1%x33%        | 15A791   | 4.15    | 3.56     |
| 4000 | 25    | HC2540A   | 113%×33%      | 15A792   | 5.58    | 4.79     |
| 500  | 50    | HC5005A   | 11/4×23/4     | 15A793   | 3.33    | 2.85     |
| 1000 | 50    | HC5010A   | 1%x33%        | 15A794   | 4.25    | 3.65     |
| 2000 | 50    | HC5020A   | 113%x33%      | 15A795   | 5.06    | 4.34     |
| 4000 | 50    | HC5040    | 21/4×43/8     | 15A713   | 7.32    | 6.27     |
| 1000 | 150   | HC15010A  | 113%x X 4 3/8 | 15A717   | 6.44    | 5.52     |
| 500  | 200   | HC20005A  | 1134x334      | 15A729   | 5.53    | 4.74     |
| 200  | 300   | *NP3025   | 21/4×43/8     | 158765   | 7.00    | 6.00     |
| 300  | 450   | HC45003   | 21/4×43/8     | 15A732   | 8.47    | 7.26     |

**Order Mounting Brackets At Left Below** 

#### MALLORY MOTOR STARTING CAPACITORS



Housing is water and oil proof molded bakelite. Easily installed, universally interchangeable with capacitors of like dimensions and ratings. All are for 110-125 volt AC motors, except " is for 220 volt AC motors. Each capacitor replaces any value between mini-mum and maximum Mid rating shown. Size  $() - 1\%_{4} \times 2\%''$ ; Size  $() - 1\%_{6} \times 3\%''$ ; Size  $() - 1\%_{6} \times 3\%''$ ; Size  $() - 2\%_{6} \times 4\%''$ .

| Stk. No. | Mfd.    | Mailory No. | Size | Each   | Stk. No. | Mfd.   | Mallory No.                 | Size És      | Ich |
|----------|---------|-------------|------|--------|----------|--------|-----------------------------|--------------|-----|
| 15A2223  | 53-64   | PSU5315     | 0    | \$0.93 | 15A2232  | 216-25 | 9 PSU21615                  | © \$1.       | .44 |
| 15A2224  | 72-88   | P\$U7215    | Õ    | .96    | 15A2233  | 243-29 |                             |              | .69 |
| 15A2225  | 88.108  | PSU8815     |      | 1.02   | 15A2234  | 300-36 | PSU30015                    | <u>š</u> 1.  | .89 |
| 15A2226  | 108.130 | PSU10815    | - Œ  | 1.04   | 15A2235  | 378-44 | 0 PSU37815                  | <u>3</u> 3 2 | .07 |
| 15A2227  | 124-149 | PSU12415    | õ    | 1.05   | 15A2236  | 430-51 | 6 PSU43015                  | 5 0 2.       | .56 |
| 15A2228  | 130-156 | PSU13015    | ũ    | 1.10   | 15A2237  | 540.64 | 8 PSU54015                  | 5 🖲 3.       | .48 |
| 15A2229  | 145-175 | PSU14515    | Õ    | 1.14   | 15A2217  | 25-30  | <ul> <li>PSU2520</li> </ul> | 0 1          | .69 |
| 15A2230  | 161-193 | PSU16115    | õ    | 1.17   | 15A2218  | 50.60  | * PSU5020                   |              | .04 |
| 15A2231  | 189-227 | PSU18915    | õ    | 1.35   |          |        |                             | 9            |     |

Use PL End Cap and HB Bracket for Horizontal Mounting. Write for Quotation on Larger Quantities.

Get Immediate Shipment from B-A's Large Industrial Inventory

#### MALLORY TT TINY TUBULAR ALUMINUM ELECTROLYTICS

Very high quality aluminum foil, deep etched to provide maximum capacity for size. Etched construction assures long hum-free operation. All welded construction. Aluminum case with insulating sleeve. 2-inch wire leads. Temperature range:  $-55^{\circ}$  C to  $+85^{\circ}$  (C, 3 to 100 volt units;  $-30^{\circ}$  C to  $+85^{\circ}$  on all others. Tolerance -10% +150%, 1-50 WVDC; -10% +100%, 60 WVDC and up. Size shown for plain case, insulated sleeve adds .010" dia. x  $\chi_a^{\prime\prime}$  L.

Cap. W.V. Size Inches 1-24 25-49 50-99 100-249 250-499 500 up

Stock

| No.                                                                                                                   | Mfd.                                                          | DC                                                                         | Oia.                                                                  | Lgth.                                                                           | Each                                                                             | Each                                                                  | Each                                                                      | Each                                                                      | Each                                                                             | Each                                                                             |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 15A5020<br>15A5021<br>15A5022<br>15A5023<br>15A5024<br>15A5025<br>15A5026<br>15A5027<br>15A5028<br>15A5029            | 25<br>50<br>100<br>250<br>500<br>1<br>2<br>5<br>10<br>15      | 3333666666                                                                 | 1/4<br>1/4<br>3/8<br>3/8<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4           | 5%8<br>5%8<br>7%8<br>13%8<br>5%8<br>5%8<br>5%8<br>5%8                           | \$0.48<br>.48<br>.54<br>.69<br>.75<br>.48<br>.48<br>.48<br>.48                   | \$0.35<br>.35<br>.39<br>.52<br>.56<br>.35<br>.35<br>.35<br>.35<br>.35 | \$0.27<br>.27<br>.31<br>.40<br>.44<br>.27<br>.27<br>.27<br>.27<br>.27     | \$0.22<br>.22<br>.25<br>.32<br>.35<br>.22<br>.22<br>.22<br>.22<br>.22     | \$0.18<br>.18<br>.20<br>.27<br>.29<br>.18<br>.18<br>.18<br>.18<br>.18            | \$0.17<br>.17<br>.255<br>.28<br>.17<br>.17<br>.17<br>.17<br>.17                  |
| 15A5030<br>15A5031<br>15A5032<br>15A5033<br>15A5034<br>15A5035<br>15A5036<br>15A5037<br>15A5038<br>15A5039            | 25<br>50<br>100<br>200<br>300<br>10<br>25<br>50<br>100<br>200 | 6<br>6<br>6<br>10<br>10<br>10<br>10<br>10                                  | 1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4    | 5/8<br>5/8<br>5/8<br>7/8<br>1<br>5/8<br>5/8<br>5/8<br>5/8<br>3/4<br>1           | .48<br>.66<br>.69<br>.72<br>.48<br>.48<br>.54<br>.54<br>.59<br>.75               | .35<br>.35<br>.50<br>.52<br>.54<br>.35<br>.35<br>.39<br>.52<br>.56    | .27<br>.27<br>.39<br>.40<br>.43<br>.27<br>.27<br>.27<br>.31<br>.40<br>.44 | .22<br>.22<br>.31<br>.32<br>.34<br>.22<br>.22<br>.25<br>.32<br>.35        | .18<br>.26<br>.27<br>.28<br>.18<br>.18<br>.20<br>.27<br>.29                      | .17<br>.17<br>.245<br>.255<br>.265<br>.17<br>.17<br>.19<br>.255<br>.28           |
| 15A5040<br>15A5041<br>15A5042<br>15A5043<br>15A5044<br>15A5045<br>15A5046<br>15A5047<br>15A5048<br>15A5049            | 1<br>2<br>5<br>10<br>25<br>50<br>100<br>200<br>250<br>1       | 12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | 1/4<br>1/4<br>1/4<br>1/4<br>3/8<br>3/8<br>3/8<br>3/8<br>3/8<br>1/4    | 5/8<br>5/8<br>5/8<br>3/4<br>5/8<br>7/8<br>1 1/e<br>1 3/8<br>5/8                 | .48<br>.48<br>.48<br>.48<br>.54<br>.54<br>.69<br>.75<br>.75<br>.48               | .35<br>.35<br>.35<br>.35<br>.35<br>.39<br>.52<br>.56<br>.56<br>.35    | .27<br>.27<br>.27<br>.27<br>.27<br>.31<br>.40<br>.44<br>.44<br>.27        | .22<br>.22<br>.22<br>.22<br>.22<br>.25<br>.32<br>.35<br>.35<br>.35<br>.22 | .18<br>.18<br>.18<br>.18<br>.16<br>.20<br>.27<br>.29<br>.29<br>.29<br>.18        | .17<br>.17<br>.17<br>.17<br>.19<br>.255<br>.28<br>.28<br>.28                     |
| 15A5050<br>15A5051<br>15A5052<br>15A5053<br>15A5054<br>15A5055<br>15A5056<br>15A5057<br>15A5058<br>15A5059            | 2<br>5<br>10<br>15<br>20<br>25<br>30<br>50<br>100<br>150      | 15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15                         | 1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4    | 5%<br>5%<br>5%<br>5%<br>5%<br>3%<br>3%<br>3%<br>3%<br>1%                        | .48<br>.48<br>.48<br>.48<br>.48<br>.48<br>.54<br>.54<br>.54<br>.54<br>.59<br>.72 | .35<br>.35<br>.35<br>.35<br>.35<br>.35<br>.39<br>.39<br>.52<br>.54    | .27<br>.27<br>.27<br>.27<br>.27<br>.27<br>.31<br>.31<br>.40<br>.43        | .22<br>.22<br>.22<br>.22<br>.22<br>.22<br>.25<br>.25<br>.32<br>.34        | .18<br>.18<br>.18<br>.18<br>.18<br>.18<br>.20<br>.20<br>.20<br>.27<br>.28        | .17<br>.17<br>.17<br>.17<br>.17<br>.17<br>.19<br>.19<br>.255<br>.265             |
| 15A5060<br>15A5061<br>15A5062<br>15A5063<br>15A5064<br>15A5066<br>15A5066<br>15A5068<br>15A5068<br>15A5069            | 200<br>1<br>2<br>5<br>6<br>10<br>15<br>20<br>25<br>50         | 15<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25       | 3/8<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>X 6<br>X 6<br>3/8<br>3/8    | 13%<br>5%<br>5%<br>5%<br>5%<br>5%<br>5%<br>5%<br>5%<br>5%<br>5%<br>5%<br>5%     | .75<br>.48<br>.48<br>.48<br>.48<br>.48<br>.48<br>.54<br>.54<br>.54               | .56<br>.35<br>.35<br>.35<br>.35<br>.35<br>.35<br>.39<br>.39<br>.50    | .44<br>.27<br>.27<br>.27<br>.27<br>.27<br>.27<br>.27<br>.31<br>.31<br>.39 | .35<br>.22<br>.22<br>.22<br>.22<br>.22<br>.22<br>.22<br>.25<br>.25<br>.31 | .29<br>.18<br>.18<br>.18<br>.18<br>.18<br>.18<br>.18<br>.20<br>.20<br>.20        | .28<br>.17<br>.17<br>.17<br>.17<br>.17<br>.17<br>.19<br>.19<br>.245              |
| 15A5070<br>15A5071<br>15A5072<br>15A5073<br>15A5074<br>15A5075<br>15A5076<br>15A5077<br>15A5078<br>15A5079            | 100<br>1<br>2<br>3<br>5<br>10<br>20<br>35<br>50<br>1          | 25<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>100            | 3/8<br>1/4<br>1/4<br>1/4<br>1/4<br>3/8<br>3/8<br>3/8<br>3/8<br>1/4    | 1 1/8<br>5/8<br>5/8<br>5/8<br>5/8<br>5/8<br>3/4<br>1<br>1 1/8<br>5/8            | .72<br>.48<br>.48<br>.48<br>.54<br>.54<br>.66<br>.69<br>.72<br>.54               | .54<br>.35<br>.35<br>.35<br>.39<br>.50<br>.52<br>.54<br>.39           | .43<br>.27<br>.27<br>.27<br>.31<br>.39<br>.40<br>.43<br>.31               | .34<br>.22<br>.22<br>.22<br>.25<br>.31<br>.32<br>.34<br>.25               | .28<br>.18<br>.18<br>.18<br>.20<br>.26<br>.27<br>.28<br>.20                      | .265<br>.17<br>.17<br>.17<br>.17<br>.19<br>.245<br>.255<br>.265<br>.19           |
| 15A5080<br>15A5081<br>15A5082<br>15A5083<br>15A5085<br>15A5085<br>15A5086<br>15A5087<br>15A5088<br>15A5089<br>15A5089 | 5<br>6<br>10<br>20<br>25<br>1<br>2<br>3<br>4<br>5<br>10       | 100<br>100<br>100<br>100<br>150<br>150<br>150<br>150<br>150                | Ki 1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4<br>1/4 | 5/8<br>3/4<br>3%<br>1<br>1 1/n<br>5/8<br>3/4<br>5/8<br>3/4<br>5/8<br>3/4<br>7/8 | .66<br>.69<br>.75<br>.78<br>.48<br>.54<br>.54<br>.54<br>.66<br>.66               | .50<br>.50<br>.52<br>.56<br>.35<br>.39<br>.50<br>.50<br>.50           | .39<br>.39<br>.40<br>.44<br>.45<br>.27<br>.31<br>.31<br>.39<br>.39<br>.43 | .31<br>.31<br>.32<br>.35<br>.37<br>.22<br>.25<br>.25<br>.31<br>.31<br>.34 | .26<br>.26<br>.27<br>.29<br>.30<br>.18<br>.20<br>.20<br>.20<br>.26<br>.26<br>.28 | .245<br>.245<br>.255<br>.28<br>.286<br>.17<br>.19<br>.19<br>.245<br>.245<br>.265 |
|                                                                                                                       |                                                               |                                                                            |                                                                       |                                                                                 |                                                                                  |                                                                       |                                                                           |                                                                           |                                                                                  |                                                                                  |

#### MALLORY SX POLYSTYRENE CAPACITORS

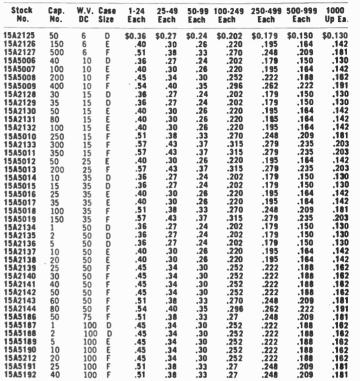


High purity aluminum foil and polystyrene dielectric gives High purity aluminum foil and polystyrene dielectric gives best temperature stability, small size, high insulation re-sistance, low power factor and humidity protection. Re-places mica, film, paper and ceramic capacitors in most applications. Voitage 600 WVDC. Tolerance ±1 Mmf. below 20 Mmf., others ±5%. Temperature range -40° C. to 85° C. Size 5 through 270 Mmf. 165-255″ D. x. 395″ L.; 300 through 5000 Mmf. .19.47″ D. x .59″ L.; 5000 through 10,000 Mmf. .46.59″ D. x .79″ L.

| Mmf.             | Mmf.                  | Mmf. | Mmf.          | Mmf.           | Mmf.            | Mmf.            | Mmf.            | Mmf.            |
|------------------|-----------------------|------|---------------|----------------|-----------------|-----------------|-----------------|-----------------|
| 5                | 18                    | 30   | 82            | 180            | 270             | 510             | 1500            | 3900            |
| 6.8              | 20                    | 47   | 100           | 200            | 330             | 680             | 2000            | 5000            |
| 10               | 22                    | 56   | 120           | 220            | 390             | 820             | 2200            | 6800            |
| 15               | 27                    | 68   | 150           | 240            | 470             | 1000            | 3300            | 10000           |
|                  | Stock No<br>pacity De |      | 1-24<br>Each  | 25-99<br>Each  | 100-249<br>Each | 250-499<br>Each | 500-999<br>Each | 1000 Up<br>Each |
|                  | hru 1000<br>hru 2200  |      | \$0.12<br>.15 | \$0,112<br>.13 | \$0.093<br>.111 | \$0.07          | \$0.054         | \$0.051         |
| 3300 t<br>6800 t |                       |      | .18<br>.21    | .153           | .13             | .103            | .076            | .07<br>.076     |

MALLORY MTA MOLDED TUBULAR ELECTROLYTICS

Precision molding assures case uniformity and quality. Polypropylene case provides extreme humidity protection. All-welded construction. Temperature range:  $-20^{\circ}$  C to  $+65^{\circ}$  C. Tolerance: -10%, +100%. Case sizes: D is  $\%''_{6}$  Dia. x  $3''_{6}$  L.; E is  $3'_{6}$  Dia. x 1" L.; F is  $4'_{2}$ " Dia. x  $13'_{6}$ " L.



#### MALLORY MTV MOLDED CASE VERTICAL MOUNT ELECTROLYTICS

Precision molding assures case uniformity and quality, Polypropylene case provides extreme humidity protection. All construction. Temperature range:  $-20^{\circ}$  C to  $+65^{\circ}$  C ance:  $-10^{\circ}$ ,  $+100^{\circ}$ . Has 2 1/4" 20AWG leads. ll welded C, Toler-

Case Sizes: CB is 36'' dia. x  $13'_{4}''$  L; CD is 36''dia. x  $13'_{4}''$  L CF is 36'' dia. x  $13'_{4}''$  L; CK is 36'' dia. x  $13'_{4}''$  L; DE is 32''dia. x 1'' L; DJ is 42'' dia. x  $13'_{4}''$  L; DN is 42'' dia. x  $13'_{2}''$ 

| Stock<br>No.       | Cap.<br>No. | W.V.<br>OC | Case<br>Size | 1-24<br>Each | 25-49<br>Each | 50-99<br>Each | 100-249<br>Each | 250-499<br>Each | 500-999<br>Each | 1000<br>Up Ea. |
|--------------------|-------------|------------|--------------|--------------|---------------|---------------|-----------------|-----------------|-----------------|----------------|
| 15A5193            | 200         | 3          | CF           | \$0.48       | \$0.36        | \$0.31        | \$0.267         | \$0.237         | \$0.199         | \$0.172        |
| 15A5194            | 300         | 3          | CK           | .48          | .36           | .31           | .267            | .237            | .199            | .172           |
| 15A5195            | 700         | 33         | DJ           | .56          | .42           | .37           | .313            | .277            | .233            | .201<br>.213   |
| 15A5196<br>15A5197 | 1000<br>100 | 6          | DN<br>CB     | .60<br>.42   | .45<br>.32    | .40<br>.27    | .331<br>.23     | .292            | .247<br>.173    | .213           |
| 15A519/            | 250         | ő          | ČK           | .48          | .32           | .31           | .25             | .200            | .199            | .172           |
| 15A5199            | 500         | 6          | ĎĴ           | .48          | .40           | .36           | .283            | .262            | .222            | .191           |
| 15A5200            | 800         | ĕ          | DN           | .60          | .45           | .40           | .331            | .292            | .247            | .213           |
| 15A5201            | 100         | ĭo         | ČD           | .42          | .32           | .27           | .23             | .206            | .173            | .15            |
| 15A5202            | 250         | 10         | ČP           | .48          | .36           | .31           | .267            | .237            | .199            | .172           |
| 15A5203            | 400         | 10         | DJ           | .56          | .42           | .37           | .313            | .277            | .233            | .201           |
| 15A5204            | 600         | 10         | DN           | .60          | .45           | .40           | .331            | .292            | .247            | .213           |
| 15A5166            | 50          | 15         | СВ           | .42          | .32           | .27           | .23             | .206            | .173            | ,15            |
| 15A5167            | 100         | 15         | CF           | .42          | .32           | .27           | .23             | .206            | .173            | .15            |
| 15A5168            | 250         | 15         | DE           | .54          | .40           | .36           | .283            | .262            | .222            | .191           |
| 15A5169            | 500         | 15         | DN           | .60          | .45           | .40           | .331            | .292            | .247            | .213           |
| 15A5183            | 50          | 25         | CD           | .42          | .32           | .27           | .23             | .206            | .173            | .15            |
| 15A5170            | 100         | 25         | CP           | .48          | .36           | .31           | .267            | .237            | .199            | .172           |
| 15A5171            | 250         | 25         | DN           | .60          | .45           | .40           | .331            | .292            | .247            | .213           |
| 15A5172<br>15A5173 | 25<br>50    | 35<br>35   | CB<br>CF     | .42          | .32<br>.36    | .27<br>.31    | .23<br>.267     | .206            | .173            | .15<br>.172    |
| 15A5173            | 100         | 35         | DE           | .46          | .30           | .31           | .287            | .237            | .222            | .191           |
| 15A5175            | 200         | 35         | DN           | .60          | .40           | .30           | .203            | .202            | .247            | .213           |
| 15A5176            | 1           | 50         | ČB           | .40          | .30           | .40           | .220            | .195            | .164            | .143           |
| 15A5177            |             | 50         | ČВ           | .40          | .30           | .26           | .220            | .195            | .164            | .143           |
| 15A5178            | 2<br>5      | 50         | ČB           | .40          | .30           | .26           | .220            | .195            | .164            | .143           |
| 15A5179            | 10          | 50         | ČB           | .42          | .32           | .27           | .23             | .206            | .173            | .15            |
| 15A5180            | 25          | 50         | ČĒ           | .48          | .36           | .31           | .267            | .237            | .199            | .172           |
| 15A5181            | 50          | 50         | DE           | .48          | .36           | .31           | .267            | .237            | .199            | .172           |
| 15A5182            | 100         | 50         | DN           | .60          | .45           | .40           | .331            | .292            | .247            | .213           |
| 15A5184            | 8           | 75         | СВ           | .48          | .36           | .31           | .267            | .237            | .199            | .172           |
| 15A5185            | 25          | 75         | CP           | .54          | .40           | .36           | .283            | .262            | .222            | .191           |
| 15A5205            | 50          | 75         | DJ           | .54          | .40           | .36           | .283            | .262            | .222            | .191           |
| 15A5206            | 1           | 100        |              | .40          | .30           | .26           | .220            | .195            | .164            | .143           |
| 15A5207            | 2           | 100        |              | .40          | .30           | .26           | .220            | .195            | .164            | .143           |
| 15A5208            | 5           | 100        |              | .48          | .36           | .31           | .267            | .237            | .199            | .172           |
| 15A5209<br>15A5210 | 10          | 100        |              | .48          | .36           | .31           | .267            | .237            | .199            | .172           |
| 15A5210            | 25<br>50    | 100        |              | .54<br>.54   | .40<br>.40    | .36<br>.36    | .283            | .262<br>.262    | .222<br>.222    | .191<br>.191   |
| IJNJZII            | 50          | 100        |              | .74          | .40           | .30           | .203            | .202            | .222            | 1.1.01         |

## MALLORY CAPACITORS

**CORNELL-DUBILIER CAPACITORS** 

#### "BLUE BEAVER" TUBULAR ELECTROLYTICS



Small size, hermetically sealed in aluminum—with overall cardboard insulating sleeve. Tinned wire leads on all single section, duals and triples have insulated leads with mtg. strap. Rated 85° C except 500 V. and higher 65° C. Tolerance to 50 V. -10% to 250 V. -10% to +100%, 351 V. and over -10% to ze shown to +150%, 51 to 35 50%. Can size shown.

| 50%. Ca                      | n size show                  | wn.<br>BR                   | BBR SINGLE S                                                                                                                                                                                       | ECTION               |                   |               |                    | /0 10              |
|------------------------------|------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------|---------------|--------------------|--------------------|
| Stock<br>No.                 | Mfg.<br>Type                 | WV<br>Mfd. DC               | Size                                                                                                                                                                                               | 1-24<br>Each         | 25-49<br>Each     | 50-99<br>Each | 100-499<br>Each    | 500 Up<br>Each     |
| 158900<br>158904             | 5-6<br>25-6                  | 5 6<br>25 6                 | 3/8 x 1%6"<br>3/8 x 1%6"                                                                                                                                                                           | \$0.48<br>.51        | \$0.35<br>.37     | \$0.27<br>.29 | \$0.22<br>.23      | \$0.19<br>.20      |
| 158905<br>158973             | 50-6<br>100-6                | 50 6<br>100 6               | 3/a x 1 ¼ "″                                                                                                                                                                                       | .51<br>.57<br>.72    | .41<br>.50        | .32           | .28<br>.31         | .22<br>.27         |
| 15A975<br>15A607             | 500-6<br>1000-6              | 500 6<br>1000 6             | 1/2 x 1/16"<br>1/2 x 17/6"<br>5/8 x 1 <sup>1</sup> /16"                                                                                                                                            | .93<br>1.14          | .73<br>.89        | .57           | .45                | .39<br>.48         |
| 158261<br>158907             | 2000-6<br>100-15             | 2000 6<br>100 15            | 3/4 x 2"<br>1/2 x 1/4"                                                                                                                                                                             | 1.38                 | 1.04              | .84           | .67<br>.33         | .58                |
| 15A544<br>15B291             | 500-15<br>1000-15            | 500 15<br>1000 15           | 1/2 x 1%"<br>3/8 x 11%"                                                                                                                                                                            | 1.05                 | .82<br>1.07       | .64           | .51<br>.67         | .44                |
| 15A911                       | 2000-15<br>5000-15           | 2000 15<br>5000 15          | 3/4 x 2"<br>1 x 3"                                                                                                                                                                                 | 1.92                 | 1.26              | .97<br>1.91   | .78<br>1.53        | .68<br>1.31        |
| 15A2011<br>15A241            | 10-25                        | 10 25                       | 3⁄8 x 1¼√″                                                                                                                                                                                         | .60                  | .42<br>.42<br>.42 | .33           | .26                | .23                |
| 15A925<br>15A242             | 20-25<br>25-25               | 20 25<br>25 25              | 3/8 x 1½6"<br>3/8 x 1½6"                                                                                                                                                                           | .60<br>.60           | .44               | .34<br>.35    | .27<br>.28         | .24                |
| 15A243<br>15A244             | 50-25<br>100-25              | 50 25<br>100 25             | 1/2 X 1/4"<br>1/2 X 1/4"                                                                                                                                                                           | .66<br>.81           | .47<br>.57        | .37<br>.45    | .30<br>.36         | .25<br>.31         |
| 15A799<br>15A800             | 250-25<br>500-25             | 250 25<br>500 25            | 1/2 x 1/4"<br>1/2 x 1/4"<br>1/2 x 1/4"<br>5/8 x 11/4"                                                                                                                                              | 1.02<br>1.38         | .79<br>1.05       | .82<br>.83    | .49<br>.67         | .42<br>.57         |
| 158760<br>158784             | 1000-25<br>2000-25           | 1000 25<br>2000 25          | 3/4 X 2"<br>7/8 X 21/2"                                                                                                                                                                            | 2.37<br>2.91         | 1.82<br>2.25      | 1.42<br>1.76  | 1.14<br>1.41       | .97<br>1.21        |
| 15B134<br>15B431             | 1-50<br>2-50                 | 1 50<br>2 50<br>5 50        | 3/8 x 1/4"<br>3/8 x 1/4"                                                                                                                                                                           | .54<br>.54           | .39<br>.39        | .31<br>.31    | .24<br>.24         | .21<br>.21         |
| 15A238<br>15A237             | 5-50<br>10-50                | 10 50                       | 3⁄8 x 1¼₀″<br>3⁄8 x 1¼₀″                                                                                                                                                                           | .60<br>.60           | .42<br>.42        | .32<br>.33    | .26<br>.27         | .22<br>.23         |
| 15A238<br>15A239             | 25-50<br>50-50               | 25 50<br>50 50              | $\frac{1}{2} \times \frac{1}{16}''$<br>$\frac{1}{2} \times \frac{1}{6}''$                                                                                                                          | .63<br>.72           | .44<br>.51        | .35<br>.40    | .28<br>.32         | .24                |
| 15A240<br>15A801             | 100-50<br>150-50             | 100 50<br>150 50            | 1/2 x 1/4"<br>1/2 x 1/4"<br>5/8 x 1/4"<br>3/4 x 1/4"                                                                                                                                               | .84                  | .59               | .46<br>.51    | .37<br>.41         | .32                |
| 15A802<br>15A839             | 250-50<br>500-50             | 250 50<br>500 50            |                                                                                                                                                                                                    | 1.05                 | .87<br>1.11       | .64           | .51                | .44                |
| 158785<br>158788             | 1000-50<br>2000-50           | 1000 50<br>2000 50          | 1 x 2 <sup>1</sup> / <sub>6</sub> "<br>13/8 x 2 <sup>3</sup> / <sub>4</sub> "                                                                                                                      | 2.52<br>3.48         | 1.93 2.60         | 1.49 2.02     | 1.20               | 1.03               |
| 15A221<br>15A222             | 4-150<br>8-150               | 4 150<br>8 150              | 3/8 X 1/4"<br>1/2 X 1/4"                                                                                                                                                                           | .60<br>.63           | .43<br>.45        | .33<br>.34    | .27                | .23                |
| 15A2012<br>15A951            | 10-150<br>12-150             | 10 150<br>12 150            | $\frac{1}{2} \times \frac{1}{16}$                                                                                                                                                                  | .63<br>.66           | .46<br>.42        | .35<br>.36    | .29                | .25                |
| 15A224<br>15A225             | 16-150<br>20-150             | 16 150<br>20 150            | 1/2 x 1/4"<br>1/2 x 1/4"<br>1/2 x 1/4"<br>3/4 x 1/4"<br>3/4 x 11/4"<br>3/4 x 11/4"                                                                                                                 | .69<br>.72           | .49<br>.50        | .38           | .31<br>.31         | .26                |
| 15A226<br>15A227             | 30-150<br>40-150             | 30 150<br>40 150            | 3/4 × 11/4"<br>3/4 × 11/4"                                                                                                                                                                         | .78                  | .55<br>.58        | .43<br>.50    | .34<br>.36         | .30<br>.31         |
| 15A228<br>15A789             | 50-150<br>80-150             | 50 150<br>80 150            | 3/4 x 11%/"<br>7/8 x 11%/"                                                                                                                                                                         | .84                  | .59<br>.68        | .46<br>.54    | .37                | .32<br>.37         |
| 15A797<br>15B817             | 100-150<br>150-150           | 100 150<br>150 150          | 7⁄8 x 2″<br>1 x 2¥₄″                                                                                                                                                                               | 1.05                 | .74               | .58           | .46<br>.51         | .40                |
| 15A2013<br>15B828            | 200-150<br>250-150           | 200 150<br>250 150          | 1 v 2//                                                                                                                                                                                            | 1.32<br>1.53         | .98<br>1.17       | .77           | .62<br>.73         | .53                |
| 15B289<br>15A5091            | 300-150<br>4-250             | 300 150<br>4 250            | $1 \times 3\%6''$<br>$1 \times 3\%6''$<br>$1/2 \times 1\%6''$                                                                                                                                      | 1.77                 | 1.35              | 1.04          | .84<br>.30         | .72<br>.26         |
| 15B870<br>15A884             | 8-250<br>12-250              | 8 250<br>12 250             | 16 9 17/ 17                                                                                                                                                                                        | .69                  | .54<br>.57        | .41           | .33                | .29<br>.31         |
| 158264<br>15A2014            | 20-250                       | 20 250<br>30 250            | 1/2 x 1/4"<br>1/2 x 1/4"<br>3/4 x 1/4"<br>3/4 x 1 <sup>1</sup> /4"                                                                                                                                 | .81<br>.87           | .64<br>.68        | .49           | .41                | .34<br>.37         |
| 15B265<br>15B266             | 40-250<br>50-250             | 40 250<br>50 250            | 3/4 × 2"<br>7/8 × 1"/4"                                                                                                                                                                            | .93<br>1.02          | .73               | .53           | .46<br>.50         | .39<br>.43         |
| 158267<br>15C786             | 100-250<br>200-250           | 100 250<br>200 250          | 1 x 2%/″                                                                                                                                                                                           | 1.47                 | .96<br>1.28       | .75           | .60<br>.80         | .52                |
| 15A377                       | 2-450                        | 200 250<br>2 450<br>4 450   | 7/8 X 1 ½₄″                                                                                                                                                                                        | .66                  | .52               | .40           | .32                | .28                |
| 15A496<br>15A202             | 4-450<br>8-450               | 8 450                       | 5/8 x 1/4"<br>3/4 x 1/4"<br>3/4 x 1/4"<br>3/4 x 1/4"<br>3/4 x 11/4"                                                                                                                                | .69<br>.75           | .53<br>.59        | .42           | .34<br>.37<br>.38  | .32                |
| 15A2017<br>15A205<br>15A206  | 10-450<br>16-450             | 10 450<br>16 450            | 3/4 x 1%"<br>3/4 x 11%"                                                                                                                                                                            | .78<br>.84           | .62<br>.65        | .47<br>.53    | .42                | .32<br>.36         |
| 15A948                       | 20-450<br>30-450             | 20 450<br>30 450            | 7/8 x 1 <sup>1</sup> / <sub>16</sub> "<br>1 x 2"                                                                                                                                                   | .93<br>1.02          | .73<br>.80        | .56<br>.62    | .45<br>.50         | .39<br>.43         |
| 15A207<br>15A748<br>15A796   | 40-450<br>50-450             | 40 450<br>50 450            | 1 x 2% «"<br>1 x 2'% «"                                                                                                                                                                            | 1.08                 | .83<br>.97        | .64<br>.75    | .52<br>.61         | .45<br>.57         |
| 15A425                       | 80-450<br>100-450<br>150-450 | 80 450<br>100 450           | 1 x 2"<br>1 x 2% "<br>1 x 2'% "<br>1 x 3% "<br>1 x 3% "<br>1 x 3'% "<br>1 % x 3% "                                                                                                                 | 1.68                 | 1.28              | .99<br>1.15   | .79<br>.92         | .68<br>.80         |
| 15A2018<br>15A610<br>15A2019 | 200-450<br>4-500             | 150 450<br>200 450<br>4 500 |                                                                                                                                                                                                    | 2.85<br>3.00         | 2.00<br>2.50      | 1.55<br>1.95  | 1.27<br>1.56       | 1.07<br>1.34       |
| 15A2019<br>15A402<br>15A403  | 8-500                        | 8 500                       | 5% x 1%"<br>3% x 1%"<br>7% x 1%"                                                                                                                                                                   | .72                  | .56<br>.61        | .43<br>.47    | .35<br>.38         | .30<br>.33         |
| 158403<br>158426<br>158292   | 16-500<br>20-500<br>30-500   | 16 500<br>20 500            | '/8 X Z''                                                                                                                                                                                          | .90<br>.96           | .70               | .54           | .43<br>.47<br>.52  | .38<br>.40<br>.45  |
| 158292<br>158725<br>158406   | 30-500<br>20-600<br>8-700    | 30 500<br>20 600<br>8 700   | 1 x 2"<br>1¼ x 3¼"                                                                                                                                                                                 | 1.05<br>2.31<br>1.74 | .82<br>1.73       | .64<br>1.35   | 1.078              | .45<br>.929<br>.70 |
| 15A2021<br>15B755            | 8-700<br>10-700<br>16-700    | 8 700<br>10 700<br>16 700   | 1%, x 31%,"<br>"%, x 3%,"<br>1%, x 3%,"<br>1%, x 3%,"                                                                                                                                              | 1.74                 | 1.31              | 1.02          | .81<br>.87<br>1.05 | .70<br>.74<br>.90  |
|                              | 10-700                       | BBRD                        | 1% x 4%"<br>DUAL SECTION-                                                                                                                                                                          | 2.25<br>—150 V       | 1.69<br>/olt      | 1.31          |                    |                    |
| Stk. No.                     | Mfg.No.                      | Mfd.                        | Size                                                                                                                                                                                               | 1-24<br>Each         | 25-49<br>Each     | 50-99<br>Each | 100-499<br>Each    | 500 Up<br>Each     |
| 15A230<br>15A463             | 2215<br>4215                 | 20-20<br>40-20              | <sup>3</sup> / <sub>4</sub> x 1 <sup>1</sup> / <sub>16</sub> "<br><sup>7</sup> / <sub>8</sub> x 1 <sup>1</sup> / <sub>16</sub> "<br><sup>7</sup> / <sub>8</sub> x 1 <sup>1</sup> / <sub>16</sub> " | \$0.99<br>1.05       | \$0.79<br>.84     | \$0.60<br>.63 | \$0.48<br>.51      | \$0.47<br>.49      |
| 15A400<br>15A984             | 3315<br>4415                 | 30-30<br>40-40              | 7/x11///"<br>7/x2"                                                                                                                                                                                 | 1.08                 | .84               | .64           | .51<br>.53         | .49<br>.51         |
| 15A401<br>15A449             | 5315<br>5515                 | 50-30<br>50-50              | 7/8x2"<br>1x2"                                                                                                                                                                                     | 1.17                 | .87<br>.87        | .67<br>.73    | .53                | .51<br>.57         |
| 158551                       | 8515                         | 80-50<br>BBRD               | 1x2 1/2"<br>DUAL SECTION-                                                                                                                                                                          | 1.38<br>             | 1.02              | .78           | .62                | .60                |
| 15A209                       | 8D45                         | 8-8                         | 7/8×111/16"                                                                                                                                                                                        | 1.02                 | .91               | .69           | .55<br>.75         | .53                |
| 15A980<br>15B434             | 2245<br>4445                 | 20-20<br>40-40              | 1x3″<br>1x4¼ <sub>6</sub> ″                                                                                                                                                                        | 1.50<br>2.04         | 1.23<br>1.74      | .94<br>1.32   | .75<br>1.06        | .72<br>1.02        |
| 15A803                       | 22215                        | 88RT 1<br>20-20-20          | TRIPLE SECTION                                                                                                                                                                                     |                      | VOLT<br>1.23      | .94           | .75                | .72                |
| 15A613<br>15A804             | 42215<br>44415               | 40-20-20<br>40-40-40        | 1×1'%"<br>1×2%"                                                                                                                                                                                    | 1.35                 | 1.33              | 1.02          | .81<br>.83         | .78                |
| 15B546                       | 84215                        | 80-40-20                    | 1x3"                                                                                                                                                                                               | 1.65                 | 1.40              | 1.08          | .85                | .83                |

PKM PAPER MYLAR TUBULARS Combination dielectric strength of paper and mylar is superior to either paper or mylar alone. High impact resistant case also highly moisture and humidity resistant. Tolerance 10% temperature to  $125^{\circ}\,\text{C}.$ 

SPECIFY STOCK NUMBER AND CAPACITY ON ALL ORDERS

|              |                    | Stk. No. 15/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 23-400       | NVDC          |               |                 |                |
|--------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|---------------|-----------------|----------------|
| Cap.<br>Mfd. | Mfg.<br>Type       | Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1·24<br>Each | 25-49<br>Each | 50-99<br>Each | 100-499<br>Each | 500 Up<br>Each |
| .0047        | PKM4D47            | %₅x1″                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$0.21       | \$0.16        | \$0.11        | \$0.09          | \$0.08         |
| .01          | PKM4S1             | %6×1″                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .21          | .16           | 11            | .09             | .08            |
| .027         | PKM4S27            | 3/8×11/4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .21          | .16           | .11           | .09             | .08            |
| .033         | PKM4S33            | 3/8×11/4″                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .21          | .16           | .11           | .09             | .08            |
| .047         | PKM4S47<br>PKM4S5  | % <sub>6</sub> x1 % "<br>% <sub>6</sub> x1 % "<br>% <sub>6</sub> x1 % "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .21<br>.21   | .16           | .11           | .09<br>.09      | 80.<br>80.     |
| .05<br>.068  | PKM455<br>PKM4568  | 2/16X 1 /4 "<br>7/ 11 1 / 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .21          | .16<br>.16    | .11           | .09             | .08            |
| .000         | PKM4506            | 216X1 24 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .21          | .16           | .12           | .10             | .08            |
| .15          | PKM4P15            | 1/6/1/6/<br>1/2x1/2"<br>1/2x1/2"<br>5/6x1/6"<br>1/6x1/6"<br>1/6x1/6"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .24          | .19           | .16           | .13             | .11            |
| .22          | PKM4P22            | 5/ x17/11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .27          | .21           | .18           | .14             | .12            |
| .25          | PKM4P25            | \$/ ¥1 7/11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .33          | .26           | .21           | .18             | .14            |
| .47          | PKM4P47            | 11%, x115%, //                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .45          | .35           | .31           | .25             | .18            |
| .56          | PKM4P56            | 11/16×11×16"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .48          | .39           | .34           | .32             | .24            |
| 1.0          | PKM4W1             | 1x21/#"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .75          | .60           | .52           | .48             | .36            |
|              |                    | Stk. No. 15/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 124-600 \    | NVDC          |               |                 |                |
| .0012        | PKM6D12            | %₄×1″                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .21          | .15           | .11           | .09             | .08            |
| .0015        | PKM6D15            | %₄×1″                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .21          | .15           | .11           | .09             | .08            |
| .0022        | PKM6D22            | %6×1″                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .21          | .15           | .11           | .09             | 80.            |
| .0033        | PKM6D33            | 5/16×1″                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .21          | .15           | .11           | .09             | .08            |
| .005         | PKM6D5             | 3/8×11/4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .21          | .15           | .11           | .09             | 80.            |
| .0068        | PKM6D68            | % x1 / 4"<br>/ 4 x1 / 4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .21          | .15           | .11           | .09             | 80.<br>80.     |
| .0082        | PKM6D82            | %X1 /4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .21<br>.21   | .15<br>.15    | .11           | .09<br>.09      | .08            |
| .01          | PKM6S1             | 78 X 1 74 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .21          | .15           |               | .09             | .08            |
| .015         | PKM6S15<br>PKM6S22 | 78×174"<br>1/ v11///                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .21          | .15           |               | .09             | .08            |
| .022<br>.033 | PKM6S22<br>PKM6S33 | 2/ u11//                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | .21          | .15           |               | .09             | .08            |
| .033         | PKM6S47            | 12 v112 //                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .24          | .15           | .12           | .10             | .09            |
| .05          | PKM6S5             | 1/2×11/2"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .24          | .15           | .12           | .10             | .09            |
| .056         | PKM6S56            | 1/x11/4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | .24          | .15           | .12           | .10             | .09            |
| .068         | PKM6S68            | 1/2×11/5"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .27          | .17           | .13           |                 | .09            |
| .1           | PKM6P1             | %6×1%6"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .27          | .20           | .16           | .13             | .11            |
| .22          | PKM6P22            | >> x1 /2"<br>>< x1 /2"<br>/2 /2"<br>/2 x1 /2"<br>/2 /2"<br>/2 x1 /2"<br>/2 | .42          | .33           | .29           | .24             | .17            |
| .25          | PKM6P25            | 11/6×11%6"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .48          | .38           | .34           | .28             | .21            |
| .47          | PKM6P47            | 1x2½″″<br>1x2½″                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .75          | .60           | .52           | .42             | .30            |
| .5           | PKM6P5             | 1x2/@"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | .78          | .63           | .55           | .44             | .32            |

#### CORNELL-DUBILIER METALLIZED MPY



Type MPY. Metallized paper dielectric encased in moisture proof tri-clad case. Small size, wax free, non-leaking, operates up to 125° C. without de-rating. Tolerance  $\pm 20\%$ . Specify Stk. Ne. and Capacity

|                           | Stock No. 1586-200 Volt                                   |                             |                             |                             |                     |                               |                        |                       |                      |  |  |
|---------------------------|-----------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|-------------------------------|------------------------|-----------------------|----------------------|--|--|
| Mfd.                      | Size                                                      | 1-24<br>Each                | 25-49<br>Each               | 50-99<br>Each               | Mfd.                | Size                          | 1-24<br>Each           | 25-49<br>Each         | 50-99<br>Each        |  |  |
| .022<br>.047<br>.1<br>.22 | 1/4×5/8"<br>1/4×5/8"<br>3/4×5/8"<br>3/8×5/8"<br>15/2×5/8" | \$0.45<br>.45<br>.54<br>.66 | \$0.34<br>.34<br>.38<br>.47 | \$0.26<br>.26<br>.30<br>.37 | .47<br>1.00<br>2.00 | %4×1%4"<br>%4×1%4"<br>%8×1%6" | \$0.78<br>1.08<br>1.50 | \$0.56<br>.81<br>1.10 | \$0.44<br>.63<br>.86 |  |  |



#### **CORNELL-DUBILIER** DIPPED SILVERED MICAS

Rated 500 working volts DC, 1000 volts test. Temperature range -55° to +125° C. 5% tolerance except 5 Mmf.\* is 10%. Size of CD15 from .45 x .36 x .17 to .49 x .42 x .24". Size of CD19 from .65 x .51 x .20 to .71 x .59 x .37". Size of CD30 is .80 x .89 x .34".

Specify Stock No. 15A2122 and Capacity on Orders Cap. Pf. Mfg. Type 1-24 Ea. 25-99 Ea. 100-499 Ea. 500-999 Ea. \$0.15 .15 .13 \$0.10 .10 .08 CD15CD050D03 CD15CD100J03 \$0.24 \$0.11 5\* ĭo .24 .21 .11 22 CD15ED220103 CD15ED220J03 CD15ED270J03 CD15ED330J03 CD15ED390J03 CD15ED470J03 CD15ED510J03 .13 .13 .10 33 13 .10 39 47 .13 .13 .13 51 CD15ED560J03 CD15ED680J03 CD15ED750J03 56 68 75 CD15FD750103 CD15FD101103 CD15FD201103 CD15FD201103 CD15FD201103 CD15FD201103 CD15FD301103 CD15FD391103 CD15FD431103 CD15FD431103 CD15FD451103 CD19FD551103 CD19FD561103 CD19FD521103 CD19FD751103 100 150 200 270 300 360 390 430 470 510 560 .15 680 750 820 910 .17 .20 .21 .27 .32 CD19FD911J03 1000 1500 2000 CD19FD102J03 CD19FD152J03 CD19FD202J03 .38 .45 .57 CD19FD242J03 CD19FD302J03 CD19FD432J03 2400 3000 4300 .62 4700 5100 CD19FD472J03 CD19FD512J03 1.23 .82 1.32 .88 1.14 10,000 CD30FD103J03

|                                                                     |                                                      | C                                                                            | DÉ                                                                                         | CC                                                                                                                                    | DRM                                                                               | NE                                                  | LL                                                                                                                                              | -D                                                             | UE                                                        | <b>BI</b>                  | LI                                                                         | E                                                   | R                                                         | CA                                                   | NP.                                                                        | A                     | CI                                            | T                                                      | OR                                     | S                                              |
|---------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------|----------------------------|----------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------|-----------------------|-----------------------------------------------|--------------------------------------------------------|----------------------------------------|------------------------------------------------|
| ~~~~                                                                | - ()) ਦ                                              | 41<br>C                                                                      |                                                                                            |                                                                                                                                       | L-DUB                                                                             |                                                     |                                                                                                                                                 |                                                                |                                                           |                            | 5PE                                                                        | CIFY 5                                              | TOCK NUM<br>Stock N                                       |                                                      | D CAPAC<br>97 — 20                                                         |                       |                                               | ORDER                                                  | IS                                     |                                                |
| ments<br>±10%                                                       | are deman<br>. Operatin<br>erate volta               | ding. Minim<br>g temperatu<br>ge 10% at<br>ECIFY STOC                        | ar capacitor i<br>um size and<br>ire range is<br>100C, and 5<br>K NUMBER A<br>tock No. 15A | is ideal wi<br>maximum<br>—55C to<br>0% at 12<br>NO CAPAC                                                                             | here space<br>moisture<br>+ 125C.<br>5C.<br>ITY ON AL                             | is limi<br>resistan<br>For ter                      | ited and r<br>nce. Tolera<br>mperature                                                                                                          | equire.<br>ance is                                             | Mfd.<br>.001<br>.01<br>.022<br>.033<br>.047               | 2D<br>2S<br>2S<br>2S<br>2S | 1<br>22<br>33<br>47                                                        | \$iz<br>.15 x<br>.23 x 1<br>.27 x<br>.27 x<br>.32 x | 1/2"<br>//2"<br>3/8"<br>3/4"<br>3/4"                      | -24 Ea.<br>\$0.21<br>.21<br>.24<br>.24<br>.24<br>.27 | \$0.17<br>.17<br>.18<br>.18<br>.20                                         |                       | \$0.14<br>.14<br>.15<br>.15<br>.16            | \$0                                                    | .12<br>.13<br>.13<br>.14               | \$0.10<br>.10<br>.12<br>.12<br>.12             |
| Mfd.                                                                | Mfg. No.<br>1D1                                      | Size                                                                         | 1-24 Ea.<br>\$0,21                                                                         | 25-49 E<br>\$0.17                                                                                                                     | a. 50-99  <br>\$0.14                                                              |                                                     | 499 Ea.                                                                                                                                         | 500 Up<br>\$0.10                                               | .068<br>.1<br>.22                                         | 2S<br>2P<br>2P             | 1                                                                          | .35 x 3<br>.41 x 7<br>.5 x 1                        | /8 <sup>//</sup>                                          | .27<br>.36<br>.39                                    | .21<br>.25<br>.29                                                          |                       | .16<br>.20<br>.22                             |                                                        | .14<br>.14<br>.15                      | .12<br>.12<br>.13                              |
| .01<br>.022<br>.033                                                 | 1\$1<br>1\$22<br>1\$33                               | .2 x 1/2"<br>.27 x 5/8"<br>.3 x 5/8"                                         | .21<br>.24<br>.24                                                                          | ,17<br>.18<br>.18                                                                                                                     | ,14<br>.14<br>.15<br>.15                                                          |                                                     | .12<br>.13<br>.13                                                                                                                               | .10<br>.10<br>.12                                              | .33<br>.47<br>.68<br>1.0                                  | 2P<br>2P<br>2P<br>2W       | 47<br>68                                                                   | .55 x<br>.6 x 1 <sup>1</sup><br>.65 x<br>.75 x      | √4″<br>15⁄8″                                              | .45<br>.51<br>.57<br>.87                             | .32<br>.36<br>.42<br>.59                                                   | i<br>!                | .24<br>.29<br>.33<br>.46                      |                                                        | .19<br>.23<br>.29<br>.40               | .15<br>.19<br>.24<br>.34                       |
| .047<br>.068<br>.1                                                  | 1S47<br>1S68<br>1P1                                  | .26 x 3⁄4"<br>.28 x 3⁄4"<br>.29 x 7⁄8"                                       | .27<br>.27<br>.36                                                                          | .21<br>.21<br>.25                                                                                                                     | .16<br>.16<br>.20                                                                 | 1                                                   | .14<br>.14<br>.14                                                                                                                               | .12<br>.12<br>.12                                              | 2.0                                                       | 21                         |                                                                            | .98 x                                               |                                                           | 1.50                                                 | .98                                                                        |                       | .76                                           |                                                        | .66                                    | .55                                            |
| .22<br>.33<br>.47                                                   | 1P22<br>1P33<br>1P47                                 | .38 x 1"<br>.41 x 1½<br>.47 x 1¼                                             | .47                                                                                        | .29<br>.32<br>.33                                                                                                                     | .22<br>.24<br>.26                                                                 |                                                     | .15<br>.19<br>.22                                                                                                                               | .13<br>.15<br>.19                                              | .01<br>.022                                               | 6S<br>6S                   | 22                                                                         | .3 x 3/                                             | 7/8''                                                     | .30<br>.30                                           | .23<br>.23                                                                 | 1                     | .18<br>.18                                    |                                                        | .16<br>.16                             | .14<br>.14                                     |
| 1.0<br>2.0                                                          | 1W1<br>1W2                                           | .62 x 1¼2"<br>.95 x 1¾"                                                      |                                                                                            | .59<br>.98<br>998 — 400                                                                                                               | .46<br>.76<br>) WVDC                                                              |                                                     | .40<br>.66                                                                                                                                      | .34<br>.55                                                     | .047<br>.1<br>.22<br>.47                                  | 6S<br>6P<br>6P             | 1<br>22                                                                    | .41 x<br>.52 x 1<br>.66 x 1<br>.86 x 2              | 13/6″<br>15/8″                                            | .33<br>.42<br>.51<br>1.14                            | .24<br>.31<br>.37<br>.83                                                   |                       | .18<br>.24<br>.30<br>.65                      |                                                        | .16<br>.21<br>.25<br>.56               | .14<br>.18<br>.21<br>.46                       |
| .01<br>.022<br>.047<br>.1<br>.22<br>.47                             | 4S1<br>4S22<br>4S47<br>4P1<br>4P22<br>4P47           | .3 x 5%"<br>.32 x 3/4"<br>.4 x 7/8"<br>.46 x 1"<br>.56 x 13/6"<br>.7 x 15/8" | .27<br>.27<br>.30<br>.33<br>, .42<br>.78                                                   | .21<br>.21<br>.22<br>.24<br>.29<br>.56                                                                                                | .16<br>.16<br>.17<br>.18<br>.23<br>.43                                            |                                                     | .15<br>.15<br>.15<br>.17<br>.20<br>.37                                                                                                          | .12<br>.13<br>.13<br>.14<br>.17<br>.32                         | AN<br>Wide ra<br>mittent<br>No. 15a                       | AC                         | NNA<br>types<br>voltage                                                    | cover<br>cover<br>rated                             | TOR<br>all rotor (<br>. 50 V. Al<br>002-1, 66<br>011, 120 | CAPA<br>capacito<br>C.<br>to 92                      | ACITO<br>r needs.<br>Mfd. 7/a/                                             | Inte                  | r-                                            | ch                                                     | P                                      | 990                                            |
| Å                                                                   | to to                                                | ectangular o<br>ors. Rated -                                                 | ORNELL<br>OIL-FIL<br>can oil-filled,<br>-55° C to 8<br>ing as illust                       | hermetic<br>5° C. Tole                                                                                                                | CAPAC<br>ally sealed<br>rance ± 1                                                 | Ceran<br>0%. Su<br>wt. 5                            | tS<br>nic pillar<br>Ipplied wi                                                                                                                  | insula∙<br>th uni-                                             | Oil fill                                                  | led, h                     | B/<br>ors are<br>termeti                                                   | e sing<br>ically s                                  | IELL-E<br>TUB T<br>le section<br>sealed in<br>-55° to 8   | with<br>metal c                                      | DYR<br>two insi                                                            | ulated                | l termi<br>toleran                            | nats.                                                  |                                        |                                                |
| Stk. No<br>15A135<br>15A136<br>15A136<br>15A136<br>15A136<br>15A138 | 9 T6010<br>0 T6020<br>1 T6040<br>8 T10040<br>0 T1010 | 1<br>2<br>4<br>0 4<br>0 10                                                   | 600<br>600<br>1000<br>1000                                                                 | Size<br>21/4×1 [-5×1<br>27/8×1 [-5×2<br>31/2×1 [-5×2<br>43/4×1 [-5×2<br>43/4×1 [-5×2<br>43/4×1 [-5×2<br>43/4×1 [-5×2<br>43/4×1 [-5×2] | 5.1           1/2         5.8           1/2         6.2           3/4         9.4 | 10-2<br>1 \$2.4<br>4 2.6<br>6 3.0<br>8 3.2<br>2 4.8 | 24         25-49           9         \$2.25           5         2.40           1         2.73           2         2.91           5         4.39 | <b>50-99</b><br>\$2.10<br>2.24<br>2.54<br>2.71<br>4.08<br>2.82 | Stk. No<br>158345<br>158349<br>158351<br>158359<br>158328 | D'<br>D'<br>D'             | <b>Ifg. No</b><br>YR6025<br>YR6050<br>YR6100<br>YR6200<br>YR6200<br>YR1010 | 5 .<br>) .<br>) 1.<br>) 2.                          | 25 600<br>5 600<br>600<br>600                             | ) 1<br>) 1<br>) 2<br>) 2                             | Size<br>W.H.<br> }X1x3/4<br> }X1x7/8<br> X13/4X7/8<br> X2x11/8<br> X2x11/8 |                       | 1-9<br>\$1.92<br>2.13<br>2.55<br>3.33<br>3.00 | Pric<br>10-2<br>\$1.20<br>1.42<br>1.70<br>2.22<br>2.00 | 8 \$1.12<br>2 1.24<br>0 1.49<br>2 1.94 | 50-99<br>\$0.80<br>.89<br>1.06<br>1.39<br>1.25 |
| 04                                                                  | 9                                                    |                                                                              | ELL-DU                                                                                     |                                                                                                                                       |                                                                                   |                                                     |                                                                                                                                                 |                                                                | Cap. Mf<br>Min. Ma                                        | X:                         |                                                                            | Lgth.                                               | Stk. No.                                                  | Each                                                 | Cap. Mf<br>Min. Ma                                                         | X:                    |                                               |                                                        | Stk. No.                               | Each                                           |
| 1 th                                                                | to ma                                                | aximum rang                                                                  | rical reptace<br>ges shown ar<br>ple: to repla                                             | id any vol                                                                                                                            | tage equal                                                                        | to or                                               | lower that                                                                                                                                      | n volt-                                                        | 30 to<br>30 to<br>30 to                                   | 40<br>40<br>40             | 450<br>450<br>450                                                          | 3                                                   | 15A2084                                                   | 2.94                                                 | 7 to                                                                       | 10                    | UAD.<br>500                                   | SEC                                                    | TION                                   |                                                |
|                                                                     | Mfd.<br>shipg                                        | @ 500 V.<br>. wt. 8 ozs                                                      | *Indicates                                                                                 |                                                                                                                                       |                                                                                   |                                                     |                                                                                                                                                 |                                                                | 35 to<br>15 to<br>25 to                                   | 50<br>20<br>50             | 500<br>500<br>25                                                           | 2                                                   | 15A2095                                                   | 3.00                                                 | 7 to<br>7 to<br>7 to                                                       | 10<br>10<br>10        | 500<br>500<br>500                             | 2                                                      | 15A2119                                | \$2.13                                         |
| Cap. Mf<br>Min. Ma                                                  | d. Volts                                             | E SECTI                                                                      | CN<br>K. No. Each                                                                          | Cap. Mft<br>Min. Mai<br>60 to                                                                                                         |                                                                                   | Lgth.                                               | Stk. No.                                                                                                                                        | Each                                                           | 30 to<br>30 to<br>30 to                                   | 50<br>50<br>50             | 150<br>150<br>1 <b>50</b>                                                  | *13⁄4                                               | 15A2075                                                   | 1.80                                                 | 15 to<br>15 to<br>15 to<br>15 to                                           | 20<br>20<br>20<br>20  | 500<br>500<br>500<br>500                      | 2                                                      | 15A2118                                | 2.94                                           |
| 15 to<br>30.to<br>35 to                                             | 20 500<br>40 500<br>50 450                           | *1½ 15/<br>*2 15/                                                            | A2047 \$1.35<br>A2046 1.50<br>A2045 1.50                                                   | 15 to<br>60 to<br>30 to                                                                                                               | 20 450<br>80 450<br>40 450                                                        |                                                     | 15A7512<br>15A7513                                                                                                                              | 2.34<br>2.20                                                   | 50 to<br>30 to<br>15 to                                   | 80<br>40<br>20             | 450<br>450<br>450                                                          | 3                                                   | 15A2081                                                   | 3.24                                                 | 15 to<br>15 to                                                             | 20<br>20              | 500<br>500                                    | 2                                                      | 1342110                                |                                                |
| 60 to<br>60 to<br>60 to                                             | 80 500<br>100 150                                    | 2 15/                                                                        | 2044 2.40<br>2035 1.20<br>2042 1.80                                                        | 30 to                                                                                                                                 | 80 500<br>50 500<br>80 300                                                        | 3                                                   | 15A2070                                                                                                                                         | 3.00                                                           | 60 to<br>35 to<br>60 to                                   | 80<br>50<br>100            | 450<br>450<br>200                                                          | 31/2                                                | 15A2080                                                   | 3.60                                                 | 20 to                                                                      | 20<br>100<br>30<br>20 | 500<br>100<br>525                             | 2                                                      | 15A2116                                | 2.85                                           |
| 100 to<br>100 to<br>100 to                                          |                                                      | *3 15/                                                                       | 7518 2.40<br>A2036 1.92<br>A7519 1.92                                                      | 50 to<br>60 to<br>60 to                                                                                                               | 80 300<br>80 500<br>80 500                                                        | 2<br>34⁄2                                           | 15A2061<br>15A7514                                                                                                                              | 2.55<br>3.60                                                   | 50 to<br>40 to                                            | 80<br>60                   | 350<br>350                                                                 |                                                     |                                                           |                                                      | 15 to<br>15 to<br>15 to                                                    | 20<br>20<br>20        | 525<br>525<br>525                             | 3                                                      | 15A2120                                | 3.90                                           |
| 100 to<br>130 to<br>120 to                                          | 160 350<br>175 150                                   | 21/2 15/<br>*13/4 15/                                                        | A7520 1.35<br>A7521 1.65                                                                   | 100 to                                                                                                                                |                                                                                   | 34⁄2                                                | 15A7515                                                                                                                                         | 3.42                                                           | 40 to<br>60 to<br>60 to                                   | 60<br>80<br>80             | 350<br>450<br>450                                                          |                                                     | 15A2089                                                   | 3.42                                                 | 20 to<br>15 to<br>100 to                                                   | 30<br>20<br>160       | 450<br>450<br>250                             |                                                        | 4743700                                | 0.40                                           |
|                                                                     | 200 150<br>200 300<br>350 350                        | 2 15/                                                                        | A2034 1.80<br>A2041 2.40<br>A2038 3.90                                                     | 60 to<br>70 to<br>70 to                                                                                                               | 100 150<br>100 350<br>100 350                                                     | *2<br>3                                             | 15A2056<br>15A2062                                                                                                                              | 1.56<br>3.60                                                   | 20 to<br>70 to<br>60 to                                   | 30<br>100<br>80            | 450<br>450<br>450                                                          | 4                                                   | 15A2091                                                   | 3.60                                                 | 30 to<br>30 to<br>30 to                                                    | 40<br>40<br>40        | 250<br>500<br>500                             | 34/2                                                   | 15A7529                                | 3.42                                           |
| 240 to                                                              | 400 150<br>500 50                                    | 2 15/<br>2 15/                                                               | A7522 1.98<br>A2033 1.80<br>A7523 1.80                                                     | 60 to                                                                                                                                 | 100 300<br>200 150                                                                | 3                                                   | 15 <b>A2060</b>                                                                                                                                 | 3.60                                                           | 15 to<br>60 to<br>60 to                                   | 20<br>100<br>100           | 450<br>150<br>150                                                          | 34⁄2                                                | 15A2088                                                   | 3.60                                                 | 15 to<br>15 to<br>30 to                                                    | 20<br>20<br>40        | 500<br>500<br>450                             | 3                                                      | 15 <b>A7528</b>                        | 3.33                                           |
| 350 to<br>500 to<br>750 to                                          | 1000 25                                              | 2 15/                                                                        | A2031 1.53<br>A2030 2.13<br>A2032 3.00                                                     | 120 to<br>120 to                                                                                                                      | 200 150<br>200 250<br>200 250                                                     | 2<br>3                                              | 15A2055<br>15A2058                                                                                                                              | 2.40<br>3.60                                                   | 60 to<br>90 to                                            | 100<br>120                 | 150<br>300                                                                 | *21⁄2                                               | 15A7532                                                   | 3.00                                                 | 30 to<br>30 to<br>30 to                                                    | 40<br>40<br>40        | 450<br>450<br>450                             | 34⁄2                                                   | 15A2113                                | 3.87                                           |
| 1500 to<br>1500 to<br>2500 to                                       | 3000 25<br>3000 40                                   | 2 15<br>2½ 15                                                                | A2028 2.85<br>A7524 4.50<br>A7525 5.97                                                     | 500 to 1                                                                                                                              | 500 25<br>000 25                                                                  | *11⁄2                                               | 15A7509                                                                                                                                         | 2.31                                                           | 35 to<br>30 to<br>100 to                                  | 50<br>40<br>140            | 300<br>300<br>300                                                          | 24⁄2                                                | 15A2086                                                   | 3.60                                                 | 60 to<br>30 to<br>15 to                                                    | 80<br>40<br>20        | 450<br>450<br>450                             |                                                        |                                        |                                                |
| 7.40                                                                | DUAI                                                 | L SECTIO                                                                     | ON                                                                                         | 500 to 1<br>1250 to<br>1250 to                                                                                                        | 2500 20                                                                           | 14⁄2<br>*3                                          | 15A2052<br>15A7510                                                                                                                              | 3.00<br>3.00                                                   | 50 to<br>30 to<br>150 to                                  | 100<br>60<br>200           | 300<br>50<br>350                                                           | 3                                                   | 15A2078                                                   | 3.60                                                 | 60 to<br>60 to                                                             | 100<br>80             | 200<br>450<br>450                             | 31/2                                                   | 15A2110                                | 4.11                                           |
| 7 to<br>7 to<br>15 to<br>15 to                                      | 10 500<br>10 500<br>20 500<br>20 500                 | 13/4 15/<br>2 15/                                                            | A2068 \$1.20<br>A2067 1.80                                                                 |                                                                                                                                       | <b>TRIPL</b><br>15 450                                                            | E SEC                                               | CTION                                                                                                                                           |                                                                | 80 to<br>60 to                                            | 120<br>80                  | 350<br>350                                                                 | 41/2                                                | 15A2090                                                   | 4.50                                                 | 30 to<br>20 to<br>7 to                                                     | 40<br>30<br>10        | 450<br>450                                    | 34⁄2                                                   | 15A7526                                | 4.50                                           |
| 20 to<br>20 to                                                      | 30 350<br>30 350<br>40 250                           |                                                                              | A7511 1.77                                                                                 | 10 to<br>10 to                                                                                                                        | 15 450<br>15 450                                                                  | *21⁄2                                               | 15 <b>A2085</b>                                                                                                                                 | \$1.98                                                         | 200 to<br>120 to<br>7 to                                  | 10                         | 200<br>200<br>200                                                          | 3                                                   | 15A7517                                                   | 4.11                                                 | 60 to<br>30 to<br>15 to<br>20 to                                           | 80<br>50<br>20<br>50  | 450<br>450<br>450<br>75                       | 31/2                                                   | 15A2117                                | 3.42                                           |
| 30 to<br>30 to<br>30 to<br>30 to                                    | 40 250<br>40 500<br>40 500                           |                                                                              | A2059 1.50<br>A2066 2.70                                                                   | 15 to                                                                                                                                 | 20 500<br>20 500<br>20 500                                                        | *3                                                  | 15A7516                                                                                                                                         | 2.40                                                           | 200 to<br>120 to<br>100 to                                |                            | 200<br>200<br>200                                                          | 31/2                                                | 15A7533                                                   | 3.60                                                 | 350 to<br>60 to                                                            | 500<br>100            | 200<br>200                                    | 372                                                    |                                        |                                                |
| 30 to<br>30 to<br>30 to                                             | 50 150<br>50 150<br>50 450                           | *11/2 15                                                                     |                                                                                            | 20 to                                                                                                                                 | 30 350<br>20 350<br>10 350                                                        | *2                                                  | 15A7534                                                                                                                                         | 1.98                                                           | 250 to<br>250 to<br>250 to                                | 500                        | 20<br>20<br>20                                                             | *11⁄2                                               | 15A7530                                                   | 2.34                                                 | 100 to<br>3 to<br>120 to                                                   | 5<br>200              | 175<br>175<br>175                             | 4                                                      | 15A2079                                | 3.90                                           |
| 30 to<br>40 to<br>30 to                                             | 50 450<br>50 450<br>60 350<br>40 350                 | 21⁄2 15/<br>*21⁄2 15/                                                        |                                                                                            | 20 to                                                                                                                                 | 40 500<br>30 500<br>30 500                                                        | 3                                                   | 15A2093                                                                                                                                         | 3.15                                                           | 250 to<br>250 to<br>250 to                                | 500                        | 50<br>50<br>50                                                             | *3                                                  | 1547531                                                   | 2.25                                                 | 120 to<br>40 to<br>20 to                                                   |                       | 175<br>175<br>175                             | 3                                                      | 15A7527                                | 3.33                                           |
|                                                                     |                                                      |                                                                              |                                                                                            |                                                                                                                                       |                                                                                   |                                                     |                                                                                                                                                 |                                                                |                                                           |                            |                                                                            |                                                     |                                                           |                                                      |                                                                            |                       |                                               |                                                        |                                        | 101                                            |

Just A Few Wide Range Electrolytics Replaces Most Twist-Locks

### **CHMITE RHEOSTATS & ADJUSTABLE RESISTORS**



Ohms

10

15

25

50

100 250

500

1000

5000 7500† 10000

15000

Ohms

10

25 50

100 250 500

1000

2500

on metal dial plate.

Stk.

No

148808

14B809 14B810

14R81

14B812

14R813

14B814

148815

148816

148817

14R818

148819 14B820

14B821

Stk.

No.

144700

14A701 14B773

14R774

148775

14B776

14R777

14B778 14B779

148780



1.4

\$5.05

5.05

4 55

4.55

4.55

4.55

4.55

4 55

5.05

5.05

5.35 5.55

5.55

6.05

1-4

\$5.05

5.05

5.05

4.55

4.55 4.55

4.55 4.55 5.05

5.05

MODEL "H" 25-WATT Dia. 1%,". Depth, 13%". Shaft 1/4". 3%"-32 bushing. Uses No. 5150 knob and No. 5000 dial plate.

**Prices Each** 

10-24

\$3.38

3.38

3.05

3.05

3.05

3.05

3.05

3 05

3.38

3.38

3.58

3.72

4.0

10-24

\$3.38

3.38

3.05

3.05

3.05

3.05

3.38

25-49

\$2.78

2.50

2.50

2.50

2.50

2.50

2.78

2.94 3.05

3.05

3.33

25-49

\$2.78 2.78 2.78 2.50

2.50

2.50

2.50 2.78 2.78

5-9

\$4.29

4.29

3.87

3.87

3.87

3.87

3 87

4.29

4.55

4 72

5.14

5-9

\$4.29

4.29

3.87

3.87

3.87 3.87 4.29

4.29

**Prices Each** 

Max.

Amps

3.53

1.12

.91 .71

.50

.35

16

.11

.050

.035

.029

Max.

Amps

5.0 2.88

1 58

1.00

.707

.316 .222 .155

.100

#### **OHMITE POWER RHEOSTATS**

Max

Amp

.070

050

.041

.032

MODEL "

Stk.

No.

14B781

14B823

14R824

148825

148826

Ohms

5000

10000

15000\* 20000\*

25000

Designed to produce permanently smooth, close control. Construction is all ceramic and metal with pivoted, universal action mounted contact brush of copper-graphite, or silver-graphite, on the heavier current rheostats. Mounting for panels up to  $\frac{1}{4''}$ , except Model "E" which mounts on  $\frac{1}{4''}$  panel. Average shipping wt.  $\frac{1}{2}$  Ib. Order Knob and Dial Plate from listing below right.

| Stk.   |        | Max.  |        | Price  | s Each |        |
|--------|--------|-------|--------|--------|--------|--------|
| No.    | 0 hm s | Amps  | 1-4    | 5-9    | 10-24  | 25-49  |
| 14A960 | 1      | 10.00 | \$8.45 | \$7.18 | \$5.66 | \$4.65 |
| 144961 | 5      | 4.47  | 8.45   | 7.18   | 5.66   | 4.65   |
| 144962 | 10     | 3.16  | 8,45   | 7.18   | 5.66   | 4.65   |
| 14A963 | 25     | 2.00  | 7.95   | 6,76   | 5.33   | 4.37   |
| 144964 | 50     | 1.41  | 7.95   | 6.76   | 5.33   | 4.37   |
| 14A965 | 100    | 1.00  | 7.95   | 6.76   | 5.33   | 4.37   |
| 14A966 | 200    | .707  | 7.95   | 6.76   | 5.33   | 4.37   |
| 144967 | 300    | .575  | 7.95   | 6.76   | 5.33   | 4.37   |
| 14A968 | 600    | .447  | 7.95   | 6.76   | 5.33   | 4.37   |
| 14A969 | 1000   | .316  | 8.45   | 7.18   | 5.66   | 4.65   |
| 144970 | 2000   | .224  | 8.45   | 7.18   | 5.66   | 4.65   |

MODEL "K" 100-WATT

Dia. 31/8". Depth 13/4". Shaft 1/4". 3/8"-32 bushing.

| 7.50           | 6.38  | 5.03 | 4.13 |      |  |
|----------------|-------|------|------|------|--|
| '' <b>'</b> '' | 50-WA | TT   |      | Dia. |  |

10-24

3.58

3.72

4.05

25-49

2.94

3 05

3.33 3.74

**Prices Each** 

5-9

4.55

4.72

5 14

5.78

Dia. 2%,". Depth 1%". Shaft 1/4". %"-32 bushing.

MODEL "H" 25-WATT (Cont'd)

1.4

5.35

6 05

6.80

| USES NO | . 5150  | knob and  | NO.   | 5000 diai | place. |        |
|---------|---------|-----------|-------|-----------|--------|--------|
| Stk.    |         | Max.      |       |           | s Each |        |
| No.     | Ohms    | Amps      | 1-4   | 5-9       | 10-24  | 25-49  |
| 14A702  | 1       | 7.07      | \$5.6 | 5 \$4.80  | \$3.79 | \$3.11 |
| 14A703  | 4       | 3.53      | 5.6   | 5 4.80    | 3.79   | 3.11   |
| 14A1122 | 8       | 2.50      | 5.0   | 5 4.29    | 3.38   | 2.78   |
| 144711  | 16      | 1.76      | 5.0   | 5 4.29    | 3.38   | 2.78   |
| 144704  | 35      | 1.19      | 5.0   | 5 4.29    | 3.38   | 2.78   |
| 144712  | 50      | 1.00      | 5.0   | 5 4.29    | 3.38   | 2.78   |
| 14A705  | 80      | .79       | 5.0   | 5 4.29    | 3,38   | 2.78   |
| 14A706  | 150     | .575      | 5.0   | 5 4.29    | 3.38   | 2.78   |
| 14A707  | 300     | .408      | 5.0   |           | 3.38   | 2.78   |
| 14B782  | 500     | .316      | 5.0   | 5 4.29    | 3.38   | 2.78   |
| 148784  | 1000    | .224      | 5.3   | 5 4.55    | 3.58   | 2.94   |
| 14B785  | 2500    | .141      | 5.3   | 5 4.55    | 3.58   | 2.94   |
| 14B786  | 5000    | .100      | 5.6   | 5 4.80    | 3.79   | 3.11   |
| 14B787  | 10000   | .070      | 5.6   | 5 4.80    | 3.79   | 3.11   |
| 140719  | 15000*  |           | 6.4   |           | 4.29   | 3.52   |
| 140720  | 20000*  | .050      | 7.2   |           | 4.86   | 3.99   |
| 140721  | 25000*  | .045      | 8.00  |           | 5.36   | 4.40   |
| 140722  | 30000*  | .041      | 8.8   |           | 5.93   | 4.87   |
| 140723  | 40000*  |           | 10.30 |           | 6,90   | 5.67   |
| 140724  | 50000*  | .032      | 11.2  |           | 7.54   | 6.19   |
|         | *Silico | 1e-Cerami | c Coa | ting.     |        |        |

| 144970           | 2000       | .224  | 8.45       | 7,18         | 5,66         | 4.65         |
|------------------|------------|-------|------------|--------------|--------------|--------------|
|                  | MOD        | EL "  | 1 77 1     | 50-W         | ΔΤΤ          |              |
|                  | Depth      |       | ft 1/4".   | 3/8"-32      | bushin       | g. Uses      |
| Stk.             |            | Max.  |            |              | Each         |              |
| No.              | Ohms       | Amps  | 1-4        | 5.9          | 10-24        | 25-49        |
| 148788           | 1          |       | \$10.75    | \$9.14       | \$7.20       | \$5.91       |
| 148789           | 5          | 5.48  | 10,75      | 9.14         | 7.20         | 5.91         |
| 14B790           | 10         | 3.88  | 10.75      | 9.14         | 7.20         | 5.91         |
| 14B791           | 15         | 3.16  | 10.75      | 9.14         | 7.20         | 5.91         |
| 14B792           | 25         | 2.45  | 10.15      | 8.63         | 6.80         | 5.58         |
| 14B793           | 50         | 1.73  | 10.15      | 8.63         | 6.80         | 5.58         |
| 14B794<br>14B796 | 100        | 1.22  | 10.15      | 8.63         | 6.80         | 5.58         |
| 146/96<br>148797 | 150<br>250 | 1.00  | 10.15      | 8.63<br>8.63 | 6.80<br>6.80 | 5.58<br>5.58 |
| 14B798           | 500        | .548  | 10.15      | 8.63         | 6.80         | 5.58         |
| 1441123          | 1250       | .346  | 10.75      | 9.14         | 7.20         | 5.91         |
| 14B799           | 1800       | .288  | 11.35      | 9.65         | 7.60         | 6.24         |
| 148800           | 3000       | .224  | 11.35      | 9.65         | 7.60         | 6.24         |
| 14B807           | 10000      | .122  | 13.60      | 11.56        | 9.11         | 7.48         |
| KI               | NORS       |       |            | AL PI        | ATE          | · <b>c</b>   |
|                  | 000        |       | -          |              | -            |              |
| Stk. No.         | Тур        | e     | 1-4<br>Ea. | 5-9 1<br>Ea. | 0-24<br>Ea.  | 25-49<br>Ea. |
| 12A2399          | 5151 1     | (nob  | 30¢        | 26¢          | 20¢          | 18¢          |
| 12A2397          | 5150 1     |       | 30¢        | 26¢          | 20¢          | 18¢          |
| 144872           | 5007 F     | Plate | 30€        | 26¢          | 20 é         | 18¢          |

300

200

180

26

#### **OHMITE TYPE 210 DIVIDOHMS**



Vitreous enameled over resistance wound on ceramic core. Easy to obtain odd resistance values, adjust voltages, etc. Supplied with one adjustable lug and two mounting brackets. Additional taps can be made with adjustable lugs shown at right below. Tolerance  $\pm 10\%$ . 12, 25 AND 50-WATT VALUES

| -                  |                                  |                  |                     |                      |                        |               |                              |                                 |
|--------------------|----------------------------------|------------------|---------------------|----------------------|------------------------|---------------|------------------------------|---------------------------------|
| Ohm s<br>1         | 0hms<br>10                       |                  | 0hms<br>100         |                      | 0hms<br>750            |               | 0hms<br>2500                 | 0hms<br>15,000                  |
| 23                 | 25<br>50                         |                  | 150<br>250          |                      | 1000<br>1500           |               | 5000<br>7500                 | 25,000<br>50,000                |
| 5                  | 75                               |                  | 500                 |                      | 2000                   |               | 10,000                       | 100,000                         |
| <u>1</u> 0nm       | to 10,000                        | Dividoh<br>Ohms. | nm. Size<br>Specify | 13⁄4 x ¾<br>Stk. No. | ". Wt. 2<br>14A5019    | oz. Av<br>and | railable in al<br>Resistance | bove values from when ordering. |
| Val                |                                  |                  | 1-9 Ea              |                      | 10-24 Ea.              |               | 25-99 Ea.                    | 100-249 Ea.                     |
| 1500 to<br>7500 to | 00 Ohms<br>5000 Ohn<br>10,000 Oh | ms               |                     |                      | \$1.02<br>1.05<br>1.13 |               | \$0.84<br>.87<br>.93         | \$0.72<br>.74<br>.80            |
| 1 Unm              | to 25,000                        | Dividoh<br>Ohms, | m. Size<br>Specify  | 2 x %6".<br>Stk. No. | Wt. 2 oz<br>14A5020    | . Ava<br>and  | ilable in ab<br>Resistance   | ove values from when ordering.  |
| Vali               | ue                               |                  | 1-9 Ea              | I.                   | 10-24 Ea.              |               | 25-99 Ea.                    | 100-249 Ea.                     |
|                    | 00 Ohmis<br>5000 Ohn             | 15               | \$1.35              |                      | \$1.15                 |               | \$0.95<br>.97                | \$0.81                          |
| 7500 to            | 10,000 Oh                        |                  | 1.49                |                      | 1.27                   |               | 1.04                         | .89                             |
| 15,000<br>25,000   | Ohms                             |                  | 1.54<br>1.69        |                      | 1.31<br>1.44           |               | 1.08<br>1.18                 | .92<br>1.01                     |
| from 1             | to 100,000                       | Dividol<br>Ohms. | hm. Size<br>Specify | 4 x %<br>Stk. No.    | ". Wt. 4               | ozs.<br>and   | Available<br>Resistance      | in above values when ordering.  |
| Valu               |                                  |                  | 1-9 Ea              |                      | 10·24 Ea.              |               | 25-99 Ea.                    | 100-249 Ea.                     |
| 1 Ohm<br>2 to 10   | 00 Ohms                          |                  | \$2.23<br>1.76      |                      | \$1.90<br>1.50         |               | \$1.56<br>1.23               | \$1.34<br>1.06                  |
| 1500 to            | 5000 Ohm                         |                  | 1,80                |                      | 1.53                   |               | 1.26                         | 1.08                            |
| 7500 to<br>15,000  | 10,000 Oh                        | ms               | 1.89                |                      | 1.61<br>1.72           |               | 1.32                         | 1.13                            |
| 25,000             |                                  |                  | 2.02                |                      | 1.89                   |               | 1.41<br>1.55                 | 1.21<br>1.33                    |
| 50,000<br>100,000  |                                  |                  | 2.40<br>2.84        |                      | 2.04                   |               | 1.68                         | 1.44                            |
|                    | 0.1113                           |                  | 2.04                |                      | 4.71                   |               | 1.55                         | 1.70                            |

#### WORKMAN FUSED RESISTORS

Often needed replacement in series wired TV sets. 5 watt rating. Stk. No. Resistance Stk. No. Resistance Stk. No. Resistance 1445028 4.7 Ohms 1445031 6 Ohms 1445034 22 Ohms 1445027 7 5 Ohms 1445037 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 145034 6 Ohms 7.5 Ohms 22 Ohms 47 Ohms 5 Ohms 5.6 Ohms Ohms 1445029 14A5032 14A5035 14A5030 14A5043 9 0hms Choice Each ..36¢ **10 Lots Each** 304 No. 14A5036. Kit of 10 Assorted Fused Resistors in Handy Plastic Box. Contains: 6-7.5, 2-4.7, plus 1 each 5.6 and 9 ohm. \$1.98 Kit

**OHMITE OHMS LAW CALCULATORS** 



7.5 OHM

Pocket size slide rule with parallel resistance scale and standard slide rule scales A, B, C, D on one side and Ohms Law Calculator with full instructions on other side. 

#### 100 AND 205 WATE VALUE

5000 Plate

144873

|                                                                                                            |                                                                      | 100 AI                                                                                 | ND 225                                                                        | WATT VAL                                                                                                                     | UES                                                                                              |                                                                                |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Ohms                                                                                                       | Ohms                                                                 | Ohms                                                                                   | Ohms                                                                          | Ohms                                                                                                                         | Ohms                                                                                             | Ohms                                                                           |
| 1<br>2<br>3                                                                                                | 5<br>10<br>25                                                        | 50<br>100<br>250                                                                       | 500<br>1000<br>1500                                                           | 2500<br>5000<br>10,000                                                                                                       | 15,000<br>20,000<br>25,000                                                                       | 50,000<br>100,000                                                              |
| 100-Watt<br>tance valu                                                                                     | Adjustable (<br>ues. Specify                                         | Dividohm, S<br>Stock No                                                                | Size 6½ x<br>. <b>14A5022</b>                                                 | 3/4". Wt. 8 oz<br>and Resistance                                                                                             | s. Available in<br>e when orderi                                                                 | above resis-<br>ng.                                                            |
| Value                                                                                                      |                                                                      | 1-9                                                                                    | Ea.                                                                           | 10-24 Ea.                                                                                                                    | 25-99 Ea.                                                                                        | 100-249 Ea.                                                                    |
| 5 to 1000<br>1500 to 5<br>10,000 0h<br>15,000 to<br>25,000 0h<br>50,000 0h<br>100,000 0<br><b>225-Watt</b> | 5000 Ohms<br>1ms<br>20,000 Ohn<br>1ms<br>hms<br>Dhms<br>Adjustable ( | 2<br>2<br>2<br>1<br>1<br>1<br>2<br>2<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3 | .87<br>.22<br>.28<br>.42<br>.56<br>.84<br>.92<br>.49<br>Size 10½<br>No. 14A50 | \$2.44<br>1.89<br>1.94<br>2.06<br>2.18<br>2.41<br>2.48<br>2.97<br>X 1 <sup>1</sup> / <sub>6</sub> ". Wt. 1<br>23 and Resista | \$2.01<br>1.55<br>1.60<br>1.69<br>1.79<br>1.99<br>2.04<br>2.44<br>Ib. Available<br>ance when ord | \$1.72<br>1.33<br>1.37<br>1.45<br>1.54<br>1.70<br>1.75<br>2.09<br>in above re- |
| Value                                                                                                      |                                                                      |                                                                                        | Ea.                                                                           | 10-24 Ea.                                                                                                                    | 25-99 Ea.                                                                                        | 100-249 Ea.                                                                    |
| 10,000 Oh<br>15,000 to<br>25,000 Oh<br>50,000 Oh                                                           | 0 Ohms<br>5000 Ohms<br>Ims<br>20,000 Ohm<br>Ims                      | 3.<br>3.<br>3.<br>1.<br>3.<br>3.<br>3.<br>4.<br>4.<br>4.                               | 54<br>51<br>58<br>77<br>96<br>05<br>16<br>56                                  | \$3.86<br>2.98<br>3.04<br>3.20<br>3.37<br>3.44<br>3.54<br>3.88                                                               | \$3.18<br>2.46<br>2.51<br>2.64<br>2.77<br>2.84<br>2.91<br>3.19                                   | \$2.72<br>2.11<br>2.15<br>2.26<br>2.38<br>2.43<br>2.50<br>2.74                 |

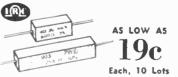
#### STANDARD ADJUSTABLE LUGS FOR DIVIDOHMS Consulations &

| Selenting | si cype.            |          |           |            |
|-----------|---------------------|----------|-----------|------------|
| Stk. No.  | For                 | 1-9 Each | 10-24 Ea. | 25-99 Each |
| 14A5024   | 12 Watt Size        | \$0.15   | \$0.13    | \$0.11     |
| 14A5025   | 25 and 50 Watt Size | .15      | .13       |            |
| 14A5026   | 100 Watt Size       | .15      | .13       | .11        |
| 14A5027   | 225 Watt Size       | .24      | .20       | .17        |

#### IRC AXIAL-LEAD POWER WIRE-WOUND RESISTORS

1

25



Precisely wound element sealed in ce-ramic case with axial wire leads for speedier installation. Compact size per-fect for use in tight spaces. Can be installed flat against chassis and 2 or more stacked. Tolerance 10%. Wt. 4 ozs. per 10.

| 5<br>10<br>*Avai | 50<br>100     | 500<br>1000<br>watt only | 5000         | 15,000*<br>25,000* |
|------------------|---------------|--------------------------|--------------|--------------------|
| 5 WA<br>14A50    | TT<br>10. Ea. | 25                       | C 10<br>Each | 19c                |
| 500,             | Each          |                          |              | 12¢                |
|                  |               |                          |              | 27c                |
|                  |               |                          |              | 22¢<br>14¢         |

250 2000 10,000\*

Specify Both Stock No. and Resistance Value on Orders.

### **BHMITE** A FIXED RESISTORS

#### 31-5-11 WATT SERIES 99 MOLDED RESISTORS



#### Wirewound vitreous enameled resistors with axial tinned

wite would vite use tranered resistors with aklar tinned wite leads. Consistent uniform size with thicker coating guarantees 1000 V. AC insulation rating, plus ability to withstand high temperatures and high humidity. Especially suited for printed circuit, terminal board and point-to-point wiring applications. Tolerance is 5%. 3¼ watt size  $\%''_{4}$  L. x  $^{1}_{44}$  Dia.; 5 watt size is  $^{1}_{56}$ " L. x  $^{1}_{44}$ " Dia.; 11 watt size is  $^{1}_{25}$ " L. x  $^{1}_{44}$ " Dia.

Specify Both Stock Number and Value on Orders. 31/4-Watt Style 995-3A. Values from 1 to 10,000 Ohms.

Specify Stock No. 1445038 and Resistance Value on Orders

| abaatij                                                    | ACAAN 1401 14MAAAAA  | and meastfanes       | verue en vieule.     |                      |
|------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|
| Value                                                      | 1-9 Each             | 10-24 Each           | 25-99 Ea.            | 100-249 Ea.          |
| 1 to 1000 ohms<br>1200 to 5000 ohms<br>5600 to 10,000 ohms | \$0.59<br>.62<br>.66 | \$0.50<br>.53<br>.56 | \$0.41<br>.43<br>.46 | \$0.35<br>.37<br>.40 |

5-Watt Style 995-5B. Values from 1 to 25,000 Ohms.

| Specify Stoci         | No. 14A5039 | and Resistance | Value on Orders. |             |
|-----------------------|-------------|----------------|------------------|-------------|
| Value                 | 1-9 Each    | 10-24 Each     | 25-99 Ea.        | 100-249 Ea. |
| 1 to 1000 ohms        | .62         | .53            | .43              | .37         |
| 1200 to 5000 ohms     | .66         | .56            | .46              | .40         |
| 5600 to 10,000 ohms   | .70         | .60            | .49              | .42         |
| 12,000 to 20,000 ohms | .78         | .66            | .55              | .47         |
| 22,000 to 25,000 ohms | .82         | .70            | .57              | .49         |

11-Watt Style 995-10A Values from 1 to 50 000 ohms.

| apecity Stoci        | K MO. 14A5U4U 3 | and Resistance V | alue on vrders. |            |
|----------------------|-----------------|------------------|-----------------|------------|
| Value                | 1-9 Each        | 10-24 Each       | 25-99 Ea.       | 100-249 Ea |
| to 1000 ohms         | .68             | .58              | .48             | .41        |
| 1200 to 5000 ohms    | .73             | .82              | .51             | .44        |
| 600 to 10,000 ohms   | .84             | .71              | .59             | .50        |
| 2,000 to 20,000 ohms | .95             | .81              | .67             | .57        |
| 2,000 to 40,000 ohms | 1.00            | .85              | .70             | .60        |
| 7,000 to 50,000 ohms | 1.12            | .95              | .78             | .67        |

#### STANDARD STOCK VALUES

| Ohms | Ohms | Ohms | Ohms | Ohms | Ohms   | 0hm\$  |
|------|------|------|------|------|--------|--------|
| 1    | 22   | 82   | 400  | 1200 | 5000   | 18,000 |
| ī.5  | 25   | 100  | 470  | 1500 | 5600   | 20,000 |
| 2    | 27   | 120  | 500  | 1800 | 6000   | 22,000 |
| 3    | 30   | 150  | 560  | 2000 | 6800   | 25,000 |
| Ă.   | 33   | 180  | 600  | 2200 | 7000   | 27,000 |
| 5    | 39   | 200  | 680  | 2500 | 7500   | 30,000 |
| 7.5  | 40   | 220  | 700  | 2700 | 8000   | 33,000 |
| 10   | 47   | 250  | 750  | 3000 | 8200   | 39,000 |
| 12   | 50   | 270  | 800  | 3300 | 9000   | 40,000 |
| 15   | 56   | 300  | 820  | 3900 | 10,000 | 47,000 |
| 18   | 68   | 330  | 900  | 4000 | 12,000 | 50,000 |
| 20   | 75   | 390  | 1000 | 4700 | 15,000 |        |

### OHMITE 8-12-20 WATT TYPE 200 "BROWN DEVILS"

Wire-wound units with wire leads for convenient mounting. Sturdy, vitreous enameled coating provides protection from humidity and mechanical damage. Tolerance is  $\pm 5\%$ . Sizes: 8-watt 1 x %''; 12-watt 1% x %''; 20-watt 2 x %''.

s-Watt. Values from 1 to 25,000 ohms except values marked \*.

| Specify Stoci         | K NO. 14A5012 | and Resistance | value on urders. |             |
|-----------------------|---------------|----------------|------------------|-------------|
| Value                 | 1-9 Each      | 10-24 Each     | 25-99 Ea.        | 100-249 Ea. |
| 1 to 1000 ohms        | \$0.55        | \$0.47         | \$0.39           | \$0.33      |
| 1200 to 5000 ohms     | .58           | .49            | .41              | .35         |
| 6000 to 10,000 ohms   | .61           | .52            | .43              | .37         |
| 12,500 to 20,000 ohms | .68           | .58            | .48              | .41         |
| 25,000 ohms           | .71           | .60            | .50              | ,43         |

12-Watt. Values from .5 to 50,000 ohms.

ROWN DEVIL

UES from .5 to 50,000 onns. Specify Stock No. 1445013 and Resistance Value on Orders. ....

| Value                 | 1-9 Each | 10-24 Each | 25-99 Ea. | 100-249 Ea. |
|-----------------------|----------|------------|-----------|-------------|
| .5 to 1000 ohms       | .60      | .51        | .42       | .36         |
| 1200 to 5000 ohms     | .64      | .54        | .45       | .38         |
| 6000 to 10,000 ohms   | .74      | .63        | .52       | .44         |
| 12,500 to 20,000 ohms | .83      | .71        | .58       | .50         |
| 25,000 to 30,000 ohms | .87      | .74        | .61       | .52         |
| 50,000 ohms           | .98      | .83        | .69       | .59         |

20-Watt. Values from .5 ohm to 100.000 ohms except values marked #.

| Specify Stack         | ( NO. 14A5014 a | ind Resistance | value on Urders. |             |
|-----------------------|-----------------|----------------|------------------|-------------|
| Value                 | 1-9 Each        | 10-24 Each     | 25-99 Ea.        | 100-249 Ea. |
| 5 ohms                | 1.00            | .85            | .70              | .60         |
| 1 to 1000 ohms        | .71             | .60            | .50              | .43         |
| 1200 to 5000 ohms     | .74             | .63            | .52              | .44         |
| 6000 to 10.000 ohms   | .87             | .74            | .61              | .52         |
| 12,500 to 20,000 ohms | .89             | .76            | .62              | .53         |
| 25,000 to 30,000 ohms | 1.04            | .88            | .73              | .62         |
| 50.000 ohms           | 1.21            | 1.03           | .85              | .73         |
| 100.000 ohms          | 1.65            | 1.40           | 1.16             | .99         |

#### STANDARD STOCK VALUES

| Ohms | Ohms | Ohms  | Ohms | Ohms | Ohms   | Ohms    |
|------|------|-------|------|------|--------|---------|
| .5*  | 12,# | 100   | 500  | 2000 | 7000   | 30,000  |
| 1    | 15#  | 125#  | 600# | 2250 | 7500   | 50,000  |
| 1.5# | 20#  | 150   | 700  | 2500 | 8000   | 100,000 |
| 2    | 25   | 200   | 750  | 3000 | 9000   |         |
| 3    | 30#  | 225.# | 1000 | 3500 | 10.000 |         |
| 4    | 35#  | 250   | 1200 | 4000 | 12,500 |         |
| 5    | 40#  | 300   | 1250 | 4500 | 15,000 |         |
| 7.5# | 50   | 350   | 1500 | 5000 | 20,000 |         |
| 10   | 75   | 400   | 1750 | 6000 | 25,000 |         |

#### IRC TYPE RC COMPOSITION RESISTORS



EIA/MIL color coded. Conforms to MIL-R-11 specs. Formerly known as GBT and SR types. Riown as GDI and SK (ypes. RC07 44-watt stocked in 10 ohms thru 1 Meg. Size  $\frac{1}{4}x\frac{4}{3}x^{*}$ RC20  $\frac{1}{2}$ -Watt stocked in 2.7 ohms thru 22 Meg. Size  $\frac{3}{4}x\frac{4}{3}x^{*}$ RC32 1-Watt stocked in 2.7 ohms thru 22 Meg. Size  $\frac{4}{3}x\frac{4}{3}x^{*}$ Values may be assorted for quantity price if multiples of 50 of each value are ordered.

#### Specify Stk. No., Resistance, Wattage and Tolerance on order.

| Stock<br>No. | Туре | Wattage  | Tole ance | 1-9<br>Each | 10-49<br>Each | 50-99<br>Each | 100-499<br>Each | 500-999<br>Each | 1000 Up<br>Each |
|--------------|------|----------|-----------|-------------|---------------|---------------|-----------------|-----------------|-----------------|
| 14A5002      | RC07 | 1/4-Watt | 5%        | \$0.26      | \$0.22        | \$0,10        | \$0.073         | \$0.065         | \$0.05          |
| 14A5003      | RC07 | 1/a-Watt | 10%       | .13         | .11           | .06           | .05             | .035            | .027            |
| 14A5004      | ŔC20 | 1/2-Watt | 5%        | .24         | .19           | .12           | .059            | .05             | .044            |
| 14A5005      | RC20 | 1/2-Watt | 10%       | .12         | .10           | .06           | .04             | .03             | .023            |
| 14A5006      | RC32 | 1-Watt   | 5%        | .36         | .28           | .18           | .084            | .08             | .069            |
| 14A5007      | RC32 | 1-Watt   | 10%       | .18         | .15           | .09           | .053            | .045            | .038            |
| 14A5008      | RC42 | 2-Watt   | 5%        | .48         | .40           | .24           | .19             | .16             | .15             |
| 1445009      | RC42 | 2-Watt   | 10%       | .24         | .20           | .15           |                 | .088            | .075            |

#### STANDARD STOCK VALUES

All resistances stocked in 5% Tolerance. 100/ Televence stanked only in resistances field in Dold Fee

| 10%  | Iolerance | STOCKEO | only in | resistances | listed in boid | I Face. |      |      |
|------|-----------|---------|---------|-------------|----------------|---------|------|------|
| Ohms | Ohms      | Ohms    | Ohms    | Ohms        | Ohms           | Meg     | Meg  | Meg  |
| 2.7  | 16        | 100     | 620     | 3900        | 24,000         | 0.1     | 0.62 | 3.9  |
| 3.0  | 18        | 110     | 680     | 4300        | 27,000         | 0.11    | 0.68 | 4.3  |
| 3.3  | 20        | 120     | 750     | 4700        | 30,000         | 0.12    | 0.75 | 4.7  |
| 3.6  | 22        | 130     | 820     | 5100        | 33,000         | 0.13    | 0.82 | 5.1  |
| 3.9  | 24        | 150     | 910     | 5600        | 36,000         | 0.15    | 0.91 | 5.6  |
| 4.3  | 27        | 160     | 1000    | 6200        | 39,000         | 0.16    | 1.00 | 6.2  |
| 4.7  | 30        | 180     | 1100    | 6800        | 43,000         | 0.18    | 1.1  | 6.8  |
| 5.1  | 33        | 200     | 1200    | 7500        | 47,000         | 0.20    | 1.2  | 7.5  |
| 5.6  | 36        | 270     | 1300    | 8200        | 51,000         | 0.22    | 1.3  | 8.2  |
| 6.2  | 39        | 240     | 1500    | 9100        | 56,000         | 0.24    | 1.5  | 9.1  |
| 6.8  | 43        | 270     | 1600    | 10,000      | 62,000         | 0.27    | 1.6  | 10.0 |
| 7.5  | 47        | 300     | 1800    | 11,000      | 68,000         | 0.30    | 1.8  | 11.0 |
| 8.2  | 51        | 330     | 2000    | 12,000      | 75,000         | 0.33    | 2.0  | 12.0 |
| 9.1  | 56        | 360     | 2200    | 13,000      | 82,000         | 0.36    | 2.2  | 13.0 |
| 10   | 62        | 390     | 2400    | 15,000      | 91,000         | 0.39    | 2.4  | 15.0 |
| 11   | 68        | 430     | 2700    | 16,000      |                | 0.43    | 2.7  | 16.0 |
| 12   | 75        | 470     | 3000    | 18,000      |                | 0.47    | 3.0  | 18.0 |
| 13   | 82        | 510     | 3300    | 20,000      |                | 0.51    | 3.3  | 20.0 |
| 15   | 91        | 560     | 3600    | 22,000      |                | 0.56    | 3.6  | 22.0 |

#### **IRC RESISTOR ASSORTMENTS**

|                                     | Sturdy metal cabinets are FREE with any assortment. Designed for stocking. Four non-spill drawers and 28 compartments. Size: $5\% \times 5\%_6 \times 10\%''$ . Shpg. wt. 5 lbs.<br>No. 14A5018.7A Assortment. 150 ¼-Watt. Range from 47 ohm thru 1 meg. \$19.50 Each. |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A CHILT HUNTER AND AND AND AND      | No. 14A5016.4A Assortment. 150 1/2-Watt. Range from<br>47 ohm thru 10 meg. \$18.00<br>Each                                                                                                                                                                             |
|                                     | No. 14A5017.5A Asst. 125 1-Watt. Range from 47 ohm<br>thru 4.7 meg. \$22.50<br>Each                                                                                                                                                                                    |
| No. 14A5015.3A Asst. 120 2-<br>Each | Watt. Range 4.7 ohm thru 1 meg. \$28.80                                                                                                                                                                                                                                |



#### COLOR CODE GUIDE

Here is one of the handiest Color Code Guides for Resistors ever devised. Standard EIA range is auto-matically and accurately indicated. 25c

#### **IRC BWH MOLDED WIRE-WOUND RESISTORS**

Exceptional stability, reliability and long-term life characteristics of a wire-wound unit. Provides resistances not available in composition resistors. Rated  $^{1}\!/_{2}$ -watt @ 137° C Ambient, 1-watt @ 115° C Ambient, and 2-watt @ 70° C Ambient. Size,  $\%_6 \times \%_2''$ . EIA color coded. Wide first band distinguishes from composition resistors.

IMPORTANT: Specify Stk. No., Resistance and Tolerance on order. Values cannot be

|                           | 1-99   | 100-249 | 250-499 | 500-999 |
|---------------------------|--------|---------|---------|---------|
| No. 14A5037. BWH 5% Tol.  | Each   | Each    | Each    | Each    |
| 0.24 Ohms to 9.1 Ohms     | \$0.48 | \$0.285 | \$0,189 | \$0.143 |
| 10 Ohms to 1000 Ohms      | .30    | .18     | .12     | .09     |
| 1100 Ohms to 1500 Ohms    | .33    | .198    | ,132    | .099    |
| No. 14A5041, BWH 10% Tol. |        |         |         |         |
| 0.27 Ohms to 8.2 Ohms     | .24    | .144    | .096    | .064    |
| 10 Ohms to 1500 Ohms      | .18    | .108    | .072    | .058    |

#### STANDARD STOCK VALUES

All resistances shown stocked in 5% Tolerance.

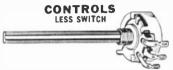
| Ohms | Ohms | Ohms | Ohms | Ohms | Ohms | Ohms | Ohms |
|------|------|------|------|------|------|------|------|
| 0.24 | 0.75 | 2.4  | 7.5  | 24   | 75   | 240  | 750  |
| 0.27 | 0.82 | 2.7  | 8.2  | 27   | 82   | 270  | 820  |
| 0.30 | 0.91 | 3.0  | 9.1  | 30   | 91   | 300  | 910  |
| 0.33 | 1.0  | 3.3  | 10   | 33   | 100  | 330  | 1000 |
| 0.36 | 1.1  | 3.6  | ii   | 36   | 110  | 360  | 1100 |
| 0.39 | 1.2  | 3.9  | 12   | 39   | 120  | 390  | 1200 |
| 0.43 | 1.3  | 4.3  | 13   | 43   | 130  | 430  | 1300 |
| 0.47 | 1.5  | 4.7  | 15   | 47   | 150  | 470  | 1500 |
| 0.51 | 1.6  | 5.1  | 16   | 51   | 160  | 510  |      |
| 0.56 | 1.8  | 5.6  | 18   | 56   | 180  | 560  |      |
| 0.62 | 2.0  | 6.2  | 20   | 62   | 200  | 620  |      |
| 0.62 | 2.2  | 6.8  | 22   | 68   | 220  | 680  |      |

B-A's Large Resistor Stocks Assure Fast Delivery

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Push-p<br>WITH PUSH-<br>k. No. Resist<br>A1103 500K C<br>A1102 1 Me<br>for push-pull.<br>20c 100 Eacl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | prices! Smooth<br>3 A. @ 125 V.<br>illy cut to proper<br>tters, Rotary type<br>bull has 1 <sup>3</sup> 6" shaft.<br><b>PULL SWITCH</b><br>ance Each 10 Ea.<br>bhm \$1.19 \$0.99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Stk. No. Resis:<br>14A1101 500K<br>14A1100 1 M<br>1-INCH BLACK KN<br>No. 12A2026. With<br>Each.<br>No. 12A692, With                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Push-r<br>WITH PUSH-<br>k. 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Smooth<br>3 A. @ 125 V.<br>iily cut to proper<br>tters, Rotary type<br>Jull has J <sup>3</sup> " shaft.<br>PULL SWITCH<br>ance Each 10 Ea.<br>Jhm \$1.19 \$0.99<br>g 1.19 .99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Stk. No.         Resist           14A1101         500K           14A1100         1 M           1-INCH BLACK KM.         No.           12A2026.         With           Each.         No.           No.         12A692.           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                                                        | ARY SWITCH<br>ARY SWITCH<br>Ance Each<br>Ohm \$0.89<br>DBS for above.<br>h 3/6" brass in:<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Switch rated<br>dylon shaft eas<br>with wire cu<br>" shaft. Push-r<br>WITH PUSH-<br>k. No. Resist.<br>A1103 500K C<br>A1102 1 Me<br>for push-pull.<br>20c 100 Eacl<br>for rotary.<br>12c 100 Eacl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | prices! Smooth<br>3 A. @ 125 V.<br>illy cut to proper<br>tters, Rotary type<br>oull has $_{16}^{-6}$ " shaft.<br>PULL SWITCH<br>ance Each 10 Ea.<br>thm \$1.19 \$0.99<br>g 1.19 .99<br>1.17 .99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Stk. No.         Resist           14A1101         500K           14A1100         1 M           1-INCH BLACK KNI           No.         12A2026. With           Each         MA           Standard         15 Audi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SWITC<br>Pance Each<br>Ohm \$0.89<br>leg .89<br>DBS for above.<br>.23c 10 Eac<br>3/4" molded he<br>13c 25 Eac<br>LLORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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N<br>length<br>has V<br>10 Ea. 51<br>\$0.79 14<br>sert and screw<br>th<br>L'', ''T''<br>htts DC).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Switch rated<br>dylon shaft eas<br>with wire cu<br>" shaft. Push-r<br>WITH PUSH-<br>k. No. Resist.<br>A1103 500K C<br>A1102 1 Me<br>for push-pull.<br>20c 100 Eacl<br>for rotary.<br>12c 100 Eacl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | prices!         Smooth           3         A. @         125 V.           villy cut to proper         tress         Rotary type           pull has '3.'' shaft         PULL SWITCH           ance         Each 10 Ea.         Phm           yhm         \$1.19         \$0.99           g         1.19         .99           h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Stk. No.         Resist           14A1101         500K           14A1100         1 M           1-INCH BLACK KNI           No.         12A2026.           No.         12A5026.           Standard         15 Audi           L&T pads         15 M/di                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ARY SWITCH<br>hance Each<br>Ohm \$0.89<br>leg .89<br>DBS for above.<br>.23c 10 Eac<br>1/4" molded ht<br>.13c 25 Eac<br>LLORY 44<br>to Watts (4 wat<br>a.; L pad is 14'<br>deep. Both h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A vailal<br>action<br>AC. N<br>length<br>has V<br>10 Ea. 5t<br>\$0.79 14<br>sert and screw<br>h<br>L'', ''T''<br>tts DC).<br>b" deep;<br>ave Va"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Switch rated<br>dylon shaft eas<br>with wire cu<br>" shaft. Push-r<br>WITH PUSH-<br>k. No. Resist.<br>A1103 500K C<br>A1102 1 Me<br>for push-pull.<br>20c 100 Eacl<br>for rotary.<br>12c 100 Eacl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | prices!         Smooth           3         A. @         125 V.           villy cut to proper         tress         Rotary type           pull has '3.'' shaft         PULL SWITCH           ance         Each 10 Ea.         Phm           yhm         \$1.19         \$0.99           g         1.19         .99           h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Stk. No.         Resist           14A1101         500K           14A1100         1 M           1-INCH BLACK KNI           No.         12A2026.           No.         12A5026.           Standard         15 Audi           L&T pads         15 M/di                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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N<br>length<br>has V<br>10 Ea. 5t<br>\$0.79 14<br>sert and screw<br>h<br>L'', ''T''<br>tts DC).<br>b" deep;<br>ave Va"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Switch rated<br>dylon shaft eas<br>with wire cu<br>" shaft. Push-r<br>WITH PUSH-<br>k. No. Resist.<br>A1103 500K C<br>A1102 1 Me<br>for push-pull.<br>20c 100 Eacl<br>for rotary.<br>12c 100 Eacl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | prices!         Smooth           3         A. @         125 V.           villy cut to proper         tress         Rotary type           pull has '3.'' shaft         PULL SWITCH           ance         Each 10 Ea.         Phm           yhm         \$1.19         \$0.99           g         1.19         .99           h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Stk. No.         Resist           14A1101         500K           14A1100         IN           1-INCH BLACK KNN.         IN           12A2026.         With           Each.         No.           No.         12A692.           With         Each.           Standard 15         Audi           L&T pads 15%" d15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ARY SWITCH<br>hance Each<br>Ohm \$0.89<br>leg .89<br>DBS for above.<br>.23c 10 Eac<br>1/4" molded ht<br>.13c 25 Eac<br>LLORY 44<br>to Watts (4 wat<br>a.; L pad is 14'<br>deep. Both h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A vailal<br>action<br>AC. N<br>length<br>has V<br>10 Ea. 58<br>\$0.79 14<br>sert and screw<br>th<br>L', 4'T''<br>htts DC).<br>5" deep;<br>ave 1/4"<br>. All are<br>re, knob,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Push- <u>F</u><br>WITH PUSH-<br>K. No. Resist.<br>A1103 500K C<br>A1102 J Me<br>for push-puil.<br>20c 100 Eacl<br>for rotary.<br>12c 100 Eacl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | prices!         Smooth           3         A. @         125 V.           villy cut to proper         tress         Rotary type           pull has '3.'' shaft         PULL SWITCH           ance         Each 10 Ea.         Phm           yhm         \$1.19         \$0.99           g         1.19         .99           h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Stk. No.       Resist         14A1101       500K         14A1100       IN         1-INCH BLACK KNN.       No.         12A2026.       With         Each.       MA         Standard       15 Audi         L&T pads       15%" di         T pads       15%" di         T opal       15 1%" di         T opal is       1%" omplete with me and dial plate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ARY SWITCH<br>hance Each<br>Ohm \$0.89<br>leg .89<br>DBS for above.<br>.23c 10 Eac<br>.44" brass in:<br>.23c 10 Eac<br>.44" molded he<br>.13c 25 Eac<br>LLORY 44<br>deep. Both h<br>34 deep. Both h<br>35 deep. Both h<br>36 d                                                                                                                                                                                                                                  | A vailal<br>action<br>AC. N<br>length<br>has V<br>10 Ea. 5t<br>\$0.79 14<br>sert and screw<br>h<br>L'', ''T''<br>tts DC).<br>b" deep;<br>ave Va"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Smooth           3         A. @         125 V.           villy cut to proper         tress         Rotary type           pull has '3.'' shaft         PULL SWITCH           ance         Each 10 Ea.         Phm           yhm         \$1.19         \$0.99           g         1.19         .99           h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Stk. No.         Resist           14A1101         500K           14A1100         1 M           1-INCH BLACK KM.         12A2026. With           Each.         MA           No.         12A592. With           Each.         MA           Standard 15 Audi           L&T pads 15%" di           T pads 15%" di           T pads 15%" di           Complete with me<br>and dial plate.           Stk. No.         Type Res           14A1104         L-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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hn<br>.13c 25 Eac<br>LLORY 44<br>to Watts (4 wa<br>a.; L pad is 11 <sup>3</sup><br>deep. Both h<br>th 36" bushing<br>bunting hardwar<br>sistance Stk.<br>4 14A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A vailal<br>action<br>AC. N<br>length<br>has V<br>10 Ea. 54<br>\$0.79 14<br>sert and screw<br>th<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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No.<br>Switch wire cu<br>with with wire cu<br>with with wire cu<br>with with with with with with with with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | prices! Smooth<br>3 A. @ 125 V.<br>iily cut to proper<br>tters, Rotary type<br>pull has ,3° shaft.<br>PULL SWITCH<br>ance Each 10 Ea.<br>phm \$1.19 \$0.99<br>1.19 .99<br>1.19 .99<br>1.10<br>PADS<br>Type Resistance<br>L-2000 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Stk. No.         Resist           14A1101         500K           14A1101         500K           14A1101         500K           14A1100         1NC           1-INCH BLACK KNN.         No.           12A2026.         With           Each.         No.           No.         12A692.           With Each.         MA           Standard 15 Audi           L&T pad is 11%.           shaft 2" long with           ormplete with me           and dial plate.           Stk. No.         Type Res           14A1104         L-4           14A1104         L-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Both h<br>1% deep. Both 1%<br>4% deap. Both 1% deap.<br>Sistance Stk.<br>4 14A1<br>8 14A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A vailal<br>action<br>AC. N<br>length<br>has 1//<br>10 Ea. St<br>\$0.79 14<br>sert and screw<br>h<br>le and screw<br>h<br>L'', ''T''<br>tits DC).<br>6" deep;<br>ave 1/4"<br>c, knob,<br>15-WATT ''L'' F<br>No. Type Resis<br>125 L-250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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Smooth           3 A.         @ 125 V.           iily cut to proper         treps. Rotary type           bull has ¬3°" shaft.         PULL SWITCH           ance         Each 10 Ea.           phm         \$1.19         \$0.99           1.19         .99           1.19         .99           1.10         .90           prices:         .99           1.19         .99           1.19         .99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Stk. No.         Resist           14A1101         500K           14A1101         500K           14A1101         500K           14A1100         1NC           1-INCH BLACK KNN.         No.           12A2026.         With           Each.         MA           Standard         15 Audi           L&T pads         15%" di           T pad         is<11%" dig           shaft         2" long with           and dial plate.         Stk. No.           Stk. No.         Type Re:           14A1104         L-4           14A1105         L-15           Choice         15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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N<br>Intervention<br>No. 10 Ea. 58<br>50.79 14<br>Sert and screw<br>th.<br>L', 4'T''<br>A trivial<br>sert and screw<br>th.<br>L', 5'D'<br>Sert and screw<br>th.<br>Sert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ble         at         lower           Switch rated         with wire cu           with wire cu         with wire cu           with With PUSH-         Main State           All02         J Me           for push-puil.         100 Eacl           for rotary.         100 Eacl           for rotary.         100 Eacl           for state         "L-A"' I           with and the state         with and the state           stance         Stk. No.           50         14A1109           000         50-99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | prices!         Smooth           3 A.         @ 125 V.           sily cut to proper           trers.         Rotary type           pull has ,3°," shaft.           PULL SWITCH           ance         Each 10 Ea.           pbm         \$1.19         \$0.99           g         1.19         .99           ance         Each 10 Ea.           pbm         \$1.19         .99           ance         Each 10 Ea.           pbm         \$1.19         .99           ance         Each 10 Ea.           pbm         \$1.19         .99           ance         Each 10 Ea.           pg         1.19         .99           ance         Each 10 Ea.           pg         1.19         .99           ance         200           pg         2.00         2000           L-4000         4000         4000           100-249         250-499                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Stk. No.         Resist           14A1101         500K           14A1101         500K           14A1101         500K           14A1100         1 M           1-INCH BLACK KNN.         No.           12A2026.         With           Each.         MA           Standard         15 Audi           L&T pads         15%" di           T pad is         11%"           shaft         2" long with           ormplete with me         and dial plate.           Stk. No.         Type Res           14A1104         L-4           14A1105         L-8           14A1106         L-15           Choice         Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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N<br>length<br>has 1/<br>10 Ea. 51<br>\$0.79 14<br>sert and screw<br>th<br>L', 4'T''<br>htts DC).<br>6" deep;<br>ave 1/4"<br>.Alt are<br>re, knob,<br>125 L-250<br>107 L-500<br>108 L-1000<br>108 L-1000<br>108 L-1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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for push-pull.         100 Eacl           for rotary.         100 Eacl           for rotary.         100 Eacl           for source         100 Eacl           for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Smooth           3 A.         @ 125 V.           sily cut to proper           tritres.         Rotary type           pull has ,3°," shaft.           PULL SWITCH           ance         Each 10 Ea.           point from \$1.19         \$0.99           g         1.19         .99           h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Stk. No.         Resist           14A1101         500K           14A1100         I M           1-INCH BLACK KM.         No.           12A2026.         With           Each.         MA           Standard 15 Audi         L& Audi           L&T pad is 1½%"         Ing with           complete with mar         and dial plate.           Stk. No.         Type Res           1AA1104         L-8           1AA1105         L-8           1AA1105         L-15           Choice         Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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for above.<br>.32c 10 Eac<br>1/4" molded ht<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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No.<br>1441109<br>Structure Structure Structure<br>Structure Structure<br>Structure Structure<br>Structure Structure<br>Structure Structure<br>Structure Structure<br>Structure Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure<br>Structure                                                                                                                                                                                                                                                                                                                                         | prices!         Smooth           3 A.         @ 125 V.           iily cut to proper         treps, Rotary type           bull has ,'s''' shaft.         PULL SWITCH           ance         Each 10 Ea.           pbm         \$1.19         \$0.99           h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Stk. No.         Resist           14A1101         500K           14A1100         1 M           1-INCH BLACK KM.         12A2026. With           Each.         MA           No.         12A592. With           Each.         MA           Standard 15 Audi         L& Y           L&T pads 15%" did         Tong with           complete with mean dial plate.         Stk. No.           Stk. No.         Type Res           14A1105         L-8           Choice         Each           Same as the fam         Stk. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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Both h<br>th 36" bushing<br>bunting hardwar<br>sistance Stk.<br>4 14A1<br>8 14A1<br>1.5 14                                                                          | availal action         Solory         Action         Solory         Action         Solory         Action         Action         Solory         Action         Action <t< th=""><th>ADS<br/>ADS<br/>ADS<br/>ADS<br/>ADS<br/>ADS<br/>ADS<br/>ADS</th><th>prices!         Smooth           3 A.         @ 125 V.           ance         125 V.           vill has ,3°.         shaft.           PULL swittCH         ance           ance         Each 10 Ea.           PULL SWITCH         ance           ance         Each 10 Ea.           phm         \$1.19           \$9         1.19           .99         1.19           .99         1.19           .99         1.19           .99         1.19           .99        </th></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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Smooth           3 A.         @ 125 V.           ance         125 V.           vill has ,3°.         shaft.           PULL swittCH         ance           ance         Each 10 Ea.           PULL SWITCH         ance           ance         Each 10 Ea.           phm         \$1.19           \$9         1.19           .99         1.19           .99         1.19           .99         1.19           .99         1.19           .99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Stk. No.         Resist           14A1101         500K           14A1100         IN           1-INCH BLACK KM.         IN           1-INCH BLACK KM.         No.           12A02026.         With           Each.         MA           Standard 15 Audi         L& Audi           L&T pad is 11%"         shaft. 2" long with           complete with me         and dial plate.           Stk. No.         Type Ret           14A1104         L-8           14A1105         L-8           14A1104         L-15           Choice         Each           14A1104         L-15           Choice         Same as the fam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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molded hu<br>.13c 25 Eac<br>LLORY 44<br>to Watts (4 wa<br>a.; L pad is 12<br>deep. Both h<br>th 36" bushing<br>bunting hardwar<br>sistance Stk.<br>4 14A1<br>8 14A1<br>1.5 14                                                                          | A vailal<br>action<br>AC. N<br>length<br>has 1//<br>10 Ea. 51<br>\$0.79 14<br>sert and screw<br>h<br>le and screw<br>h<br>L', ''T''<br>tits DC).<br>6" deep;<br>ave 1/4"<br>ce, knob,<br>15-WATT ''L'' F<br>No. Type Resis<br>125 L-250<br>107 L-500<br>107 L-500<br>107 L-500<br>107 L-500<br>107 L-500<br>108 L-1000<br>59 \$2.46<br>PADS WITH 1" E<br>Pad. For moun<br>nce                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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Smooth           3 A.         @ 125 V.           iily cut to proper           tters, Rotary type           pull has ,'s'' shaft.           PULL SWITCH           ance           Each 10 Ea.           phm           \$1.19           \$9g           1.19           .99g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Stk. No.         Resist           14A1101         500K           14A1100         IN           1-INCH BLACK KNN.         No.           12A2026.         With           Each.         MA           Standard 15 Audi         L& Audi           L&T pads 15%" dia         Ing with           complete with me         and dial plate.           Stk. No.         Type Ret           14A1104         L-8           14A1105         L-8           14A1104         L-15           Choice         Each           Same as the fam         Stk. No.           Type         Typ           14A1118         L8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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Both h<br>1/9 deep. Both h<br>8 data<br>5 MATT ''L-A'' F<br>bous Mallory L-<br>e Resistan<br>A 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | availal         action         Solory         Action         Actio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                | prices!         Smooth           3 A.         @ 125 V.           sily cut to proper           tress, Rotary type           pull has jar         shaft.           PULL SWITCH           ance         Each 10 Ea.           poll has jar         shaft.           PULL SWITCH           ance         Each 10 Ea.           poll has jar         shaft.           PULL SWITCH         ance           ance         Each 10 Ea.           poll has jar         shaft.           poll has jar         shaft.           poll has jar         shaft.           no.         10c           PADS         10c           PADS         2000           L-2000         2000           L-4000         4000           100-249         250-499           \$2.05         \$1.82           AFT         cabinets, etc.           ype         Resistance           I6A         16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Stk. No.         Resist           14A1101         500K           14A1101         500K           14A1100         1 M           1-INCH BLACK KNN.         No. 12A2026.           12.100         1 MA           Standard         15 Audi           L&T pads         15%" di           T pad         1s           13.1%" long with meand dial plate.           Stk. No.         Type Re:           14A1105         L-8           14A1105         L-15           Choice         Each           Stk. No.         Type           14A1105         L-8           14A1105         L-8           14A1105         L-8           14A1105         L-15           Choice         Each           Stk. No.         Typ           14A1118         L8           Choice         Each           14         14           14         L-8           14         L-8           14         L8           14         L8           14         L8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                 | prices! Smooth         3 A. @ 125 V.         3 A. @ 125 V.         will cut to proper         tters, Rotary type         pull has j's" shaft.         PULL SWITCH         ance Each 10 Ea.         point for the state st                                          |
| Stk. No.         Resist           14A1101         500K           14A1101         500K           14A1100         IN           1-INCH BLACK KNN.         No.           12A2026.         With           Each.         MA           Standard 15         Audi           L&T pads         15%" di           T pad is         11%"           Shaft 27 long with         mad           ormplete with ma         and dial plate.           Stk. No.         Type Res           14A1104         L-4           Ath106         L-15           Choice         Each           Stk. No.         Typ           14A1118         L8           Choice         Each           Stk. No.         Typ           14A1118         L8           Choice         Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | availal action         Action <t< th=""><th>ble         at         lower           Switch rated         with wire cu           with wire cu         Resist           All02         JMe           for push-pull.         100 Eacl           for rotary.         100 Eacl           for rotary.         100 Eacl           for source         100 Eacl           for otary.         14110           000         50-99           \$2.28         144110           000         &lt;</th><th>prices!         Smooth           3 A.         @ 125 V.           sily cut to proper           trters, Rotary type           pull has 3's" shaft.           PULL SWITCH           ance         Each 10 Ea.           pull has 3's" shaft.           PULL SWITCH           ance         Each 10 Ea.           phm         \$1.19           sg         1.19           sg         1.19           pg         1.19           pg         1.19           stance         10c           PADS         10c           PADS         2000           L-2000         2000           L-4000         4000           100-249         250-499           \$2.05         \$1.82           AFT         cabinets, etc.           ype         Resistance           16A         16           100-249         \$20-499           \$2.14         \$1.90           Type Resistance</th></t<>                                                                                                                                                                                                                                                                                                                                                                                                                              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for rotary.         100 Eacl           for rotary.         100 Eacl           for source         100 Eacl           for otary.         14110           000         50-99           \$2.28         144110           000         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | prices!         Smooth           3 A.         @ 125 V.           sily cut to proper           trters, Rotary type           pull has 3's" shaft.           PULL SWITCH           ance         Each 10 Ea.           pull has 3's" shaft.           PULL SWITCH           ance         Each 10 Ea.           phm         \$1.19           sg         1.19           sg         1.19           pg         1.19           pg         1.19           stance         10c           PADS         10c           PADS         2000           L-2000         2000           L-4000         4000           100-249         250-499           \$2.05         \$1.82           AFT         cabinets, etc.           ype         Resistance           16A         16           100-249         \$20-499           \$2.14         \$1.90           Type Resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Stk. No.         Resist           14A1101         500K           14A1101         500K           14A1100         IN           1-INCH BLACK KNN.         No.           12A2026.         With           Each.         MA           Standard         15 Audi           L&T pads         15%" di           T pad is         1½%"           shaft         2" long with           ormplete with me         and dial plate.           Stk. No.         Type Re:           14A1104         L-4           14A1105         L-8           14A1106         L-15           Choice         Each           Stk. No.         Type Re:           14A1118         L8/           Choice         5           Stk. No.         Type Re:           14A1118         L8/           Choice         5           Stk. No.         Type Re:           14A1111         T-4           14A1111         T-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SWITC<br>FARY SWITCH<br>Fance Each<br>Ohm \$0.89<br>leg .89<br>DBS for above.<br>.23c 10 Eac<br>3/4" molded hu<br>13c 25 Eac<br>LLORY 44<br>to Watts (4 wa<br>a.; L pad is 14<br>th 3/6" bushing<br>bunting hardwar<br>sistance Stk.<br>4 14A1<br>1-9 10-2<br>2.73 \$2.1<br>5-WATT "L-A" F<br>ous Mallory L-<br>e Resistant<br>A 8<br>1-9 10-2<br>2.73 \$2.2<br>5-WATT "L-A" F<br>Substance Stk.<br>4 14A1<br>1-9 10-2<br>2.73 \$2.2<br>5-WATT "L-A" F<br>Substance Stk.<br>4 14A1<br>1-9 10-2<br>2.73 \$2.2<br>5-WATT "L-A" F<br>Substance Stk.<br>4 14A1<br>8 14A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | availal action         Action <t< th=""><th>ADS<br/>ADS<br/>ADS<br/>ADS<br/>ADS<br/>ADS<br/>ADS<br/>ADS</th><th>prices!         Smooth           3 A.         @ 125 V.           illy cut to proper         tress. Rotary type           tters.         Rotary type           pull has ,'s''' shaft.         PULL SWITCH           ance         Each 10 Ea.           phm         \$1.19           sign 1.19         .99           h.         .119           pg         1.19           h.         .10c           PADS        </th></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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Smooth           3 A.         @ 125 V.           illy cut to proper         tress. Rotary type           tters.         Rotary type           pull has ,'s''' shaft.         PULL SWITCH           ance         Each 10 Ea.           phm         \$1.19           sign 1.19         .99           h.         .119           pg         1.19           h.         .10c           PADS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Stk. No.         Resist           14A1101         500K           14A1101         500K           14A1101         500K           14A1101         500K           14A1100         IN           1-INCH BLACK KNN.         No.           12A692.         With           Each.         MA           Standard 15         Audi           L&T pads         15/%" di           T pads         15/%" di           T pads         15/%" di           T pads         15/%" di           T pads         15/%" di           Standard 15         Audi           L&T pads         15/%" di           T padis         15/%" di           T padis         15/%" di           Stk. No. <type reside<="" td="">         14A1105           Stk. No.         Type Reside           Stk. No.         Type Reside           Stk. No.         Type Reside           Stk. No.         Type Reside           14A1118         L8           Choice         28           Each         3           Stk. No.         Type Reside           14A1111         T-8           14A1111</type>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SWITC<br>Fance Each<br>Ohm \$0.89<br>leg .89<br>DBS for above.<br>.23c 10 Eac<br>1/4" molded ht<br>.13c 22 Eac<br>LLORY<br>istance Stk.<br>4 14A1<br>8 14A1<br>1.9 10-<br>2.7.3 \$2.3<br>S-WATT "L-A" F<br>Hous Mallory L-<br>e Resistance Stk.<br>4 14A1                                                                                                                                                                                                                                                                                                                                                                                                                    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Series         \$0.79       14         sert and screw       Action         bile and screw       Strew         bi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Stk. No. T<br>Stance Stk. No. Stance Stk. No. Stance Stk. No. T<br>Stance Stk. No. T<br>1441127 L<br>Stance Stk. No. T<br>1441137 L<br>Stance Stk. No. T<br>1441138 L<br>Stance Stk. No. T<br>1441138 L<br>Stance Stk. No. T<br>1441137 L<br>Stance Stk. No. T<br>1441138 L<br>Stance Stk. No. T<br>144114 L<br>144114 L<br>144                                                                                                                                                                                                                                                                                                                                                                                               | prices!         Smooth           3 A.         @ 125 V.           ance         125 V.           villy cut to proper         proper           tters.         Rotary type           Dull has ,3°,3°, shaft.         PULL SWITCH           ance         Each 10 Ea.           pype         Each 10 Ea.           phm         \$1.19           sg         1.19           sg         1.19           pg         1.19           pg         1.19           pg         1.19           pg         1.00           PADS         2000           L-4000         4000           100-249         250-499           \$2.05         \$1.82           AFT         cabinets, etc.           ype         Resistance           160-249         250-499           \$2.14         \$1.90           Type Resistance         1500           T-500         500           T-500         600           100-249         250-499                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Stk. No.         Resist           14A1101         500K           14A1101         500K           1+NCH BLACK KNN.         No.           1-INCH BLACK KNN.         No.           12A2026.         With           Each.         MA           Standard 15 Audi         L& Yac           L&T pads 15%" di         T pad 1s 11%"           Shaft 2" long with         complete with me and dial plate.           Stk. No.         Type Ret           14A1105 L-8         14A1105 L-8           14A1105 L-15         Choice           Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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10 Eac<br>3/4" molded hu<br>13c 25 Eac<br>LLORY 44<br>to Watts (4 wa<br>a.; L pad is 13/<br>deep. Both h<br>th 3/e" bushing<br>bunting hardwar<br>sistance Stk.<br>4 14A1<br>15 14A1<br>15 14A1<br>15 14A1<br>15 5-WATT "L-A" F<br>S-WATT "L-A" S<br>S-WATT "L-A" S<br>Sistance Stk.<br>4 14A1<br>8 14A1<br>1-9 10-5<br>22.85 \$2.<br>Sistance Stk.<br>4 14A1<br>8 14A1<br>1-9 10-5<br>22.85 \$2.<br>Sistance Stk.<br>4 14A1<br>8 14A1<br>1-9 10-5<br>23.54 \$3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 24       availal action AC. N         action AC. N       length has 1//         10 Ea.       51         \$0.79       14         sert and screw th       sert and screw th                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | prices!         Smooth           3 A.         @ 125 V.           iily cut to proper           tters.         Rotary type           pull has ,3°, " shaft.           PULL SWITCH           ance         Each 10 Ea.           pull has ,3°, " shaft.           PULL SWITCH           ance         Each 10 Ea.           phm         \$1.19         \$0.99           1.19         .99           ance         Each 10 Ea.           phm         \$1.19         .99           ance         Each 10 Ea.           phm         \$1.9         .99           ance         Each 10 Ea.           phm         \$1.9         .99           ance         Each 10 Ea.           phm         \$1.9         .99           ance         10c           PADS         \$1.80           Total         \$2000           L-4000         4000           100-249         250-499           \$2.14         \$1.90           Type         Resistance           T-500         500           T-600         600           100-249         250-499      \$2.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Stk. No.         Resist           14A1101         500K           14A1100         IN           1-INCH BLACK KM.N.         No.           12A2026.         With           Each.         MA           Standard 15 Audi         L&T           L&T pad 15/6" of         T pad 15 Audi           L&T pads 15/6" of         Standard 15 Audi           L&T pad 15 Audi         L           Complete with mm         and dial plate.           Stk. No.         Type Res           14A1105 L-8         14A1105 L-8           14A1106 L-15         Choice           Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SWITC<br>Hance Each<br>Ohm \$0.89<br>leg .89<br>DBS for above.<br>.23c 10 Eac<br>.44" molded ht<br>.13c 22 Eac<br>LLORY 44<br>io Watts (4 wa<br>a.; L pad is 13'<br>deep. Both h<br>th 36" bushing<br>bunting hardwar<br>sistance Stk.<br>4 14A1<br>8 14A1<br>1.9 10-2<br>2.73 \$2.1<br>5.WATT "L-A" F<br>hous Mallory L-<br>e Resistance<br>Sts.<br>4 14A1<br>8 14A1<br>1.9 10-2<br>2.85 \$2.2<br>sistance Stk.<br>4 14A1<br>8 14A1<br>1.9 10-3<br>5.285 \$2.2<br>sistance Stk.<br>4 14A1<br>8 14A1<br>1.9 10-3<br>5.285 \$2.2<br>sistance Stk.<br>4 14A1<br>8 14A1<br>1.9 10-3<br>5.285 \$2.2<br>sistance Stk.<br>4 14A1<br>8 14A1<br>1.9 10-3<br>3.24 52<br>Statue Stk.<br>4 14A1<br>8 14A1<br>1.9 10-3<br>3.24 52<br>Statue Stk.<br>4 14A1<br>8 14A1 | CHES       availal         action       action         A       Length         bas       V/         10 Ea.       Step         \$0.79       14         \$0.79       14         sert and screw       In         bile and screw       In         and the       In         bile and screw       In <t< td=""><td>ADS<br/>ADS<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO2<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AIO3<br/>AI</td><td>prices!         Smooth           3 A. @ 125 V.         an 25 V.           illy cut to proper         tress, Rotary type           bull has ,'s" shaft.         PULL SWITCH           ance         Each 10 Ea.           point for the second state second</td></t<> | ADS<br>ADS<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO2<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AIO3<br>AI | prices!         Smooth           3 A. @ 125 V.         an 25 V.           illy cut to proper         tress, Rotary type           bull has ,'s" shaft.         PULL SWITCH           ance         Each 10 Ea.           point for the second state second |
| Stk. No.         Resist           14A1101         500K           14A1101         500K           1+NCH BLACK KNN.         No.           1-INCH BLACK KNN.         No.           12A2026.         With           Each.         MA           Standard         15 Audi           L&T pads         15%"           MA         Standard           Standard         15 Audi           L&T pads         15%"           IA         15 Audi           L&T pads         15%"           Stk. No.         Type Re:           14A1105         L-8           14A1105         L-8           14A1105         L-8           Stk. No.         Type Re:           14A1105         L-8           Stk. No.         Type Re:           14A1116         L8           Choice         Each           Stk. No.         Type Re:           14A1118         L8           Choice         Each           Stk. No.         Type Re:           14A1112         T-8           14A1112         T-15           Choice         Each           Stk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SWITC<br>FARY SWITCH<br>Fance Each<br>Ohm \$0.89<br>leg .89<br>DBS for above.<br>.23c 10 Eac<br>1/4" brass in<br>23c 10 Eac<br>1/4" molded hu<br>13c 25 Eac<br>LLORY 44<br>to Watts (4 wa<br>a.; L pad is 13'<br>deep. Both h<br>th 3/6" bushing<br>bunting hardwar<br>sistance Stk.<br>4 14A1<br>15 14A1<br>19 10-<br>52.85 \$2.<br>Sistance Stk.<br>4 14A1<br>8 14A1<br>15 14A1<br>8 14A1<br>15 14A1<br>8 14A1<br>15 14A1<br>8 14A1<br>19 10-<br>53.54 \$3.<br>MALLORY STEL<br>andem for stel<br>With nuts, wa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CHES       availal         action       action         Action       Action         Io Ea.       Settion         \$0.79       14         sert and screw       Action         L', 44T''       Settion         Setting       Setting         Setting       Setting <td< td=""><td>ble         at         lower           Switch rated         with wire cu           with wire cu         with wire cu           with WITH PUSH-         Resist           All02         Me           for push-puil.        </td><td>prices!         Smooth           3 A. @ 125 V.         ance           2 A. @ 125 V.         ance           vill has ,'s" shaft.         PULL swittCH           ance         Each 10 Ea.           PULL SWITCH         ance           ance         Each 10 Ea.           pype         Resistance           10c         PADS           PULL SWITCH         10c           PADS         10c           PADS         10c           PADS         2000           L-4000         4000           100-249         250-499           \$2.05         \$1.82           AFT         cabinets, etc.           ype         Resistance           100-249         250-499           \$2.14         \$1.90           Type Resistance           1-500         500           T-500         500           100-249         250-499           \$2.14         \$1.90</td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ble         at         lower           Switch rated         with wire cu           with wire cu         with wire cu           with WITH PUSH-         Resist           All02         Me           for push-puil.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Smooth           3 A. @ 125 V.         ance           2 A. @ 125 V.         ance           vill has ,'s" shaft.         PULL swittCH           ance         Each 10 Ea.           PULL SWITCH         ance           ance         Each 10 Ea.           pype         Resistance           10c         PADS           PULL SWITCH         10c           PADS         10c           PADS         10c           PADS         2000           L-4000         4000           100-249         250-499           \$2.05         \$1.82           AFT         cabinets, etc.           ype         Resistance           100-249         250-499           \$2.14         \$1.90           Type Resistance           1-500         500           T-500         500           100-249         250-499           \$2.14         \$1.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Stk. No.         Resist           14A1101         500K           14A1101         500K           14A1100         IN           1-INCH BLACK KNN.         No.           12A2026.         With           Each.         MA           Standard 15         Audi           L&T pads         15%" of           T pad is 11%."         Standard 15           Standard 15         Audi           L&T pads 15%" of         Topad is 11%."           shaft 2" long wit         complete with me           and dial plate.         Stk. No.           Stk. No.         Type Res           14A1105         L-8           14A1105         L-8           14A1106         L-15           Choice         Each           Stk. No.         Typ           14A1118         L8           Choice         Each           Stk. No.         Type Res           14A1112         T-8           14A1112         T-8           14A1112         T-8           14A1112         T-8           14A1112         T-8           14A112         T-15           Choice         E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SWITC<br>FARY SWITCH<br>Fance Each<br>Ohm \$0.89<br>leg .89<br>DBS for above.<br>.23c 10 Eac<br>3/4" molded he<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Availal action         Action <t< td=""><td>ble         at         lower           Switch rated         with wire cu           with wire cu         with wire cu           with WITH PUSH-         Nesisti           All02         J Me           for push-puil.         100 Eacl           for rotary.         100 Eacl           for rotary.         12c           100 Eacl         for           for spash-puil.         12c           100 Eacl         for           for otary.         12c           io0 Eacl         for           for otary.         12c           io0 14A1100         50-99           \$2.38         \$2.38           ADS         stance         Stk. No.           stance         Stk. No.         T           14A1127         L         50-99           \$2.35         H 1-INCH BUSHIN           No.         Stk. No.         T</td><td>prices!         Smooth           3 A. @ 125 V.         ance           2 A. @ 125 V.         ance           vill has ,3°." shaft.         PULL swittCH           ance         Each 10 Ea.           PULL SWITCH         ance           ance         Each 10 Ea.           pbm         \$1.19           \$0.99         1.19           g         1.19           ance         Each 10 Ea.           phm         \$1.9           sold         10c           PADS         10c           PADS         10c           PADS         \$1.82           AFT         cabinets, etc.           ype         Resistance           160-249         250-499           \$2.14         \$1.90           100-249         250-499           \$2.14         \$1.90           Type Resistance         1.500           100-249         250-499           \$2.14         \$1.90           100-249         250-499           \$2.66         \$2.36           32 x 1".         Shaft 1/4"           supplied.         ype</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ble         at         lower           Switch rated         with wire cu           with wire cu         with wire cu           with WITH PUSH-         Nesisti           All02         J Me           for push-puil.         100 Eacl           for rotary.         100 Eacl           for rotary.         12c           100 Eacl         for           for spash-puil.         12c           100 Eacl         for           for otary.         12c           io0 Eacl         for           for otary.         12c           io0 14A1100         50-99           \$2.38         \$2.38           ADS         stance         Stk. No.           stance         Stk. No.         T           14A1127         L         50-99           \$2.35         H 1-INCH BUSHIN           No.         Stk. No.         T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | prices!         Smooth           3 A. @ 125 V.         ance           2 A. @ 125 V.         ance           vill has ,3°." shaft.         PULL swittCH           ance         Each 10 Ea.           PULL SWITCH         ance           ance         Each 10 Ea.           pbm         \$1.19           \$0.99         1.19           g         1.19           ance         Each 10 Ea.           phm         \$1.9           sold         10c           PADS         10c           PADS         10c           PADS         \$1.82           AFT         cabinets, etc.           ype         Resistance           160-249         250-499           \$2.14         \$1.90           100-249         250-499           \$2.14         \$1.90           Type Resistance         1.500           100-249         250-499           \$2.14         \$1.90           100-249         250-499           \$2.66         \$2.36           32 x 1".         Shaft 1/4"           supplied.         ype                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Stk. No.         Resist           14A1101         500K           14A1101         500K           14A1101         500K           14A1100         1NC           1-INCH BLACK KNN.         No. 12A2026.           No.         12A592.           With Each.         MA           Standard         15 Audi           L&T pads         15%" di           T pad is         1½%"           shaft         2" long with           romplete with me         and dial plate.           Stk. No.         Type Re:           14A1105         L-8           14A1105         L-8           14A1105         L-8           Stk. No.         Type           Stk. No.         Type           Stk. No.         Type           14A1118         L8           Choice         Each           Stk. No.         Type Re:           14A1112         T-8           14A1112         T-8           14A1112         T-15           Choice         Each           Sth         Sth           Sth         Sth           Sth         Sth <td< th=""><td>SWITC<br/>FARY SWITCH<br/>Fance Each<br/>Ohm \$0.89<br/>leg .89<br/>DBS for above.<br/>.23c 10 Eac<br/>3/4" molded he<br/>.13c 25 Eac<br/>LLORY 44<br/>to Watts (4 wa<br/>a.; L pad is 13'<br/>deep. Both h<br/>th 3/6" bushing<br/>bunting hardwar<br/>sistance Stk.<br/>4 14A1<br/>15 14A1<br/>19 10-<br/>53.54 \$3.<br/>MALLORY STEL<br/>andem for stel<br/>With nuts, wa<br/>e Impeder<br/>8 0hm<br/>1-9 10-<br/>1-9 10-<br/>1-</td><td>Availal action         Solors         Action         <t< td=""><td>ble         at         lower           Switch rated         with wire cu           with wire cu         with wire cu           with WITH PUSH-         Nesisti           All02         J Me           for push-puil.         100 Eacl           for rotary.         100 Eacl           for rotary.         12c           100 Eacl         for           for spash-puil.         12c           100 Eacl         for           for otary.         12c           io0 Eacl         for           for otary.         12c           io0 14A1100         50-99           \$2.38         \$2.38           ADS         stance         Stk. No.           stance         Stk. No.         T           14A1127         L         50-99           \$2.35         H 1-INCH BUSHIN           No.         Stk. No.         T</td><td>prices!         Smooth           3 A. @ 125 V.         ance           2 A. @ 125 V.         ance           vill has ,'s" shaft.         PULL swittCH           ance         Each 10 Ea.           PULL SWITCH         ance           ance         Each 10 Ea.           pype         Resistance           10c         PADS           PULL SWITCH         10c           PADS         10c           PADS         10c           PADS         2000           L-4000         4000           100-249         250-499           \$2.05         \$1.82           AFT         cabinets, etc.           ype         Resistance           100-249         250-499           \$2.14         \$1.90           Type Resistance           1-500         500           T-500         500           100-249         250-499           \$2.14         \$1.90</td></t<></td></td<> | SWITC<br>FARY SWITCH<br>Fance Each<br>Ohm \$0.89<br>leg .89<br>DBS for above.<br>.23c 10 Eac<br>3/4" molded he<br>.13c 25 Eac<br>LLORY 44<br>to Watts (4 wa<br>a.; L pad is 13'<br>deep. Both h<br>th 3/6" bushing<br>bunting hardwar<br>sistance Stk.<br>4 14A1<br>15 14A1<br>19 10-<br>53.54 \$3.<br>MALLORY STEL<br>andem for stel<br>With nuts, wa<br>e Impeder<br>8 0hm<br>1-9 10-<br>1-9 10-<br>1-                                     | Availal action         Solors         Action         Action <t< td=""><td>ble         at         lower           Switch rated         with wire cu           with wire cu         with wire cu           with WITH PUSH-         Nesisti           All02         J Me           for push-puil.         100 Eacl           for rotary.         100 Eacl           for rotary.         12c           100 Eacl         for           for spash-puil.         12c           100 Eacl         for           for otary.         12c           io0 Eacl         for           for otary.         12c           io0 14A1100         50-99           \$2.38         \$2.38           ADS         stance         Stk. No.           stance         Stk. No.         T           14A1127         L         50-99           \$2.35         H 1-INCH BUSHIN           No.         Stk. No.         T</td><td>prices!         Smooth           3 A. @ 125 V.         ance           2 A. @ 125 V.         ance           vill has ,'s" shaft.         PULL swittCH           ance         Each 10 Ea.           PULL SWITCH         ance           ance         Each 10 Ea.           pype         Resistance           10c         PADS           PULL SWITCH         10c           PADS         10c           PADS         10c           PADS         2000           L-4000         4000           100-249         250-499           \$2.05         \$1.82           AFT         cabinets, etc.           ype         Resistance           100-249         250-499           \$2.14         \$1.90           Type Resistance           1-500         500           T-500         500           100-249         250-499           \$2.14         \$1.90</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ble         at         lower           Switch rated         with wire cu           with wire cu         with wire cu           with WITH PUSH-         Nesisti           All02         J Me           for push-puil.         100 Eacl           for rotary.         100 Eacl           for rotary.         12c           100 Eacl         for           for spash-puil.         12c           100 Eacl         for           for otary.         12c           io0 Eacl         for           for otary.         12c           io0 14A1100         50-99           \$2.38         \$2.38           ADS         stance         Stk. No.           stance         Stk. No.         T           14A1127         L         50-99           \$2.35         H 1-INCH BUSHIN           No.         Stk. No.         T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | prices!         Smooth           3 A. @ 125 V.         ance           2 A. @ 125 V.         ance           vill has ,'s" shaft.         PULL swittCH           ance         Each 10 Ea.           PULL SWITCH         ance           ance         Each 10 Ea.           pype         Resistance           10c         PADS           PULL SWITCH         10c           PADS         10c           PADS         10c           PADS         2000           L-4000         4000           100-249         250-499           \$2.05         \$1.82           AFT         cabinets, etc.           ype         Resistance           100-249         250-499           \$2.14         \$1.90           Type Resistance           1-500         500           T-500         500           100-249         250-499           \$2.14         \$1.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

#### IRC - CTS TYPE Q CONTROLS





Attach to the standard Q control to make dual or multisection controls. Use snap on switch if needed. Wt. 2 ozs.



Use 76

1%i," diameter with universal 3" shaft. Meets most every replacement require-ment. Use type 76 switches. Add multi-sections to assemble dual or multisection controls. Shpg. wt. 4 ozs. IRC Type Ohms Res Ctk No Taner

| STK. NO.                             | ткс туре                                 | unms kes.                | Taper                                 |
|--------------------------------------|------------------------------------------|--------------------------|---------------------------------------|
| 14C377                               | Q11-201                                  | 250                      | A A A A A A A A A A A A A A A A A A A |
| 14B416                               | Q11-103-                                 | 500                      |                                       |
| 14A417                               | Q11-108                                  | 1000                     |                                       |
| 14C379                               | Q11-109                                  | 1500                     |                                       |
| 14C380                               | Q11-110                                  | 2000                     |                                       |
| 14C381                               | Q13-111                                  | 2500                     |                                       |
| 14B419                               | Q11-112                                  | 3K                       |                                       |
| 14B421                               | Q11-114                                  | 5K                       |                                       |
| 148425                               | Q11-116                                  | 10K                      | A                                     |
| 148426                               | Q13-116                                  | 10K                      | C                                     |
| 148399                               | Q11-119                                  | 20K                      | A                                     |
| 14B432<br>14B435<br>14B436<br>14C383 | Q11-120<br>Q11-123<br>Q13-123<br>Q11-125 | 25K<br>50K<br>50K<br>75K | A<br>C<br>A                           |
| 148440                               | Q11-128                                  | 100K                     | A                                     |
| 148441                               | Q13-128                                  | 100K                     | C                                     |
| 148444                               | Q11-130                                  | 250K                     | A                                     |
| 148445                               | Q13-130                                  | 250K                     | C                                     |
| 148451                               | Q11-133                                  | 500K                     | A                                     |
| 148452                               | Q13-133                                  | 500K                     | C                                     |
| 148454                               | Q14-133                                  | 500K                     | D                                     |
| 148456                               | Q11-137                                  | 1 Meg.                   | A                                     |
| 14B457                               | Q13-137                                  | 1 Meg.                   | C                                     |
| 14A395                               | Q11-139                                  | 2 Meg.                   | A                                     |
| 14B463                               | Q13-139                                  | 2 Meg.                   | C                                     |
| 14A394                               | Q11-239                                  | 2.5 Meg.                 | A                                     |
| 14A393                               | Q11-140                                  | 3 Meg.                   | A                                     |
| 14B470                               | Q11-141                                  | 5 Meg.                   | A                                     |
| 14B471                               | Q11-143                                  | 10 Meg.                  | A                                     |
| CHOICE<br>EACH                       | \$1.39                                   | 6 @<br>Each              | \$1.23                                |

EXPLANATION OF IRC CONTROL TAPERS: "A" Linear; "C" Logarithmic for audio; "H" tapped logarithmic; "D" right hand semi-logarithmic for bias, contrast and picture control.

| Stk. No.             | IRC Type                  | Ohms Res. | Taper    |  |  |  |  |
|----------------------|---------------------------|-----------|----------|--|--|--|--|
| 14B183               | M11-116                   | 10K       | Α        |  |  |  |  |
|                      | M11-120                   | 25K       | A        |  |  |  |  |
| 14B201               | M11-123                   | 50K       | A        |  |  |  |  |
|                      | M13-128                   |           |          |  |  |  |  |
|                      | M11-130                   |           | . A      |  |  |  |  |
|                      | M11-133                   | .5 Meg.   |          |  |  |  |  |
| 14B207               | M13-133                   | .5 Meg.   | С        |  |  |  |  |
| 14B208               |                           |           | Α        |  |  |  |  |
|                      | M13-137                   |           |          |  |  |  |  |
| 14B210               | M11-139                   | 2.0 Meg.  | A        |  |  |  |  |
| 148319               | M13-139                   | 2.0 Meg.  | ç        |  |  |  |  |
| 14B212               | M11-141                   | 5.0 Meg.  | A        |  |  |  |  |
| CHOICE               |                           | 6@        |          |  |  |  |  |
| EACH                 | \$1.79                    | EACH      | . \$1.62 |  |  |  |  |
| © 51                 | AP.ON                     | SWITCH    | IFS      |  |  |  |  |
|                      | ••••                      |           |          |  |  |  |  |
| Type 76-<br>No. 14B  | I S.P.S.T. SV<br>506 Each | vitch     | 750      |  |  |  |  |
| Type 76-2<br>No. 14B | 2 D.P.S.T. Sv<br>507 EACH | vitch     | 750      |  |  |  |  |
| MALLORY PUSH-PULL    |                           |           |          |  |  |  |  |
| REPLACEMENT          |                           |           |          |  |  |  |  |
|                      |                           |           |          |  |  |  |  |
| SWITCHES             |                           |           |          |  |  |  |  |
|                      |                           |           |          |  |  |  |  |



Replaces push-pull AC switch sections of single and dual controls. Rated 6 amp. 125VAC. Easy to replace.

| Stk. No. | Туре | Each | 6 Each |
|----------|------|------|--------|
| 14A1150  | KR8M | 69c  | 60c    |
| 14A1151  | KR9M | 99c  | 90c    |

### IRC MULTI-TURN PRECISION POTENTIOMETER AND "REVODEX" DIALS



Precision high reliability multi-turn controls. Features close resistance and linearity tolerance.

 $\bigcirc$  Model 5000. Sub-miniature precision pot, 10-turn, 1.5 watts, only 42'' dia.,  $1^{1}52''$  L. Res. tolerance 5%, linearity tol. 5%, 4a'' shaft, 42'' long. Available in following values: 100, 500, 1K, 5K, 10K, 25K, and 50K ohms. No. 14A1128. Model 5000

1-9 Ea. \$10.00 10-24 Ea....\$9.50 25-49 Ea....\$9.00 50-99 Ea....\$8.50 100 Up....\$8.00 © Model 7500. Miniature precision pot, 10-turn, 3 watts, 34" dia., 12½," long. Res. tolerance 5%, linearity tol. 0.5%. 1/4" shaft, 1/2" long. Available in following values: 100, 250, 500, 1K, 5K, 10K, 25K, 50, 100K ohms. No. 14A1129. Model 7500 1-9 Ea. \$12.50 10-24 Ea. ....\$11.88 25-99 Ea. \$11.25 100 Up......\$10.63

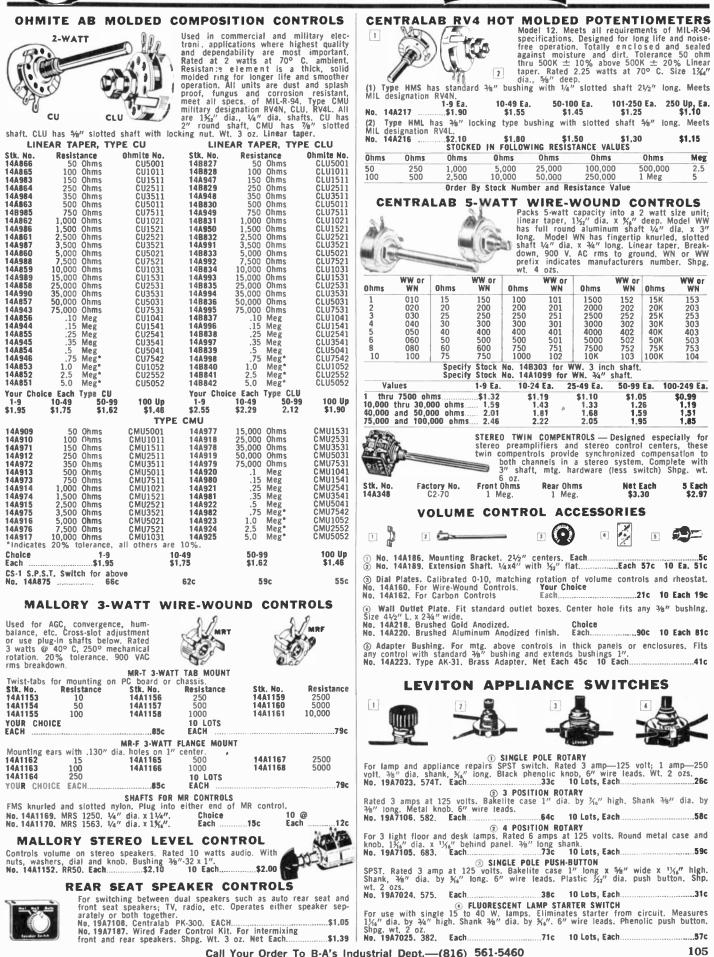
Model HD150. Standard, 10-turn rugged pot, rated at 5 watts, case size is 1½<sup>n</sup> dia. x 2" L. Resistance tolerance 3%, linearity tol. 0.25%. 25" shaft, 405" long. Available in following values: 500, 1K, 5K, 10K, 20K, 30K, 50K, 100K ohms. No. 14A1130. Model HD150
 1-9Ea. \$12.00 10-24 Ea. \$11.40 25-49 Ea. \$10.80 50-99 Ea....\$10.20 100 Up...\$9.60

G Full Range "Revodex" Dials. For use with above. Gives accurate readings to one part in 1000. Finger tip locking action locks dial without shifting the reading. Body of dial mounts directly on pot bushing and knob attaches to shaft. Dia. 1", No. 14A1131 Model R0-412—Black Finish. No. 14A1132. Model RD-462—Clear Finish.

Choice, 1-9 Ea....\$8.25 10-24 Ea...\$7.84 25-99 Ea...\$7.43 100-249 Ea....\$7.01 ③ Direct Reading "Revoder" Dial. Even when used above eye level 1%" size gives a direct reading with 3 numbers grouped for fool-proof reading. Full range 000 to 999 to indicate full ten turns. Knobs are secured directly to pot shaft for virtually no backlash. Dia. 1%", pot shaft dia. 1%". No. 14A1133, Model RD-1—Black Finish. No. 14A1134. Model RD-6—Clear Finish. Choice, 1-9 Ea...\$5.75 10-24 Ea. \$5.46 25-49 Ea...\$5.18 50-99 Ea...\$4.89 100 Up..\$4.60

Burstein-Applebee Co., 3199 Mercier St., Kansas City, Mo. 64111

CRL- CONTROLS

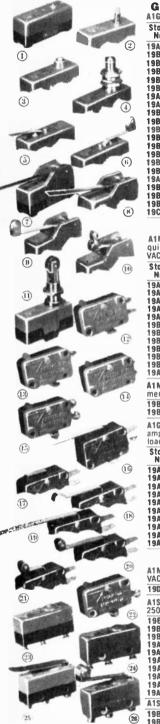


**SWITCHES** 

## **P&B, LINEMASTER, GRAYHILL, SWITCHCRAFT SWITCHES**

#### POTTER & BRUMFIELD PRECISION SWITCHES

UL and CSA listed. Directly interchangeable with competitive types shown. Improved design provides longer life, precision action, trouble-free service. For detailed specifications request Potter & Brumfield Catalog B-A No. 16A1151-FREE.



| rum  | field (    | atalog  | B-A No. 16A1151 | -FREE.     |        |
|------|------------|---------|-----------------|------------|--------|
|      |            | -       |                 |            | 156    |
|      |            |         |                 | SWITCH     |        |
| i1.  | SPDT.      | 15 amp  | os-480 V AC; 1  | /4 HP 250  |        |
| ock  |            | G1      | Micro.          | Oper.      | 1-9    |
| 0.   | No.        | Type    | Equiv.          | Force Ozs. | Each   |
| 657  | / 1        | 111-1   | BZ-2R           | 9-13       | \$1.67 |
| 3658 |            | 112-1   | BZ-2R\$         | 9-13       | 2,15   |
| 3659 | <b>J</b> 3 | 113-1   | BZ-2RD          | 9-13       | 2.20   |
| 366( |            | 114-1   |                 | 9-13       | 3.75   |
| 3661 | 2 6        | 115-1   |                 | 5 Max.     | 1.90   |
| 3662 | 2 6        | 116-1   | BZ-2RL2         | 5 Max.     | 2,50   |
| 1663 | 7          | 117-1   | BZ-2RW80        | 21/2 Max.  |        |
| 1664 |            | 117-1-3 |                 | 1 Max.     | 2.40   |
| 3666 |            | 177-1   | BZ-2RW84        | 1 Max.     | 2.15   |
| 3667 |            | 119-1   | BZ-2RW822       | 6 Max.     | 2.75   |
| 3668 |            | 117-1-2 |                 | 8 Max.     | 3.25   |
| 3669 |            | 118-1   | BZ-2RW82        | 31/2 Max.  |        |
| 3670 | ) 1        | 111-8   | BZ-2R-A2        | 9-13       | 1.80   |
| 3671 |            | 112-8   | BZ-2RS-A2       | 9-13       | 2.30   |
| 3672 |            | 113-8   | BZ-2RD-A2       | 9-13       | 2.25   |
| 3673 |            | 114-8   | BZ-2RQ1-A2      | 9-13       | 3.85   |
| 1674 |            | 114-8-1 |                 | 9-13       | 6.65   |
| 367  |            | 115-8   | BZ-2RL-A2       | 5 Max.     | 2.10   |
| 3676 |            | 116-8   | BZ-2RL2-A2      | 5 Max.     | 2.65   |
| 3677 |            | 117-8   | BZ-2RW80-A2     |            |        |
| C614 | 9          | 119-8   | BZ-2RW822-A2    | ? 6 Max.   | 2,80   |

#### MINIATURE PRECISION SWITCHES

A1M1. SPDT except 311-1 is SPST NO. Meets UL re-quirements for 15 amps—250 VAC, 1/3 HP 125/250 VAC.

| Stock<br>No. | Fig.<br>No. | M1<br>Type | Micro.<br>Equiv,              | Oper.<br>Force Ozs. | 1-9<br>Each |
|--------------|-------------|------------|-------------------------------|---------------------|-------------|
| 19A626       | 12          | 111-8      | V3-1                          | 6-14                | \$1.10      |
| 194627       | 12          | 111-1      | V3-19                         | 6-14                | 1.04        |
| 194629       | 14          | 111-2      | V3-15                         | 6-14                | 1.04        |
| 19A631       | 13          | 311-1      | V3-32                         | 6-14                | .96         |
| 19A634       | 22          | 311-B      | V3-23                         | 6-14                | 1,00        |
| 19B639       | 15          | 131-B      | V3-601                        | 6-14                | 1.50        |
| 19B678       | 17          | 117-6      | V3-L-1-D8                     | 14 Max.             | 1.05        |
| 19B680       | 16          | 117-6-1    | V3-L-2-D8                     | 8 Max.              | 1.05        |
| 19B681       | 18          | 117-6-2    | V3-L-5-D8                     | 8 Max.              | 1.05        |
| 19B682       | 19          | 117-6-3    | V3-L-6-D8                     | 4 Max.              | 1.05        |
| 19B683       | 20          | 118-6      | V3-L-4-D8                     | 8 Max.              | 1.25        |
| 194684       | 21          | 119-6      | V3-L-3-D8                     | 14 Max.             | 1.25        |
|              |             |            | force—SPDT. I<br>VAC, 10 amps |                     | quire-      |
| 198640       | 15          | 171-B      | V3-101                        | 8 Max.              | \$1,10      |
| 198643       | 12          | 171.1      | V3.110                        | 8 May               | 1 04        |

1/1-1 A1G2. SPDT 20 amps, 480 VAC; 2 HP 250 VAC; 10 amps 125 V when controlling tungsten filament lamp loads on AC circuits.

| Stock<br>No. | Fig.<br>No. | G2<br>Type | Micro.<br>Equiv. | Oper.<br>Force Ozs. | 1-9<br>Each |
|--------------|-------------|------------|------------------|---------------------|-------------|
| 19A615       | 1           | 111-8      | BA-2R-A2         | 14-22               | \$1,80      |
| 19A616       | 3           | 113-8      | BA-2RB-A2        | 14-22               | 2.25        |
| 19A617       | 4           | 114-1      | BA-2RQ1          | 14-22               | 4,10        |
| 19A618       | 4           | 114-8      | BA-2RQ1-A2       | 14-22               | 3.85        |
| 19A619       | 5           | 115-1      | BA-2RL           | 9 Max.              | 2.25        |
| 19A620       | 5           | 115-8      | BA-2RL-A2        | 9 Max.              | 2.10        |
| 19A622       | 6           | 116-8      | BA-2RL2-A2       | 9 Max.              | 2.65        |
| 19A623       | 7           | 117-8      | BA-2RV-A2        | 21/2 Max.           | 2,30        |
| 19A624       | 9           | 118-1      | BA-2RV2          | 21/2 Max.           | 3,10        |
| 19A625       | 9           | 118-8      | BA-2RV2-A2       | 21/2 Max.           | 2.90        |

SUB-MINIATURE PRECISION SWITCHES

#### A1M4. SPDT. Meets UL requirements. 10 amps, 250 VAC. 15 191-B 190636 V3-26 7-12 \$1.35 A1S1 SPDT. Meets UL requirements for 5 amps. VAC. 250 198646 198647 198648 24 .20 198647 24 198648 24 198651 23 198652 24 1987225 25 111-3 131-1 131-3 131-1 131-1 115-1-11 1SM1-T 11SM1 3-5 3-5 3-5 7 Max. 7 Max. 1.20 11SM1-T 11SM1 1.20 11SM1 1.65 2.00 2.00 1.20 1.20 19A653 26 26 116-1-11 111SM2 111SM2-T Max. Max. 19A654 19A655 116-3-11 24 24 121-1 1SM3 11SM3 3-5 194656 141-1 A1S5. SPDT. Gold contacts. 1/2 amp. 28 VDC \$1.45 1.70 19B649 23 24 151-1 161-1 1SM23 3-5 3-5 19B650 11SM23

QUANTITY DISCOUNT SCHEDULE—Deduct 10% for 10-19 pieces; 20% 20-49 pieces; 36% for 50-99 pieces. for

| E                             | beh                           | iature moi<br>ind panel. | ITCHCR<br>mentary push<br>Molded plas<br>e | n-button<br>stic body  | switch 1               | K₄″sq.<br>ifront p     | anel mou               | 5," max.<br>Inting in  |
|-------------------------------|-------------------------------|--------------------------|--------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Stock<br>No.                  | Mfg.<br>No.                   | Button                   | Contacts                                   | 1.24                   | Pri<br>25-49           | ces Each<br>50-99      |                        | 250-499                |
| 19Å7109<br>19Å7110<br>19Å7111 | BX-01-1<br>BX-02-1<br>BX-01-6 | Red<br>Black<br>Fed      | SPST-NO<br>SPST-NO<br>DPDT                 | \$1.95<br>1.95<br>2.25 | \$1.79<br>1.79<br>2.06 | \$1.63<br>1.63<br>1.88 | \$1.30<br>1.30<br>1.50 | \$1.24<br>1.24<br>1.43 |



O Model T51-S "Treadlite." Compact, rugged treadle switch. SPDT momentary contacts rated 7 amps at 125-250 VAC. ¼ HP 125 VAC. Has heavy rubber tread and skidproof base pad. Durable black finish. Size 3½x23%x1". Shpg. wt. 7 ozs. No. 19A7091. 19 Ea......\$2.20 60 Model 491-S "Compact." Lightweight momentary contact switch with SPDT contacts rated 10 amps at 125 VAC. 42 HP, 115 VAC. Has steel housing, black wrinkle finish, skid-proof base. Size 276x24/2x13/g". Wt. 8 ozs. No. 19A7092. 1-9 Ea......\$2.92 20-49 Ea.....\$2.60 (3) Model 632-0. As above, but maintains contact until again actuated. Wt. 2½ lbs. No. 19A7094, 1-9 Ea......\$11.00 10-19 Ea.....\$9.90 20-49 Ea.....\$8.80 60 Model L2-S Lektro-Lock. Teeter-totter principle. Mechanical interlock prevents both sides being operated at same time. Each side SPDT momentary. When pressure is released, switch returns to normal. May be wired normally open or normally closed on each side. 15 A. 125-250 VAC. Black wrinkle metal housing. 5x24x11/3<sup>//</sup>. Wt. 10 ozs. No. 19A7095, 1-9 Ea.....

....\$5.80 10-19 Ea.....\$5.22 20-49 Ea..... .....\$4.64 ③ Model 121-\$ Junior Footswitch. An ideal unit for office machines and shop equipment. Light pressure required. Popular for knee operation. Momentary SPDT, 15 amp 125-250 VAC. Aluminum housing 5½x3¼x1¼4". Wt. 1 lb. No. 19A7096. 1-9 Ea......\$8.25 10-19 Ea.....\$7.42 20-49 Ea.....\$8.6.60



### **GRAYHILL PUSH SPST SWITCHES**

O SILENT ACTION SPST SWITCHES O SILENT ACTION SPST SWITCH Momentary, Normally open or normally closed. Rating 1 ampere. 115 V. AC. 1%2-32 threaded bushing, 1%4" O.D., 1½2" overall length including solder type terminals. Shop, wt. 3 ozs.

| No, 19A7027, #4001, N.O. Red. 1-49 Each\$1.00              | 50-99 Each75c                           |
|------------------------------------------------------------|-----------------------------------------|
| No. 19A7028, #4002, N.C. Black, 1-49 Each\$1.00            | 50-99 Each75c                           |
| ② SUB-MINIATURE SILENT ACTION SPST S                       | SWITCH                                  |
| Momentary, Normally open or normally closed. Rated at 1 ar | npere, 115 V. AC. Button                |
| and housing molded phenolic, 4/4-32 threaded bushing, 3/8" | 0.D., ##" overall length                |
| including solder terminals.                                |                                         |
| No. 19A7029, #30-1, N.O. Red. 1-49 Each                    | 50-99 Each71c                           |
| No. 19A7030, #30-2. N.C. Black 1-49 Each                   | 50-99 Each71c                           |
| (3) MINIATURE PUSH SPST SILENT ACTION                      | SWITCH                                  |
| Manual Annual Baked 17 annual 115 M 10 Day                 | the second descention of a second stand |

 O SNAP ACTION SPST SWITCH
Momentary, Normally open, Rating: 10 amperes, 115 V. AC. 1½, 32 threaded bushing.
%" O.D., 13%4" overall length including solder type terminals. Shpg. wt. 3 oz.
No. 19A7032. #2201. N.O. Red. 1-49 Each......\$1.80 Use with series 2000, 4000. Fits 1%."-32 thread

| ĺ | No. 19A7033. Type 10C-1015 1-49 Each                                             |              |
|---|----------------------------------------------------------------------------------|--------------|
|   | DECORATIVE     Social 2000 4000 15( 22 thread                                    | MOUNTING NUT |
|   | Use with series 2000, 4000, 13/2-32 thread<br>No. 19A7034. Type 7C1040 1-49 Each |              |

**SWITCHCRAFT "TINY SWITCH"** "LITTEL-SWITCHES"

MOMENTARY MINIATURE PUSH-BUTTON SWITCHES "Littel" 200 Series mounts in 36" hole. Black button. "Tiny" 950 Series mounts in 1/4" hole. Red button.

| Stock   |      |         | Prices Each |        |        |         |  |
|---------|------|---------|-------------|--------|--------|---------|--|
| No.     | Туре | Action  | 1-24        | 25-49  | 50-99  | 100-249 |  |
| 19A7038 | 201  | SPST-NO | \$0,60      | \$0,55 | \$0,50 | \$0.40  |  |
| 19A7039 | 202  | SPST-NC | .60         | .55    | .50    | .40     |  |
| 19A7040 | 203  | SPOT    | .69         | .63    | .58    | .45     |  |
| 19A7043 | 951  | SPST-NO | .60         | .55    | .50    | .40     |  |
| 19A7044 | 952  | SPST-NC | .60         | .55    | .50    | .40     |  |
| 19A7045 | 953  | SPDT    | .69         | .63    | .58    | .48     |  |

#### **2 "BUTTON SWITCH" SWITCHES**

SMALL MOMENTARY PUSH-BUTTON SWITCHES Metal housing, Mounts in 1%2" hole. Rated 250 MA AC.

| Stock              | -                    |              |               | Prices Each |               |         |
|--------------------|----------------------|--------------|---------------|-------------|---------------|---------|
| No.                | Туре                 | Action       | 1-24          | 25-49       | 50-99         | 100-249 |
| 19A7041<br>19A7042 | 903-Red<br>913-Black | SPDT<br>SPDT | \$0.87<br>.87 | \$0.80      | \$0.73<br>.73 | \$0.58  |

#### EAGLE MOMENTARY PUSH-BUTTON SWITCH

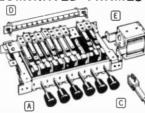
Normally open. Ideal for signal bells, lights, buzzers, etc. Pearl button with a nickel plated outer ring. Screw terminals. Snap mounts in 5/9" dia. hole. Depth of shank 4/2". Eagle No. 188. Shpg. wt. 2 oz. No. 19A7026, 1-9 Ea......45c 10-99 Ea......40c 100 up Ea. 36c



### MULTI-SWITC **X** • **X**

### SERIES 7000 NON-ILLUMINATED FRAMES

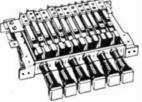
Heavy gauge steel switch frames mount on panels up to 3/8'' thick with  $3\frac{1}{16}''$  depth behind the panel. Round brown push-onbehind the panel. Round brown push-on-buttons supplied each station, plus extra red button for use when switch requires release station. 5%" center steel plunger .050" x .187" accepts standard push-on-buttons and "Glo-Buttons". Standard plunger is 11%" long. Series 7000 Multi-Switch frames are available from 1 to 37 stations, only the most com-moniy used frames are listed below. For more information request Switchcraft Catalog S-306 B-A Stock No. 19A7113 FREE.



| Stock   | Switchcraft | No. of   | Prices Each |        |        |        |
|---------|-------------|----------|-------------|--------|--------|--------|
| No.     | Part No.    | Stations | 1-9         | 10-24  | 25-49  | 50-99  |
| 19A7114 | 7200        | 2        | \$7.48      | \$5.61 | \$5.14 | \$4.68 |
| 19A7143 | 7400        | 4        | 10.56       | 7.92   | 7.26   | 6.60   |
| 19A7144 | 7600        | 6        | 14.08       | 10.56  | 9.68   | 8.80   |
| 1947145 | 7800        | 8        | 17.60       | 13.20  | 12.10  | 11.00  |
| 19A7146 | 71000       | 10       | 21.12       | 15.84  | 14.52  | 13.20  |
| 19A7147 | 71200       | 12       | 24.64       | 18.48  | 16.94  | 15.40  |

### SERIES 21000 ILLUMINATED FRAMES

Similar in switching functions and character-Similar in switching functions and character-istics to non-illuminated Multi-Switch, but with these outstanding features: modern square button design with bright uniform front and side illumination. Two lamp voltages: 6 V, and 28 V. Buttons with white jewels and white diffusers are furnished for switching and release stations. Standard frames listed below provide "L" type lighting (push-buttons and stack switches. Use 327 or 328 lamp shown on page 121. shown on page 121.



| Stock   | Switchcraft | No. of   | Prices Each |        |        |        |
|---------|-------------|----------|-------------|--------|--------|--------|
| No.     | Part No.    | Stations | 1-9         | 10-24  | 25-49  | 50.99  |
| 19A7115 | 21200       | 2        | \$12.76     | \$9.57 | \$8.77 | \$7.98 |
| 19A7148 | 21400       | 4        | 21.56       | 16.17  | 14.82  | 13.48  |
| 19A7149 | 21600       | 6        | 30.36       | 22.77  | 20.87  | 18.98  |
| 19A7150 | 21800       | 8        | 39.20       | 29.40  | 26.95  | 24.50  |
| 19A7151 | 211000      | 10       | 48.40       | 36.30  | 33.28  | 30.25  |
| 19A7152 | 211200      | 12       | 57.20       | 42.90  | 39.33  | 35.75  |

### D LOCK-OUT BAR "K" SERIES

Prevents operation of more than one switching station at a time. Mounts on back of standard Multi-Switch Series 7000, 21000. Available from 2 to 37 stations for a single frame.

| Stock   | Switchcraft | No. of   |        | Prices Each |        |        |
|---------|-------------|----------|--------|-------------|--------|--------|
| No.     | Part No.    | Stations | 1-9    | 10-24       | 25-49  | 50-99  |
| 19A7116 | K-02        | 2        | \$2.64 | \$1.98      | \$1.82 | \$1.65 |
| 19A7153 | K-04        | 4        | 2.88   | 2.16        | 1.98   | 1.80   |
| 19A7154 | K-06        | 6        | 3.08   | 2.31        | 2.12   | 1.93   |
| 19A7155 | K-08        | 8        | 3.32   | 2.49        | 2.28   | 2.08   |
| 19A7156 | K-10        | 10       | 3.76   | 2.82        | 2.59   | 2.35   |
| 19A7157 | K-12        | 12       | 4.20   | 3.15        | 2.89   | 2.63   |

### E SOLENOID RELEASE ..... "J" SERIES

Easily added on the end of a standard frame assembly. For 115 VAC. J1 for inter-lock switch: J3 for all-lock switches up to 12 stations.

| Stock              | Switchcraft | Prices Each    |                |                |                |  |
|--------------------|-------------|----------------|----------------|----------------|----------------|--|
| No.                | Part No.    | 1-9            | 10-24          | 25-49          | 50.99          |  |
| 19A7165<br>19A7166 | J1<br>J3    | \$7.60<br>8.00 | \$5.70<br>6.00 | \$5.23<br>5.50 | \$4.75<br>5.00 |  |

### **C** SWITCH STACKS

Interchangeable switch stacks for mounting to Multi-Switch frames. Series 70P welded cross-bar palladium contacts. Rated at 3 amps, 300 watts max., AC non-"Snap action piggy back, snap switch rated at 15A 125/250 VAC. or 1/2 H.P.

Prices Each 10-24 25-49 Switchcraft Stock Part No. Circuits 1.9 50-99 No 19A7161 71P 1-A \$0.60 \$0.45 \$0.41 \$0.38

| 19A7162 | 72P   | 1-B | .60  | .45  | .41  | .38  |
|---------|-------|-----|------|------|------|------|
| 19A7163 | 73P   | 1-C | .80  | .60  | .55  | .50  |
| 19A7164 | 73PD  | 1-D | .88  | .66  | .61  | .55  |
| 19A7221 | *73SA | 1-C | 2.60 | 1.95 | 1.79 | 1.63 |
|         | · ·   |     |      |      |      |      |

### HOW TO ORDER "MULTI-SWITCH" SWITCHES

Use this check list to simplify ordering complete switch assemblies. (A) & (B) Determine part number of frame.

| AJ | - ÖL | (0) | De    | ıeı | 1111  | ne  | 1 |
|----|------|-----|-------|-----|-------|-----|---|
|    | 1    | Min | - i I | 1   | n i i | + - |   |

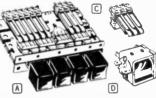
| ) a (b) becermine part number | <br>tranic.           |
|-------------------------------|-----------------------|
| 1-Non-illuminated             | 2Illuminated          |
| No. of stations.              | No. of stations.      |
| Type of functions.            | Type of function.     |
|                               | Type of illumination. |

Type of illumination. (C) Switching needed on each station: Depends on function of switch, circuitry, contact material. Lighting stacks for illuminated switch frame. (D) Lock-out function: For Series 7000, 8000, 21000, 22000. Part No. of lock-out bar must match number of stations. (E) Solenoid Release Function: Depends on series and type of function. (F) Lamps: not furnished with switches. If lamps are to be furnished specify: quantity and voltage. (G) Push-Buttons: For non-illuminated frames, we recommend "Glo-Buttons": Request No. 19A7113 Catalog for Data.

### SERIES 35000 NON-ILLUMINATED FRAMES

A SERIES 35000 NON-ILL Switch frames mount on panels up to ¼" thick, Permits 6 PDT switching in .6 sq. in, Narrow rectangular silhouette permits stacking in parallel rows on ¾" centers. Only 2<sup>h</sup>/<sub>4</sub>" depth behind panel. Square black push-button is furnished for each station and an extra red button is supplied for use when switch requires a release. The following part numbers cover basic frames only To complete assembly, order switch only. To complete assembly, order switch stacks for each station, solenoid releases, and snap-switch modules if required.

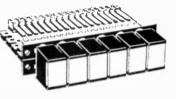
Ā



| Stock   | Switchcraft | No. of   | Prices Each |        | s Each |        |
|---------|-------------|----------|-------------|--------|--------|--------|
| No.     | Part No.    | Stations | 1-9         | 10-24  | 25-49  | 50-99  |
| 19A7118 | 35021       | 2        | \$6.60      | \$5.10 | \$4.68 | \$4.25 |
| 19A7119 | 35041       | 4        | 9.60        | 7.20   | 6.60   | 6.00   |
| 19A7120 | 35061       | 6        | 12.80       | 9.60   | 8.80   | 8.00   |
| 19A7121 | 35081       | 8        | 16.00       | 12.00  | 11.00  | 10,00  |
| 19A7122 | 35101       | 10       | 19.20       | 14.40  | 13.20  | 12.00  |
| 19A7123 | 35121       | 12       | 22.40       | 16.80  | 15.40  | 14.00  |

### SERIES 37000 SINGLE LAMP ILLUMINATED FRAMES

Identical in switching functions and char-acteristics as non-illuminated Series 35000, but feature large rectangular shaped push-buttons which serve as a color or legend coded panel indicator light which actuates up to 6 PDT switch-ing. Switch frames mount in parallel rows from 1" centers and up. Depth be-hind panel 2fe". Push-buttons with large transparent clear display screen and white legend insert, which can be hot stamped or engraved, are furnished for switching and release stations. A single 6 V. or 28 V. lamp can be used at each station. Use 327 or 328 lamp shown on page 121. Specify if you want button to light in "IN", "OUT" or "BOTH" positions. Interlock function listed below. Stock Switcheraft No. of Prices Each



| Stock   | Switchcraft | tchcraft No. of |        | Prices Each |             |        |  |
|---------|-------------|-----------------|--------|-------------|-------------|--------|--|
| No.     | Part No.    | Stations        | 1-9    | 10-24       | 25-49       | 50-99  |  |
| 19A7124 | 37021       | 2               | \$9.52 | \$7.14      | \$6.55      | \$5.95 |  |
| 19A7125 | 37041       | 4               | 15.44  | 11.58       | 10.62       | 9.65   |  |
| 19A7126 | 37061       | 6               | 21.36  | 16.02       | 14.69       | 13.35  |  |
| 19A7127 | 37081       | 8               | 27.68  | 20.76       | 19.03       | 17.30  |  |
| 19A7128 | 37101       | 10              | 33.60  | 25.20       | 23.10       | 21.00  |  |
| 19A7129 | 37121       | 12              | 39.52  | 29.64       | 27.17       | 24.70  |  |
|         | 0           |                 |        |             | <b>ET</b> - |        |  |

| C SWITCH STACKS                                         |        |
|---------------------------------------------------------|--------|
| 35000, 37000, 38000, Series 80P. Constructed with cross | -bar 🔍 |
| welded palladium contacts. Rated 3 amps, 300 watts m    |        |
| AC non-inductive load, *H-83P lamp circuit switch stack | for    |
| rear-of-frame wiring.                                   |        |

| Stock   | Switchcraft |           |          | Price   | s Each |        |
|---------|-------------|-----------|----------|---------|--------|--------|
| No.     | Part No.    | Circuits  | 1-9      | 10-24   | 25-49  | 50-99  |
| 19A7130 | 81P         | 1-A       | \$0.60   | \$0.45  | \$0.41 | \$0.38 |
| 19A7131 | 82P         | 1-B       | .60      | .45     | .41    | .38    |
| 19A7132 | 83P         | 1-C       | .80      | .60     | .55    | .50    |
| 19A7133 | 83PD        | 1-D       | 88       | .66     | .61    | .55    |
| 19A7134 | H-83P       | *         | 1.08     | .81     | .74    | .68    |
|         | (1          | SERIES NI | SOLENOID | RELEASE |        |        |

A simple solenoid assembly which can be added to the end of a standard Series 35000 or 37000 frame to provide electrical release of activated stations. For 115 VAC. NJ1 for use with up to 18 interlock stations; NJ3 will handle up to 12 alllock stations.

| Stock              | Switchcraft  |                | Price          | s Each         |                |
|--------------------|--------------|----------------|----------------|----------------|----------------|
| No.                | Part No.     | 1-9            | 10-24          | 25-49          | 50-99          |
| 1987141<br>1987142 | NJ-1<br>NJ-3 | \$8.00<br>8.00 | \$6.00<br>6.00 | \$5.50<br>5.50 | \$5.00<br>5.00 |

### 65000 DW "MULTI-SWITCH"

| Series 6500<br>depth behi | W SERIES<br>00 switches req<br>ind mounting p<br>tht is 制化. Push      | anel. Overa                   | n<br>H Jalan     | de las das      | sizis sizis r  | ich sich             |
|---------------------------|-----------------------------------------------------------------------|-------------------------------|------------------|-----------------|----------------|----------------------|
| ors are on<br>C, 0.5 an   | 5%" centers. R<br>5%" Centers. R<br>nps DC, 125 V.<br>ng capacity per | atings: 3 amp<br>non-inductiv | os <b>sine a</b> |                 |                |                      |
| Stock<br>No.              | Switchcraft<br>Part No.                                               | No. of<br>Stations            | 1-9              | Prices<br>10-24 | Each<br>25-49  | 50-99                |
| 1947135<br>1947136        | 65021K-206<br>65041K-206                                              | 2 4                           | \$2.24<br>4.00   | \$1.68<br>3.00  | \$1.54<br>2.75 | \$1.40<br>2.50       |
| 9A7137<br>9A7138          | 65061K-206<br>65081K-206                                              | 6                             | 5.76<br>7.52     | 4.32<br>5.64    | 3.96<br>5.17   | 3.60<br>4.70<br>5.78 |
| 1947139<br>1947140        | 65101K-206<br>65121K-206                                              | 10<br>12                      | 9.24<br>11.00    | 6.93<br>8.25    | 6.35<br>7.56   | 6.88                 |

SWITCHCRAFT LEV-R SWITCHES Compact lever-action switches. Silver contacts rated at 3 amps AC, non-inductive load. Length 214'' behind panel, width 56''. Require 1/2'' mtg. hole.  $\pm N.0$ . center resultion of the state of position off. TWO DOCITION TYPE

|                                                     |                                                     |                                       | 140 60211                                   | IUN ITPES                             |                                        |                                        |                                        |                                        |
|-----------------------------------------------------|-----------------------------------------------------|---------------------------------------|---------------------------------------------|---------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Stock I<br>Spring<br>Return                         | tumbers<br>Locking<br>Type                          | Mfg.<br>No.                           | Action                                      | Schematic<br>Circuit<br>Pos. 1 Pos. 2 | 1.24                                   | Price<br>25-49                         | s Each<br>50-99                        | 100-249                                |
| 19A7167<br>19A7168<br>19A7169<br>19A7171<br>19A7223 | 19A7175<br>19A7176<br>19A7177<br>19A7179<br>19A7224 | 3001<br>3003<br>3004<br>3006<br>3006D | SPST-NO<br>SPDT<br>DPST-NO<br>DPDT<br>SPDT  | 1-A<br>1-C<br>2-A<br>2-C<br>ID        | \$1.35<br>1.62<br>1.77<br>1.95<br>2.10 | \$1.24<br>1.49<br>1.62<br>1.79<br>1.93 | \$1.13<br>1.35<br>1.48<br>1.63<br>1.75 | \$0.90<br>1.08<br>1.18<br>1,30<br>1,40 |
|                                                     |                                                     |                                       | THREE POS                                   | TION TYPES                            |                                        |                                        |                                        |                                        |
| 19A7172<br>19A7173<br>19A7174                       | 19A7180<br>19A7181<br>19A7182                       | 3033<br>3036<br>3037                  | SPDT-NO<br>SPDT Ea. Sec.<br>SPDT-NO Ea. Sec | 1-C†<br>1-C 1-C<br>c. 1-C† 1-C        | 1.77<br>2.04<br>† 2.10                 | 1.62<br>1.87<br>1.93                   | 1.48<br>1.70<br>1.75                   | 1.18<br>1.36<br>1.40                   |

Request FREE No. 19A7113 Switchcraft Catalog for Complete Detailed Multi-Switch Data

# ALLORY AND CENTRALAB SWITCHES



### MALLORY SWITCHES

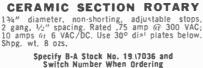
SINGLE GANG ROTARY 3100J & 3200J SERIES Compact switches having wide application for use in all electronic equipment. Rating 500 V. breakdown; max. cur-rent .2 amp 300 VOC; 5 amp  $(a \in VOC; .25 amp (a) 300$  $VAC; 6 amp (a) 6 VAC. <math>\frac{1}{4}$ " round shaft, 2" long,  $\frac{3}{6}$ " dia. x  $\frac{3}{6}$ " long brass threaded bushing with bar knob and mtg. hardware. All 30° index except " which are 20°. Shpg. wt. 4 ozs. See Plates below.

Specify B-A Stock No. 19A7035 and Switch No. when Ordering. NON-SHORTING --- BREAK BEFORE MAKE

| Mfg.<br>No. | Poles  | Posi-<br>tions | Base<br>Dia. | 1-4      | 5-9      | Price<br>10-24 | 25-49  | 50.99  | 100-499 |
|-------------|--------|----------------|--------------|----------|----------|----------------|--------|--------|---------|
| 3215J       | 1      | 5              | 11/4"        | \$1.13   | \$0.94   | \$0.86         | \$0.81 | \$0.76 | \$0.68  |
| 32112J      | 1      | 12             | 11/4"        | 1.13     | .94      | .86            | .81    | .76    | .68     |
| 3222J       | 2      | 2<br>3         | 11/4"        | 1.13     | .94      | .86            | .81    | .76    | .68     |
| 3223J       | 2      | 3              | 11/4″        | 1.13     | .94      | .86            | .81    | .76    | .68     |
| 3226J       | 2<br>3 | 6              | 11/4"        | 1.13     | .94      | .86            | .81    | .76    | .68     |
| 3234J       | 3      | 4              | 11/4"        | 1.17     | .98      | .88            | .83    | .78    | .70     |
| 3242        | 4      | 2              | 11/4"        | 1.17     | .98      | .88            | .83    | .78    | .70     |
| 3243J       | 4      | 3              | 11/4"        | 1.17     | .98      | .88            | .83    | .78    | .70     |
| 32117J      | 1      | 17*            | 11%          | 1.73     | 1.45     | 1.30           | 1.23   | 1.16   | 1.04    |
| 3229J       | 2      | 9*             | 11%"         | 1.73     | 1.45     | 1.30           | 1.23   | 1.16   | 1.04    |
| 3236J       | 3      | 6*             | 11%"         | 1.83     | 1.53     | 1.38           | 1.31   | 1.22   | 1.10    |
| 3263J       | 6      | 3*             | 11%6"        | 1.83     | 1.53     | 1.38           | 1.31   | 1.22   | 1.10    |
|             |        |                | SHOR         | ring — M | IAKE BEF | DRE BRE        | AK     |        |         |
| 3115J       | 1      | 5              | 11/4"        | \$1.13   | \$0.94   | \$0.86         | \$0.81 | \$0.76 | \$0.68  |
| 31112J      | 1      | 12             | 11/4″        | 1.13     | / .94    | .86            | .81    | .76    | .68     |
| 3123J       | 2      | 3              | 11/4"        | 1.13     | .94      | .86            | .81    | .76    | .68     |
| 3126J       | 2      | 6              | 11/4"        | 1.13     | .94      | .86            | .81    | .76    | .68     |
| 3143J       | 4      | 3              | 11/4"        | 1.17     | .98      | .88            | .83    | .78    | .70     |
| 31117J      | 1      | 17*            | 111/16/1     | 1.73     | 1.45     | 1.30           | 1.23   | 1.16   | 1.04    |
| 3163J       | 6      | 3*             | 111/1/1      | 1.83     | 1.53     | 1.38           | 1.31   | 1.22   | 1.10    |

\*Have adjustable stops to prevent turning to unused contacts.





|       |      |      | Posi- |        |        | Price  | es Each |        |         |
|-------|------|------|-------|--------|--------|--------|---------|--------|---------|
| Туре  | Gang | Pole | tions | 1-4    | 5-9    | 10-24  | 25-49   | 50-99  | 100-499 |
| 172C  | 1    | 1    | 10    | \$2.64 | \$2.20 | \$1.98 | \$1.88  | \$1.75 | \$1.58  |
| 1730* | 1    | 2    | 5     | 2.64   | 2.20   | 1.98   | 1.88    | 1.75   | 1.58    |
| 1740* | 1    | 3    | 3     | 2.64   | 2.20   | 1.98   | 1.88    | 1.75   | 1.58    |
| 176C  | 2    | 2    | 10    | 3,77   | 3.15   | 2.82   | 2.69    | 2.51   | 2.26    |
| 177C* | 2    | 4    | 5     | 3.77   | 3.15   | 2.82   | 2.69    | 2.51   | 2.26    |
| 178C* | 2    | 6    | 3     | 3.77   | 3.15   | 2.82   | 2.69    | 2.51   | 2.26    |
| 180C* | 3    | 3    | 10    | 4.80   | 4.00   | 3.60   | 3.42    | 3.20   | 2.88    |
| 1810* | 3    | 6    | 5     | 4.80   | 4.00   | 3.60   | 3.42    | 3.20   | 2.88    |

\*Plus off position.

### SWITCH DIAL PLATES

Aluminum figures etched on black background,  $1^{1}\!\!\mathcal{H}_{a}''$  0.0. with  $\mathcal{H}_{a}$  hole. For switches with 30° indexing except those marked \* whic are for switches with 20° indexing. Shpg. wt. 2 ozs. which

Specify B-A Stock No. 19A7037 and Type When Ordering.

| Туре              | Marked                     | Туре                     | Marked                                | Type                     | Marked                                            | Type              | Marked                                                | Туре                 | Marked                      |
|-------------------|----------------------------|--------------------------|---------------------------------------|--------------------------|---------------------------------------------------|-------------------|-------------------------------------------------------|----------------------|-----------------------------|
| 372<br>373<br>374 | 1 to 2<br>1 to 3<br>1 to 4 | 377<br>378<br>379<br>380 | 1 to 7<br>1 to 8<br>1 to 9<br>1 to 10 | 382<br>383<br>384<br>385 | 1 to 12<br>Off 1 to 3<br>Off 1 to 4<br>Off 1 to 5 | 387<br>388<br>389 | Off 1 to 7<br>Off 1 to 8<br>Off 1 to 9<br>Off 1 to 10 | 456°<br>459°<br>467° | 1 to 6<br>1 to 9<br>1 to 17 |
| 375<br>376        | 1 to 5<br>1 to 6           | 381                      | 1 to 11                               | 385                      | Off 1 to 6                                        | 453*              | 1 to 3                                                | Choice               | Each 12c                    |



Non-locking for test panels, etc. Silver contacts on alloy springs. Rated 0.4 amp at 300 VDC and 220 VAC; 4 amps, 6 VDC. Bushing  $\frac{3}{2}$ "  $\cdot$  32 x  $\frac{3}{2}$ " long. Integral phenolic knob. With nut and washer.

### Specify B-A Stock No. 19A7097 and Switch No. When Ordering.

|      | abceril | D'A Stook |         | 31 8119 9111 |           | or o | •           |
|------|---------|-----------|---------|--------------|-----------|------------------------------------------|-------------|
| Гуре | Action  | 1-4 Ea.   | 5-9 Ea. | 10-24 Ea.    | 25-49 Ea. | 50-99 Ea.                                | 100-499 Ea. |
| 1011 | SPST-NO | \$0.77    | \$0.65  | \$0.58       | \$0.55    | \$0.51                                   | \$0.46      |
| 1012 | SPST-NC | .77       | .65     | .58          | .55       | .51                                      | .46         |
| 1013 | SPDT    | .87       | .76     | .66          | .62       | .58                                      | .52         |
| 1014 | DPST-NO | .97       | .81     | .72          | .69       | .64                                      | .58         |
| 1015 | DPST-NC | .97       | .81     | .72          | .69       | .64                                      | .58         |
| 1016 | DPDT    | 1.17      | .98     | .88          | .83       | .78                                      | .70         |

### **CENTRALAB UNIVERSAL PHENOLIC SWITCHES**

Rating 1.75A @ 24 VDC, 230 milliamps @ 115 VAC. Bush-ing 3/s'' - 32 thread, 3/s'' long. With hardware, Shpg. wt. ing 3⁄4 6 ozs. Specify B-A Stk. No. 19A7100 and Switch No. When Ordering.

1460: 1 pole, 2 position, shorting. Positive index.
1461: 1 pole, 3 position, shorting. Positive index.
1462: 2 pole, 2 position, shorting. Positive index.
1463: 1 pole, 2 position, non-shorting, spring return index.
1464: 2 pole, 2 position, non-shorting. Spring return index. Your Choice





No. 19A7101. 1450 Positive index. 1-4 Each....\$1.74 5-9 Ea....\$1.38 10-24 Ea....\$1.25 25-49 Ea.....\$1.19 50-99 Ea....\$1.11 100-499....99c No. 19A7102, 1451 Spring return. 1-4 Each...\$2.52 5-9 Ea....\$2.10 10-24 Ea....\$1.89 25-49 Ea....\$1.80 50-99 Ea....\$1.68 100-499....\$1.51

### **CENTRALAB SWITCHES**

**PSA SUBMINIATURE ROTARY SWITCHES** 

Adjustable stops for extra switching arrangement versa-tility. Positive  $30^\circ$  index,  $\%_2''$  spacing between front plate and first section,  $\%_2''$  spacing between sections. Dially! Phthalate insulation.  $\%_2 32$  bushing %'' long. 1/4''round shaft.

Resistive load .550 amperes at 28 volts VDC, 170 MA at 115 VAC. Weight less than 1 ounce. Specify BA Stock No. 19A7226 and Switch No. When Ordering.

| Shorting | Non-Shorting | Sec-  |       | Posi- |        | Prices Each |        |        |        |         |
|----------|--------------|-------|-------|-------|--------|-------------|--------|--------|--------|---------|
| Number   | Number       | tions | Poles | tions | 1-4    | 5-9         | 10-24  | 25-49  | 50-99  | 100-249 |
| 200      | 201          | 1     | 1     | 2-12  | \$4.80 | \$4.00      | \$3.60 | \$3.42 | \$3.20 | \$2.88  |
| 202      | 203          | 1     | 2     | 2-6   | 4.80   | 4.00        | 3.60   | 3.42   | 3.20   | 2.88    |
| 204      | 205          | 2     | 1     | 2-12  | 6,00   | 5.00        | 4.50   | 4.28   | 4.00   | 3.60    |
| 206      | 207          | 1     | 3     | 2-5   | 4.80   | 4.00        | 3.60   | 3.42   | 3.20   | 2.88    |
| 208      | 209          | 3     | 1     | 2-12  | 7.20   | 6.00        | 5.40   | 5.13   | 4.80   | 4.32    |
| 210      | 211          | 2     | 2     | 2-6   | 6.00   | 5.00        | 4.50   | 4.28   | 4.00   | 3.60    |
| 214      | 215          | 1     | 5     | 2.3   | 4.80   | 4.00        | 3.60   | 3.42   | 3.20   | 2.88    |
| 220      | 221          | 2     | 3     | 2.5   | 6.00   | 5.00        | 4.50   | 4.28   | 4.00   | 3,60    |
| 222      | 223          | 3     | 2     | 2.6   | 7.20   | 6.00        | 5.40   | 5.13   | 4.80   | 4.32    |
| 228      | 229          | 3     | 3     | 2-5   | 7.20   | 6.00        | 5.40   | 5.13   | 4.80   | 4.32    |

### MINIATURE STEATITE PA2000 SERIES ROTARY

Spe

Small and compact. Silver plated spring brass clips and contacts; adjustable stop or continuous rotation: 30° in-dexing; 4/2" spacing between sections; 1/4" round shaft, 1/5'' long. Includes 1/4" bar knob and mounting hardware. All are non-shorting (break before make), except ° which indicates "shorting" types. Rated 2.75 amp at 15 VDC; 230 milliamps at 115 VAC. Use 30° dial plates shown in left column. Avg. shog. wt. 6 ozs.

| ecify B | -A | Stock | No. | 19A7098 | and | Switch | No. | When | Ordering |
|---------|----|-------|-----|---------|-----|--------|-----|------|----------|
|---------|----|-------|-----|---------|-----|--------|-----|------|----------|

| Tune  | C                | Dala                       | Posi-<br>tions | 1-4    | 5.9    | Price<br>10-24 | s Each<br>25-49 | 50-99  | 100-249 |
|-------|------------------|----------------------------|----------------|--------|--------|----------------|-----------------|--------|---------|
| Туре  | Gang             | Pole                       |                |        |        |                |                 |        |         |
| 2000° | 1                | 1                          | 12             | \$2.76 | \$2.30 | \$2.07         | \$1.97          | \$1.84 | \$1.65  |
| 2001  | 1                | 1                          | 12             | 2.76   | 2.30   | 2.07           | 1.97            | 1.84   | 1.65    |
| 2002* | 1                | 2                          | 6<br>6         | 2.76   | 2.30   | 2.07           | 1.97            | 1.84   | 1.65    |
| 2003  | 1                | 2                          |                | 2.76   | 2.30   | 2.07           | 1.97            | 1.84   | 1.65    |
| 2004* | 22               | 2<br>2<br>3<br>3<br>3<br>3 | 12             | 3.90   | 3.25   | 2.93           | 2.79            | 2.60   | 2.33    |
| 2005  | 2                | 2                          | 12             | 3.90   | 3.25   | 2.93           | 2.79            | 2.60   | 2.33    |
| 2006* | 1                | 3                          | 5<br>5         | 2.76   | 2.30   | 2.07           | 1.97            | 1.84   | 1.65    |
| 2007  | 1                | 3                          |                | 2.76   | 2.30   | 2.07           | 1.97            | 1.84   | 1.65    |
| 2008* | 3                | 3                          | 12             | 4.98   | 4.15   | 3.74           | 3.56            | 3.32   | 2.98    |
| 2009  | 3                | 3                          | 12             | 4.98   | 4.15   | 3.74           | 3.56            | 3.32   | 2.98    |
| 2010* | 3<br>3<br>2<br>2 | 4                          | 6              | 3.90   | 3.25   | 2.93           | 2.79            | 2.60   | 2.33    |
| 2011  |                  | 4                          | 6              | 3.90   | 3.25   | 2.93           | 2.79            | 2.60   | 2.33    |
| 2013  | 4                | 4                          | 12             | 5.98   | 4.98   | 4.49           | 4.28            | 3.99   | 3.58    |
| 2015  | 1                | 5                          | 3              | 2.76   | 2.30   | 2.07           | 1.97            | 1.84   | 1.65    |
| 2017  | 5                | 5                          | 12             | 7.16   | 5.97   | 5.37           | 5.12            | 4.78   | 4.29    |
| 2019  | 1<br>2<br>3      | 6                          | 2<br>5<br>6    | 2.76   | 2.30   | 2.07           | 1.97            | 1.84   | 1.65    |
| 2021  | 2                | 6                          | 5              | 3,90   | 3.25   | 2.93           | 2.79            | 2.60   | 2.33    |
| 2023  | 3                | 6                          |                | 4.98   | 4.15   | 3.74           | 3.56            | 3.32   | 2.98    |
| 2025  | 6                | 6<br>8                     | 12             | 8.32   | 6.94   | 6.24           | 5.95            | 5.55   | 4.98    |
| 2027  | 4                | 8                          | 6<br>5<br>3    | 5.98   | 4.98   | 4.49           | 4.28            | 3.99   | 3.58    |
| 2029  | 3                | 9                          | 5              | 4.98   | 4.15   | 3.74           | 3.56            | 3.32   | 2.98    |
| 2031  | 2                | 10                         |                | 3.90   | 3.25   | 2.93           | 2.79            | 2.60   | 2.33    |
| 2033  | 5<br>2           | 10                         | 6<br>2         | 7.16   | 5.97   | 5.37           | 5.12            | 4.78   | 4.29    |
| 2035  | 2                | 12                         | 2              | 3.90   | 3.25   | 2.93           | 2.79            | 2.60   | 2.33    |
| 2037  | 6<br>3           | 12                         | 6              | 8.32   | 6.94   | 6.24           | 5.95            | 5.55   | 4.98    |
| 2039  | 3                | 15                         | 6<br>3         | 5.64   | 4.70   | 4.23           | 4.03            | 3.76   | 3.36    |
| 2041  | 3                | 18                         | 2              | 5.64   | 4.70   | 4.23           | 4.03            | 3.76   | 3.38    |
| +2042 | 1                | 1                          | 10             | 2.50   | 2.08   | 1.88           | 1.79            | 1.67   | 1,50    |

+2042 has 9 active contacts, all open in full CCW position and progressively picked up and shorted to common contact with CW rotation.

### MINIATURE PHENOLIC PA100 ROTARY

Same specifications as PA2000 above, except sections are Phenolic. Use 30° dial plates listed at left. All are non-shorting type.

| C       | DA  | Charle | M.  | 19A7099 | o m d | Carling to a | M-  | When  | Andorian  |
|---------|-----|--------|-----|---------|-------|--------------|-----|-------|-----------|
| SDECITY | D'A | SIDCR  | MO. | 194/099 | anu   | SWITCH       | MO. | WIICH | UTUEITINE |

|      | Sheeri | <b>у D</b> -м ( | STOCK NO       | . 134/03 | 13 9110 91 | encon nu.      | MILCH OF         | weiting. |        |
|------|--------|-----------------|----------------|----------|------------|----------------|------------------|----------|--------|
| Туре | Gang   | Pole            | Posi-<br>tions | 1-4      | 5-9        | Price<br>10-24 | es Each<br>25-49 | 50-99    | 100-24 |
|      | uang   | T UIC           |                |          |            |                |                  |          |        |
| 1001 | 1      | 1               | 11             | \$2.08   | \$1.73     | \$1.56         | \$1.49           | \$1.39   | \$1.24 |
| 1003 | 1      | 2               | 5              | 2.08     | 1.73       | 1.56           | 1.49             | 1.39     | 1.24   |
| 1005 | 2      | 2               | 11             | 2.96     | 2.47       | 2.22           | 2.12             | 1.97     | 1.77   |
| 1007 | ī      | 3               | 3              | 2.08     | 1.73       | 1.56           | 1.49             | 1.39     | 1.24   |
| 1009 | 3      | 3               | - <u>1</u> 1   | 3.76     | 3.13       | 2.82           | 2.69             | 2.51     | 2.25   |
| 1011 | ĭ      | ă.              | 2              | 2.08     | 1.73       | 1.56           | 1.49             | 1.39     | 1.24   |
| 1013 | 2      | 4               | 5              | 2.96     | 2.47       | 2.22           | 2.12             | 1.97     | 1.77   |
| 1019 | 5      | 6               | ă              | 2.96     | 2.47       | 2.22           | 2.12             | 1.97     | 1.77   |
| 1021 | ā      | 6               | 5              | 3.76     | 3.13       | 2.82           | 2.69             | 2.51     | 2.25   |
| 1025 | ž      | 8               | ž              | 2.96     | 2.47       | 2.22           | 2.12             | 1.97     | 1.77   |
| 1029 | 3      | 12              | 2              | 3.76     | 3.13       | 2.82           | 2.69             | 2.51     | 2.25   |

### LEVER ACTION PHENOLIC SWITCHES



Space saving lever switches have many uses. Particularly adaptable to intercoms, PA systems, test instruments, broadcast, antenna interchange, speaker selection, etc. Two 6-32 thread mounting holes on 1% $\sigma''$  centers in switch front plate. Rating 1 $4_2$  and  $\sigma''$  28 VDC; 230 milliamps at 115 VAC (make and break, resistive load). 30° indexing. All non-shorting except t which is shorting. Complete with screws and black knob. Avg. shpg. wt. 4 ozs. Q.P.R

Specify B-A Stock No. 19A7103 and Switch No. When Ordering.

| Mfg.  |        | Posi-   |                       |        |         | Price  | s Each  |        |         |
|-------|--------|---------|-----------------------|--------|---------|--------|---------|--------|---------|
| No.   | Poles  | tion    | Indexing              | 1-4    | 5-9     | 10-24  | 25-49   | 50-99  | 100-249 |
| 1452† | 2      | 3       | Positive              | \$1.60 | \$1.33  | \$1.20 | \$1.14  | \$1.07 | \$0.96  |
| 1454  | 2      | 3       | Positive              | 1.60   | 1.33    | 1.20   | 1.14    | 1.07   | .96     |
| 1455  | 2      | 3       | Spring Return         | 1.60   | 1.33    | 1.20   | 1.14    | 1.07   | .96     |
| 1467  | 2      | 3       | Posit. & Sp. Return   | 1,60   | 1.33    | 1.20   | 1.14    | 1.07   | .96     |
| 1457  | 4      | 2       | Spring Return         | 1.78   | 1.48    | 1.34   | 1.27    | 1.19   | 1.07    |
| 1458  | 4      | 2       | Positive              | 1.78   | 1.48    | 1.34   | 1.27    | 1.19   | 1.07    |
| 1475* | 1      | 3       | Positive              | 1.60   | 1.33    | 1.20   | 1.14    | 1.07   | .96     |
|       | Primar | ily rep | lacement part for the | gange  | d switc | hes in | tube te | sters, | etc.    |

Ask For Quotation on Bulk Packed Centralab Switches.

Carling ARROW-HART

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| CARL<br>Togo<br>Switc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| '‰″ bat ha<br>*has wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Has<br>th 34".<br>X <sub>4</sub> " W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Standa<br>switches<br>Radio. 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SPDT<br>DPST<br>DPDT<br>SIDE<br>SCER OF<br>a small<br>de x 13<br>) long, 1<br>tg, ctr.                                                                                                                                              | 1 x25<br>14/2x13<br>14/2x25<br>SWIT<br>SLIDE SV<br>size is i<br>%a" long<br>15%a" mtg.<br>Average                                                                                                                                                                  | <ul> <li>.35</li> <li>.4" .42</li> <li>.53</li> <li>CHES</li> <li>WITCHES</li> <li>needed. C</li> <li>with 11/8</li> <li>. ctr.; Typ</li> <li>shpg. wt.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Ty<br>Type "B", "<br>wide x 1.83<br>are positive                                                                                                                                                                                     | 44c<br>34c<br>30c<br><b>KPOI</b><br>S LARGES<br>es for us<br>pe ''A'',<br>'%2'' wide<br>90'' long,<br>action e<br>No Deten<br>Amps @                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19A7020<br>19A7021<br>19A7022<br>LE SL<br>57 PRODU<br>te where<br>$\frac{13_{27}}{2}$ wite<br>x 1.890<br>15% mix.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SPDT<br>DPST<br>DPDT<br>SIDE<br>SCER OF<br>a small<br>de x 13<br>) long, 1<br>tg, ctr.                                                                                                                                              | 1 x25<br>14/2x13<br>14/2x25<br>SWIT<br>SLIDE SV<br>size is i<br>Va" long<br>156" mtg<br>Average :<br>rked. UL<br>Prices                                                                                                                                            | 6" .35<br>4" .42<br>6" .53<br>CHES<br>WITCHES<br>needed. C<br>with 1½<br>ctr.; Typ<br>shpg. wt.<br>and CSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 25-49 Each<br>50-99 Each<br>500 Up Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 18. 1-24 Ea<br>                                      | STAC<br>WORLD'S<br>cost switcher<br>r plated. Ty<br>Type "B".<br>wide x 1.8%<br>are positive<br>ing-Return, f                                                                                                                                                                             | 44c<br>34c<br>30c<br><b>KPOI</b><br>S LARGES<br>es for us<br>pe ''A'',<br>'%2'' wide<br>90'' long,<br>action e<br>No Deten<br>Amps @                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19A7020<br>19A7021<br>19A7022<br>LE SL<br>T PRODU<br>te where<br>12/32" win<br>t. x 1.890<br>15/9" m<br>txcept wh<br>tt.<br>0 125 V.<br>DC<br>1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SPDT<br>DPST<br>DPDT<br>.IDE<br>ICER OF<br>a small<br>de x 13<br>) long, 1<br>tg, ctr.<br>here man<br>1-9<br>\$0.28<br>.29                                                                                                          | 1 x25<br>14/2x13<br>14/2x25<br>SWIT<br>SLIDE SV<br>size is 1<br>%a" long<br>15/a" mtg<br>Average :<br>rked. UL<br>Prices<br>10-99 1<br>\$0.22<br>.23                                                                                                               | 4" .35<br>4" .42<br>6" .53<br>CHES<br>NITCHES<br>reeded. C<br>with 1½<br>ctr.; Typ<br>shpg. wt.<br>and CSA<br>Each<br>00-499<br>\$0.143<br>.145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 25-49 Each<br>50-99 Each<br>500 Up Ea<br>Stock<br>No.<br>19A7046<br>19A7048                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 18. 1-24 Ea<br>                                      | STAC<br>WORLD'S<br>cost switcher<br>r plated. Ty<br>Type "B",<br>wide x 1.8%<br>are positive<br>ing.Return, 1<br>Type Action<br>A SPST<br>A SPDT<br>A SPDT<br>A SPDT                                                                                                                      | 44c<br>34c<br>34c<br>30c<br><b>CKPOL</b><br><b>SLARGES</b><br><b>SLARGES</b><br>Stor us<br>pe ''A'',<br>2''' widd<br>90'' long,<br>action e<br>No Deten<br><b>Amps @</b><br>4<br>4<br>4<br>3<br>3<br>6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19A7020<br>19A7022<br>19A7022<br>LE SL<br>T PRODU<br>e where<br>e where<br>e where<br>i x32" wi<br>e x 1.890<br>15%" m<br>xccept wh<br>t.<br>DC<br>DC<br>1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SPDT<br>DPST<br>DPDT<br>IDE<br>ICER OF<br>a small<br>de x 13<br>) long, 1<br>tg. ctr.<br>tere mai<br>tg. ctr.<br>1-9<br>\$0.28<br>.29<br>.30                                                                                        | 1 x25<br>14/2x13<br>11/2x25<br>SWIT<br>SLIDE SI<br>size is r<br>%r' long<br>15%r' mtg.<br>Average :<br>rked. UL<br>Prices<br>10-99 1<br>\$0.22<br>.23<br>.24                                                                                                       | '6''         .35           '4''         .42           '6''         .53           CHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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\$0.27<br>.31<br>.38<br>.48<br>.48<br>.48<br>.48<br>.48<br>.500-999<br>\$0.093<br>.095<br>.109<br>.110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 55-49 Each<br>10-99 Each<br>100 Up | 18. 1-24 Ea<br>                                      | STAC<br>WORLD'S<br>cost switcher<br>r plated. Ty<br>Type "B"."<br>wide x 1.83<br>are positive<br>ing-Return, f<br>Type Action<br>A SPST<br>A DPDT<br>A SPDT<br>B DPDT<br>A SPDT<br>A SPDT                                                                                                 | 44c<br>34c<br>30c<br><b>KPOL</b><br><b>S LARGES</b><br><b>S for us</b><br><i>s</i> for us<br><i>s</i> for <i>s s s s s s s s s s</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19A7020<br>19A7021<br>19A7022<br>19A7022<br>LE SL<br>F PRODU<br>is where<br>v v where<br>v v where<br>v v where<br>v v where<br>v v where<br>v v v v v<br>v v v v v v v<br>v v v v v v v                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SPDT<br>DPST<br>DPDT<br><b>IDE</b><br>ICER OF<br>a small<br>de x 13<br>) long, 1<br>tg. ctr.<br>tg. ctr.<br>tere mai<br>1-9<br>\$0.28<br>.29<br>.30<br>.30<br>.30<br>.31                                                            | 1 x25<br>14/2x13<br>13/2x25<br><b>SWIT</b><br><b>SUDE SI</b><br>Size is -<br>the" long<br>15/a" mtg.<br>Average -<br>rked. UL<br><b>Prices</b><br>10-99 1<br><b>\$0.22</b><br>.23<br>.24<br>.24<br>.31<br>.25                                                      | 4" .35<br>4" .42<br>4" .53<br>CHES<br>CHES<br>WITCHES<br>teach<br>ctr.; Tyr<br>shop. wt.<br>and CSA<br>Each<br>00-499<br>\$0.143<br>.145<br>.150<br>.212<br>.187                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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\$0.27<br>.31<br>.38<br>.48<br>.48<br>.48<br>.48<br>.48<br>.48<br>.48<br>.48<br>.58<br>.48<br>.500.999<br>.109<br>.109<br>.109<br>.110<br>.162<br>.137                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 25-49 Each<br>50-99 Each<br>500 Up | 18. 1-24 Ea<br>                                      | STAC<br>WORLD'S<br>cost switche<br>r plated. Ty<br>wide x 1.89<br>are positive<br>ing.Return, f<br>rype Action<br>A SPST<br>A SPDT<br>A SPDT<br>A SPDT<br>B DPDT                                                                                                                          | Arr Adc<br>Adc<br>Adc<br>Adc<br>Adc<br>Adc<br>Adc<br>Adc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 19A7020<br>19A7021<br>19A7022<br>LE SL<br>T PRODU<br>te where<br>1%2" with<br>2 X 1.890<br>1%4" m<br>xxcept whit.<br>1.0<br>1.0<br>0.5<br>1.0<br>0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SPDT<br>DPST<br>DPDT<br>.IDE<br>ICER OF<br>a smail<br>de x 13<br>long, 1<br>tg, ctr.<br>lere mail<br>1-9<br>.29<br>.30<br>.30<br>.30<br>.39                                                                                         | 1 x25<br>14/2x13<br>14/2x25<br>SWIT<br>SLIDE SI<br>SiZe is v<br>15%" ing<br>15%" mtg.<br>Average<br>rked. UL<br>Prices<br>10-99 1<br>\$0.22<br>.23<br>.24<br>.24<br>.31                                                                                            | 4/2, 35<br>4/4, 42<br>4/4, | \$0.27<br>.31<br>.38<br>.48<br>.48<br>.48<br>.48<br>.48<br>.48<br>.48<br>.48<br>.48<br>.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 25-49 Each<br>50-99 Each<br>500 Up Each<br>500 Up Each<br>500 Up Each<br>500 Up Each<br>500 Up Each<br>500 Up Each<br>1947045<br>1947054<br>1947055<br>1947055<br>1947055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 18. 1-24 Ea<br>                                      | STAC<br>WORLD'S<br>cost switcher<br>r plated. Ty<br>wide x 1.8%<br>are positive<br>ing-Return, f<br>(ype Action<br>A SPST<br>A SPDT<br>A SPDT<br>B DPDT<br>B DPDT<br>B DPDT                                                                                                               | 44c<br>34c<br>30c<br><b>CKPOL</b><br><b>StarGES</b><br>storus<br>pe ''A'',<br>''2', ''vid<br>storus<br>vo Deten<br>Amps (2<br>Ac<br>4<br>4<br>4<br>4<br>4<br>5<br>6<br>6<br>6<br>6<br>6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19A7020<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7072<br>19A7072<br>19A707<br>19A707<br>154707<br>100<br>1.0<br>1.0<br>1.0<br>0.5<br>1.0<br>0.5<br>1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SPDT<br>DPST<br>DPDT<br>.IDE<br>ICER OF<br>a small<br>de x 13<br>) long, 1<br>tg, ctr.<br>.ere mat<br>\$0.28<br>.30<br>.30<br>.30<br>.30<br>.31<br>.44<br>.60                                                                       | 1 x25<br>14/2x13<br>14/2x25<br><b>SWIT</b><br><b>SLIDE SI</b><br>size is r<br>4/2" long<br>15/3" mtg.<br>Average<br>rked. UL<br><b>Prices</b><br>10-99 1<br><b>\$0.22</b><br>.23<br>.24<br>.24<br>.24<br>.31<br>.48                                                | 4, 35<br>4, 42<br>4,                                                                                                                                                                                    | \$0.27<br>.31<br>.38<br>.48<br>ontacts<br>" mtg.<br>pe "C"<br>3 ozs.<br>listed.<br>500-999<br>\$0.093<br>.095<br>.109<br>.110<br>.162<br>.137<br>.188<br>.297                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5:49 Each<br>0:99 Each<br>0:00 Up                       | 16. 1-24 Ea<br>                                      | STAC<br>WORLD'S<br>cost switcher<br>r plated. Ty<br>Type "B"."<br>wide x 1.83<br>are positive<br>ing.Return, f<br>Type Action<br>A SPST<br>A SPDT<br>B DPDT<br>A SPDT<br>C 4PDT                                                                                                           | Amps 6<br>6<br>6<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19A7020<br>19A7021<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100 | SPDT<br>DPST<br>DPDT<br>IDE<br>ICER 0F<br>a small<br>de x 13<br>b long, 1<br>tg. ctr.<br>tg. ctr.<br>1-9<br>\$0.28<br>.29<br>.30<br>.30<br>.39<br>.31<br>.44<br>.60                                                                 | 1 x25<br>14/2x13<br>14/2x25<br>SWIT<br>SLIDE SI<br>SiZe is r<br>Ke" long<br>5%" mtg<br>Average<br>rked. UL<br>Prices<br>10-99 1<br>\$0.22<br>.23<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24                                             | 4" .35<br>4" .35<br>4" .53<br>CHES<br>WITCHES<br>needed. C<br>with 1 <sup>1</sup> / <sub>4</sub><br>.ctr.; Typ<br>shpg. wt.<br>and CSA<br>Each<br>00-499 !<br>\$0.143<br>.145<br>.159<br>.160<br>.212<br>.187<br>.347<br>FCHES<br>" high, 4<br>.115<br>rothes, 115<br>rothes, 115<br>rot                                                                                                                                                                                                             | \$0.27<br>.31<br>.38<br>.38<br>.48<br>ontacts<br>"mtg:<br>pe "C"<br>3 ozs.<br>listed.<br>500-999<br>\$0.095<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 25-49 Each<br>50-99 Each<br>500 Up Each<br>500 Up Each<br>500 Up Each<br>500 Up Each<br>500 Up Each<br>500 Up Each<br>1947045<br>1947054<br>1947055<br>1947055<br>1947055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 16. 1-24 Ea<br>                                      | STAC<br>WORLD'S<br>cost switcher<br>r plated. Ty<br>Type "B".<br>wide x 1.8%<br>are positive<br>ing-Return, f<br>Gype Action<br>A SPST<br>A SPDT<br>A SPDT<br>A SPDT<br>B DPDT<br>C 4PDT<br>HART S<br>1/4 x 1/2" S<br>n, 1/4" long.<br>gold plated<br>button - 1                          | Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Amps<br>Am                                                                                                                                                                                                                           | 19A7020<br>19A7021<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7020<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>19A7000<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100 | SPDT<br>DPST<br>DPDT<br>IDE<br>CCER OF<br>a small<br>de x 13<br>0 long, 1<br>tg. ctr.<br>soc.<br>30<br>.30<br>.30<br>.33<br>.31<br>.44<br>.60<br>CURE<br>' DPDT.<br>ts gold<br>witches<br>AC. Moo.<br>cates put                     | 1 x25<br>14/2x13<br>14/2x25<br>SWIT<br>SLIDE SI<br>SiZe is r<br>Ke" long<br>15/9" mtg.<br>Average<br>trked. UL<br>Prices<br>10-99 1<br>\$0.22<br>.23<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24                                         | %"         .35           4"         .42           4"         .42           4"         .53           CHES         NITCHES           heeded.         C           with 1½         .53           .ctr.; Typishpg. wf.         and CSA           .etc.; Topishpg. wf.         and CSA           .145         .159           .159         .160           .212         .347           CCHES         "high, 1, in silver.           .60         151           .347         "CCHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | \$0.27<br>.31<br>.38<br>.38<br>.48<br>ontacts<br>"mtg:<br>pe "C"<br>3 ozs.<br>listed.<br>500-999<br>\$0.095<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 25-49 Each<br>50-99 Each<br>500 Up | 16. 1-24 Ea<br>                                      | STAC<br>WORLD'S<br>cost switcher<br>r plated. Ty<br>Type 'B'''<br>wide x 1.83<br>are positive<br>ing.Return, f<br>yee Action<br>A SPST<br>A SPDT<br>B DPDT<br>A SPDT<br>B DPDT<br>C 4PDT<br>HART S<br>1/4 x 1/2''S<br>sold plated<br>button - 1<br>TS indicates<br>Action<br>SPDT<br>DPDT | Amps (<br>Amps ( | 19A7020<br>19A7021<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7020<br>154" m<br>xxcept whit<br>1.0<br>0.5<br>1.0<br>0.5<br>1.0<br>0.5<br>1.0<br><b>INIAT</b><br>1/2 x ½'<br>Y contac<br>Toggle s<br>115 V.<br><b>PM</b> indic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SPDT<br>DPST<br>DPDT<br>IDE<br>ICER OF<br>a small<br>de x 13<br>b long, 1<br>tg. ctr.<br>tere main<br>sole<br>29<br>.30<br>.30<br>.30<br>.30<br>.30<br>.30<br>.30<br>.30<br>.30<br>.30                                              | 1 x25<br>14/2x13<br>14/2x25<br>SWIT<br>SLIDE SI<br>SiZe is 1<br>5/8" Intg<br>15/8" mtg<br>Average<br>rked. UL<br>Prices<br>10-99 1<br>\$0.22<br>.23<br>.24<br>.24<br>.24<br>.24<br>.31<br>.25<br>.33<br>.33<br>.33<br>.33<br>.33<br>.33<br>.33<br>.33<br>.33<br>.3 | 4/2" .35<br>4/4" .33<br>6/2" .53<br>6/2" .53<br>6/2" .53<br>6/2" .53<br>6/2" .53<br>6/2" .53<br>6/2" .54<br>6/2" .55<br>6/2" .                                                                                                                                                                                                                                                                                                                                                                    | \$0.27<br>.31<br>.38<br>.48<br>ontacts<br>" mtg.<br>pe "C"<br>3 ozs.<br>listed.<br>500-999<br>\$0.093<br>.095<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109<br>.109<br>.093<br>.095<br>.093<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.297<br>.095<br>.095<br>.297<br>.095<br>.095<br>.095<br>.095<br>.095<br>.297<br>.095<br>.095<br>.095<br>.095<br>.095<br>.297<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.095<br>.09 |
| 55-49 Each<br>0-99 Each<br>0-99 Each<br>0-99 Each<br>19-95 Each<br>19-95 Each<br>19-95 Each<br>19-70-10-10-10-10-10-10-10-10-10-10-10-10-10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 18. 1-24 Ea<br>                                      | STAC<br>WORLD'S<br>cost switcher<br>r plated. Ty<br>Type "B","<br>wide x 1.83<br>are positive<br>ing.Return, f<br>Type Action<br>A SPDT<br>A SPDT<br>A SPDT<br>B DPDT<br>C 4PDT<br>HART S<br>1/4 x 1/2" Sn<br>sold plated<br>rbutton - 1<br>TS indicates<br>Action<br>SPDT                | Amps G<br>Amps G<br>C<br>Amps G<br>C<br>Amps G<br>C<br>Amps G<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19A7020<br>19A7021<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A7022<br>19A702<br>19A702<br>19A702<br>19A702<br>19A702<br>10<br>10<br>10<br>10<br>0.5<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>0.5<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPDT<br>DPST<br>DPST<br>IDE<br>ICER OF<br>a small<br>de x 13<br>long, 1<br>tg. ctr.<br>lere mai<br>so.28<br>.29<br>.30<br>.30<br>.39<br>.31<br>.44<br>.60<br>IURE<br>' URE<br>' UPDT.<br>ts gold<br>witches<br>AC. Moo<br>:ates put | 1 x25<br>14/2x13<br>14/2x23<br>SWIT<br>SLIDE SV<br>size is -<br>15/2 rd org<br>15/2 rd org<br>15/2 rd org<br>15/2 rd org<br>15/2 rd org<br>10-99 1<br>50.22<br>.23<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24                           | 4" .35<br>4" .35<br>4" .53<br>CHES<br>witches<br>needed. C<br>with 1%<br>.ctr.; Typshpg. wf.<br>and CSA<br>Each<br>00-499<br>.145<br>.159<br>.160<br>.212<br>.159<br>.160<br>.212<br>.347<br>CCHES<br>" high, 3,<br>in silver.<br>Grans Stress<br>Toches<br>ach<br>10-499<br>.2225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | \$0.27<br>.31<br>.38<br>.48<br>.48<br>.48<br>.48<br>.48<br>.48<br>.48<br>.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### STACKPOLE SWIT

**ARROW-**HART SWITCHES

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① LIGHT DUTY TYPE AC-DC TOGGLE SWITCH Long life and dependability in electronic and fractional horsepower applications. Laminated phenolic sections -  $\frac{13}{27}$  long slotted sleeve ( $\frac{13}{27}$  dia. 32 threads per inch) with hex and knurled nut - nickel finish. Solder lug connections. UL listed. Bat handle. Shpg. wt. 2 ozs.

| Stock   | Arrow-Hart |         | Amp      | eres   |          |         | Prices E | ach     |         |
|---------|------------|---------|----------|--------|----------|---------|----------|---------|---------|
| No.     | No.        | Circuit | 125 V.   | 250 V. | 1-24     | 25-49   | 50-99    | 100-499 | 500 Up  |
| 19A7060 | 20994NV    | SPST    |          | 3      | \$0.69   | \$0.64  | \$0.53   | \$0,477 | \$0.425 |
| 19A7061 | 21350CF    | SPDT    | 3        | 1      | .87      | .81     | .67      | .603    | .536    |
| 19A7062 | 20902AJ    | DPST    | 3        | 1      | 1,26     | 1.17    | .97      | .873    | .,,,,   |
| 19A7063 | 20905AN    | DPDT    | 3        | 1      | 1.44     | 1.34    | 1.24     | 1.116   | .996    |
|         | MOM        | INTARY  | ACTION - | — Norm | ally Ope | n — Bat | Handle   |         |         |
| 1947064 | 80054BE    | SPST    |          | 3      | 1.20     | 1,12    | .93      | .837    | .745    |

1.20 **T292** 3 1.12 .93 1,28 .837 19A7065 20907MA DPST

(2) STANDARD DUTY TYPE AC TOGGLE SWITCHES Slow make and break. Designed to offer high capacity on a small phenolic base. Exceptionally long life expectancy. Solder terminals,  $1\frac{5}{2}\frac{1}{2}$  sleeve length. \*Center off;  $1\frac{3}{4}$  HP 120-240 V. AC;  $\ddagger \frac{1}{4}$  HP 120-240 V AC. Bat handle.

| Stock   | Arrow-Hart |         | Amp | eres   |        |        | Prices E | ach     |         |
|---------|------------|---------|-----|--------|--------|--------|----------|---------|---------|
| No.     | No.        | Circuit |     | 250 V. | 1.24   | 25-49  | 50-99    | 100-499 | 500 Up  |
| 19A7066 | +82601     | SPST    | 15  | 10     | \$0.72 | \$0.67 | \$0.56   | \$0.504 | \$0.448 |
| 19A7067 | +82603     | * SPDT  | 15  | 10     | .83    | .77    | .64      | .572    | .512    |
| 19A7068 | +82609     | *DPDT   | 15  | 10     | 1,33   | 1.24   | 1.03     | .927    | .825    |
| 19A7069 | ±83001     | SPST    | 6   | 3      | .62    | .58    | .48      | .432    | .384    |
| 19A7070 | ±83004     | *SPDT   | 6   | 3      | .67    | .62    | .51      | .459    | .409    |
| 19A7071 | 183028     | *DPDT   | 6   | 3      | 1.02   | .95    | .79      | .711    | .632    |
| 19A7072 | 81027FX    | DPDT    | 6   | 3      | 2.06   | 1.92   | 1.59     | 1.431   | 1.274   |
|         |            |         |     |        |        |        |          |         |         |

(3) STANDARD DUTY TYPE AC-DC TOGGLE SWITCHES - Ball Handle Quick make, quick break with wiping blade action designed for small motor use. Screw terminals,  $\frac{\gamma_{\ell}}{r}$  sleeve length. "Rated 1 HP 125, 250 V. AC-DC.

| Stock   | Arrow-Hart |         | Amp    | eres   |        |        | Prices E | Each    |         |
|---------|------------|---------|--------|--------|--------|--------|----------|---------|---------|
| No.     | No.        | Circuit | 125 V. | 250 V. | 1-24   | 25-49  | 50-99    | 100-499 | 500 Up  |
| 19A7073 | 80607      | SPST    | 12     | 6      | \$1.38 | \$1.28 | \$1.06   | \$0.954 | \$D.849 |
| 19A7074 | *80600     | DPST    | 16     | 8      | 1.38   | 1.28   | 1.06     | .954    | .849    |
|         |            |         |        |        |        | 12011  | 0.000    | TION    |         |

③ EXTRA HEAVY DUTY AC-DC TOGGLE SWITCH — 3 POSITION On-Off-On. Positive off center. Lever can't be moved from one side through center without stopping. For heavy current circuits such as transmitters, amplifiers, etc. "Fast break" contacts. Screw terminals. 34 HP 250 V. AC-DC. With 2 hex nuts. UL listed. Ball handle. "32" sleeve length. Shpg. wt. 2 ozs. 19A7075 80638-D DPDT 10 5 \$4.43 \$4.12 \$3.42 \$3.078 \$2.739

### () MOMENTARY PUSH SWITCHES AC - LIGHT DUTY 1 AMP

Slow make and break operated with light pressure—Laminated phenolic sections—slotted sleeve ( $\frac{14}{2}$ , da. 32 threads per inch)—hex and knurled nut assembled. \*Two circuit (one circuit on—one circuit off, reverses when pushed). All have solder terminals. Shpg. wt. 2 ozs.

| Stock      | Arrow-Hart   |         | Sleeve   | Button  |        |        | Prices E |         |         |
|------------|--------------|---------|----------|---------|--------|--------|----------|---------|---------|
| No.        | No.          | Circuit | Length   | Color   | 1-24   | 25-49  | 50-99    | 100-499 | 500 Vp  |
| 19A7076    | 3391-GL      | SPST-NO | ×4″      | Red     | \$0,98 | \$0.91 | \$0.76   | \$0.684 | \$0.609 |
| 19A7077    | 3391-GL      | SPST-NO | %."      | Black   | .98    | .91    | .76      | .684    | .809    |
| 19A7078    | *3392        | SP2     | %."      | Metal   | .96    | .89    | .74      | .866    | .593    |
| 19A7079    | *3392-A      | SP2     | 7/6"     | Red     | 1.19   | 1.11   | .92      | .828    | .749    |
| 19A7080    | *3392-A      | SP2     | 1/16''   | Black   | 1.19   | 1.11   | .92      | .828    | .749    |
|            | (5) MO       | MENTARY | PUSH SY  | VITCHES | AC-DC- | -STAN  | DARD D   | UTY     |         |
| Normal Lui | Concer Conce |         | ala Data | a 114 U | 0 105  | 01 250 | V AC.    | DC With | 2 hov   |

Normally open Screw terminals. Rated 1½ HP 125 or 250 V. AC-DC. With 2 hex nuts. UL listed.  $\chi_{\rm A}''$  sleeve length. Wt. 2 ozs. Metal \$2.06 \$1.92 \$1.59 \$1.431 \$1.272 19A7081 80630 DPST



# () & ① MOMENTARY PUSH SWITCHES AC — LIGHT DUTY MIDGET SIZE Slow make and break. Molded phenolic base, slotted sleeve %4" long, 1%2" dia., 32 threads per inch. Hex and knurled nut assembled—brass nickel finish button. Solder lugs. N.O. is normally closed. UL listed. Sheg. wt. 2 ozs. \*Has phenolic snap-on button Fig. ⑦. All are 3 amp or 1/10 HP 120 V. AC.

| Stock              | Arrow-Hart        |                    | Buttoh       |            |            | Prices E   | ach             |                 |
|--------------------|-------------------|--------------------|--------------|------------|------------|------------|-----------------|-----------------|
| No.                | No,               | Circuit            | Color        | 1-24       | 25-49      | 50-99      | 100-499         | 500 Up          |
| 19A7054            | 80511E            | SPST-NO            | Metal        | \$0.51     | \$0.47     | \$0.39     | \$0,351<br>.351 | \$0.312<br>.312 |
| 19A7055<br>19A7056 | 80511<br>*80541ER | SPST-NC<br>SPST-NO | Metal<br>Red | .51<br>.98 | .47<br>.91 | .39<br>.76 | .684            | .809            |
| 19A7057            | *80541E           | SPST-NO            | Black        | .98        | .91        | .76        | .684            | .609            |
|                    |                   |                    |              |            |            |            |                 |                 |

(\*) ROTO-POWER LOCK SWITCHES Lockswitch with key for use on power tools, appliances. Fits panels to ½,". Lami-nated phenolic sections. Hex and dress nuts, key. Solder lugs. 1½,2" sleeve length. UL listed. Wt. 2 ozs.

Key Removable in Off Position only. 6 Amp-125 V, 3 Amp-250 V.

| Stock              | Arrow-Hart               |                |            |               |               | Prices E      | ach             |                 |
|--------------------|--------------------------|----------------|------------|---------------|---------------|---------------|-----------------|-----------------|
| No.                | No.                      | Circuit        |            | 1-24          | 25-49         | 50-99         | 100-499         | 500 Up          |
| 19A7058            | 1561L                    | SPST           |            | \$1.80        | \$1.67        | \$1.39        | \$1.251         | \$1,113         |
| Key Remo           | vable in Both            | Positions—3    | amp250     | ٧.            |               |               |                 |                 |
| 19A7083            | 1561LE                   | SPST           |            | \$1.80        | \$1.67        | \$1,39        | \$1.251         | \$1.113         |
|                    |                          | EXTRA KEYS F   | OR ABOVE   | LOCK S        | WITCHE        | S             |                 |                 |
| 19A7107<br>19A7084 | 1561-488 f<br>1561-487 f |                |            | \$0.20<br>.20 | \$0.19<br>.19 | \$0.16<br>.16 | \$0.144<br>.144 | \$0.128<br>.128 |
| ON-OFF Nickel fin  | PLATE. Fits ish.         | slot in thread | led sleeve | of tog        | gle swit      | ches. N       | lounts ve       | rtically.       |
| 19A7059.           | 1-99, Each               | 3c 100-4       | 199, Each  | \$0.          | 027 5         | i00 Up,       | E ac h          | \$0.024         |

Get Fast Delivery from B-A's Huge Electronic Parts Inventory.

1.023

# POTTER AND BRUMFIELD RELAYS



### VERSATILE GENERAL-PURPOSE RELAYS





KRP-3H

Covers a wide range of voltages and contact arrangements. Highly reliable, well designed, easy to install or replace. .187 terminals are quick connect/solder type. Enclosed in a clear plastic cover. Silver-cadmium-oxide contacts assure long contact life. Continuous operation. Size 2.25" seated height x 1.406" x 1.531". Wt. 3 oz. Socket for KUP relays listed below.

| KUP5A15-SPDT 10-Amp.            |           | KU          | P11D15-DPD     | T 10-Amp.       |             |
|---------------------------------|-----------|-------------|----------------|-----------------|-------------|
| Stk. No. Coil V. Coil Ohms      | Each      | Stk. No.    | Coil V.        | Coil Ohms       | Each        |
| 19A1583 6 V. AC 5.1             | \$3.90    | 19A1597     | 6 V. DC        | 32.1            | \$4.25      |
| 19A1584 12 V. AC 21             | 3.90      | 19A1598     | 12 V. DC       | 120             | 4.25        |
| 19A1585 24 V. AC 75             | 3.90      | 19A1599     | 24 V. DC       |                 | 4.25        |
| 19A1586 120 V. AC 2250          | 3.90      | 19A1600     | 110 V. DC      | 10K             | 4.90        |
| 19A1587 240 V. AC 9110          | 4.30      |             |                | 7 10 1          |             |
| KUP5D15-SPDT 10-Amp.            |           |             | P14A15 3P0     |                 |             |
| 19A1588 6 V. DC 32.1            | 3.75      | 19A1563     | 6 V. AC        |                 | 5.30        |
| 19A1589 12 V. DC 120            | 3.75      | 19A1564     |                | 18              | 5.30        |
| 19A1590 24 V. DC 472            | 3.75      | 19A1565     |                | 72              | 5.30        |
| 19A1591 110 V. DC 10K           | 4.35      | 19A1566     | 120 V. AC      | 1700            | 5.30        |
|                                 | 4.00      | 19A1567     | 240 V. AC      | 7200            | 5.70        |
| KUP11A15-DPDT 10-Amp.           |           |             |                |                 |             |
| 19A1592 6 V. AC 5.1             | 4.75      | KUP         | 14015-3P0T     | 10-Amp.         |             |
| 19A1593 12 V. AC 21             | 4.75      | 19A1568     | 6 V. DC        | 32.1            | 4.90        |
| 19A1594 24 V. AC 75             | 4.75      | 19A1569     | 12 V. DC       | 120             | 4.90        |
| 19A1595 120 V. AC 2250          | 4.75      | 19A1570     | 24 V. DC       | 472             | 4.90        |
| 19A1596 240 V. AC 9110          | 5.15      | 19A1571     | 110 V. DC      | 10K             | 5.30        |
|                                 |           |             | and the second | ten sterre      |             |
| 9KU1 SOCKETS FOR KUP RELA       | rs. Rated | 10 amperes, | molded ny      | yion, pierce    | d sol·      |
| der terminals, 2.03 x 1.50 inch |           |             |                |                 | <b>5</b> 0c |
| No. 19A1610. Net Each.          |           |             |                | *************** | OUL         |

### **KR3-H 20-AMP MIDGET**

A reliable heavy duty relay for use where space is limited and the contact current requirement is high. Available in both open mounting and plug-in types. All have twin  $\frac{1}{4}$  silver cadmium contacts SPST-N.D.DB, rated 20 amp at 120 V.

KR3-H open mounting type have combination 1/4" quick connect or solder terminals. Dverall size 1.6 x 1.67 x 1.52 inches. Mounting 6-32 stud, Wt, 2 Dz, KRP3-H as described above, enclosed in clear plastic housing. Dverall size 1.44" x 1.53" x 2.28" seated height-octal base.

| Stk. No.                                                       | Mfg. No.                                           | Coil V.                                                                | Each                 | Stk. No.                                                       | Mfg. No.                                                 | Coll V.                                                                | Each                                           |
|----------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------|----------------------|----------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------|
| 1981492<br>1981496<br>1981497<br>1981499<br>1981500<br>1981523 | KR3AH<br>KR3AH<br>KR3AH<br>KR3DH<br>KR3DH<br>KR3DH | 12 V. AC<br>24 V. AC<br>120 V. AC<br>12 V. DC<br>24 V. DC<br>110 V. DC | 4.30<br>4.10<br>4.10 | 19A1525<br>19A1526<br>19B1527<br>19B1530<br>19B1531<br>19A1540 | KRP3AH<br>KRP3AH<br>KRP3AH<br>KRP3DH<br>KRP3DH<br>KRP3DH | 12 V. AC<br>24 V. AC<br>120 V. AC<br>12 V. DC<br>24 V. DC<br>110 V. DC | \$7.00<br>7.00<br>7.00<br>6.75<br>6.75<br>7.45 |

### GENERAL PURPOSE

|     | urpose<br>con-<br>ations.<br>8-32<br>1.06 x | mp all-p<br>r many<br>it applic<br>single<br>core. | Low cost<br>tact 5 a<br>relay fo<br>trol circu<br>Mounting<br>tapped<br>1.71 x<br>3½ Dz. |                |    |
|-----|---------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------|----------------|----|
|     | Each                                        | Coll V.                                            | Contacts                                                                                 | Mfg. No.       | ). |
| Stl | \$3,70                                      | 6 AC                                               | DPDT                                                                                     | GA11A          | 12 |
| 19  | 3.70                                        | 12 AC                                              | DPDT                                                                                     | GATIA          | 13 |
| 19  | 3.70                                        | 24 AC                                              | DPDT                                                                                     | GATTA          | 14 |
| 19  | 3.70                                        | 120 AC                                             | DPDT                                                                                     | GATTA          | 15 |
|     | 4.45                                        | 24 AC                                              | 3PDT                                                                                     | GA14A          | 76 |
| 19  | 4.45                                        | 120 AC                                             | 3PDT                                                                                     | GA14A<br>GA14A | 17 |
| 19  | 5.35                                        | 6 AC                                               | 4PDT                                                                                     | GA14A<br>GA17A | 78 |
| 19  | 5.35                                        | 12 AC                                              | 4PDT                                                                                     | GA17A          | 79 |
| 13  | 5.35                                        | 24 AC                                              | 4PDT                                                                                     | GA17A<br>GA17A | BO |
|     | 5.35                                        | 120 AC                                             | 4PDT                                                                                     | GA17A          | 81 |
| 19  | 5.80                                        | 240 AC                                             | APDT                                                                                     | GA17A          | 82 |
| 19  | 3.00                                        | 240 AG                                             | 4501                                                                                     | GAITA          | 22 |
| 19  |                                             | HS                                                 | 8 K                                                                                      | KHP            |    |
| -   | rugged                                      | ze —                                               |                                                                                          |                | -  |
| R   |                                             |                                                    | 4PDT en                                                                                  | -              | 15 |
|     | speed                                       | ting high                                          | For exac                                                                                 | p.             |    |
| -   | 0000                                        | Coreina                                            | dete or                                                                                  | 10.            |    |

data processing, co puter and process of trol service. 3 amp ver contacts. Sold terminals with 3

| 00100 111 |          |        |        |
|-----------|----------|--------|--------|
| 9A1515    | KHP17D11 | 6 DC   | \$5.05 |
| 9A1516    | KHP17D11 | 12 DC  | 5.05   |
| 9A1517    | KHP17D11 | 24 DC  | 5.05   |
| 9A1518    | KHP17D11 | 48 DC  | 5.25   |
| 9A1541    | KHS17A11 | 6 AC   | 9.55   |
| 9A1542    | KHS17A11 | 12 AC  | 9,55   |
| 9A1543    | KHS17A11 | 24 AC  | 9,55   |
| 9A1544    | KHS17A11 | 120 AC | 9,90   |
|           |          |        |        |



OR SENSITIVE SERIES

| E.                                          | GB 3                                                                   | 9EN3111                                                                                     | VE SER                                                                                                       | 163                                                           |
|---------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| on-<br>ose<br>on-<br>ns.<br>-32<br>x<br>Wt. |                                                                        | cost.<br>Singl<br>watts,<br>milliwa<br>tapped<br>x 2.93                                     | sensitivity<br>5 amp. c<br>e pole 111<br>double po<br>atts, 4 po<br>atts. Singl<br>core. 1.06<br>W. H. Wt. 5 | ontacts.<br>5 milli-<br>0le 125<br>1e 275<br>e 8-32<br>x 1.71 |
| .70<br>.70<br>.70<br>.70<br>.70             | Stk. No.<br>19A1601<br>19A1602<br>19A1603                              | <b>GB5D-S</b><br><b>Coil Res.</b><br>2500<br>5000<br>10,000                                 | Coll MA<br>6.8<br>4.8<br>3.4                                                                                 | Each<br>\$3.80<br>4.00<br>4.50                                |
| .45<br>.45<br>.35<br>.35                    | 19A1604                                                                | <b>GB11D-</b><br>2500<br>5000<br>10,000                                                     | DPDT<br>7.<br>5.<br>3.53                                                                                     | 5.35<br>5.45<br>6.10                                          |
| .35<br>.35<br>.80                           |                                                                        | <b>GB17D</b> -<br>2500<br>5000<br>10,000                                                    | 10.5<br>7.4                                                                                                  | 6.40<br>6.55<br>7.05                                          |
| ged<br>eed<br>om-<br>on-<br>sil-<br>jer     | RS5D                                                                   | model of mers, ra                                                                           | IVE RE<br>ce, light we<br>controls, lig<br>a diosonde<br>ladium con<br>52x32 H. \                            | ight for<br>ht dim-<br>, etc. 2<br>tacts.                     |
| 48<br>/ith<br>ow.<br>(HP<br>ally            | Stk. No.<br>19A1491<br>19A1442<br>19A1494<br>19A1495                   | Coil Ohms<br>335<br>1.35 K<br>5 K<br>10 K                                                   | Pull In<br>6 V.<br>12 V.<br>3.5 MA<br>2.5 MA                                                                 | Each<br>\$2.90<br>3.05<br>3.45<br>4.00                        |
| .05<br>.05<br>.25<br>.55<br>.55             | BU IN<br>For signa<br>erated. U<br>lightweigh<br>buzzer is<br>1% oz. 0 | DUSTRI<br>Iling. AC o<br>se where<br>t dependab<br>required. W<br>6-32 tappe<br>unting. Siz | P-<br>a<br>le<br>tt.                                                                                         |                                                               |

### 1.03×1.37×1.03″ H. Volts AC Stk. No. Volts AC 9A1508 6 12 24 120 19A1509 Each .95

Stk. No. 19A1506

19A1507

Choice,

### POTTER AND BRUMFIELD - AMPERITE REL

| I OTTER AND DROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                       |                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| SOLID STATE TIME DELAY RELAYS<br>Electronic timing with solid state switching combined to provide<br>a trouble free timing device with no moving parts. Knob adjust-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | POTTER & BRUMFIELD                                                                                                                                                                                                                                    | TIONING-MOTOR STARTING                                                                               |
| able through delay range shown. All have internal relay with DPDT<br>contacts rated 10 amps 120 V. DC. Size 1.78 x 1.41. Height<br>including knob, 3.56".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UL and CSA Listed—All Se<br>PR PR11AL5 MS                                                                                                                                                                                                             | PM                                                                                                   |
| CHB — DELAY "ON OPERATE"<br>Accuracy ±10% of nominal, reset times 100 milliseconds, repeat-<br>ability ±2% octal base.<br>Input Delay Price                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                       |                                                                                                      |
| Stk. No.         Mfg. No.         Voltage         Seconds         Each           19B1459         CHB38-30001         24 V. AC         1.0 to 10         \$19.50           19A1789         CHB38-30003         24 V. AC         1.0 to 180         19.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                       |                                                                                                      |
| 19A1746         CHB38-70003         120 V. AC         1.0 to 180         19.50           19B1460         CHB38-70001         120 V. AC         1.0 to 10         19.50           CHB         DELAY "ON RELEASE"         CHB - DELAY "ON RELEASE"         1.0 to 10         1.0 to 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PR HEAVY DUTY PO<br>A highly dependable, fast acting, sturdily const<br>duty use in industrial control applications. Mi<br>contact carrier, 25 amp silver contacts. 2½" wid                                                                           | olded phenolic base, bobbin an                                                                       |
| Release occurs when control circuit is de-energized. Accuracy $\pm$ 10% of nominal, reset time 100 milliseconds, repeatability $\pm$ 2%. 11 pin base.<br>Stk. No. Mfg. No. Input Voltage Delay Seconds Price Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | are 4% are 1000. AC types are 60 cycles, single<br>Wt. 1 lb.<br>Stk. No. Type Contacts Coil V. Each Stk. No.                                                                                                                                          | throw types are normally oper                                                                        |
| 1981463         CHB38-70011         120         V. AC         1.0         to         \$23.50           1981747         CHB38-70013         120         V. AC         1.0         to         \$23.50           CDB         DELAY "ON OPERATE"         COBLAY "ON OPERATE"         COBLAY "ON OPERATE"         COBLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 19A366 PR3AY SPST 24AC \$4.55 19A36<br>19A1402 PR3AY SPST 120AC 4.55 19A14<br>19A1335 PR3AY SPST 240AC 5.00 19A36                                                                                                                                     | PR7AY DPST 24AC \$5.4<br>04 PR7AY DPST 120AC 5.4                                                     |
| Accuracy ± 5% of nominal, reset time 60 milliseconds, repeatability ± 1%. Octal<br>base.<br>Stk. No. Mfg. No. Input Voltage Delay Seconds Price Each<br>19B1462 CDB38-70003 120 V. AC .1 to 10 \$43,80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19A1415         PR3DY         SPST         6DC         4.55         19A133           19A1336         PR3DY         SPST         12DC         4.55         19A133           19A370         PR5AY         SPDT         24DC         4.60         19A134 | 73 PR7DY DPST 12DC 5.4<br>21 PR7DY DPST 24DC 5.4<br>39 PR11AY DPDT 6AC 7.1                           |
| 1981483         CDB38-70005         120 V. AC         1.8 to 180         43.80           CUF SOLID STATE TIME DELAY RELAYS         Image: Comparison of the temperature of temperature                                                                                               | 19A1403 PR5AY SPDT 120AC 4.60 19A37<br>19A371 PR5AY SPDT 240AC 5.25 19A16<br>19A1337 PR5DY SPDT 12DC 4.60 19A37<br>19A1322 PR5DY SPDT 24DC 4.60 19A13                                                                                                 | PR11AY DPDT 120AC 7.1<br>PR11AY DPDT 240AC 7.8                                                       |
| Adjustable thru delay range shown by using external resistor (not furnished). For minimum time two terminals, 2 and 5, must be shorted; for maximum time the listed external resistor between                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 19A1368 PR7AY DPST 6AC 5.40 19A37<br>METAL DUST COVER for PR Relays. 19A436. PB ‡                                                                                                                                                                     |                                                                                                      |
| terminals 2 and 5 must be added. For intermediate times select<br>a lesser value resistor, or a potentiometer. 1.53 x 1.41 x 2.50" H.<br>Octal base. Wire in circuit or use 9KU1 socket.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>PR11ALS T</b><br>Same power type PR described above. DPDT with<br>X <sub>6</sub> " silver rated 5 amps. Permits use of remo                                                                                                                        | n additional set of SPDT contact                                                                     |
| Stk. No.         Mfg. No.         Input Voltage         Delay Seconds         Ext. Resistor         Price Each           19A1748         CUF41-70010         120 V. AC         1.0 to 10         200K         \$14.25           19A1749         CUF41-70120         120 V. AC         1.0 to 120         2.4 Meg.         15.50           19A1750         CUF41-30010         24 V. AC         1.0 to 10         200K         14.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | bútton, time delay, etc. Not UL or CSA Hsted.<br>No. 19A1342. Coll Voltage 120 V. AC. Each<br>PM 4PDT POWE                                                                                                                                            |                                                                                                      |
| 19A1610. 9KU1. Socket for CUF41. Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | For use in polyphase and heavy duty switching.<br>V 25 amp 240 VAC, 1 H.P. per movable arm at<br>CSA listed. $2^{2}/_{32}''$ W., $3^{2}/_{44}''$ D, $2^{4}/_{44}''$ H. Heavy                                                                          | 1/4" contacts rated 16 amps. 12<br>120 to 240 single phase. UL an                                    |
| lot price shown: 5% for 10.24, 10% for 25.49, 20% for 50.99.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | For AC volts.<br>Stk. No. Mfg. No. Coll Volts Net Ea. Stk.<br>19A1510 PM17AY 6AC \$13.60 19A1                                                                                                                                                         | No. Mfg. No. Coil Volts Net E<br>513 PM17AY 120AC \$13.8                                             |
| JM MERCURY WETTED CONTACT RELAYS<br>Long life, high speed with unvarying dependability through billions of<br>operations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19A1512 PM17AY 24AC 13.60 19A1<br>No. 19C91. Cover for PM Relays. PB #35D227.                                                                                                                                                                         | Each\$3.4                                                                                            |
| Internal slim glass capsule contains contacts, a movable armature, a reservoir of mercury, all hermetically sealed in a high pressure hydro-<br>gen atmosphere. A film of mercury is renewed for every operation minimizing contact bounce pits or welds. Upright mounting required,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MS MOTOR ST/<br>For capacitor start, induction run motors. Operai<br>ing. Carries UL component recognition. Size 23<br>contacts. For Motors up to 3 HP (DB Contacts).                                                                                 | es on back EMF of running wind                                                                       |
| but deviation from works, op and more provided by the second seco | 19A1457. MS4AY. SPST-NC Contacts. 120 V. AC.<br>19A1458. MS4AY. SPST-NC Contacts. 240 V. AC.<br>No. 19A1441. Metal Dust Cover for MS Relays. P                                                                                                        | Each                                                                                                 |
| R-C contact protection circuit with each relay. Up to 200 operations per second<br>possible. SPDT break before make (form C) non-bridging contacts. Size JML 2.64"<br>seated height. 1.31 max. dia. Wt. 5 ozs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       | CLEAR PLASTIC                                                                                        |
| IM1 contact rating 500 V. max., 5 amp max. up to 100 operations per second.<br>SPDT make before break (form D) bridging contacts. Size 2.64" seated height, 1.31<br>max. dia. Wt. 4 ozs.<br>TERMINATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 300 ohm RF line. DPDT                                                                                                                                                                                                                                 | CASE<br>Octal (8 Pin) or<br>Base. Plugs into                                                         |
| JM2 contact rating 500 V. max., 5<br>amp max. Up to 60 operations per<br>second. DPDT make before break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5 amps. Size 1¼ x 114<br>x 1¼". Mounts with 6-32 assem                                                                                                                                                                                                | socket. Mount<br>nents or make<br>biles in case.<br>20. 35D070. 8 Pin Base, Ea. 65                   |
| (form D) bridging contacts. Size<br>3.41" seated height, 1.69" max, dia,<br>Wt. 8 ozs.<br>Wt. 8 ozs.<br>Fig. 11<br>Last two figures of Mfg. No. indicate Terminations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Stk. No. Type Coll V. Net Ea. 9-KR-1                                                                                                                                                                                                                  | 01. 350072. 11 Pin Base, Ea. 80<br>5 HOLD DOWN SPRING, Holds "F<br>Ind KRP-KCP plug-in relays secure |
| Stock         Mfg.         Coli         Celi         Prices Each           No.         No.         Ohms         MA         1-9         10-24         25-99           1961753         JML-1110-81         350         13.1         \$13.35         \$ 9.96         \$ 8,48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19A1452 KT11A 120AC 4.10 <sup>(n any</sup><br>19A1453 KT11D 6DC 4.10 No.19                                                                                                                                                                            | mounting position.<br>8392 Box<br>                                                                   |
| 19A1754         JML-1160-81         1000         8.1         13.35         9.98         8.48           19A1755         JML-1190-81         2500         4.0         14.25         10.63         9.05           19A1756         JML-1200-81         4000         3.4         14.25         10.63         9.05           19B401         JM1-109-12         130         38.8         16.15         12.05         10.28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AMPERITE TIME DELAY<br>Thermostatic type hermetically sealed, unaffected<br>ture or other atmospheric conditions. Operate on                                                                                                                          |                                                                                                      |
| 198440 JM1-112-11 500 20.1 16.15 12.05 10.26<br>198440 JM1-114-11 700 20 18.15 12.05 10.26<br>198470 JM1-118-11 2500 10.1 18.40 13.23 10.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ture or other atmospheric conditions. Operate on<br>are SPST rated at 3 amps. Heater may be ope<br>Heater wattage—2 W. approx. For 220 V. use a<br>resistor in series with 115 V. heater.                                                             | AC or DC. Contacts<br>rated continuously.<br>6500 ohm 5 watt                                         |
| 198472         JM1-119-11         4K         8.1         8.15         8.15         8.15           198451         JM2-110-22         500         34.8         26.20         19.55         18.64           1981751         JM2-112-22         1250         22.1         26.20         19.55         16.64           1981751         JM2-112-22         1250         22.1         26.20         19.55         16.64           1981752         JM2-115-22         5000         11.3         26.20         19.55         16.64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Standard type are $2\%''$ high, less plns, x $144''$ have octal base. Miniature type are $242''$ above pi with 9 pin miniature base.                                                                                                                  |                                                                                                      |
| GP COIL AND 4PDT DPDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NORMALLY OPEN CONTACTS Delay Heater Voltage                                                                                                                                                                                                           | NORMALLY CLOSED CONTACTS<br>Heater Voltage                                                           |
| CONTACT ASSEMBLIES<br>Complete Interchangeability of switch as-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sec.         6.3         12         26         115           2                                                                                                                                                                                        | 6.3 12 26 115<br>6C3 12C3 26C3 115C3                                                                 |
| semblies and contact colls. Separate AC<br>and DC colls to match with 2PDT and<br>4PDT switches. Assemble to your specifi-<br>cations. Contacts %4" dia. silver.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5 6N05 12N05 26N05 115N05<br>8 115N08<br>10 115N010                                                                                                                                                                                                   | 6C5 12C5 26C5 115C5<br>115C8<br>                                                                     |
| SWITCH ASSEMBLIES GPD CURRENT COILS<br>Stk. No. Mfg. No. Contacts Amps Each Stk. No. Resistance Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20 115N020<br>30 6N030 12N030 26N030 115N030<br>45 115N045                                                                                                                                                                                            | 6C30 12C30 26C30 115C30<br>115C45                                                                    |
| 19A1757         GP11         DPDT         5         \$1.90         19A1764         2,500         \$1.70           19A1758         GP17         4PDT         5         3.25         19A1765         5,000         1.95           19A1758         GP17         4PDT         5         3.25         19A1765         5,000         1.95           19A1766         10,000         2.30         30         30         30         30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 60 6N060 12N060 26N060 115N060<br>90 115N090<br>120 6N0120 12N0120 26N0120 115N0120                                                                                                                                                                   | 6C60 12C60 26C50 115C60<br>6C120 12C120 26C120 115C12<br>6C180 12C180 26C180 115C18                  |
| GPA AC COILS         GPD DC COILS           Stk. No.         Coil Voltage         Net Each         Stk. No.         Coil Voltage         Net Each           19A1759         6 V.         \$1.85         19A1767         6 V.         \$2.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 180 6N0180 12N0180 26N0180 115N0180<br>STANDARD OCTAL BASE TIM<br>Specify Stock No. 19A5008 and Amperite Type N                                                                                                                                       | DELAY RELAY                                                                                          |
| 19A1760         12 V.         1.85         19A1768         12 V.         2.30           19A1761         24 V.         1.85         19A1769         24 V.         2.30           19A1762         120 V.         1.85         19A1770         110 V.         3.45           19A1763         240 V.         2.30         100 V.         3.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9-PIN MINIATURE TIME D<br>Stocked only in 115 volt from 2 to 120 second of<br>Specify Stock No. 19A5009 and Amperite Type No.                                                                                                                         | ELAY RELAY<br>Islay.                                                                                 |
| 4.3V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I DE ALLA (03.0) ECS E4CO                                                                                                                                                                                                                             |                                                                                                      |

### e, fast acting, sturdily constructed relay for continuous heavy trial control applications. Molded phenolic base, bobbin and amp silver contacts. 21/2" wide x 21/2" long x 21/4" high (PR11 types are 60 cycles, single throw types are normally open. Contacts Coil V. Each Stk. No. Туре Contacts Coil V. Each SPST 24AC \$4.55 19A368 PR7AY DPST 24AC 120AC \$5.40 5.40 5.90 5.40 SPST SPST PR7AY PR7AY 12040 4 55 19A1404 DPST 240AC 6DC 5.00 4.55 19A369 DPST 240AC 12DC 19A1373 DPST SPST PR7DY 12DC 24DC 120AC 24DC 6AC 24AC 5.40 7.10 7.10 SPST 4.55 4.60 PR7DY PR11AY 19A1321 DPST 19A1369 DPDT SPDT 4.60 194372 PR11AY DPDT SPDT 240AC 12DC 5.25 19A160 19A373 DPDT DPDT 120AC 240AC 7.10 7.65 PRIIAY PR11AY 24DC 6AC 4.80 5.40 7.10 SPOT 19A1336 PR110Y **NPNT** 1200 19A377 PRIIDY DPDT 110DC DPST for PR Relays. 19A436. PB #35D013 Each ..... \$3.45 **PM 4PDT POWER TYPE** se and heavy duty switching, ¼4" contacts rated 16 amps, 120 AC, 1 H.P. per movable arm at 120 to 240 single phase. UL and N., 3<sup>2</sup>¾4" D, 2<sup>4</sup>¾4" H. Heavy 8-32 screw terminals. Wt. 14 oz. Coll Volts Net Ea. Stk. No. 19A1513 Mfg. No. PM17AY Coll Volts Net Ee. 6AC \$13.60 24AC 13.60 120AC 240AC \$13.60 14,10 19A1514 PM17AY or PM Relays. PB #35D227. Each..... .....\$3.45 **MS MOTOR STARTING** induction run motors. Operates on back EMF of running wind-mponent recognition. Size 2% x 3 x 2%" high. Pure silver s up to 3 HP (DB Contacts). NA RELAYS "P" CLEAR PLASTIC CASE amine With Octai (8 Pin) or 11 Pin Base. Plugs into tube socket. Mount components or make assemblies in case. tching ed--at x 111 h 6-32 19A1400. 350070. 8 Pin Base, Ea. 85c 19A1401. 350072. 11 Pin Base, Ea. 80c 9-KR-15 HOLD DOWN SPRING, Holds "P" case and KRP-KCP plug-in relays securely in any mounting position. Coll V. Net Ea. \$4.10 4.10 4.10 6AC

### ITE TIME DELAY RELAY



|     |             | NORM   | ALLY OPEN | CONTACT | 5        | NOR   | MALLY CL | OSED CON  | TACTS   |
|-----|-------------|--------|-----------|---------|----------|-------|----------|-----------|---------|
| Del | ay.         |        | Heater    | voltage |          |       | Heater   | r Voltage |         |
| Se  | c.          | 6.3    | 12        | 26      | 115      | 6.3   | 12       | 26        | 115     |
|     |             |        |           |         | 115N02   |       |          |           | 115C2   |
|     | 3 6         | 5NO3   | 12N03     | 26N03   | 115N03   | 6C3   | 1203     | 26C3      | 115C3   |
|     | 5 (         | 6N05   | 12N05     | 26N05   | 115N05   | 6C5   | 1205     | 26C5      | 115C5   |
|     |             |        |           | ******* | 115N08   |       |          | *******   | 115C8   |
| 1   |             |        |           |         | 115N010  |       |          | *******   | 115010  |
| 1   |             | 6NO15  | 12N015    | 26N015  | 115N015  | 6C15  | 12015    | 26C15     | 115015  |
| 2   | 0.          |        |           |         | 115N020  |       | ******   |           | 115C20  |
| 3   | 0 0         | 5NO30  | 12NO30    | 26N030  | 115NO30  | 6C30  | 12030    | 26C30     | 115030  |
| 4   | 5.          |        |           |         | 115N045  |       |          |           | 115C45  |
| 6   | 0 6<br>10 . | 5N060  | 12N060    | 26N060  | 115N060  | 6C60  | 12C60    | 26C60     | 115060  |
| 9   | 0.          |        | ******    |         | 115N090  |       |          |           | 115C90  |
| 12  |             | 6N0120 | 12N0120   | 26N0120 | 115N0120 | 6C120 | 12C120   | 26C120    | 115C120 |
| 18  | 10 E        | 5N0180 | 12N0180   | 26N0180 | 115N0180 | 6C180 | 12C180   | 26C180    | 115C180 |

Call Burstein-Applebee's Industrial Department (816) 561-5460

| POWER | <b>CONTACTORS</b> |
|-------|-------------------|
|       | POWER             |

AC per pole.

Mfg.

No.

Coil

Voltage

V.

Stock

No.

| NG                                                                                                       |                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                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AC.<br>als. 4.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ~                                                                                                                                                        |
| Stock                                                                                                    | Mfg.                                                                                                   | mounting hole<br>1%4". Shpg. wi<br>Nom. Current                                                                                                                                                                                                                                                                                                                                                                   | t. 3 ozs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 19A1701<br>19A1702                                                                                       | MS40-901<br>MS40-902                                                                                   | 6 V.<br>13.5 MA                                                                                                                                                                                                                                                                                                                                                                                                   | 250<br>500                                                                                                                                                                                                                                                                                                                                                                                     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| 19A1703                                                                                                  | M\$40-904                                                                                              | 12 V.                                                                                                                                                                                                                                                                                                                                                                                                             | 1000                                                                                                                                                                                                                                                                                                                                                                                           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| 19A1704<br>19A1705                                                                                       | M\$40-906<br>M\$40-907                                                                                 | 6.0 MA<br>4.3 MA                                                                                                                                                                                                                                                                                                                                                                                                  | 2500<br>5000                                                                                                                                                                                                                                                                                                                                                                                   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|                                                                                                          | MS40-907<br>MS40-909                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                   | 10,000                                                                                                                                                                                                                                                                                                                                                                                         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| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1                                                                                             | 3.9 MA<br>129 AC<br>w connections<br>25 V, 2 HP -                                                                                                                                                                                                                                                                                                                                                                 | POWER<br>Contact ra<br>250 V): resis                                                                                                                                                                                                                                                                                                                                                           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| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.                                                                                | 3.9 MA<br><b>129 AC</b><br>w connections<br>25 V, 2 HP -<br>2% x 1% x                                                                                                                                                                                                                                                                                                                                             | POWER<br>c. Contact ra<br>250 V): resis<br>1%". 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| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position,<br>Stock<br>No.                                                                | 3.9 MA<br><b>129 AC</b><br>w connections<br>25 V, 2 HP - 2<br>2% x 1% x<br>Mfg.<br>No.                                                                                                                                                                                                                                                                                                                            | POWER<br>c. Contact ra<br>250 V): resis<br>1%". 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| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1                                                        | 3.9 MA<br><b>129 AC</b><br>w connections<br>125 V, 2 HP - 2<br>23/6 x 17/6 x<br>Mfg.<br>No.<br>744 129-902                                                                                                                                                                                                                                                                                                        | POWER<br>5. Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1                                                | 3.9 MA<br><b>129 AC</b><br>w connections<br>125 V, 2 HP -<br>2% x 1% x<br>Mfg.<br>No.<br>744 129-902<br>129-903                                                                                                                                                                                                                                                                                                   | POWER<br>5. Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1                                | 3.9 MA<br><b>129 AC</b><br>w connections<br>125 V, 2 HP -<br>2% x 1% x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-903<br>728 129-907                                                                                                                                                                                                                                                                 | POWER<br>5. Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>120 VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1                                        | 3.9 MA<br><b>129 AC</b><br>w connections<br>25 V, 2 HP -<br>2% x 17% x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-903<br>728 129-907<br>729 129-908                                                                                                                                                                                                                                                  | POWER<br>5. Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>120 VAC<br>208 / 230 VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1                                | 3.9 MA<br><b>129 AC</b><br>w connections<br>125 V, 2 HP -<br>23% x 1% x<br>Mo.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br>84 AC                                                                                                                                                                                                                                                | POWER<br>Contact ra<br>250 V): resis<br>176". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>120 VAC<br>208 / 230 VAC<br>GENERA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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Oper-<br>100-249<br>\$2.89<br>3.05<br>3.58<br>3.58<br>0.3.76<br>7 4.00<br>LAYS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1                                | 3.9 MA<br><b>129 AC</b><br>w connections<br>125 V, 2 HP -<br>23/6 x 17/6 x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br><b>84 AC</b><br>Totally enclos                                                                                                                                                                                                            | POWER<br>5. Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>120 VAC<br>208/230 VAC<br>GENERA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                                                                                             | AYS<br>uctive loa<br>1:18 amp<br>25.<br>1-24 25<br>\$4.11 \$2<br>4.35 \$2<br>5.11 \$2<br>5.71 \$2<br>JRPOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | d: 18 am<br>continuo<br>5-49 50-99<br>3.70 \$3.22<br>3.92 3.48<br>4.60 4.09<br>4.84 4.30<br>5.14 4.57<br><b>E REL</b><br>s in any                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Oper-<br>100-249<br>\$2.89<br>3.05<br>3.58<br>3.76<br>7 4.00<br>LAYS<br>position.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1                                | 3.9 MA<br><b>129 AC</b><br>w connections<br>125 V, 2 HP -<br>23% x 17% x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br><b>84 AC</b><br>Totally enclos<br>23% x 13% x 1<br>Contact Ratin                                                                                                                                                                            | POWER<br>, Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>20 V/230 VAC<br>208/230 VAC<br>208/230 VAC<br>GENERA<br>ded. Screw t<br>1½". Shpg.<br>at 125/250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | REL<br>ting indi<br>tive load<br>wt. 5 o.<br>PNO<br>PDT<br>PDT<br>PDT<br>PDT<br>PDT<br>PDT<br>NL PL<br>VL PL<br>V. 5 oz<br>V, X. 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | AYS<br>uctive loa<br>1: 18 amp<br>25.<br><b>1-24</b> 25<br><b>\$4.11</b> \$3<br><b>4.35</b> \$<br><b>5.11</b> \$<br><b>5.71</b> \$<br><b>JRPOS</b><br>. Operate<br>S.<br>Inductive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | d: 18 am<br>continuo<br>rices Eact<br>-49 50-99<br>3.70 \$3.29<br>3.92 3.44<br>3.60 4.03<br>5.14 4.57<br>5.14 4.57<br>5.14 4.57<br>5.14 8.57<br>5.14 8.575<br>5.14 8.57555555 | p at 250<br>us. Oper-<br>100-249<br>\$ \$2.89<br>\$ 3.05<br>\$ 3.58<br>\$ 3.58<br>\$ 3.76<br>7 4.00<br>LAYS<br>position.<br>amp con-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1                                 | 3.9 MA<br><b>129 AC</b><br>w connections<br>(25 V, 2 HP -<br>23% x 17% x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br><b>84 AC</b><br>Totally enclos<br>23% x 13% x<br>Contact Rating<br>tinuous, 25 a                                                                                                                                                            | POWER<br>, Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>208/230 VAC<br>GENERA<br>GENERA<br>GENERA<br>GENERA<br>g at 125/250<br>mps inrush;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                              | AYS<br>uctive loa<br>1: 18 amp<br>25.<br>1-24 25<br>\$4.11 \$:<br>5.11<br>5.71<br>5.71<br>JRPOS<br>. Operate<br>S.<br>1nductive<br>load: 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                   | p at 250<br>us. Oper-<br>100-249<br>\$ \$2.89<br>\$ 3.05<br>\$ 3.58<br>3.76<br>7 4.00<br>LAYS<br>position.<br>amp con-<br>intinuous.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1                                 | 3.9 MA<br><b>129</b> AC<br>w connections<br>125 V, 2 HP -<br>23/6 x 17/6 x<br>M/6 x<br>M/6 x<br>M/6 x<br>129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br><b>84</b> AC<br>Totally enclos<br>23/6 x 1/6 x<br>Contact Rating<br>tinuous, 25 al<br>Stock Mfg                                                                                                                                   | POWER<br>, Contact ra<br>250 V): resis<br>1%". Shgg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>24 VAC<br>20 VAC<br>20 VAC<br>20 VAC<br>208/230 VAC<br>GENERA<br>g at 125/250<br>mps inrush<br>AC Coil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | REL<br>ting indi<br>tive load<br>wt. 5 o.<br>Contact<br>1PNO<br>1PDT<br>1PDT<br>LPDT<br>LPL<br>erminals<br>wt. 5 oz<br>V. AC.<br>resistive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                        | p at 250<br>us. Oper-<br>100-249<br>3 3.05<br>3 3.58<br>3 3.58<br>5 3.76<br>7 4.00<br>LAYS<br>position.<br>amp con-<br>notinuous.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1                                 | 3.9 MA<br><b>129</b> AC<br>w connections<br>125 V, 2 HP -<br>23/6 x 17/6 x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-908<br>84 AC<br>Totally enclos<br>23/6 x 15/6 x<br>Contact Rating<br>tinuous, 25 ai<br>Stock Mfg<br>No.                                                                                                                                                                        | POWER<br>Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>120 VAC<br>208/230 VAC<br><b>GENERA</b><br>ed. Screw t<br>1½". Shpg.<br>at 125/250<br>mps inrush;<br><b></b> AC Coil<br>Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | REL<br>ting indi<br>tive load<br>wt. 5 o.<br>Contact<br>1PNO<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>L PU<br>erminals<br>wt. 5 oz<br>V. AC.<br>resistive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                | d: 18 amp<br>continuo<br>rices Each<br>-49 50-95<br>3.70 \$3.22<br>.92 3.44<br>4.60 4.05<br>3.64 4.33<br>5.14 4.55<br><b>E REL</b><br>s in any<br>load: 8<br>amps co<br>Prices Each<br>5-49 50-95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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Oper-<br>100-249<br>\$ \$2.89<br>\$ 3.05<br>\$ 3.58<br>\$ 3.58<br>\$ 3.58<br>\$ 3.76<br>7 4.00<br>LAYS<br>position.<br>amp con-<br>intinuous.<br>\$ 100-249                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>V. continuou                                                                            | s 1 HP - 1<br>position.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1                                | 3.9 MA<br><b>129</b> AC<br>w connections<br>125 V, 2 HP -<br>23/6 x 17/6 x<br>M/6 x<br>M/6 x<br>M/6 x<br>129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br><b>84</b> AC<br>Totally enclos<br>23/6 x 1/6 x<br>Contact Rating<br>tinuous, 25 al<br>Stock Mfg                                                                                                                                   | POWER<br>, Contact ra<br>250 V): resis<br>17%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>208/230 VAC<br>GENERA<br>GENERA<br>GENERA<br>GENERA<br>125/255<br>mps inrush;<br>AC Coil<br>Voltage<br>24<br>24<br>25<br>25<br>25<br>25<br>26<br>26<br>26<br>26<br>26<br>27<br>26<br>27<br>26<br>27<br>26<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | REL<br>ting indi<br>tive load<br>wt. 5 o.<br>Contact<br>1PNO<br>1PDT<br>1PDT<br>LPDT<br>LPL<br>erminals<br>wt. 5 oz<br>V. AC.<br>resistive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A Y S<br>uctive loa<br>1: 18 amf<br>2:<br>1-24 2:<br>4:13 5:<br>5:11 4:<br>5:37 4:<br>5:37 4:<br>JRPOS<br>. Operate<br>S.<br>Inductive<br>load: 16<br>1:24 2:<br>\$3.06 \$:<br>3:37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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2.71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Oper-<br>100-249<br>3 3.05<br>3 3.05<br>3 3.75<br>7 4.00<br><b>AYS</b><br>position.<br>amp con-<br>notinuous.<br>9 100-249<br>5 \$2.15<br>0 2.36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally encloy<br>y. continuou<br>ates in any                                                            | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1                        | 3.9 MA<br><b>129 AC</b><br>w connections<br>125 V, 2 HP -<br>236 x 1% x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-908<br>84 AC<br>Totally enclos<br>236 x 1% x<br>Contact Rating<br>tinuous, 25 ai<br>Stock Mfg<br>No.<br>198179 84-5<br>19A1722 84-5                                                                                                                                               | POWER<br>. Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>120 VAC<br>COB/230 VAC<br>GENERA<br>.ed. Screw ti<br>1½". Shpg.<br>.AC coil<br>Voltage<br>002 24<br>003 120<br>004 230/240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                         | A Y S<br>uctive loa<br>1: 18 am<br>25.<br>F<br>1-24 2:<br>4.35<br>5.11 4<br>5.37 4<br>5.37 4<br>5.37 5<br>JRPOS<br>0 perate<br>5.<br>1-24 2:<br>\$<br>1 ductive<br>load: 16<br>5.<br>1 ductive<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | d: 18 amp<br>continuo<br>rices Each<br>-49 50-95<br>3,70 \$3,22<br>8,92 3,46<br>4,60 4,05<br>3,84 4,33<br>5,14 4,55<br>5 <b>C REL</b><br>s in any<br>load: 8<br>6 amps coo<br>rices Each<br>5,49 50-99<br>2,76 \$2,44<br>3,04 2,77<br>3,31 2,94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Oper-<br>100-249<br>3 3.05<br>3 3.05<br>3 3.76<br>7 4.00<br><b>LAYS</b><br>position.<br>amp con-<br>intinuous.<br>b<br>9 100-249<br>5 \$2.15<br>0 2.36<br>4 2.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>Y. continuou<br>ates in any                                                             | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1                | 3.9 MA<br><b>129 AC</b><br>w connections<br>125 V, 2 HP -<br>23% x 17% x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br><b>84 AC</b><br>Totally enclos<br>23% x 13% x<br>Contact Rating<br>tinuous, 25 al<br>Stock Mfg<br>No.<br>19B179 84-5<br>19B179 84-5<br>19B172 84-5<br>5/250 V. AC.                                                                          | POWER<br>, Contact ra<br>250 V): resis<br>17%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>208/230 VAC<br>GENERA<br>GENERA<br>GENERA<br>GENERA<br>40<br>205/230 VAC<br>GENERA<br>40<br>Coil<br>120 VAC<br>208/230 VAC<br>GENERA<br>AC Coil<br>Voltage<br>31 20 VAC<br>202/230 VAC<br>AC Coil<br>Voltage<br>32 24<br>33 120<br>120<br>120 VAC<br>120 VAC<br>12 | REL<br>ting indi<br>tive load<br>wit 5 0.<br>Contact<br>1PNO<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A Y S<br>uctive loa<br>1: 18 am<br>25.<br>F<br>1-24 2:<br>4.35<br>5.11 4<br>5.37 4<br>5.37 4<br>5.37 5<br>JRPOS<br>0 perate<br>5.<br>1-24 2:<br>\$<br>1 ductive<br>load: 16<br>5.<br>1 ductive<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | d: 18 amp<br>continuo<br>rices Each<br>-49 50-95<br>3,70 \$3,22<br>8,92 3,46<br>4,60 4,05<br>3,84 4,33<br>5,14 4,55<br>5 <b>C REL</b><br>s in any<br>load: 8<br>6 amps coo<br>rices Each<br>5,49 50-99<br>2,76 \$2,44<br>3,04 2,77<br>3,31 2,94                                                                                  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Oper-<br>100-249<br>3 3.05<br>3 3.05<br>3 3.76<br>7 4.00<br><b>LAYS</b><br>position.<br>amp con-<br>intinuous.<br>b<br>9 100-249<br>5 \$2.15<br>0 2.36<br>4 2.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>V. continuou<br>ates in any                                                             | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1                        | 3.9 MA<br><b>129</b> AC<br>w connections<br>125 V, 2 HP -<br>2% x 1% x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br><b>84</b> AC<br>Totally encloss<br>2% x 1% x<br>Contact Rating<br>No.<br>No.<br>19B179 84-5<br>19B180 84-5<br>5/250 V. AC.<br>8 amps contin                                                                                                   | POWER<br>, Contact ra<br>250 V): resis<br>17%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>208/230 VAC<br>GENERA<br>GENERA<br>GENERA<br>GENERA<br>40<br>205/230 VAC<br>GENERA<br>40<br>Coil<br>120 VAC<br>208/230 VAC<br>GENERA<br>AC Coil<br>Voltage<br>31 20 VAC<br>202/230 VAC<br>AC Coil<br>Voltage<br>32 24<br>33 120<br>120<br>120 VAC<br>120 VAC<br>12 | REL<br>ting indi<br>tive load<br>wit 5 0.<br>Contact<br>1PNO<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A Y S<br>uctive load<br>18 amp<br>25.<br>F<br>1-24 25<br>\$4.11 \$<br>5.37 \$<br>JRPOS<br>10dc1 16<br>1-24 25<br>1.0 Operate<br>5.37 \$<br>JRPOS<br>1.0 Operate<br>5.37 \$<br>1.24 25<br>1.24 25<br>1                                                                                                                                                                                                                                                                                                                                                                                       | d: 18 amp<br>continuo<br>rices Eact<br>5-9 50-99<br>3.70 \$3.22<br>3.92 3.44<br>4.60 4.09<br>4.64 4.31<br>5.14 4.55<br><b>F REL</b><br>5 amps co<br><b>Frices Eact</b><br>5-99 50-99<br>2.76 \$2.44<br>3.04 2.71<br>3.31 2.99<br>muous, 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | p at 250<br>us. Oper-<br>100-249<br>3 3.05<br>3 3.05<br>3 3.76<br>7 4.00<br><b>LAYS</b><br>position.<br>amp con-<br>intinuous.<br>b<br>9 100-249<br>5 \$2.15<br>0 2.36<br>4 2.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>Y. continuou<br>ates in any                                                             | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1                | 3.9 MA<br><b>129 AC</b><br>w connections<br>125 V, 2 HP -<br>23% x 17% x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br><b>84 AC</b><br>Totally enclos<br>23% x 13% x<br>Contact Rating<br>tinuous, 25 al<br>Stock Mfg<br>No.<br>19B179 84-5<br>19B179 84-5<br>19B172 84-5<br>5/250 V. AC.                                                                          | POWER<br>, Contact ra<br>250 V): resis<br>17%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>208/230 VAC<br>GENERA<br>GENERA<br>GENERA<br>GENERA<br>40<br>205/230 VAC<br>GENERA<br>40<br>Coil<br>120 VAC<br>208/230 VAC<br>GENERA<br>AC Coil<br>Voltage<br>31 20 VAC<br>202/230 VAC<br>AC Coil<br>Voltage<br>32 24<br>33 120<br>120<br>120 VAC<br>120 VAC<br>12 | REL<br>ting indi<br>tive load<br>wit 5 0.<br>Contact<br>1PNO<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A Y S<br>uctive load<br>18 amp<br>25.<br>F<br>1-24 25<br>\$4.11 \$<br>5.37 \$<br>JRPOS<br>10dc1 16<br>1-24 25<br>1.0 Operate<br>5.37 \$<br>JRPOS<br>1.0 Operate<br>5.37 \$<br>1.24 25<br>1.24 25<br>1                                                                                                                                                                                                                                                                                                                                                                                       | d: 18 amp<br>continuo<br>rices Each<br>-49 50-95<br>3,70 \$3,22<br>8,92 3,46<br>4,60 4,05<br>3,84 4,33<br>5,14 4,55<br>5 <b>C REL</b><br>s in any<br>load: 8<br>6 amps coo<br>rices Each<br>5,49 50-99<br>2,76 \$2,44<br>3,04 2,77<br>3,31 2,94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | p at 250<br>us. Oper-<br>100-249<br>3 3.05<br>3 3.05<br>3 3.76<br>7 4.00<br><b>LAYS</b><br>position.<br>amp con-<br>intinuous.<br>b<br>9 100-249<br>5 \$2.15<br>0 2.36<br>4 2.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>V. continuou<br>ates in any                                                             | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A | 3.9 MA<br><b>129</b> AC<br>w connections<br>125 V, 2 HP -<br>23/6 x 17/6 x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-908<br>84 AC<br>Totally enclos<br>23/6 x 15/6 x<br>Contact Rating<br>tinuous, 25 al<br>Stock Mfg<br>No.<br>198179 84-5<br>5/250 V. AC.<br>8 amps contin<br>AC Coll                                                                                                             | POWER<br>. Contact ra<br>250 V): resis<br>1%". Shpg.<br>24 VAC<br>120 VAC<br>24 VAC<br>120 VAC<br>208/230 VAC<br>208/230 VAC<br>208/230 VAC<br><b>GENERA</b><br>ed. Screw ti<br>1½". Shpg.<br>AC coil<br>Voltage<br>002 24<br>003 120<br>004 230/240<br>Inductive loa<br>uous.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REL<br>ting ind<br>tive load<br>wt. 5 o.<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A Y S<br>uctive load<br>18 amp<br>25.<br>F<br>1-24 25<br>\$4.11 \$<br>5.37 \$<br>5.37 \$<br>JRPOS<br>10ad: 16<br>10ad: 16<br>10ad: 16<br>1-24 22<br>\$3.06 \$<br>3.37 \$<br>3.67 \$<br>Price 25-49<br>\$3.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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50-98<br>.70 \$3.29<br>.92 3.46<br>.14 4.55<br>.14 4.55<br>.15 4.55 4.55<br>.15 4.55 4.55 4.55 4.55 4.55 4.55 4.55 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | p at 250<br>us. Oper-<br>100-249<br>3 3.05<br>3 3.05<br>3 3.05<br>3 3.76<br>7 4.00<br><b>A YS</b><br>position.<br>amp constitutions.<br>h<br>100-249<br>5 \$2.15<br>5 \$2.15<br>0 2.36<br>4 2.57<br>amps in-<br>100-249<br>\$2.36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>Y. continuou<br>ates in any                                                             | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A | 3.9 MA<br><b>129</b> AC<br>w connections<br>125 V, 2 HP -<br>23/6 x 17/6 x<br>Mfs.<br>No.<br>744 129-902<br>745 129-903<br>727 129-908<br>84 AC<br>Totally enclos<br>23/6 x 13/6 x<br>Contact Rating<br>tinuous, 25 al<br>50ck Mfg<br>No.<br>198179 84-6<br>198179 84-6<br>198179 84-6<br>198172 84-5<br>5/250 V. AC.<br>8 amps contin<br>AC Coll<br>Voltage<br>24<br>120                                         | POWER<br>Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>2208/230 VAC<br>GENERA<br>Screw t<br>1½". Shpg.<br>AC Coil<br>Voltage<br>002 24<br>003 120<br>004 230/240<br>Inductive loa<br>UDU<br>SPDT<br>SPDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                           | A Y S<br>uctive load<br>18 amp<br>25.<br>1-24 22<br>\$4.11 \$:<br>-1.24 22<br>\$4.11 \$:<br>-5.11 4<br>-5.37 4<br>5.71 5<br>J. Operate<br>s.<br>Inductive<br>load: 16<br>1-24 22<br>\$3.06 \$<br>3.37<br>3.67<br>Price<br>25.49<br>\$3.04<br>3.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | p at 250<br>us. Oper-<br>1 100-249<br>3 \$2.89<br>3 3.05<br>3 3.58<br>3 3.58<br>3 3.58<br>3 3.76<br>7 4.00<br><b>AYS</b><br>position.<br>amp con-<br>intinuous.<br>5 \$2.15<br>0 2.36<br>4 2.57<br>amps in-<br>100-249<br>\$2.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>V. continuou<br>ates in any<br>Contact Rati<br>rush: resisti<br>Stock<br>No.<br>19A1723 | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A | 3.9 MA<br><b>129</b> AC<br>w connections<br>125 V, 2 HP -<br>236 x 1% x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-908<br>84 AC<br>Totally enclos<br>84 AC<br>Totally enclos<br>236 x 1% x<br>Contact Rating<br>tinuous, 25 al<br>198180 84-<br>198179 84-<br>5/250 V. AC.<br>8 amps contin<br>AC Coll<br>Voltage<br>24<br>120<br>230/240                                                            | POWER<br>Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>2208/230 VAC<br>GENERA<br>GENERA<br>Screw t<br>1½". Shpg.<br>AC Coil<br>Voltage<br>002 24<br>003 120<br>004 230/240<br>Inductive Ioa<br>Uous.<br>Action<br>SPDT<br>SPDT<br>SPDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | REL<br>ting ind<br>tive load<br>wt. 5 o.<br>Contact<br>1PN0<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A Y S<br>uctive load<br>18 amp<br>25.<br>1-24 22<br>\$4.11 \$:<br>-1-24 22<br>\$4.11 \$:<br>-5.11 4<br>-5.37 4<br>5.71 5<br>J. Operate<br>s.<br>Inductive<br>load: 16<br>1-24 22<br>\$3.06 \$<br>3.37<br>3.67<br>Price<br>25.49<br>\$3.04<br>3.29<br>3.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | d: 18 amp<br>continuo<br>rices Eact<br>-49 50-98<br>3.70 \$3.29<br>3.70 \$3.29<br>3.70 \$3.29<br>3.70 \$3.29<br>3.70 \$3.29<br>5.49 50-91<br>5.49 50-91<br>2.76 \$2.44<br>3.04 2.71<br>3.04 2.71<br>3.03 2.99<br>50.99<br>50.70 50.99<br>50.70 50.90<br>50.99<br>50.70 50.90<br>50.99<br>50.90 50.90<br>50.90 50.90<br>50.9                                                                                | p at 250<br>us. Oper-<br>1 100-249<br>3 \$2.89<br>3 3.05<br>3 3.58<br>3 3.58<br>3 3.58<br>3 3.56<br>7 4.00<br><b>AYS</b><br>position.<br>amp con-<br>intinuous.<br>9 100-249<br>5 \$2.15<br>0 2.36<br>2.56<br>2.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally enclo<br>Y. continuou<br>ates in any                                                             | s 1 HP - 1<br>position.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A                 | 3.9 MA<br><b>129</b> AC<br>w connections<br>125 V, 2 HP -<br>236 x 17/8 x<br>Mfg.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br>84 AC<br>Totally enclos<br>236 x 15/6 x<br>Contact Rating<br>tinuous, 25 al<br>Stock Mfg<br>No. Mo.<br>19B179 84-5<br>5/250 V. AC.<br>8 amps contin<br>AC Coll<br>Voltage<br>24<br>120<br>230/240<br>LAC GE                                       | POWER<br>, Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>200 V/20 VAC<br>208 /230 VAC<br>200 /240<br>Inductive Ioa<br>100 VAC<br>200 /240<br>200                                                                                                     | REL           ting inditive load           tive load           wt. 5 0.0           1PDT           1PDT           1PDT           1PDT           NC           reminals           SPNO           SPNO           SPNO           SPNO           SPNO           1-24           \$3.65           4.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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22<br>\$4.11 \$<br>5.37 5.11<br>Coperate<br>1.32 0<br>JR POS<br>5.37 5.11<br>JR POS<br>5.37 5.11<br>Coperate<br>1.32 0<br>JR POS<br>5.37 5.11<br>Coperate<br>1.32 0<br>1.24 22<br>\$3.06 \$<br>3.37 5<br>3.67 5<br>Price<br>25.49<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>\$3.04<br>\$3.04<br>\$3.04<br>\$3.59<br>\$3.04<br>\$3.59<br>\$3.04<br>\$3.59<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.04<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.69<br>\$3.   | d: 18 amp<br>continuo<br>rices Eact<br>-49 50-99<br>3.70 \$3.22<br>3.92 3.44<br>4.57<br>5.14 4.57<br>5.14 4.57<br>5.15 <b>F REI</b><br>5 in any<br>load: 8<br>5 amps co<br>rices Eact<br>5.49 50-99<br>2.76 \$2.41<br>3.04 2.71<br>3.31 2.99<br>2.76 \$2.42<br>3.20<br><b>RELAY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Oper-<br>100-249<br>3 3.05<br>3 3.58<br>3 3.59<br>3 3 | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally encloved<br>v. continuou<br>ates in any                                                          | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A | 3.9 MA<br>129 AC<br>w connections<br>125 V, 2 HP -<br>236 x 17/6 x<br>Mrg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br>84 AC<br>Totally enclos<br>236 x 13/6 x<br>Contact Rating<br>tinuous, 25 al<br>Stock Mrg<br>No.<br>198179 84-5<br>5/250 V. AC.<br>8 amps contin<br>AC Coll<br>Voltage<br>24<br>120<br>230/240<br>LAC GE                                           | POWER<br>Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>24 VAC<br>2208/230 VAC<br>GENERA<br>GENERA<br>Voltage<br>002 24<br>003 120<br>004 230/240<br>Inductive Ioa<br>1004<br>SPDT<br>SPDT<br>SPDT<br>SPDT<br>SPDT<br>SPDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | REL<br>ting ind<br>tive load<br>wt. 5 o.<br>Contact<br>1PNO<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PD | A Y S<br>uctive load<br>18 amp<br>25.<br>1-24 22<br>\$4.11 \$:<br>5.11 4.35<br>5.11 4.35<br>5.11 5:<br>. Operate<br>5.11 0<br>. Operate<br>5.11 0<br>. Operate<br>5.37<br>1.124 22<br>\$3.06 \$<br>3.37<br>3.67<br>Price<br>25.49<br>\$3.04<br>3.29<br>3.60<br>POS<br>POS<br>POS<br>POS<br>POS<br>POS<br>POS<br>POS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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Each</b><br>50-99<br>\$2.70<br>2.92<br>3.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Oper-<br>100-249<br>3 3.05<br>3 3.05<br>3 3.05<br>3 3.05<br>3 3.05<br>7 4.00<br><b>AYS</b><br>position.<br>amp con-<br>notinuous.<br>9 100-249<br>5 \$2.15<br>0 2.36<br>4 2.57<br>amps in-<br>100-249<br>\$2.36<br>2.56<br>2.80<br><b>Y</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pressure<br>19A1739<br>19A1740<br>19A1741<br>0<br>19A1741<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| Totally encloved<br>v. continuou<br>ates in any                                                          | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A | 3.9 MA<br>129 AC<br>w connections<br>125 V, 2 HP -<br>236 x 17/6 x<br>Mrg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br>84 AC<br>Totally enclos<br>236 x 13/6 x<br>Contact Rating<br>tinuous, 25 al<br>Stock Mrg<br>No.<br>198179 84-5<br>5/250 V. AC.<br>8 amps contin<br>AC Coll<br>Voltage<br>24<br>120<br>230/240<br>LAC GE                                           | POWER<br>Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>24 VAC<br>2208/230 VAC<br>GENERA<br>GENERA<br>Voltage<br>002 24<br>003 120<br>004 230/240<br>Inductive Ioa<br>1004<br>SPDT<br>SPDT<br>SPDT<br>SPDT<br>SPDT<br>SPDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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o.<br>Contact<br>1PNO<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PD | A Y S<br>uctive load<br>18 amp<br>25.<br>1-24 22<br>\$4.11 \$:<br>5.11 4.35<br>5.11 4.35<br>5.11 5:<br>. Operate<br>5.11 0<br>. Operate<br>5.11 0<br>. Operate<br>5.37<br>1.124 22<br>\$3.06 \$<br>3.37<br>3.67<br>Price<br>25.49<br>\$3.04<br>3.29<br>3.60<br>POS<br>POS<br>POS<br>POS<br>POS<br>POS<br>POS<br>POS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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Each</b><br>50-99<br>\$2.70<br>2.92<br>3.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Oper-<br>100-249<br>3 3.05<br>3 3.05<br>3 3.05<br>3 3.05<br>3 3.05<br>7 4.00<br><b>AYS</b><br>position.<br>amp con-<br>notinuous.<br>9 100-249<br>5 \$2.15<br>0 2.36<br>4 2.57<br>amps in-<br>100-249<br>\$2.36<br>2.56<br>2.80<br><b>Y</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pressure<br>19A1739<br>19A1741<br>19A1741<br>0<br>19A1741<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| Totally encloved<br>v. continuou<br>ates in any                                                          | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A | 3.9 MA<br>129 AC<br>w connections<br>125 V, 2 HP -<br>236 x 17/6 x<br>Mrg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br>84 AC<br>Totally enclos<br>236 x 13/6 x<br>Contact Rating<br>tinuous, 25 al<br>Stock Mrg<br>No.<br>198179 84-5<br>5/250 V. AC.<br>8 amps contin<br>AC Coll<br>Voltage<br>24<br>120<br>230/240<br>LAC GE                                           | POWER<br>Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>120 VAC<br>24 VAC<br>24 VAC<br>2208/230 VAC<br>GENERA<br>GENERA<br>Voltage<br>002 24<br>003 120<br>004 230/240<br>Inductive Ioa<br>1004<br>SPDT<br>SPDT<br>SPDT<br>SPDT<br>SPDT<br>SPDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| A Y S<br>uctive load<br>18 amp<br>25.<br>1-24 22<br>\$4.11 \$:<br>5.11 4.35<br>5.11 4.35<br>5.11 5:<br>. Operate<br>5.11 0<br>. Operate<br>5.11 0<br>. Operate<br>5.37<br>1.124 22<br>\$3.06 \$<br>3.37<br>3.67<br>Price<br>25.49<br>\$3.04<br>3.29<br>3.60<br>POS<br>POS<br>POS<br>POS<br>POS<br>POS<br>POS<br>POS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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Each</b><br>50-99<br>\$2.70<br>2.92<br>3.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Totally enclo<br>Y. continuou<br>ates in any                                                             | s 1 HP - 1<br>position.<br>Stock<br>Ne.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A | 3.9 MA<br><b>129</b> AC<br>w connections<br>125 V, 2 HP -<br>236 x 1% x<br>Mfg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-908<br>84 AC<br>Totally enclos<br>236 x 1% x<br>Contact Rating<br>tinuous, 25 an<br>98179 84-6<br>198179 84-6<br>198179 84-6<br>5/250 V. AC.<br>8 amps contin<br>AC Coll<br>Voltage<br>24<br>120<br>230/240<br>L AC GE<br>quick connect<br>12 amp con<br>13 amp inr.<br>x 2% x 1% | POWER<br>, Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>20 V/20 VAC<br>208/230 VAC<br>208/240<br>200/240<br>100000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A Y S<br>uctive load<br>18 amp<br>25.<br>7.11<br>4.35<br>5.37<br>4.35<br>5.37<br>4.35<br>5.37<br>4.35<br>5.37<br>4.35<br>5.37<br>4.35<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.304<br>5.3.24<br>5.3.24<br>5.3.24<br>5.3.24<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.3.54<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35<br>5.35                                                                                                                                                                                  | d: 18 amp<br>continuo<br>rices Eact<br>:49 50-93<br>:70 \$3.22<br>:92 3.44<br>:60 4.05<br><b>E REL</b><br>5 in any<br>load: 8<br>5 amps co<br>rices Eact<br>5.49 50-91<br>2.76 \$2.44<br>3.04 2.71<br>3.31 2.99<br>2.76 \$2.44<br>3.04 2.71<br>3.31 2.99<br><b>RELAN</b><br>included,<br>ontact rati<br>125 V. AQ<br>ad: 15 am                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | p at 250<br>us. Oper-<br>100-249<br>3 3.05<br>3 3.58<br>3 3.58<br>5 3.59<br>5 5 3.59<br>5 | Pressure<br>19A1739<br>19A1740<br>19A1741                                                                                                                |
| Totally encloved<br>v. continuou<br>ates in any                                                          | s 1 HP - 1<br>position.<br>Stock<br>No.<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A1<br>19A | 3.9 MA<br>129 AC<br>w connections<br>125 V, 2 HP -<br>236 x 17/6 x<br>Mrg.<br>No.<br>744 129-902<br>745 129-903<br>727 129-906<br>728 129-907<br>729 129-908<br>84 AC<br>Totally enclos<br>236 x 13/6 x<br>Contact Rating<br>tinuous, 25 al<br>Stock Mrg<br>No.<br>198179 84-5<br>5/250 V. AC.<br>8 amps contin<br>AC Coll<br>Voltage<br>24<br>120<br>230/240<br>LAC GE                                           | POWER<br>, Contact ra<br>250 V): resis<br>1%". Shpg.<br>Coil<br>Voltage<br>24 VAC<br>20 V/20 VAC<br>208/230 VAC<br>208/240<br>200/240<br>100000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | REL<br>ting inditive load<br>wit. 5 o.<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT<br>1PDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A Y S<br>uctive load<br>18 amp<br>25.<br>1-24 25<br>\$4.11 \$<br>5.37 5.71 \$<br>JRPOS<br>5.37 5.71 \$<br>JRPOS<br>10021 10<br>1-24 25<br>\$4.11 \$<br>0.09crate<br>1.24 25<br>\$3.06 \$<br>3.37 3.67<br>905E<br>terminals<br>osition. Cir<br>1.25 42<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.05<br>\$3.29<br>\$3.04<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$25<br>\$3.90<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.29<br>\$3.60<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20<br>\$3.20 | d: 18 am<br>continuo<br>rices Eact<br>5-99 50-99<br>3.70 \$3.22<br>3.82 3.44<br>4.60 4.09<br>3.64 4.33<br>5.14 4.57<br><b>BE REL</b><br>5 amps co<br><b>Prices Eact</b><br>5-49 50-99<br><b>2.76</b> \$2.48<br>3.04 2.71<br>3.31 2.99<br>ruous, 18<br><b>S Each</b><br><b>9</b><br><b>\$2.70</b><br>2.92<br>3.20<br><b>\$2.70</b><br>2.92<br>3.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | p at 250<br>us. Oper-<br>100-249<br>3 3.05<br>3 3.58<br>3 3.58<br>5 3.59<br>5 5 3.59<br>5 | Pressure<br>19A1739<br>19A1741<br>19A1741<br>0<br>19A1741<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |

RBM CONTROLS

### \$4.78 143-901 143-902 24 \$4.31 \$3.83 \$3.35 1941816 19A1817 3.35 120 4.31 3.83 19A1818 143-903 208/240 4.78 4.31 3.83 3.35 ct rating inductive load: 25 amp. continuous, 150 amp. inrush @ 277 V. AC ole. Resistive load: 35 amp @ 277 V. AC per pole. With cover. 1-24 Ea. 25-49 Ea. 50-99 Ea. 100-249 Ea. Mfg. No. Coil Voltage No. \$7.20 \$6.40 \$5.60 \$8.00 24 19 143-914 7.20 6.40 6.40 20 143-915 120 8.00 5 60 5.60 208/240 21 143-916 8.00 **75 AC POWER CONTACTORS** Screw terminal contacts (8 solid wire max.) Hardware included. 9" leads on coil. Contact rating inductive load 2 pole rating: 18 amp. continuous, 90 in:ush at 230 V. (2 HP-230 V.) Resistive load: 25 amp - 240 volt per pole. 2½x2½x2½x<sup>2</sup> Shpg. wt. 8 ozs. Prices Each 25-49 50-99 100-249 Stock Mfg. Coil Voltage 1-24 No. No. \$4.59 \$4.14 \$3.68 \$3.22 19A1730 75-901 24 V AC 75-902 75-903 115/120 V. AC 230/240 V. AC 4.59 4.59 4.14 3.68 3.22 19B21 3.68 3.22 19B212 **85 AC POWER CONTACTORS** 14" auxiliary wiring terminals. Straight-through wiring. Contact rating inductive load: 25 amp. continuous. 150 amp. inrush @ 250 V. AC, 12.5 amp. continuous. 75 amp. inrush @ V. AC, 12.5 amp continuous, 75 3½ x 3½ x 2½". Shpg. wt. 8 ozs. AC. Stock Mfg. Coil Prices Each Voltage 1-24 25-49 50-99 100-249 No. No. \$7.56 \$10.80 \$9.72 19A1813 85-901 24 \$8.64 1981814 85.902 120 10.80 9.72 8.64 7.56 19A1815 85-903 208/240 10.80 9.72 8.64 7.56 **10 TO 30 AMP AC INDUSTRIAL CONTACTORS** ebreak contacts. Silver alloy contacts. Replaceable contacts and coll. Hi tric arc resistant contact block and carrier. 50/60 Hz coil, resilient mounting. upes are 3%x2%x3%". Shpg. wt. 5 ozs. C10 10 AMP 4-POLE NORMALLY OPEN Pressure type power terminals, #10 solid wire max. All contacts convert to N.C. Stock Coil **Prices Each** Voltage 1.24 25-49 50-99 100-249 Type \$12.60 12.60 \$10.08 19A1735 C10-901 24 V. AC \$11.34 \$8.82 11.34 8.82 C10-902 C10-903 110 V. AC 220 V. AC 10.08 19A1736 19A1737 12.60 11.34 10.08 8.82 C15 15 AMP 4-POLE NORMALLY OPEN ure type terminals #10 solid wire max. All contacts convert to N.C. Туре **Coil Voltage** 1-24 Ea. 25-99 Ea. 50-99 Ea. 100-249 Ea. 0 C15-901 24 V. AC \$18.72 \$16.85 \$14.98 \$13.11 38 14.98 3 C15-902 110 V. AC 18.72 16.85 C15-903 220 V. AC 18.72 16.85 14.98 13.11 C30 30 AMP 4-POLE NORMALLY OPEN ure type terminals, #8, solid wire max C30-901 C30-902 24 V. AC 110 V. AC 39 \$19.95 \$17.96 \$15.96 \$13.97 40 19.95 17.96 15.96 13.97 41 C30-903 220 V. AC 19.95 17.96 15.96 13.97 TYPE C REPLACEMENT CONTACT ASSEMBLIES Reversing type, 2 sets requireed. Stk. No. Mfg. No. Replaces For Relays 1-2 19A1742 CA901 45997-3-4 C10, C15, CR15 19A1743 CA902 45997-5 C30, CR30 1-24 Per Set 25 Up Per Set 5.76 \$4.33 5.85 TYPE 70 DC POWER CONTACTORS **TYPE 70 DC POWER CONTACTORS** Single pole, normally open. Continuous duty coil. Non-turning studs. Drawn steel dustproof enclosure, copper stud power and coil terminals, double break rotating disc movable contact, solenoid actuated. Contact rating DC inductive load—36 V. max.; normally open 6V. DC, 80 amp continuous, 300 amp inrush; 12 V. DC, 80 amp continuous, 150 amp inrush; 24 to 36 V. DC, 50 amp continuous, 50 amp inrush. Suggested mounting cap down. Size 2½x3½x2½/2″. Wt. 1 lb. h 4 TERMINAL-ISOLATED COIL Coil Resistance Prices Each Mfg. Voltage 1-24 100-249 25-49 50-99 No. Ohms \$2.80 2.80 2.80 \$4.00 \$3.60 \$3.20 6 V. DC 4 'R 70-901 70-902 70-903 4.00 3.20 3.20 12 V. DC 19 3.60 3.60 24 V. DC 60 8 70-904 2.80 34 36 V. DC 114 4.00 3.60 3.20 3 TERMINAL-COIL COMMON TO CASE \$2.80 2.80 2.80 6 V. DC 12 V. DC 24 V. DC \$3.20 3.20 3.20 \$4.00 90 70-913 70-914 4 \$3.60 19 4.00 3.60 91 92 70.915 60 4.00 70.916 2.80 36 V. DC 114 4.00 3 60 3.20 93 3 TERMINAL-COIL COMMON TO LEAD 70-917 70-918 6 V. DC 12 V. DC 2.80 4 19 4.00 3.60 3.20 94 4,00 3.60 3.20 2.80

**143 AC POWER CONTACTORS** Two pole normally open. Screw power terminals (#10 solid wire max.) Auxiliary quick-connect terminals. Straight through wiring. Double break contacts.  $31_{4}x23_{9}x24_{2}m$ , Wt. 8 ozs. Contact rating inductive load: 18 amp. continuous, 90 amp. inrush @ 277 V. AC per pole. Resistive load: 25 amp @ 277

1.24

Prices Each

50-99

3.20

3.20

3.60

3.60

2.80

2.80

25-49

100-249

19A1726 112

91.903

230/240 V. AC

6.33

5.70

5.07

B-A Supplies All RBM Controls in Any Quantity at Direct Factory Prices

19A1797

4.44

70-919

70-920

24 V DC

36 V. DC

60

114

4.00

4.00

**RELAYS AND SOLENOIDS** 



ALL PURPOSE ECONOMY 10 AMP RELAY Compact, lightweight relay capable of unusually heavy power control for its size. Long life, high quality relay, available in a variety of AC and DC voltages with a selection of contact combinations. 10 amp. contacts, 115 V. AC non-inductive load. Tapped for 8-32 single screw mounting. Size,  $1^{1}/_{4''} \times 1^{1}/_{2''} \times 1^{''}$ . Shpg. wt. 4 oz.

|              |               | IR640 60 CYCLE | AC             |             | IR645 DC COILS |               |              |                |             |  |  |  |
|--------------|---------------|----------------|----------------|-------------|----------------|---------------|--------------|----------------|-------------|--|--|--|
| Stock<br>No. | Coil<br>Volts | Mfg.<br>No.    | Cont.<br>Comb. | Net<br>Each | Stock<br>No.   | Coil<br>Volts | Mfg.<br>No.  | Cont.<br>Comb. | Net<br>Each |  |  |  |
| 19A417       | 6             | IR640U-A-6     | SPST           | \$2.90      | 19A430         | 6             | IR645U-A-6   | SPST           | \$2.90      |  |  |  |
| 19A418       | 6             | IR640U-C-6     | SPDT           | 3.15        | 19A431         | 6             | IR645U-C-6   | SPDT           | 3,15        |  |  |  |
| 19A419       | 6             | IR640U-2C-6    | DPDT           | 3.40        | 19A432         | 6             | IR645U-2C-6  | DPDT           | 3.40        |  |  |  |
| 19A420       | 6             | IR640U-4C-6    | 4PDT           | 5.00        | 194433         | 6             | IR645U-4C-6  | 4PDT           | 5.00        |  |  |  |
| 198421       | 24            | IR640U-A-24    | SPST           | 2.90        | 19B265         | 12            | IR645U-A-12  | SPST           | 2.90        |  |  |  |
| 19A422       | 24            | IR640U-C-24    | SPDT           | 3.15        | 19B266         | 12            | IR645U-C-12  | SPDT           | 3.15        |  |  |  |
| 19A423       | 24            | IR640U-2C-24   | DPDT           | 3.40        | 19B267         | 12            | IR645U-2C-12 | DPDT           | 3.40        |  |  |  |
| 19A424       | 24            | IR640U-4C-24   | 4PDT           | 5.00        | 19B268         | 12            | IR645U-4C-12 | 4PDT           | 5.00        |  |  |  |
| 19A425       | 115           | IR640U-A-115   | SPST           | 2.90        | 198434         | 24            | IR645U-A-24  | SPST           | 2.90        |  |  |  |
| 19A426       | 115           | IR640U-C-115   | SPDT           | 3.15        | 19A435         | 24            | IR645U-C-24  | SPDT           | 3.15        |  |  |  |
| 19A427       | 115           | IR640U-2C-115  | DPDT           | 3.40        | 19A436         | 24            | IR645U-2C-24 | DPDT           | 3.40        |  |  |  |
| 19A428       | 115           | IR640U-4C-115  | 4PDT           | 5.00        | 19A412         | 24            | IR645U-4C-24 | 4PDT           | 5.00        |  |  |  |



''l'' Intermittent types can be energized up to 5 minutes. ''C'' continuous duty types for unlimited time, if operated within power rating. Plunger has slotted end with  $\frac{1}{16}$ " hole for coupling. \*Maximum lift at minimum stroke.

| Stock<br>No.                                                                                    | Mfg.<br>No.                                                                | Duty             | Volts                                                    | AC<br>or DC                                        | 0hms                                                             | Amps                                                               | Adj.<br>Stroke                                                                                                                                                                                            | * Max.<br>Lift                                                                                   | Bo<br>L.                                                                                                                                                             | dy Size<br>W. H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Wt.<br>Oz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------|----------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| 19B142<br>19B143<br>19B144<br>19B153<br>19B155<br>19B155<br>19B156<br>19B165                    | 11<br>11<br>11<br>11<br>11<br>11<br>11<br>11                               | - C - C<br>C - C | 6<br>24<br>24<br>24<br>115<br>115                        | DC<br>AC<br>AC<br>DC<br>AC<br>AC                   | 2<br>5.1<br>12<br>72<br>125<br>300                               | 3.00<br>1.2<br>1.10<br>.33<br>.225<br>.072                         | $\frac{1}{8} \cdot \frac{7}{8}$<br>$\frac{1}{8} \cdot \frac{5}{8}$<br>$\frac{1}{8} \cdot 1$<br>$\frac{1}{8} \cdot 1$<br>$\frac{1}{8} \cdot \frac{5}{8}$<br>$\frac{1}{8} \cdot 1$<br>$\frac{1}{8} \cdot 1$ | 34 oz.<br>25 oz.<br>26 oz.<br>10 oz.<br>25 oz.<br>26 oz.<br>10 oz.                               | 1%6<br>1%6<br>1%6<br>1%6<br>1%6<br>1%6<br>1%6                                                                                                                        | $1^{27}_{12} 1^{3}_{12} 1^{3}_{12} 1^{3}_{12} 1^{3}_{12} 1^{3}_{12} 1^{3}_{12} 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7.5<br>16 7.5<br>16 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 19B169                                                                                          | 12                                                                         | С                | 115                                                      | AC                                                 | 150                                                              | .155                                                               | 1/8 · 7/8                                                                                                                                                                                                 | 22 oz.                                                                                           | 15⁄8                                                                                                                                                                 | 11% 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 198103<br>198170                                                                                | 14<br>14                                                                   | l<br>C           | 115<br>115                                               | AC<br>AC                                           | 11<br>18                                                         | 1.4<br>.52                                                         | $\frac{1}{8} \cdot \frac{11}{2}$<br>$\frac{1}{8} \cdot \frac{11}{2}$                                                                                                                                      | 110 oz.<br>65 oz.                                                                                | 2%<br>2%                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 19874                                                                                           | 16                                                                         | С                | 115                                                      | AC                                                 | 85                                                               | .19                                                                | 1/8 . 3/4                                                                                                                                                                                                 | 50 oz.                                                                                           | 1 5⁄8                                                                                                                                                                | 11/8 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3.68                                                           |
| 19B186<br>19B90                                                                                 | 18<br>18                                                                   | L<br>C           | 115<br>115                                               | AC<br>AC                                           | 8.8<br>19.7                                                      | 1.45                                                               | $\frac{1}{8} \cdot \frac{1}{1}$                                                                                                                                                                           | 280 oz.<br>145 oz.                                                                               | 21/2<br>21/2                                                                                                                                                         | 11% 2<br>11% 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 198285<br>198286                                                                                | 18<br>18                                                                   | I<br>C           | 230<br>230                                               | AC<br>AC                                           | 45<br>78                                                         | .59<br>.20                                                         | <sup>1</sup> / <sub>8</sub> -1<br><sup>1</sup> / <sub>8</sub> -1                                                                                                                                          | 280 oz.<br>145 oz.                                                                               | 21/2<br>21/2                                                                                                                                                         | 11% 2<br>11% 2                                                                         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| 19A328<br>19A337                                                                                | 22<br>22                                                                   | C                | 6<br>24                                                  | DC<br>DC                                           | 9<br>60                                                          | .66<br>.40                                                         | 1/6- 1/4<br>1/6- 1/4                                                                                                                                                                                      | 13 oz.<br>24 oz.                                                                                 | $1\frac{1}{8}$<br>$1\frac{1}{8}$                                                                                                                                     |                                                                                        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| 19A375                                                                                          | 24                                                                         | С                | 115                                                      | AC                                                 | 500                                                              | .07                                                                | 1/16- 5/8                                                                                                                                                                                                 | 10.5 oz.                                                                                         | 11/4                                                                                                                                                                 | 27/32 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3.41                                                           |
| 19A23<br>19A24<br>19A25<br>19A27<br>19A43<br>19A44<br>19A44<br>19A47<br>19A58<br>19A65<br>19A68 | 28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28 |                  | 24<br>24<br>115<br>115<br>6<br>6<br>12<br>12<br>24<br>24 | AC<br>AC<br>AC<br>DC<br>DC<br>DC<br>DC<br>DC<br>DC | 7.5<br>17.4<br>220<br>400<br>3.3<br>7.7<br>13<br>27<br>50<br>104 | .9<br>.34<br>.16<br>.077<br>1.8<br>.78<br>.92<br>.45<br>.48<br>.23 | X6 4/2<br>X6 4/2<br>X6 4/2<br>X6 4/2<br>X6 4/2<br>X6 4/2<br>X6 4/2<br>X6 3/8<br>X6 1/2<br>X6 3/8<br>X6 1/2<br>X6 3/8                                                                                      | 35 oz.<br>20 oz.<br>35 oz.<br>20 oz.<br>41 oz.<br>24 oz.<br>41 oz.<br>24 oz.<br>41 oz.<br>24 oz. | $1\frac{1}{8}$ | 13% 1<br>13% 1<br>13% 1<br>13% 1<br>13% 1<br>13% 1<br>13% 1<br>13% 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | K. 3.5<br>K. | 3.15<br>3.41<br>2.94<br>2.94<br>2.94<br>2.94<br>2.94<br>2.94   |
| 19C282<br>19C254                                                                                | 34<br>34                                                                   | 1                | 115<br>6                                                 | AC<br>DC                                           | 400<br>4.3                                                       | .11<br>1.4                                                         | $\frac{1}{16^{-1/2}}$                                                                                                                                                                                     | 15 oz.<br>17 oz.                                                                                 | 1 ½<br>1 ½                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 190254  | 34  | 1      | 6   | DC    | 4.3  | 1.4    | /16* /16                                | 17 02.   | 1 78   | -74  | 1%4   | £.J   |         |
|---------|-----|--------|-----|-------|------|--------|-----------------------------------------|----------|--------|------|-------|-------|---------|
|         |     |        |     | GUAR  | DIAN | DIS    | COUNT S                                 | CHEDU    | LE     |      |       |       |         |
| 25-49 0 | fal | kind 1 | 0%: | 50.99 | ofal | kind 1 | rices of al<br>15%; 100-<br>distributor | 249 of a | ı kind | 20 % | 6; 25 | iO an | d up  - |

### 5.70 6.75 6.39 19A1840 323A10-115 3PDT Plug-In Write for quotation on bulk relays in larger quantities.

3 ozs.

Stock

No.

19A1837

19A1838

1941839









Mfg.

No.

302A10-115

303A10-115 312A10-115

CORNELL DUBILIER 10 AMP RELAYS TOP QUALITY AT LOWER COST!

Fast acting reliable relays. 115 V.A.C. Open type is  $1\times1^{2}\%_{2}\times1\%_{2}$ . H, with single 6-32 threaded mounting stud; Plug-in is 13%''x13%''x2'' H. DPDT plug-in has octal base. 3PDT plug-in has 11 pin base. Designed to UL specifications. Shpg. wt.

Style

Open

Onen

Plug-In

Con

tacts

DPDT

3PDT

DPDT



Prices Each

\$3.52

3.94

5.42

25-49 50-99

\$3.33 3.74

5 13

### **GUARDIAN STEPPERS**

1-24

\$3.70

4.15

For accurate sequence selecting, pulse multiplying, pulse dividing, circuit select-ing, counting and latching. Direct drlve. Switching operations completed upon energization.

① MER 24 POINT ELECTRICAL RESET STEPPER. Capable of counting up to 21 then resetting automatically. Can be reset to zero by 10 MS or longer impulse to reset coil. Two or more may be interconnected to increase count as desired. Size  $2\%_* \times 3\%_*' \times 2\%_*'$  N. Contacts 1/2 amp. Intermittent duty ocil. Wt. 11/2 ozs. No. 19A547. MER-120 V. AC. 20 steps per second. Each \$15.75

(2) IR-MC 24 POINT MIDGET. Continuous rotation stepper with 24 points. For circult selecting. Contacts  $1\frac{1}{2}$  amp. Intermittent duty coil. Size  $3\frac{1}{4} \times 3 \times 2\frac{3}{6}$ " H.

Wt. 91/2 ozs. No. 19A471. IR-MC-120 V. AC, 20 steps per second. Each..... . \$14.75

() LATCHING ON/OFF RELAY. Midget Latching relay for use on 115 V. AC. Provides positive on-off control for positioning devices; remote controls, lighting circuits, etc. 5 amp contacts, snap action switching. Short duration pulse reverses switch and holds last position with coil de-energized. Size 2% x 1% x 15%". Intermittent duty coil. Wt. 4 ozs.

| Stk. No. | Volts     | Mfg. No.    | Contacts | Net Each |
|----------|-----------|-------------|----------|----------|
| 19A376   | 115 V. AC | IR640L-A120 | SPST     | \$4.45   |
| 19A398   | 115 V. AC | IR640L-C120 | SPDT     | 4.75     |

### IMPULSE RATCHET RELAYS

### INTERLOCKING AC RELAYS

TYPE IR-1200/1200. Used to maintain circuits continuously without coil power consumption. Unit is electrically pulse operated with mechanical hold and electrical release. 10 amp contacts 60 cycle, non-inductive. Size 11% x1% x3% ". Wt. 5.5 oz.

Stk. No. Mfg. No. Contacts Volts 198549 IR-1200/1200-4C-1208 4PDT 115 V. AC Each \$10.40 **1** GUARDIAN 1210 AC PLUG-IN RELAYS

Enclosed in lexan transparent case. DPDT has octal base, 3PDT has 11 pin base. Rated 10 amps 60 Hz., 115 VAC non-inductive load. 2<sup>3</sup>X<sub>3</sub>x13/ax13/a". Shpg. wt. 3.5 ozs.

| et<br>ch | tion Ea | Contac<br>Combina | Mfg. No.     | Coil<br>Volts | Stock<br>No. |
|----------|---------|-------------------|--------------|---------------|--------------|
| 00       | \$6.    | DPDT              | 1210-2C-6A   | 6 AC          | 19A1831      |
| 00       |         | DPDT              | 1210-2C-24A  | 24 AC         | 19A1832      |
| 00       |         | DPDT              | 1210-2C-120A | 120 AC        | 19A1833      |
| 50       |         | 3PDT              | 1210-3C-120A | 120 AC        | 19A1834      |
| 25       | 6       | DPDT              | 1210-2C-240A | 230 AC        | 19A1835      |
| )        | LAMF    | NEON              | BUILT-IN     | WITH          | 2            |
|          |         |                   |              |               |              |

Used for indicating circuit faults, For 120 V. AC operation. Rated 10 amps. \$6.75 120 V. AC 1210N-2C-120A DPDT 19A1836

### CONTROLS COMPANY CONSTANT DUTY SOLENOIDS

Type 801, 812, 813, 821, and 831 are heavy duty solenoids of superior quality for operating valves, clutches, switches, interlocks and mechanical controls. Features "double T" plunger design, moisture proof coil molded in Epoxy plastic, screw terminals. Type 860. Compact unit where a small size is required. \*Maximum pull pounds shown at  $\chi_{6}$ " stroke.

| 801-821-8                                                                 | 12-813                                                                                   | 831                                                  |                                               | 860                                      |                                                              |                                                                |                                                          |                                                |                                                        |                                                                |                                                        |                                                        |                                                |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------|------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|------------------------------------------------|
| Stock<br>No.                                                              | Mfg.<br>No.                                                                              | AC<br>Volts                                          | Max.<br>Stroke                                | *Max.<br>Pull Lbs.                       | L.                                                           | Overall Size<br>W.                                             | н.                                                       | 1-24                                           | 25-49                                                  | 50-99                                                          | s Each<br>100-249                                      | 250-499                                                | 500-999                                        |
| 19A5000<br>19A5001<br>19A5002<br>19A5003<br>19A5004<br>19A5005<br>19A5005 | 801-101-2<br>812-101-2<br>813-101-2<br>813-103-2<br>821-101-2<br>821-103-2<br>831-101-11 | 115<br>115<br>220<br>115<br>220<br>115<br>220<br>115 | 5%8<br>1%6<br>1%6<br>1%6<br>1%8<br>1%8<br>1%8 | 4.5<br>12<br>15<br>15<br>29<br>29<br>7.0 | 15/8<br>21/2<br>21/2<br>21/2<br>27/8<br>27/8<br>27/8<br>25%4 | 1%<br>1%<br>2%<br>2%<br>2%<br>2%<br>2%<br>2%<br>2%<br>2%<br>2% | 1 <sup>1</sup> %2<br>2<br>2<br>2 <sup>1</sup> %6<br>2.23 | \$3.90<br>5.15<br>6.00<br>7.65<br>7.65<br>8.05 | \$3.40<br>4.60<br>5.20<br>5.20<br>6.80<br>6.80<br>7.24 | \$3.20<br>4.40<br>4.85<br>4.85<br>6.20<br>6.20<br>6.24<br>2.00 | \$3.05<br>4.10<br>4.55<br>4.55<br>5.80<br>5.80<br>1.90 | \$2.65<br>3.55<br>3.80<br>3.80<br>4.85<br>4.85<br>4.85 | \$2.35<br>3.30<br>3.50<br>4.50<br>4.50<br>1.45 |
| 19A5010                                                                   | 860-201-3                                                                                | 115                                                  | 1/2                                           | .5                                       | 11/8                                                         | 3/4                                                            | 13⁄8                                                     | 2.35                                           | 2.30                                                   | 2.00                                                           | 1.90                                                   | 1.65                                                   | 1.4                                            |

Burstein-Applebee Co., 3199 Mercier St., Kansas City, Mo. 64111

# **POWER INVERTERS, DC POWER SUPPLIES**

### **NEW SOLA "COLOR VOLT"** COLOR TELEVISION VOLTAGE REGULATOR



Operates automatically ... turns "on and off" with your regular TV switch. Safeguards against changes in line volt-age that cause bad TV pictures. Prevents "shakes", "flips" "rolls", "flashes", "shrinks", "fades', or color changes often brought on or aggravated by the "on and off" operation of your normal household appliances, air conditioners, etc. Also prevents line voltage increases which can seriously shorten the life of tubes, transistors, picture tube and other components in your TV set. Simple plug-in installation, operates silently. Input voltage range 95 to 130 volts AC 60 Hz. Output constant 117 V. AC, 375 watts capacity. In attractive wood grained metal enclosure. 8½ x 4½ x 6½" H, Wt. 13 Ibs. Mig. List \$59.95 No. 13A8025. Net Each. \$40.21 No. 13A8025. Net Each.

### **TERADO MOBILE POWER INVERTERS**



FDR BOATS --- CARS --- TRAILERS CABINS --- CAMPERS • Provides 117 V. home electricity any

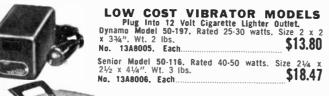
where. Each unit has standard AC receptacle. Operates from 12 volt battery.

Transistorized Models for frequency sensitive equipment, such as tape recorders. Output 60 cy.  $\pm$  1/2 cy. With remote control switch and battery cables. Copper clad case. Atlas Model 50-200, Rated 175 watts con-

tinuous, 200 watts intermittent. Size x 6 x 6". Shpg. wt. 21 lbs. 103 \$114.53 No. 13A8001. Each ....

Continental Model 50-191. Rated 275 watts continuous, 300 watts intermittent. Size 103/4 x 6 x 6". Shpg. wt. 30 lbs. No. 13A8003. Each \$158.40

Galaxy Model 50-205. For equipment not sensitive to frequency. Ideal for radio, lights, etc. Lug terminals for connecting input voltage. Rated 140 watts continuous. 175 watts intermittent.  $10.34 \times 6 \times 6''$ . \$46.94 No. 13A8004. Shpg. wt. 11 lbs. Each.



### TERADO TRAV-ELECTRIC COMPLETELY SELF CONTAINED 117 V. AC POWER SUPPLY

117 V. AC POWER SUPPLT Model 50-160 Complete. Contains inverter with battery and automatic recharger. Output 117 volts 60 cy. AC, 125 watts continuous, 175 intermittent. Meter shows charge rate. Frequency controlled. Battery: 25 amp hr. wet storage. Charger operates on 110 V. AC or 12 volts (cigarette lighter socket), 6 amp rate automatically tapers to 0, will not overcharge. Copper clad case  $12 \times 54^{1} \times 8^{\prime\prime}$ . Wt. 30 lbs. Shpg. wt. 36 lbs. **\$74.19** No. 13A8002. Each.

|          |                  |                  |                | ALLIED<br>R   | CON<br>Elays |            |
|----------|------------------|------------------|----------------|---------------|--------------|------------|
| r154     | BO               | V                | PO             |               |              |            |
| 154 DC   | Relays. Miniatur | e enclosed       | type 1 amo     | 115 VAC /     | ontacte      |            |
|          | OPDT             | (Use 300         | 55-1 Socket) 1 | 115 VAG (     | H.           |            |
| itk. No. | Mfg. No.         | Volts            | 1-9 Ea.        | 10-49 Ea.     | 50-99 Ea.    | 100 Up Ea  |
| 9A1772   | T154-2C          | 6 DC             | \$3.25         | \$2.92        | \$2.44       | \$2.27     |
| 9A1773   | T154-2C          | 12 DC            | 3.25           | 2.92          | 2.44         | 2.27       |
| 9A1774   | T154-2C          | 24 DC            | 3.25           | 2.92          | 2.44         | 2.27       |
| 9A1775   | T154-2C          | 48 DC            | 3.25           | 2.92          | 2.44         | 2.27       |
|          | T154-2C          | 115 DC           | 4.95           | 4.45          | 3.71         | 3.46       |
| 9A1777-3 | 0055-1 Socket f  | or 2C            | .55            | .50           | .43          | .38        |
|          | 4PDT             | (Use 3005!       | 5-2 Socket) 11 | x 111 x 119"  | н.           |            |
| 9A1778   | 1154-4C          | 6 DC             | \$3.63         | \$3.27        | \$2.72       | \$2.54     |
| 9A1779   | T154-4C          | 12 DC            | 3.63           | 3.27          | 2.72         | 2.54       |
| 9A1780   | T154-4C          | 24 DC            | 3.63           | 3.27          | 2.72         | 2.54       |
| 9A1781   | T154-4C          | 48 DC            | 3.63           | 3.27          | 2.72         | 2.54       |
| 9A1782   | T154-4C          | 115 DC           | 5.33           | 4.80          | 3.99         | 3.73       |
| 9A1783-3 | 0055-2 Socket f  | or 4C            | .60            | .55           | .46          | .42        |
|          | 0055-8 Socket f  |                  |                |               |              |            |
| with lor | nger center tern | ninals.          | .70            | .64           | .54          | .49        |
| O Series | Power Types. E   | <b>PDT</b> heavy | duty power re  | elay. 15 am   | D. 15/8 x 11 | 2 x 118" 1 |
| 3A1/84   | DU-DA            | 6 AG             | \$5.80         | \$5.22        | \$4.35       | \$4.06     |
|          | BO-6A            | 24 AC            | 5.80           | 5.22          | 4.35         | 4.06       |
| 9A1786   | BO-6A            | 115 AC           | 5.80           | 5.22          | 4 35         | 4.06       |
| O Series |                  | T 15 amp         | contacts. 133  | x 2 . x 21/4" | H. Wt. 7.    |            |
| 9A1787   | PO-12A           | 115 AC           | \$7.90         | \$7.11        | \$5.92       | \$5.53     |

### TRIPPLITE HEAVY DUTY DC TO AC SOLID STATE POWER INVERTERS





115 V. AC INVERTER AND 12 V. BATTERY CHARGER SUPPLIES PORTABLE POWER FOR RADIDS, LIGHTS & TOOLS

MODEL PV200B

EXTRA HIGH POWER MODEL PV-450B. 450 W. Continuous — 500 W. Intermittent. 115 V. AC from 12 V. DC input. Also has built-in 12 V. battery charger. All solid state, 10 power switching transistors. Built-in ammeter shows amps battery load, also battery charging rate. Max. charge 10 amps. Neon pilot warns of overloads. Operates hash-free. Size 9¼ x 10 x 5¼". Shpg. wt. 12 lbs. \$118.00 \$118.00 No. 13A8024. Net Each

NOTE: Tripplite Inverters above are recommended for lighting, small power tools, electric razors, tape recorders, radios, TV, phonographs, test equipment, etc. Do not use with refrigerators, air conditioners, toasters, coffee pots, fry pans and other heavy current devices.

VIKING ENGINEERING REGULATED DC POWER SUPPLIES FOR SOLID STATE DEVICES



Professional, dependable low voltage power supplies for schools, commercial engi-neering, research and development, home shops, experimenting. Special stabilized solid state circuitry provides exceptional regulation and low ripple content. **MODEL P2-131-A.** 200 MA GENERAL PURPOSE SUPPLY. Metered regulated output 5-25 V. DC. Features electronic current limiting protecting supply against short circuits. Isolated "floating" output on standard 34" spacing allows either positive or nega-tive grounding. Input 110-125 V. 60 Hz Line regulation ± 10 MV, load regulation 50 MV. AC ripple 1 MV max. Impedance 0.25 ohm. Size 44/2 x 24/2 x 5". Shop, wt. 31 lbs ž lbs. \$39.95

No. 13A8026. Net Each \$69.95 No. 13A8027. Net Each

**MODEL P2-451-C.** DUAL  $\pm$  **15 V. 300 MA OP AMP SUPPLY.** Metered, regulated dual outputs  $\pm$  .5-15 V. DC or 1 to 30 V. DC at currents to 300 MA. Line regulation  $\pm$  10 MV, load regulation 50 MV. AC ripple 1 MV max., impedance 0.2 ohm. Features individual current limiting for each section and "floating" output on standard 34" spaced jacks. 3 wire line cord. 110-125 V. 60 Hz input. 51/2 x 3 x 1/2". Shpg. wt. 6 lbs. \$69.95 No. 13A8028. Net Each



**MODEL P2-121 REGULATED EXPERIMENTERS POWER SUPPLY.** Variable output 0-15 V. DC "t 100 MA. Fully regulated  $\pm$  .2 V. AC ripple 5 MV max. Features burnout proof circuitry, transformer isolation. Featured in Electronics Illustrated. Designed especially for experimenters, schools, service men and designers working with modern solid state devices. Input 110-125 V. AC 60 Hz. Size 64 x 334 x 2".

| No. 13A8029.<br>Factory Wired                                                           | \$19.95             |
|-----------------------------------------------------------------------------------------|---------------------|
| No. 13A8030.<br>Easy to Wire Kit                                                        | #1E 0E              |
| MODEL PZ-131C. Similar to PZ-121 above except higher output 5-15 v                      | <b>.</b><br>/ @ 350 |
| MV, load regulation 50 MV, AC ripple 1 MV may impedance 25 obm inc.                     | tion + 10           |
| V. AC 60 Hz. Size 41/2 x 21/2 x 4". Shpg. wt. 3 lbs.<br>No. 13A8031. Factory Wired Only | \$39.95             |

Call B-A Industrial Dept. (816) 561-5460







Type 21











Type 108

Type 1168U, 1178U, Type 126U, 1368U, 2168U, 2178U 2368U, 226U

Type 3PN126, 3PN1368

### SUPERIOR POWERSTAT VARIABLE TRANSFORMERS WITH "POWRKOTE" HIGH TEMPERATURE INSULATED COILS

Type 146U

For precise variable AC voltage control from zero up to or above line voltage with full rated current available over the entire range. Design is highly efficient auto-former type with single winding over toroidal core. Extremely low heating, zero waveform distortion and excellent regulation from no load to full load. Gold alloy plated commutator, virtually maintenance free.

### Uncased open construction Powerstats 10B thru 236BU are panel mounting. Portable types 3PN116B thru 3PN136B are enclosed with 3 wire input cord and output receptacle; 116B enclosed with 2 wire cord and output receptacle; 146 thru 1256D are cased with exposed terminals.

Current and KVA is maximum for a constant-current load.

240 50/60 0-280 28

|                  |               | OPE               | N COI          | NSTR           | UCTIO          | DN         | POWE         | RSTATS        |             |                |
|------------------|---------------|-------------------|----------------|----------------|----------------|------------|--------------|---------------|-------------|----------------|
| Stock<br>No.     | Mfg.<br>No.   | In<br>Volts       | put<br>Hertz   | Ou<br>Voits    | tput<br>Amps   | KVA        | Dia,         | Size<br>Depth | Shpg.<br>WL | Net<br>Each    |
| 13A941           | 108           | 120<br>120        | 50/60<br>60    | 0-120<br>0-132 | 2.25           | .27<br>.30 | 213"         | 2늡"           | 2.5 Lbs.    | \$12.00        |
| 13A942           | 21            | 120<br>120        | 50/60<br>50/60 | 0-120          | 4.5            | .54        | 33/4"        | 3,4//         | 6 Lbs.      | 18.00          |
| 138943           | 116BU         | 120<br>120        | 50/60<br>50/60 | 0-120          | 10<br>10       | 1.2        | 5//          | 43/8"         | 12 Lbs.     | 23.00          |
| 13A944<br>13A945 | 117BU<br>126U | 120<br>120<br>120 | 60<br>50/60    | 0-120          | 12<br>15       | 1.4        | 5″           | 43%           | 12 Lbs.     | 25.00          |
|                  | 136BU         | 120               | 50/60<br>50/60 | 0-140          | 15<br>15<br>22 | 2.1        | 6″           | 4 <u>5</u> ″  | 18 Lbs.     | 43.00          |
| 13A917           |               | 120<br>120        | 50/60          | 0-140          | 22             | 3.1<br>3.6 | 6 <b>%</b> ″ | 4 <u>1</u> ," | 26 Lbs.     | 63.00          |
| 13A918           | 1460          | 120<br>120        | 50/60<br>50/60 | 0-120          | 30<br>30       | 4.2        | 911"         | 433"          | 38 Lbs.     | 102.00         |
| 13A946           | 216BU         | 240<br>240        | 50/60<br>50/60 | 0-240          | 3.5<br>3.5     | .84<br>.98 | 5"           | 43%"          | 12 Lbs.     | 28.00<br>30.00 |
| 13A919<br>13A920 | 217BU<br>226U | 240<br>240        | 60<br>50/60    | 0-240<br>0-240 | 5<br>7.5       | 1.2<br>1.8 | 5″           | 43%8″         | 12 Lbs.     | 43.00          |
| 134921           | 236BU         | 240<br>240        | 50/60<br>50/60 | 0-280<br>0-240 | 7.5<br>10      | 2.1<br>2.4 | 6″           | 452"          | 18 Lbs.     | 63.00          |
|                  |               | 240               | 50/60          | 0-280          | 10             | 2.8        | 6 <b>%</b> ″ | 4 18"         | 26 Lbs.     | 63.00          |

### EICO LOW-RIPPLE DC POWER SUPPLIES



### MODEL 1064S BATTERY ELIMINATOR AND CHARGER Improved Design with Reliable Silicon Rectifiers

Improved Uesign with Keilable Silicon Kectifiers Delivers ripple free DC in two ranges. 0-8 volts and 0-16 volts continuously vari-able by front panel control adjustment of variable transformer. Ideal for servicing transistor equipment, auto radios, portables, as battery substitute or battery charger. Ranges (selected by toggle switch) 0-8 volts at 10 amp continuous, 20 amp intermittent and 0-16 volts at 6 amps continuous, 10 amp intermittent. Dutput voltmeter and ammeter permits constant monitoring. Fused primary, automatic reset overload relay on secondary. Cabinet size  $8\frac{1}{2} \ge 5\frac{3}{4} \times 7\frac{1}{2}^{\prime\prime}$ . Wt. 16 lbs. Use on 117 volts AC 50-60 cycle line.

| 35A272.<br>35A273. | 106451 | ( K1) F | ach | \$49.95<br>Each\$64.95 |
|--------------------|--------|---------|-----|------------------------|
|                    |        |         |     |                        |

### MODEL 1020 TRANSISTOR POWER AND BIAS SUPPLY

Ni Ni

 MUDEL TO20 TRANSISTOR FORE AND DIAS SOFTENES.
 Continuously variable 0-30 voits monitared by dual range voitmeter.
 Versatile, stable, transistorized, capable of up to 300 MA.
 Ideal bench unit which will supply all voltage needed to operate transistor devices, variable bias supply. DC filament supply and to recharge batteries of various kinds. Dutput voltage continuously variable from 0-30. Current rating 150 MA from 0 to 12 volts. 200 MA from 12 to 24 and 300 MA from 24 to 30. Extremely low ripple 120 cps. at full load is only 0.005%. Silicon rectifier. Size 5 x 4 x 5½2". Housed in gray steel cabinet. Fuse protected. Wt. 5 lbs. \$25.95

### MODEL 1025 TRANSISTOR POWER SUPPLY

Similar to Model 1020 above except has output current meter as well as output voltmeter. Ranges same as 1020. Size  $334 \times 8 \times 434''$ . \$34.95

### 

EICO 1030 VARIABLE REGULATED POWER SUPPLY

### FOR LABS-SCHOOLS



|              | PORTAI      | BLE          | PLUG-          | IN PO          | OWER         | STA        | TS W/        | 2 WIRE             | CORD         |             |
|--------------|-------------|--------------|----------------|----------------|--------------|------------|--------------|--------------------|--------------|-------------|
| Stock<br>No. | Mtg.<br>No. | lı<br>Volts  | nput<br>Hertz  | Out<br>Votts   | tput<br>Amps | KVA        | Dia.         | Size<br>Depth      | Shpg.<br>Wt. | Net<br>Each |
| 13A937       | 1168        | 120<br>120   | 50/60<br>50/60 | 0-120<br>0-140 | 10<br>10     | 1.2<br>1.4 | 5″           | 5%"                | 12 Lbs.      | \$32.00     |
|              | PORTA       | BLE          | PLUG-          | IN PO          | OWEF         | RSTA       | TS W/        | 3 WIRE             | CORD         |             |
| 138922       | 3PN116      | 3 120<br>120 | 50/60<br>50/60 | 0-120          | 10<br>10     | 1.2        | 5//          | 55%                | 12 Lbs.      | 37.00       |
| 134923       | 3PN117      |              | 60             | 0-120          | 12           | 1.4        | 5″           | 55/8″              | 12 Lbs.      | 41.00       |
| 134924       |             | 120<br>120   | 50/60          | 0-120<br>0-140 | 15<br>15     | 1.8<br>2.1 | 6 <u>3</u> ″ | 53/8″              | 18 Lbs.      | 61.00       |
| 13A925       | 3PN136      | B 120<br>120 | 50/60<br>50/60 | 0-120<br>0-140 | 22<br>22     | 2.6<br>3.1 | 73⁄4″        | 6 <sup>1</sup> /8″ | 26 Lbs.      | 88.00       |
|              | CASE        | ) P(         | WERS           | TATS           | WITI         | H EX       | POSE         | D TERM             | INALS        |             |
| 134938       | 146         | 120<br>120   | 50/60<br>50/60 | 0-120<br>0-140 | 30<br>30     | 3.6        | 911"         | 63%8″              | 38 Lbs.      | 108.00      |
| 138939       | 1156D       | 120<br>120   | 50/60          | 0-120<br>0-140 | 50<br>50     |            | 13%"         | 731"               | 82 Lbs.      | 162.00      |
| 13A940       | 1256D       | 240          |                | 0-240          | 28           | 6.7        | 1276//       | 723//              | 82   he      | 162.00      |





7.8 137/8"

733"



82 Lbs. 162.00

### (1) STANDARD SINUSOIDAL TYPE CVS

Harmonic-free, static-magnetic line voltage regulators having ultra-fast regulating action. Response time 1.5 cycles or less. Dutput voltage constant within  $\pm$  1% with input voltage variation as great as  $\pm$  15%. Less than 3% total RMS harmonic content in output. All have exposed core, end housings and screw terminals in outlet box. Parallel units of same type to increase output. Regulation effective at from 20% to 100% of full load rating.

SHIPPING WEIGHTS: 30 VA 8 lbs., 60 VA 10 lbs., 120 VA 14 lbs., 250 VA 28 lbs., 500 VA 45 lbs., 1000 VA 72 lbs., 2000 VA 140 lbs., 3000 VA 194 lbs., 5000 VA 335 lbs.

| Stock<br>No. | Mfg.<br>No. | *Input<br>Volts | Output<br>Volts | Volts-<br>Amps | L.    | Size<br>W. | Н.   | Prices<br>1-4 | Each<br>5-9 |
|--------------|-------------|-----------------|-----------------|----------------|-------|------------|------|---------------|-------------|
| 13A913       | 23-13-030-2 | 95 to 130       | 118             | 30             | 61/1  | 4          | 5 🚠  | \$30.05       | \$27.05     |
| 13A926       | 23-13-060-2 | 95 to 130       | 118             | 60             | 611   | 4          | 5 🚠  | 35.62         | 32.05       |
| 13A927       | 23.22.112.2 | Note 1          | 118             | 120            | 81/   | 4          | 5.   | 45.63         | 41.08       |
| 13A928       | 23-22-125   | Note 1          | 118             | 250            | 95/8  | 53/8       | 71   | 62.33         | 56.10       |
| 13A929       | 23-22-150   | Note 1          | 118             | 500            | 12 14 | 9          | 616  | 96.83         | 87.15       |
| 13A930       | 23-25-210   | Note 2          | 118 & 236       | 1000           | 17%   | 9          | 61   | 162.50        | 148.25      |
| Note 3       | 23-25-220   | Note 2          | 118 & 236       | 2000           | 19%   | 1011       | 932  | 294.95        | 265.45      |
| Note 3       | 23-25-230-3 | Note 2          | 118 & 236       | 3000           | 21%   | 1011       | 932  | 396.23        | 356.61      |
| Note 3       | 23-25-250   | Note 2          | 118 & 236       | 5000           | 2013  | 10         | 9,12 | 618.83        | 556.95      |

### () NORMAL HARMONIC TYPE CVN

Provide the same  $\pm 1\%$  regulation as the Sinusoidal series. Dutput contains average of 20% rms harmonic content. Recommended for electrical loads not affected by harmonics, such as solenoids, relays, heaters, filaments and where rectification is required.

| Stock<br>No. | Mfg. No.    | Input<br>Volts | Output<br>Volts | Volt<br>Amps | . L.  | Size<br>W.      | н.    | Prices<br>1-4 | Each<br>5-9 |
|--------------|-------------|----------------|-----------------|--------------|-------|-----------------|-------|---------------|-------------|
| 134972       | 20-13-030-2 | 95-130         | 118             | 30           | 5%    | 4               | 5%    | \$24.49       | \$22.04     |
| 134973       | 20-13-060-2 | 95-130         | 118             | 60           | 61%   | 4               | 53/16 | 30.05         | 27.05       |
| 13A974       | 20-13-112-2 | 95-130         | 118             | 120          | 7%    | 4               | 5%    | 40.07         | 36.08       |
| 13A975       | 20-22-125   | Note 1         | 118             | 250          | 111/4 | 61%             | 6%    | 58.99         | 53.10       |
| 13A976       | 20-22-150   | Note 1         | 118             | 500          | 12%   | 61%             | 6%    | 92.38         | 83.15       |
| 13A977       | 20-22-210   | Note 1         | 118             | 1000         | 151/4 | 6' <del>%</del> | 6%    | 153.59        | 138.23      |
|              | 20-22-210   |                |                 |              |       |                 |       |               | 2) thre     |

\*Input Volts: Note (1) dual range, 95 to 130 and 190 to 260 volts; Note (2) three range input, 95 to 130, 175 to 235 and 190 to 260 volts. Note 3 shipped direct from factory.

### (3) PLUG-IN ADAPTOR KITS FOR CVS-CVN ABOVE

Line cord with socket mounted on plate to fit end bell of transformer.

| Fits CVS-CVN 30,      |        | <b>999-104</b> | Na. | 13A931. | Each | \$4.50 |
|-----------------------|--------|----------------|-----|---------|------|--------|
| 60 and 120 VA         |        | 999-105        | Na. | 13A932. | Each | \$5.00 |
| Fits CVS              | 2-Wire | 999-005        | No. | 13A933. | Each | \$2.65 |
| 250 VA only           | 3-Wire | 999-019        | No. | 13A934. | Each | \$4.00 |
| Fits CVS 500 VA       |        | 999-009        | No. | 13A935. | Each | \$3.45 |
| CVN 250VA, CVN 500 VA |        | 999-020        | No. | 13A936. | Each | \$4.00 |

Pages 152 and 153 For Other Eico Products

\$34.95



BV



A & PA

Primaries for 117 V. 60 cy. AC. P6456, P6454, P6458, P6308, P6309 have tap for 117-107 V. Electrostatic shield on P6133, P6308, P6309 and P6433. Secondary is center tapped except P4026, P8389 and P6469.

OR

| Stock<br>No. | Mfg.<br>No. |      | ondary<br>@ A. | Test<br>Volts | Mtg.<br>Fig. | Din<br>H. | nensi<br>W. | ons<br>D. | Wt.<br>Lbs. | 1-9    | Prices<br>10-24 | Each 25-49 | 50-99  |
|--------------|-------------|------|----------------|---------------|--------------|-----------|-------------|-----------|-------------|--------|-----------------|------------|--------|
| 13A335       | P4026       | 2.5  | 1.5            | 2500          | A            | 15/8)     | 27/8×       | 11/2"     | .7          | \$3.85 | \$3.47          | \$3.11     | \$2.93 |
| 13B139       | P6133       | 2.5  | 5              | 7500          | S            | 23/4×     | 31/8×       | 21/4"     | 1.5         | 6.03   | 5.43            | 5.13       | 4.82   |
| 13A29        | P6454       | 2.5  | 10             | 7500          | S            | 31/2)     | (35/8)      | (21/2"    | 2.5         | 5.66   | 5.09            | 4.81       | 4.53   |
| 13A399       | P6467       | 5    | 3              | 2500          | Ā            | 2x31      | 4x21        | /8"       | 1.4         | 4,40   | 3.96            | 3.74       | 3.52   |
| 13A630       | P6433       | 5    | 15             | 2500          | B            | 31/2)     | (23/4)      | 21/2"     | 3           | 9.23   | 8,31            | 7.85       | 7.39   |
| 13A281       | P6465       | 6.3  | .6             | 1500          | Ā            | 13/1      | 23/8×       | 11/2"     | .4          | 2.63   | 2.37            | 2.24       | 2.10   |
| 13B21        | P8389       | 6.3  | 1              | 1500          | A            | 15/ax     | 2 7/8 ×     | 11/2"     | .6          | 2.79   | 2,52            | 2.38       | 2.24   |
| 13B99        | P6134       | 6.3  | 1.2            | 3000          | A            | 15/a>     | 27/8        | 17/8"     | .8          | 2.63   | 2.37            | 2.24       | 2,11   |
| 13A402       | P6466       | 6.3  | 3              | 2500          | A            | 2x31      | /4×21       | /R "      | 1.4         | 4.40   | 3.96            | 3.74       | 3.52   |
| 13A329       | P6456       | 6.3  | 6              | 2000          | A            | 23/8>     | 23/4)       | 23/8"     | 2           | 5.66   | 5.09            | 4.81       | 4.53   |
| 138147       | P6308       | 6.3  | 10             | 2500          | ŇV           | 37/8>     | 25/8×       | 21%."     | 3,4         | 9.68   | 8,71            | 8.23       | 7.74   |
| 13A721       | P6309       | 6.3  | 20             | 2500          | NV           | 4%        | 33/ax       | 33/4"     | 6.7         | 12.31  | 11.08           | 10.47      | 9.85   |
| 13A336       | P6458       | 10   | 5              | 2000          | NV           | 31/10     | 21/2        | 21/2"     | 3           | 7.03   | 6.33            | 5.98       | 5.62   |
| 13A330       | P6461       | 10   | 10             | 2000          | C            |           |             | 3%."      | 5.0         | 11.91  | 10.72           | 10.12      | 9.53   |
| 13B192       | P8130       | 12.6 | 2              | 1500          | Ā            |           |             | 21/8"     | 1.4         | 4.35   | 3,92            | 3.70       | 3.48   |
| 13A331       | P8358       | 12.6 | 3              | 1500          | A            |           |             | 21/4"     | 1.6         | 5.13   | 4.62            | 4.36       | 4,10   |
| 138211       | P6469       | 25.2 | 1              | 1500          | A            | 2x31      | /4 X 2 1    | 18"       | 1.4         | 4.14   | 3.73            | 3.52       | 3.31   |
| 13A978       | P8180       | 25.2 | 1              | 1500          | A            |           | 4x24        |           | 1.4         | 4.10   | 3.69            | 3.49       | 3.28   |
| 13A332       | P8357       | 25.2 | 2              | 1500          | A            |           | (4x21       |           | 2.2         | 6.55   | 5.90            | 5.57       | 5.24   |

### **POWER TRANSFORMERS**

Commercial grade transformers. Primaries 117 V. 60 cy. AC. \* No center tap on indicated winding. Prefix on manufacturers number indicates illustration.

| Stock  | Mfg.    |      | Sec. | 5 V. | 6.3     | Dimensions          | Wt.  | Pr     | ices Ez | ch     |
|--------|---------|------|------|------|---------|---------------------|------|--------|---------|--------|
| No.    | No.     | V.CT | MA   | Q    | V. @    | H. W. D.            | Lbs. | 1-9    | 10.24   | 25-49  |
| 13A381 | PC8402  | 480  | 55   | 2A   | 2A CT   | 31/a x21/2x23/4"    | 2.4  | \$7.77 | \$6.99  | \$6.60 |
| 13A382 | PC8403  | 500  | 70   | 2A   | 2.5A CT | 31/8 x21/2x31/8"    | 3.2  | 8.51   | 7.66    | 7.23   |
| 13A384 | PC8405  | 540  | 120  | 3A   | 3.5A    | 31/8×31/8×31/2"     | 4.9  | 11.33  | 10.20   | 9.64   |
| 13A668 | P8356   | 540  | 260  | 3A   | 8.8A    | 31/a x 31/8 x 33/8" | 6.5  | 16.78  | 15.10   | 14.26  |
| 134648 | P8355   | 570  | 250  | 3A   | 9.5A    | 334x334x34/2"       | 6.5  | 17.98  | 16.18   | 15.28  |
| 13A578 | PC8406  | 650  | 40   | 2A   | 2A CT   | 31/8 x21/2x23/4"    | 2.4  | 8.07   | 7.26    | 6.86   |
| 13A388 | PC8409  | 700  | 90   | 2A   | 3A CT   | 31/2×21%x33/2"      | 4.5  | 11.06  | 9.95    | 9.40   |
| 13A389 | PC8410  | 720  | 120  | 3A   | 3.5A CT | 37/8×31/8×33/4"     | 5.5  | 12.71  | 11.44   | 10.80  |
| 13A391 | PC8412  | 800  | 200  | 3A   | 5A CT   | 41%x33/4x4"         | 8.2  | 16.54  | 14.89   | 14.06  |
| 13B30  | P\$8415 | *125 | 15   |      | .6A     | 1'%x23/ax13/a"      | .7   | 2.97   | 2.68    | 2.53   |
| 13B32  | PA8421  | *125 | 50   |      | 2A      | 21/4×311/4×21/8"    | 1.5  | 4.65   | 4.18    | 3.95   |
| 13B84  | PS8416  | 250  | 25   |      | 14      | 2%, x2'%, x13/4"    | 1.0  | 3.90   | 3.51    | 3.32   |
| 13A395 | PC8419  | 480  | 70   |      | 3A      | 31/8 x21/2 x27/8"   | 2.6  | 7.73   | 6.96    | 6.57   |
| 13A979 | PC8404  | 520  | 90   | 2A   | 3A      | 31/2x2134x33/8"     | 4    | 9.73   | 8.76    | 8.27   |

### SMOOTHING FILTER CHOKES

C1001, 3000 V.; all others 1500 V. Insulation.

| Stock<br>No. | Mfg.<br>No. | Hys. | MA  | 0hms | Fig. | Dimensions<br>H. W. D. | Wt.<br>Lbs. | 1-9    | Prices<br>10-24 |        | 50-99  |
|--------------|-------------|------|-----|------|------|------------------------|-------------|--------|-----------------|--------|--------|
| 13A51        | C1515       | 20   | 15  | 900  | A    | 15/ax27/ax13/a"        | .7          | \$3.02 | \$2.72          | \$2.57 | \$2.42 |
| 13A61        | C1279       | 8.5  | 50  | 400  | A    | 15/8×27/8×13/8"        | .7          | 2.26   | 2.03            | 1.92   | 1.81   |
| 13A43        | C1003       | 16   | 50  | 580  | A    | 2x31/ax15/8"           | 1           | 2.89   | 2.60            | 2.46   | 2.31   |
| 13A46        | C1709       | 8    | 85  | 250  | A    | 2x31/4x17/8"           | 1.4         | 2.97   | 2,69            | 2.52   | 2.38   |
| 13A48        | C1001       | 10.5 | 110 | 225  | Α    | 25/8x4x21/8"           | 2.3         | 4.52   | 4.07            | 3.84   | 3.62   |
| 13A638       | C2304       | 2.3  | 150 | 60   | Α    | 2x31/ax13/a"           | 1           | 3.11   | 2.79            | 2.64   | 2.49   |
| 13A635       | C2327       | 1.5  | 200 | 85   | A    | 15/ax27/ax11/2"        | .7          | 2.66   | 2.40            | 2.26   | 2.13   |
| 134600       | C2334       | 2.8  | 300 | 60   | Α    | 25/8x4x21/8"           | 2.5         | 6.79   | 6.11            | 5.77   | 5.43   |

### HIGH CURRENT FILTER CHOKES

For use in DC power supplies. Mtg. similar to RT series transformers above with leads instead of lugs. RMS voltage rating 1500 V.

| Stock<br>No. | Mfg.<br>No. | Ind.<br>Hys. | DC<br>Amps | Ohms<br>Res. | Dimensions<br>H. W. D.     | Wt,<br>Lbs. | 1.9    |        | s Each<br>25-49 |        |
|--------------|-------------|--------------|------------|--------------|----------------------------|-------------|--------|--------|-----------------|--------|
| 13A550       | C2685       | .035         | 2          | .75          | 2%x25/8x21/8"              | 1.9         | \$4.79 | \$4.31 | \$4.07          | \$3.83 |
| 13A551       | C2686       | .025         | 4          | .425         | 27/ax33/ax25/a"            | 3.4         | 8.36   | 7.52   | 7.11            | 6.69   |
| 13A552       | C2687       | .01          | 8          | .15          | 3%xX33/4X3"                | 5.3         | 10.55  | 9.49   | 8.97            | 8.44   |
| 13A554       | C2689       | .005         | 22.5       | .03          | 3 <del>%</del> x41/2x43/8" | 11.9        | 19.06  | 17.15  | 16.20           | 15.25  |

### SILICON OR SELENIUM RECTIFIER TRANSFORMERS

Variable tap isolated primary and secondary windings provide output voltages In 12 steps within ranges shown. In many cases will fill the need for custom made special voltage transformers at great savings in cost and time. DC output voltages are based on conventional circuits employing dry disc selenium rectifiers and high capacity filters. All are figure BV. RT-201, 21/x2X3/x31/a" H. Wt. 2.5 lbs.; RT-202, 21%x23/x3X/a" H. Wt. 3.8 lbs.; RT-208, 33/x5X4X/a" H. Wt. 12.6 lbs.; RT-206, 3%x24x43/a" H. Wt. 9.1 lbs.; RT-208, 33/x5X4X/a" H. Wt. 12.6 lbs. Res = resistive, Cab = capacitive loads. Cap = capacitive loads.

| Stock<br>No. | Stancor<br>No. | Rect.<br>Ckt. | AC Volts<br>Range  | DC<br>Amps. | DC V. Out.<br>Res. Load | DC V. Out.<br>Cap. Load | 1-9<br>Each | 10-24<br>Each |
|--------------|----------------|---------------|--------------------|-------------|-------------------------|-------------------------|-------------|---------------|
| 13A734       | RT-201         | CT            | 11.7-29.4          | 2           | 3.3 to 11.2             | 3.5 to 13.8             |             |               |
|              |                | Bridge        | 11.1-28.5          | 1.25        | 7.4 to 23               | 8.7 to 30               | \$7.40      | \$6.66        |
| 13A735       | RT-202         | CT            | 12. <b>0-</b> 29.8 | 4           | 3.7 to 11.1             | 4 to 14.7               |             |               |
|              |                | Bridge        | 12.0.29.8          | 2           | 8.9 to 24.3             | 10.8 to 33              | 9.73        | 8.76          |
| 13A736       | RT-204         | CT            | 11.7.29.2          | 8           | 4.3 to 12               | 4.5 to 14.5             |             |               |
|              |                | Bridge        | 11.6.29.2          | 4           | 8.8 to 24               | 11.4 to 32.4            | 13.14       | 11.83         |
| 13A737       | RT-206         | CT            | 12 -29.7           | 12          | 8.4 to 11.5             | 3.9 to 14.4             |             |               |
|              |                | Bridge        | 12 -29.7           | 6           | 8.4 to 24               | 10 to 32                | 17.22       | 15.50         |
| 13A738       | RT-208         | CT T          | 12.1-29.2          | 15          | 3.9 to 11.4             | 4.4 to 14.8             |             |               |
|              |                | Bridge        | 12.1-29.2          | 8           | 8.7 to 23.7             | 10.4 to 32.5            | 23.38       | 21.04         |

Stancor Transformers Bulk Packed-Quantities of 100 to 499 pieces available at ower prices. Contact B-A for quotation.

### 01 **MULTI-VOLTAGE TRANSFORMERS**

NV

Three isolated 12 V. secondaries, one with CT, provide 6, 12, 18, 24, 30 and 36 V. output with varying current capacity by using series or parallel connections. All are S mtg., 8" leads. Excellent for building transistor power supplies.

| Stock  | Stancor | Amps      |                 |      | Prices Each |        |        |        |  |  |
|--------|---------|-----------|-----------------|------|-------------|--------|--------|--------|--|--|
| No.    | No.     | Each Sec. | H, W, D.        | Lbs. | 1.9         | 10-24  | 25-49  | 50-99  |  |  |
| 13B669 | P8361   | 0.10      | 13/ax2x11/2"    | .36  | \$4.09      | \$3.68 | \$3.48 | \$3.27 |  |  |
| 138670 | P8362   | 0.15      | 2x23/ax13/4"    | .60  | 4.24        | 3.82   | 3.60   | 3.39   |  |  |
| 13B678 | P8363   | 0.25      | 23/ax27/ax13/4" | .85  | 4.85        | 4.37   | 4.12   | 3.88   |  |  |
| 138679 | P8364   | 0.50      | 23/8×27/8×21/8" | 1.25 | 5.62        | 5.06   | 4.78   | 4.50   |  |  |

### AUTOMATION CONTROL TRANSFORMERS

Typical applications: Relays, solenoids, control valves, small motors, electronic tubes, heating elements, low voltage lighting, signal lamps, buzzers, bells, etc. Dual winding primaries are connected parallel for 115 V. in series for 230 V. 50-60 cy. AC. Dual secondaries also may be connected series or parallel. J mtg. except P6378 and P6379 which are BV type.

| Stock  | Mfg.  | Secor        | idary       |     | Size            | Prices Each |        |        |        |
|--------|-------|--------------|-------------|-----|-----------------|-------------|--------|--------|--------|
| No.    | No.   | Parallel     | Series      | Wt. | H. W. D.        | 1-9         | 10.24  | 25-49  | 50-99  |
| 13B24  | P6375 | 6 V.41 2A,   | 12 V.@ 1A,  | 1   | 23/ax27/ax15/a" | \$4.64      | \$4.18 | \$3.94 | \$3.71 |
| 13A622 | P6376 | 6 V. 4 4A.   | 12 V.6/2A.  | 1.5 | 23/4x31/8x17/8" | 5.44        | 4.90   | 4.62   | 4.35   |
| 13A623 | P6377 | 12 V. 41 4A. | 24 V.@ 2A.  | 2.5 | 31/8×35/8×21/4" | 6.49        | 5.84   | 5.52   | 5.19   |
| 13A624 | P6378 | 12 V.61 8A.  | 24 V.6( 4A. | 4.3 | 3. x27/8x21.""  | 11.03       | 9,93   | 9.38   | 8.82   |
| 134627 | P6379 | 12 V.@ 16A.  | 24 V.418A.  | 8   | 4 x33/8x3       | 18.02       | 16.22  | 15.32  | 14.42  |



C. P & PC

### STANCOR LINE VOLTAGE CONTROL TRANSFORMERS LINE ISOLATION 50/60 CY. AC

Eliminates most shock hazard because of possible grounded circuits within the equipment being tested. A necessity when testing AC-DC sets. Built-in electro-static shields are grounded to core. P6410 is K style with line cord and plug on input; re-ceptacle on output. P6415 has line cord and three output receptacle.

| Stock<br>No. | Mfg.<br>No. | Watts<br>Max. |             | Output<br>Volts | Dimensions<br>H. W. D. |    | 1-9   |       | 25.49 |       |
|--------------|-------------|---------------|-------------|-----------------|------------------------|----|-------|-------|-------|-------|
| 13A443       | P6410       | 50            | 115         | 115             | 31/2×21:1×31/8"        |    |       |       |       |       |
| 13A444       | P6160       | 100           | 125/115/105 | 115             | 4!!x33/4x33/4"         |    |       |       | 17.82 |       |
| 13A947       | P6415       | 350           | 117 105     | 6/115/125       | 53/ax45/ax5!!"         | 17 | 33.13 | 29.82 | 28.16 | 26.50 |

### 230 TO 115 V. STEP-DOWN AUTO-TRANSFORMERS

For operation of 115 VAC devices in areas where 230 V., 50 or 60 cy. AC is the standard supply voltage. All types have 115 VAC plug-in receptacle mounted on side of transformer. Windings are not isolated. All are K style except P6287 has output receptacle on top.

| Stock  | Mfg. Watts |      | Dimensions      | Wt.  |        | Price  | s Each |        |
|--------|------------|------|-----------------|------|--------|--------|--------|--------|
| No.    | No.        | Max. | H. W. D.        | Lbs. | 1-9    | 10-24  | 25-49  | 50-99  |
| 13A317 | P6287      | 40   | 31/2x25/8x21/2" | 2.2  | \$9.77 | \$8.79 | \$8.30 | \$7.81 |
| 13A318 | P5063      | 100  | 37/ax31/ax35/a" | 4.5  | 11.64  | 10.48  | 9.91   | 9.33   |
| 138151 | P5065      | 300  | 4! x33/ax41/a"  | 8.8  | 16.25  | 14.63  | 13.83  | 13.03  |
| 13A296 | P6141      | 500  | 4 ! x33/4x51/4" | 13.7 | 21.53  | 19.38  | 18.30  | 17.22  |

### 70.7 V. LINE TO VOICE COIL TRANSFORMERS

For matching speakers to amplifier output allowing selection of desired speaker power level. A8105 has 4/8 ohm sec.; all others 4/8/16 ohm. Weight varies from 4 to 1.5 lbs.

| Stock  | Mfr's. | Power Steps | Mtg. | Size           |        | Price  | s Each | h      |
|--------|--------|-------------|------|----------------|--------|--------|--------|--------|
| No.    | No.    | In Watts    | Туре | H.W.D.         | 1-9    | 10.24  | 25-49  | 50-99  |
| 13A415 | A8103  | 16/8/4/2    |      |                |        |        |        |        |
|        |        | 1/.5        | J    | 23/4x31/8x21/8 | \$5.99 | \$5.39 | \$5.09 | \$4.79 |
| 13A414 | A8102  | 8/4/2/1/.5  | j    | 2x23/ax11/2    | 4.37   | 3,93   | 3.71   | 3.50   |
| 13A252 | A8105  | 5/2.5/1.25/ |      |                |        |        |        |        |
|        |        | .62/.31     | Q    | 13/ax23/ax11/2 | 3.92   | 3.53   | 3.33   | 3.14   |
| 13A361 | A8081  | 10/9/8/7/6  | Ĵ    | 2x23/ax15/     | 4.29   | 3.87   | 3.65   | 3.43   |
| 13A362 | A8082  | 15/14/13/   |      | 7 8            |        |        |        |        |
|        |        | 12/11       | 1    | 23/ax27/ax13/4 | 4.92   | 4.43   | 4.18   | 3.94   |

### **25 V. LINE TO VOICE COIL TRANSFORMERS**

A8095 has 4/8 ohm sec. A8097 has 16/8/4 ohm sec.

| Stock  | Mfr's. | Power Steps       | Mtg. | S     | ize   |      | Wt. |        | Prices Each |        |        |  |
|--------|--------|-------------------|------|-------|-------|------|-----|--------|-------------|--------|--------|--|
| No.    | No.    | In Watts          | Туре | - H.  | W.    | D.   | Lb. | 1-9    | 10.24       | 25-49  | 50-99  |  |
| 134980 | A8095  | 5/2.5/1.25/       | A    | 13⁄8× | 23⁄8× | 11/2 | .4  | \$3,66 | \$3.30      | \$3,11 | \$2.93 |  |
| 13A981 | A8097  | 16/8/4/2/<br>1/.5 | s    | 23⁄4x | 31⁄8x | 21/8 | 1.6 | 6.03   | 5.43        | 5,13   | 4.82   |  |

### LINE TO VOICE COIL TRANSFORMERS

|                         | A8101                   | and A7947 ar             | e type Q           | mtg. ot        | hers type J. W                   | t4 t | o 1.5 I         | bs.           |                |
|-------------------------|-------------------------|--------------------------|--------------------|----------------|----------------------------------|------|-----------------|---------------|----------------|
| Stock<br>No.            | Mfr's.<br>No.           | Primary<br>Ohms          | Sec.<br>Ohms       | Audio<br>Watts | Size<br>H. W. D.                 | 1.9  | Prices<br>10-24 | Each<br>25-49 | 50-99          |
| 13816<br>13825<br>13837 | A8101<br>A3883<br>A7947 | 500<br>500<br>2000/1500/ | 6-8/3.2<br>15/8/6/ | 5<br>4 25      | 13/8×23/8×11/2<br>23/8×27/8×13/4 |      |                 |               | \$1.95<br>3,39 |
| 13A532                  | A8104                   | 1000/500<br>3000/2000/   | 6-8/3.2<br>16/8/4  | 8<br>10        | 15%x27%x15%                      | 3.96 | 3.57            | 3.37          | 3.17           |
|                         |                         | 1500/1000/50             | 0                  |                | 23/2×27/8×13/4                   | 5.25 | 4.73            | 4.46          | 4.20           |

Call B-A Industrial Dept. (816) 561-5460

STANCOR & TRIAD TRANSFORMERS TANCOR



### **10 WATT LINE-TO-LINE TRANSFORMER**

Primary 500/333/200/125/50 ohms. \$econdary 500/300/200/125/50 ohms. Pri-mary and secondary 500 and 200 sections have center taps (125 and 50). Figure Q. Size 2" H. x 31/4" W. x 17%" D. Wt. 1 lb. 1345. A4350. 1-9 Ea....\$5.55; 10-24 Ea....\$5.00; 25-49 Ea....\$4.72; 50-99 Ea....\$4.44

MICROPHONE AND LINE INPUT TRANSFORMERS TD mounting is fully shielded for low hum pickup. A4779 is for Sgl. or PP grids, all others for single grid. Wt. 1 lb.

| Stock<br>No.             | Mfg.<br>No.             | Pri. Ohms                             | Sec.<br>Ohms        | Mtg.    | Dimensions<br>H.W.DInches     | 1-9  | Prices<br>10-24 |      | 50-99 |
|--------------------------|-------------------------|---------------------------------------|---------------------|---------|-------------------------------|------|-----------------|------|-------|
| 13A570<br>13A571<br>13A4 | A4778<br>A4779<br>A4351 | 600/500CT<br>600/500CT<br>500/333/200 | 240,000<br>60,000CT | C1<br>A | 2¼x27/8×113<br>13/8x23/8×13/8 |      |                 |      |       |
| 1344                     | W4221                   | 125/50                                | 89,000              | TD      | 211x211x21/4                  | 6.18 | 5.57            | 5.25 | 4.94  |

### **INTERCOM TRANSFORMERS**

A4744 is voice coll to grid, A4748 is voice coll or line to grid.

| N0030 (      | 5 wally     | and woopi | (o matt) a | ie une | e to voice con         | output, |        |                 |        |
|--------------|-------------|-----------|------------|--------|------------------------|---------|--------|-----------------|--------|
| Stock<br>No. | Mfg.<br>No. | Pri.      | Secondary  | Mtg.   | Dimensions<br>H. W. D. | 1-9     |        | s Each<br>25-49 |        |
| 13A1         | A4744       | 4 Ohm     | 25K Ohms   | VE     | 13/8×21/8×11/2"        | \$2.81  | \$2.54 | \$2.39          | \$2.25 |
| 13A410       | A4748       | 45 Ohm    | 50K Ohms   | A      | 11/4 x2 1/8 x13/8"     | 3.55    | 3.19   | 3.02            | 2.84   |
| 13A714       | A8090       | 45 Ohm    | 3-4 or 6-8 | Q      | 13/8×23/8×11/4"        | 2.61    | 2.36   | 2.22            | 2.09   |
| 13A471       | A8091       | 45 Ohm    | 3-4 or 6-8 | Q      | 15/8x27/8x11/2"        | 2.90    | 2.61   | 2.47            | 2.32   |

### INTERSTAGE TRANSFORMERS

A-53, single plate (7K to 20K) to single grid. A4711 PP plates (7K to 15K) to PP grids, others single plate (7K to 15K) to PP grids. Max. DC in primary 10 MA. Average shpg. wt. 1 lb.

| Stock  | Mfr's. | Turns |      | Size           |        | Pric   | es Each |        |
|--------|--------|-------|------|----------------|--------|--------|---------|--------|
| No.    | No.    | Ratio | Mtg. | H. W. D.       | 1-9    | 10-24  | 25-49   | 50-99  |
| 13A359 | A53    | 1.3   | A    | 13/8x23/8x13/8 | \$2.83 | \$2.55 | \$2.41  | \$2.26 |
| 13A6   | A53C   | 1.3   | A    | 13⁄ax23⁄ax13⁄a | 3.31   | 2.99   | 2.81    | 2.65   |
| 13A7   | A63C   | 1.3   | A    | 15/8×27/8×14/2 | 3.90   | 3.51   | 3.32    | 3.12   |
| 13A10  | A4711  | 1.1   | Α    | 15/ax27/ax15/a | 4.24   | 3.82   | 3.60    | 3.39   |

### PLATE MODULATION TRANSFORMERS

Primary impedance 10,000 ohms CT.

| Stock  | Stancor | Class "C"     | Max. Sec. | Audio | Mtg. | Dimensions      | Wt.  | Net    |
|--------|---------|---------------|-----------|-------|------|-----------------|------|--------|
| No.    | No.     | Load Ohms     | DC MA     | Watts | Fig. | H. W. D.        | Lbs. | Each   |
| 13A613 | A-3812  | 4K            | 50        | 5     | A    | 15/8x27/8x15/8" | .7   | \$3.40 |
| 13B121 | A-3845  | 8K/6.5K/5K/3K | 100       | 25    | C    | 31/8x21/2x27/8" | 2.8  | 7.58   |

### AUDIO OUTPUT TRANSFORMERS

UNIVERSAL SINGLE OR PUSH-PULL TO VOICE Coil 4K to 14K primary, .05 to 122 ohm secondary. 4 watt. Figure A. 13/8" H. x 23/8" W. x 14/2" D. Wt. .4 lbs. No. 13A19. A3856. 1-9 Ea....\$3.89 10-24 Ea....\$3.50 25-49 Ea....\$3.31 50-99 Ea....\$3.11

### SINGLE PLATE TO VOICE COIL

Figure A Average wt. .5 lbs.

| Stock  | Mfg.  | tm   | pedance |       | Din   | iensio  | ns     |        | Price  | s Each |                |
|--------|-------|------|---------|-------|-------|---------|--------|--------|--------|--------|----------------|
| No.    | No.   | Pri. | Sec.    | Watts | Н.    | W.      | D.     | 1-9    | 10-24  | 25-49  | 50 <b>-9</b> 9 |
| 13A378 | A3332 | 2K   | 3.2     | 3     | 11/4× | 24/8X   | 11/4"  | \$1.91 | \$1.71 | \$1.62 | \$1.53         |
| 13B127 | A3877 | 5K   | 4       | 5     | 13/8) | (23/8X) | 13⁄8″  | 1.98   | 1.79   | 1.68   | 1.58           |
| 13B128 | A3879 | 10K  | 4       | 5     | 13/8) | 23/ax.  | 1 3/8″ | 2.07   | 1.86   | 1.76   | 1.66           |

### PUSH-PULL PLATES TO VOICE COIL

\*Indicates 500/250/15/8/4 ohms except A3311 does not have 250 ohms. A3800,

| 13A17  | A3857    | 25KCT   | 4      | 5      | 13/8×23/8×11/2" | 3.05   | 2.74   | 2.59   | 2.45   |
|--------|----------|---------|--------|--------|-----------------|--------|--------|--------|--------|
| 138325 | A8093    | 10KCT   | 3-4    | 10     | 15⁄8×27⁄8×14⁄2″ | 3.16   | 2.85   | 2.69   | 2.53   |
| 13A500 | A3831    | 10KCT   | 8/4/2  | 5      | 15/8×27/8×13/4" | 3.83   | 3.45   | 3.26   | 3.06   |
| 13B2   | A3311    | 10KCT   |        | 25     | 31/2x2]?x31/4"  | 8.13   | 7.32   | 6.83   | 6.51   |
| 13A12  | A4432    | 10KCT   | 4      | 10     | 23/ax17/ax15/a" | 3.98   | 3.59   | 3.38   | 3.18   |
| 13B132 | A3801    | 6.6KCT  | *      | 35     | 37/8x31/8x31/2" | 10.88  | 9.79   | 9.26   | 8,71   |
| 13A36  | A3800    | 5KCT    | *      | 30     | 34/2×21 x33/4"  | \$8.55 | \$7.69 | \$7.26 | \$6.85 |
| A3801  | and A331 | 1 style | C mtg. | others | similar to A. W | τ4 το  | 4.8 10 | 5.     |        |

### TUBE TO LINE TRANSFORMER

Primary single 20K/10K/5K plate or push-pull 20K plates. 15 MA DC. Secondary 500/333/200/125/50 ohms. Rated 5 watts. Figure A. 2" H. x  $3^{1}_{4}$ " W. x  $1^{7}_{78}$ " D. Wt 1 lb 13A377. A3250. 1-9 Ea....\$5.29 10-24 Ea....\$4.76 25-49 Ea....\$4.50 50-99 Ea....\$4.23

### **24 VOLT .3 AMP TRANSFORMERS**

| B-A's best selling transi<br>Top quality. These are r<br>leading American manuf.<br>Fully encased, continuou<br>isolated 115 V. 60 cy. A<br>mtg. ctrs. Wt. 6 ozs. | nade to B-A's rigid<br>acturer.<br>Is duty type. Rated<br>C primary, Size 13/ | specifications by a .3 amps with fully | Contraction of the second seco |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. 13A903 \$1.69<br>Special Each                                                                                                                                 | 10 Lots \$1.49                                                                | 100 Lots \$1.29                        | TAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Same as above except h                                                                                                                                            | as center tap on s                                                            | econdary.                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| No. 13A861 \$1.89<br>Special Each                                                                                                                                 | 10 Lots \$1.79<br>Each                                                        | 100 Lots \$1.59<br>Each                | B-A Special                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |





Open frame style with coded wire leads. Size, 150 milliwatt units 碧" between mounting tabs, 삶" high, 금" wide, %" deep. Wt .65 ozs. 300 milliwatt units 1%" between holes, 금" high, 1%" wide, ¾" deep. Wt. 12 075

\*Indicates 300 MW units All others rated 150 MW

| Stock  | Stancor     | Appli-   | Turns     | Imped. | 0hms     |        | Price  | s Each |        |
|--------|-------------|----------|-----------|--------|----------|--------|--------|--------|--------|
| No.    | No.         | cation   | Ratio     | Pri.   | Sec.     | 1-9    | 10-24  | 25-49  | 50-99  |
| 13A818 | TA52*       | In. Stg. | 1.00:1.00 | 500CT  | 500CT    | \$4.74 | \$4.27 | \$4.03 | \$3.79 |
| 13A909 | <b>TA28</b> | In. Stg. | 1.65:1.00 | 1500   | 500CT    | 5.05   | 4.55   | 4.29   | 4.04   |
| 13A910 | TA32        | In. Stg. | 1.00-4.00 | 5KCT   | 80KCT    | 5.05   | 4.55   | 4.29   | 4.04   |
| 13A832 | TA34        | In. Stg. | 6.97:1    | 10K    | 200CT    | 5.12   | 4.61   | 4.35   | 4.10   |
| 134833 | TA35        | In. Stg. | 2.24:1    | 10K    | 2KCT     | 4.39   | 3.95   | 3.73   | 3,51   |
| 13A825 | TA21        | Output   | 5.53:1    | 500CT  | 4, 8, 16 | 4.61   | 4.15   | 3.92   | 3.69   |
| 13A911 | TA33        | Output   | 24.6:1.00 | 10KCT  | 4, 8, 16 | 5.37   | 4.83   | 4.56   | 4.30   |
| 13A912 | TA39*       | Output   | 2.50:1:00 | 100CT  | 4, 8, 16 | 4.59   | 4.13   | 3.90   | 3.67   |
| 13A836 | TA42*       | Output   | 5;60:1    | 500CT  | 4, 8, 16 | 4.51*  | 4.06   | 3.83   | 3.61   |

### TRANSISTOR AUDIO TRANSFORMERS

Designed especially for transistor applications. Highest quality throughout. All A mountings except TA56 is J mtg.; TA57, S mtg.

| Stock   | Туре  |        | Ohms | Imp.   | DC  | Power |      | Base       |        | Price E | ach    |        |
|---------|-------|--------|------|--------|-----|-------|------|------------|--------|---------|--------|--------|
| No.     | No.   |        | Pri. | Sec.   | MA  | Watts | Ht.  | Area       | 1-9    | 10-24   | 25-49  | 50-99  |
| 134810  | TA-7  | Driver | 100  | 100CT  | 100 | 0.5   | 15⁄a | 27/ax15/a  | \$2.89 | \$2.60  | \$2.46 | \$2.31 |
| 13A815  | TA-16 | Driver | 20   | 36CT   | 400 | 1W    | 11/4 | 21/a x11/a | 2.78   | 2.50    | 2.36   | 2.22   |
| 13A813  | TA-12 | Output | 20CT | 8      | 500 | 10.0  | 13/8 | 23/8×15/8  | 2.83   | 2.55    | 2.40   | 2.26   |
|         |       | Output |      |        |     |       |      |            |        |         |        |        |
|         |       |        |      | 8/16   | 550 | 10    | 23/8 | 27/8×13/4  | 4.33   | 3.90    | 3.68   | 3.46   |
| 134820  | TA-57 | Output | 1000 | T 3.2/ |     |       |      |            |        |         |        |        |
|         |       |        |      | 8/16   | 550 | 10    | 23/8 | 27/ax17/a  | 4.37   | 3.93    | 3.71   | 3.50   |
| 134824  | TA-62 | Output | 25   | 4      |     |       | 15/a | 27/ax15/a  | 2.92   | 2.63    | 2.48   | 2.34   |
| 13A982. | TA-10 | Output | 2000 | ) 16/8 | /   |       |      |            |        |         |        |        |
|         |       |        | CT   | 4      |     | 0.2   |      | %ax15%a    | 6.60   | 5.94    | 5.61   | 5.28   |

### TRANSISTOR POWER TRANSFORMERS

TP1 has 2 separate 13 or 18 volt secondaries, each rated @ 900 MA for bridge rectification.

TP2, TP3, and TP4 have multiple tapped primary and secondary to furnish \*24 different voltages from 6.5 V. to 42 V. Current rating for bridge rectification with capacitor input filtering.

TP1 and TP4 are Figure S, TP2 and TP3 are Figure A.

| Stock<br>No.     | Stancor<br>No. | Secondary<br>AC Volts  | DC<br>MA    | Dimensions<br>H. W. D.                                                                                                                                                                         | Wt.<br>Lbs. | 1-9    | Prices<br>10-24 | Each 25-49     | 50-99          |
|------------------|----------------|------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|-----------------|----------------|----------------|
| 13A793<br>13A632 | TP-1<br>TP-2   | 13 or 18<br>6.5 to 42  | 900<br>100  | 3 <sup>1</sup> / <sub>8</sub> x2 <sup>1</sup> / <sub>2</sub> x3"<br>15/ <sub>8</sub> x2 <sup>7</sup> / <sub>8</sub> x1 <sup>7</sup> / <sub>8</sub> "                                           | 2.7         | \$6.77 | \$6.09<br>4.48  | \$5.75<br>4.23 | \$5.42<br>3.99 |
| 13A633<br>13A637 | TP-3<br>TP-4   | 6.5 to 42<br>6.5 to 42 | 300<br>1000 | 2 <sup>3</sup> / <sub>8</sub> x3 <sup>3</sup> / <sub>4</sub> x2 <sup>1</sup> / <sub>8</sub> "<br>3 <sup>1</sup> / <sub>8</sub> x2 <sup>1</sup> / <sub>2</sub> x3 <sup>1</sup> / <sub>8</sub> " | 1.5         | 6.68   | 6.01            | 5.68<br>9.53   | 5.35<br>8.97   |

**P8196**—80 V. CT secondary, rated 1200 MA for full wave rectifier. Figure C. 3½2" H. x 21,2" W. x 35/4" D. Wt, 4.5 lbs. \$7.89



TY-754 For use with power transistors and silicon rectifiers to produce HV DC from 12 volt DC.

TY 79 and TY-84 are highly efficient epoxy molded toroidal design. Exceed Grade 5 Class R requirements of specs. MIL-T-27B TF5RX40ZZ.

TY-69S thru TY-74S are commercial open frame transformers. Typical circuit included.

| Order by B-A Stock No. 13A907 and Triad Type |
|----------------------------------------------|
|----------------------------------------------|

| Triad<br>No. |        |     | t From<br>Rectifier | Dimensions<br>H. W. D. | Wt.<br>Lbs. | 1-9     | Prices<br>10-24 |         | 50-99   |
|--------------|--------|-----|---------------------|------------------------|-------------|---------|-----------------|---------|---------|
| TY-79        | 300 V. | (1) | 200 MA              | 13/4" Dia. 1" H.       | .35         | \$14.72 | \$13,25         | \$11.93 | \$11.09 |
| TY-81        | 375 V. | 6   | 200 MA              | 2" Dia, 1" H.          | .5          | 15.19   | 13.67           | 12.30   | 11.44   |
| TY-84        | 600 V. | 62  | 200 MA              | 23⁄4" D. 13⁄8" H       | . 1         | 21.57   | 19.41           | 17.47   | 16.25   |
| TY-68S       | 250 V. | 60  | 65 MA               | 13/4x13/4x14}"         | .2          | 7.52    | 6.77            | 6.09    | 5.66    |
| TY-69S       | 300 V. | 60  | 100 MA              | 17/ax23/ax17/a"        | .5          | 9.49    | 8.54            | 7.69    | 7.15    |
| TY-70S       | 325 V. | a   | 150 MA              | 2x23/8x2."."           | .6          | 10.10   | 9.09            | 8,18    | 7.61    |
| TY-715       | 375 V. | 60  | 200 MA              | 2x23/8x2"              | .65         | 10.20   | 9.18            | 8.26    | 7.68    |
| TY-745       | 600 V. | a   | 200 MA              | 2x4 1/8 x3"            | 1.07        | 12.25   | 11.03           | 9.93    | 9.23    |
|              | 500    | 115 | V 60 CV             |                        | M 12        | V DC    | COURCE          |         |         |

FOR 115 V. 60 CY. AC POWER FDOM 12 V. DC SOURCE

12 V. inut, 110-115-125 VAC 60 cy. 115 watt output.  $37_{0}$ " H. x  $3J_{2}$ " W. x  $3J_{2}$ " D. Wt. 5 lbs. 13A907. TY-75A. 1-9 Ea. \$16.54; 10-24 Ea. \$14.89; 25-49 Ea. \$13.40; 50-99 Ea. \$12.46

| 13A907. 11-75A. 1-9          | 1 E8. \$10.34; 10-24 E8. \$14.03; 23-43 E8. \$13.46; 30-8 | 5 20. 4.2.10 |
|------------------------------|-----------------------------------------------------------|--------------|
| VERY TINY                    | TRANSISTOR TRANSFORMERS                                   | 5            |
| The section of the second to | and the test test dimension missly constructed            |              |

Exceptionally small, only  $\frac{1}{2}$  inch largest dimension, nicely constructed. Equivalent domestic made units would cost many times more. Impreg-nation and special coating seals the coil. The right types for building transistor radios, tiny audio or mike amplifiers, etc. Mtg. tabs and wire leads. Size  $\frac{1}{2} \ge \frac{1}{2} \ge \frac{1}{2} \ge \frac{1}{2} = \frac{1}{2}$  mort. No. 13A904. Input. Pri. imped. 200K ohms. Sec. 1000 ohms. Choice Each No. 13A905. Driver. Pri. imped. 10K ohms. Sec. 2000 ohms. 89c No. 13A906. Output. Pri. imped. 500 ohms. Sec. 8 ohms. Choice, 10 @ Each.... 79c 100 @ Each



Don't Overlook The Bargain Transformers Listed In B-A's Bargain Pages

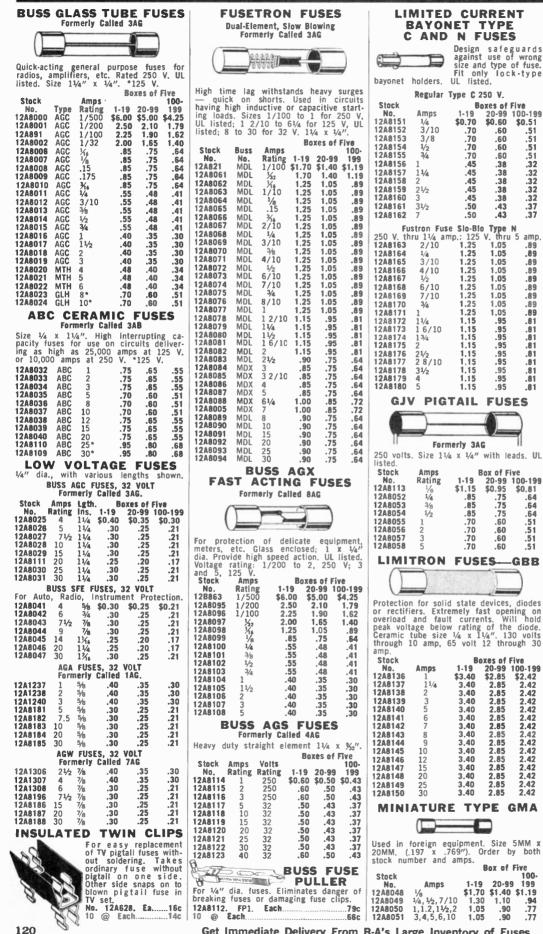
# **TV TRANSFORMERS & COILS—RF CHOKES**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L COILS IN CHOILS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STANCOR TV COMPONENTS<br>FLYBACKS, VERTICAL DEFLECTION<br>OUTPUTS & DEFLECTION YOKES<br>Order Flyback Transformers below or send us the Stancor part<br>number or make, model and chassis number of set, name of part<br>number or make, model and chassis number of set, name of part<br>number or make, model and chassis number of set, name of part<br>number or make, model and chassis number of set, name of part<br>number or make, model and chassis number of set, name of part<br>number or make, model and chassis number of set, name of part<br>number or make, model and chassis number of set, name of part<br>number of set, name of part<br>promptly from B-A's stock or direct from the factory to you. Please<br>send adequate remittance with your order, we will refund every<br>penny not used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MILLER 3/4" MINIATURE "K-TRAN" IRON CORE IF's<br>Standard chassis type clip mounted IF's. Slug tuned, top and bottom. Sliver<br>mica condensers. 3/4" sq., 2" H. Wt. 2 ozs.<br>Stk. No. Type Description NetEa. Stk. No. Type Description NetEa.<br>13A5150 12C1 455 KC (Duput \$1.74 13A5153 1464 10.7 MC Discr \$2.37<br>13A5151 12C2 455 KC Output 1.74 13A5154 1465 10.7 MC Ratio<br>Detector 2.46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Average Flyback Price is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 J. W. MILLER TV COILS<br>6183 Horiz. oscillator and sync. stabilizer coil, 11/45" sq. x 24/2" H.<br>13A5112. Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| EXACT REPLACEMENT FLYBACK TRANSFORMERS<br>Average shipping weight 1 lb.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ADJUSTABLE WIDTH CONTROLS  With mtg. clip to fit \$\%4" or *\%4" hole. Required in TV, widely used in low fre-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Stock         Stancor         Net         Stock         Stancor         Net         Stock         Stancor         Net         No.         Ne.         No.         Ne.         No.         Each         No.         No.         Each         No.         No.         Each         No.         No.         No.         Each         No.         Stock         Stock         Stock         Stock         Stock         No.         Each         No.         Each         No.         Each         No.         Each         No.         Each         No.         Stock         Stock         Stock         Stock <th>No.         Type         Miller         Induct.         Net         Stock         Miller         Induct.         Net           No.         Type         Milli-Hy.         Each         No.         Type         Type</th> | No.         Type         Miller         Induct.         Net         Stock         Miller         Induct.         Net           No.         Type         Milli-Hy.         Each         No.         Type         Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| NATIONAL RF CHOKES (3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Designed for use with household appliances and commu-<br>tator-type motors, communications-type receivers and re-<br>tor-type motors, communications of TV interference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | in radio receivers when inserted in television receiver line<br>cord. Handles load requirements up to 550 watts 115 V. AC.<br>Gray Hammertone case. 2¼″ square x 4½″ long.<br>No 13A5076 Miller 7815                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| A wide selection of popular RF Chokes for receiver and transmitter circuits.<br>R100-300 are wound on ceramic forms, R33 and R50 on molded phenolic. R175A<br>rated 4000 volts, for 6 through 80 meters, 3000 V. Modulated, Current rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SUB-MINIATURE RF. CHOKES<br>Ultra miniature iron core R.F. chokes designed for high reliability. The colls are<br>ideally suited to network and filter design, delay lines, and computer applications.<br>Impregnated with a moisture resistant lacquer. Tolerance 1.0 UH $\pm 20\%$ , 1.1 to 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| below is 20 degrees rise.<br>Fig. Stk. No. Mfg. No. Induc. MA Res. Inches Each<br>① 13A5043 R100 2.5 mh 115 44 2 \$0.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UH $\pm 10\%$ , over 15 UH $\pm 5\%$ .<br>Stock Miller O.C. Milliamp Winding Form 1-99 100 up No. No. Inductance Resistance Rating Diameter Length Each Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| □ 13A5044 R300 1.0 mh 400 11 2½ 57<br>□ 13A5045 R300 2.5 mh 375 17 2½ 74<br>□ 13A5046 R100U 2.5 mh 115 44 2½ 74<br>□ 13A5047 R50 .5 mh 115 1 44 2½ 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 13A5077         70F106AI         1.0 uh         .048         636         .165         1/4         \$0.60         \$0.40           13A5079         70F336AI         3.3 uh         .240         159         .150         1/4         .60         .40           13A5080         70F336AI         3.9 uh         .264         159         .150         1/4         .60         .40           13A5081         70F396AI         3.9 uh         .264         159         .150         1/4         .60         .40           13A5081         70F476AI         4.7 uh         .457         100         .150         1/4         .60         .40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3         13A5048         R50         1.0 mh         135         23         1         42           3         13A5049         R50         2.5 mh         125         38         1         42           3         13A5050         R50         2.5 mh         125         38         1         42           3         13A5050         R50         10 mh         115         36         1         .72           3         13A5051         R33         50 uh         225         3.5         54         .36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13A5082         70F826AI         8.2 uh         .744         100         .150         1/4         .60         .40           13A5083         70F105AI         10         uh         1.56         75         .160         1/4         .69         .48           13A5084         70F125AI         12         uh         1.68         75         .160         1/4         .69         .48           13A5085         70F125AI         12         uh         1.68         75         .160         1/4         .69         .48           13A5085         70F125AI         15         uh         1.92         .75         .165         1/4         .69         .48           13A5085         70F125AI         15         uh         .92         .165         1/4         .69         .48           13A5085         70F125AI         22         uh         .228         .75         .165         1/4         .69         .48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1)       13A5043       R100       2.5 mh       115       44       2       \$0.57         1)       13A5044       R300       1.0 mh       400       11       2½       57         1)       13A5045       R300       2.5 mh       375       17       2½       74         1)       13A5046       R100U       2.5 mh       375       17       2½       74         1)       13A5047       R50       .5 mh       115       1       .42         1)       13A5047       R50       .5 mh       15       1       .42         1)       3A5048       R50       1.0 mh       135       23       1       .42         1)       3A5050       R50       10 mh       115       36       1       .74         1)       3A5051       R33       100 uh       225       35       56       .36         1)       3A5051       R33       100 uh       205       35       56       .36         1)       3A5053       R33       750 uh       125       16       56       .36         1)       3A5054       R60       4 uh       700       .15       1½       .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1345083         70F105AI         10         uh         1.56         75         160         1/4         689         46           1345084         70F125AI         12         uh         1.68         75         160         1/4         689         46           1345085         70F155AI         15         uh         1.92         75         165         1/4         689         46           1345085         70F155AI         12         uh         2.28         75         165         1/4         689         46           1345086         70F35AI         33         uh         2.76         75         170         1/4         689         46           13A5089         70F124AI         120         uh         3.36         75         177         1/4         689         46           13A5089         70F1204AI         120         uh         1.37         5         1/70         1/4         689         46           13A50187         70F1204AI         1200         uh         10.3         75         1.70         1/4         689         46           13A50187         70F564AI         200         uh         10.3         75         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| OHMITE RF CHOKES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13A5158 70F224A1 220 uh 11.5 75 170 14 89 46<br>13A5092 70F564A1 560 uh 19.2 75 195 14 75 50<br>13A5093 70F824A1 820 uh 22.9 75 210 14 75 50<br>13A5092 70F253A1 2.5 mh 45.6 75 260 36 84 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Single layer wound to operate best over freq. range indicated. Ohmite number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 13A5062         70F253AI         2.5 mh         45.6         75         2.60         36         64         56           13A5063         70F393AI         3.9 mh         57.6         75         2.75         36         84         56           13A5064         70F753AI         7.5 mh         85.2         75         310         36         84         56           13A5065         70F182AI         18 mh         128         75         .325         42         1.00         72           13A5065         70F222AI         22 mh         144         75         .330         42         1.17         76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Indicates frequency in MHZ at which maximum efficiency is obtained.<br>Fig. Stk. No. Ohmite No. Ind. UN MA Op. Freq. MC Length Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MILLER R.F. CHOKES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ③         13A5057         Z28         21.         600         20.60         13/4         60           ③         13A5058         Z50         7.         1000         35-110         1         48           ④         13A5059         Z144         1.8         1000         80-200         3/4         48           ④         13A5059         Z144         1.8         1000         160-350         3/4         45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ① AXIAL LEAD PHENOLIC CORE SINGLE LAYER 36,x34 L. CORE           Stock         Mfg.         Ind.         Cur.         Ohms         Net           No.         No.         UH         MA Res.         Each         No.         Nu         MA Res.         Each         No.         UH         MA Res.         Each         No.         Nu         H         MA Res.         Each         Nu         Nu         H         Nu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 13A5155 P300 Parasitic Suppressor 1.68     MILLEN COIL FORMS     Low loss mica base phenolic. Supplied less prongs for permanent mount-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ing. Dia. 1" x 15%" long.<br>No. 13A5038. No. 45000. Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ③ AXIAL LEAD FERRITE CORE 3 PI. 1/4/"x%" LG. CORE           Stock         Mfg.         Ind.         Cur.         Ohms         Net           No.         No.         MH         MA Res.         Each         No.         No.         MH         MA Res.         Each           13A5118         6302         2.5         160         9         \$0.99         13A5125         6306         10.0         100         31         \$1.26           13A5119         6304         5.0         160         14         1.14         13A5126         6308         25.0         65         82         1.28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| MORRIS COIL-WINDER FOR ELECTRONICS<br>QUICKLY PAYS FOR ITSELF Well constructed hand-powered ma-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FREQUENCY SELECTIVE R.F. CHOKES<br>Maximum efficiency and highest impedance at specific operating frequen-<br>cies eliminates the designer's task of attempting to choose the best coll<br>for a particular application. Covers the major Amateur and Industrial com-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| chine for accurately winding modern<br>style coils, chokes, etc. Fully adjust-<br>able for self-supporting, universal and<br>honeycamb windings, solenoids, single<br>layers, spaced pi-sections, .etc. Very                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fig. Part No.         Mfg. No.         Inductance         Freq. MHz         Price           ①         1335067         RFC-3.5         266 uh         1.8-5         \$1.32           ①         1345068         RFC-7         208 uh         3.13         1.32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| practical for individuals, labs and<br>shops engaged in electronic experi-<br>menting and construction, Literally<br>pays for itself by saving cost for fac-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ①         13A5089         RFC-14         84 uh         7-20         1.17           ①         13A5070         RFC-21         38.5 uh         15-30         93           ①         13A5071         RFC-28         24.0 uh         25-40         1.05           ①         13A5072         RFC-50         8.2 uh         30-90         90           ②         13A5073         RFC-144         1.72 uh         75-180         63           ②         13A5075         RFC-420         .22 uh         350-500         .75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul> <li>Makes all kinds of coils and chokes<br/>with factory accuracy.</li> <li>Handles size 22 to 40 wire.</li> <li>Counter shows number of turns.</li> <li>No. 37B334.</li> <li>S9.95</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Image: System 1         Image: System 2         Image: Sys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ORDER ALL J. W. MILLER PRODUCTS FROM BA<br>All Miller items available from BA's stock or shipped direct from factory<br>promotive, Let BA help you avoid long delays in getting your projects com-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CAPACITY RELAY COIL<br>Basic oscillator coil for constructing a capacity operated control<br>system for displays, show windows, alarms, etc. System would<br>take the place of portunity and the place of portunity and the place of portunity and the place of portunity of the place of the p |
| promptly. Let BA help you avoid long delays in getting your projects com-<br>pleted. Send ample remittance with your order. We'll refund every cent not<br>used. Ask for Miller Catalog BA Stock Number 16A1149 free.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | take the place of normal "off-on" switch and provide automatic<br>control when a person or object moves close. Coil size: "/@" dia,<br>x 21/4" H. With typical wiring diagram, Shpg. wt. 4 az.<br>No. 13A5022. Type 695. Net Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 118 Burstein-Applebee Co., 3199 Mer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | cier St., Kansas City, Mo. 64111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

J. W. MILLER COILS, SUPEREX ANTENNAS

| Thomas Area and the                                                                                                                                                                                                                                                                                                                                                                                          | MILLER SLUG TUNED CERAMIC COIL FORM                                                                                                                                                                                                                                                                                                               | 15                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| J. W. MILLER                                                                                                                                                                                                                                                                                                                                                                                                 | Precision made of ceramic material, silicone impregnated to reduce moisture absorption. Two adjustable solder terminal clips. Single hole                                                                                                                                                                                                         |                        |
| <ol> <li>Air Core Broadcast Band Colls</li> <li>② Miniature Adjustable Colls</li> <li>High gain secondaries, high impedance Ł<tremely compact="" core="" iron="" li="" units="" ½"<=""> </tremely></li></ol>                                                                                                                                                                                                 | mounting hardware.<br>Miller With Slug For With Slug For Form Size Mtg.<br>Type 1.0-20 MHz 2.0-25 MHz 25 MHz & Up Dia. Lgth. Hole                                                                                                                                                                                                                 | Net<br>Each            |
| primaries. Tune 540-1650KHz with 365 dia. 70Å is 1½" long, 0SC types are<br>mmfd. condenser, Unshielded 54" D. x 1½" long. Tune 540-1600 KHz with any<br>condenser having maximum capacity be-                                                                                                                                                                                                               | 4300 13A5023 13A5026 13A5029 .205 .593 .166<br>4500 13A5024 13A5027 13A5030 .260 .858 .192                                                                                                                                                                                                                                                        | \$1.14<br>1.23         |
| tween 250 and 450 mmfd. Oscillator coils<br>track with IF amplifier between 100 and                                                                                                                                                                                                                                                                                                                          | 4400 13A5025 13A5028 13A5031 .375 1.06 .252<br>MILLER SLUG TUNED PHENOLIC COIL FOR                                                                                                                                                                                                                                                                | 1.38<br>MS             |
| Stk. No.         No.         Description         Each         550         KHz.         Type         70-05C         has         capacity           13A5010         43-A         Antenna         \$1,23         tapped secondary;         69-05C         has         capacity           13A5011         45-C         Tapped 0sc;         1,35         coupled winding.         Clip mtg.         in %,4" hole. | Constructed of varnish impregnated tubing. Mechanically stronger than construction extremely low loss. With 2 adjustable solder rings.                                                                                                                                                                                                            |                        |
| Unshielded.<br>Shielded Sub-Miniature Oscillator Coll. the Million No. Decemination                                                                                                                                                                                                                                                                                                                          | Miller         With Slug For         With Slug For         With Slug For         Form Size         Mtg.           Type         1.0-20         MHz         2.0-25         MHz         2.5         MHz         4.0p         Dia.         Lgth.         Hole           20A000         13A5032         13A5036         .250         .860         .192 | Net<br>Each<br>\$0,96  |
| condenser. Requires no padder. 13A5013 70-A Antenna \$1.35<br>13A5014 70-OSC Oscillator 1.20                                                                                                                                                                                                                                                                                                                 | 21A000 13A5033 13A5035 13A5037 .375 1.125 .252<br>Miller High "Q" Slug Tuned Wound Co                                                                                                                                                                                                                                                             | .96                    |
| 13A5012 Miller Type 2021. Ea. \$2,22 13A5015 69-OSC Oscillator 1.20 (2) COMPACT UNIVERSAL OSCILLATOR COIL                                                                                                                                                                                                                                                                                                    | On Phenolic forms $\frac{1}{4''}$ dia. x $\frac{1}{3}$ long. Order by stock No. 13A5009 and Manufacturers number of coil selected.                                                                                                                                                                                                                | K D                    |
| Iron core adjustable for tracking with variable condensers having max, value between 250 and 450 mmfd, in padded circuits and 100 to 200 mmfd, in un-                                                                                                                                                                                                                                                        | Range uh Net Range uh<br>Mfg. No. Min. Max. Each Mfg. No. Min. Max.<br>20A107RBI .088 .120 \$1.08 20A686RBI 5.08 8.16                                                                                                                                                                                                                             | Net<br>Each<br>\$1,14  |
| padded circuits with all types of tubes. Size 5%" dia x1½" high. Spring mtg.<br>clips fit ¾" dia. hole. RF range 540-1800 KHz. IF range 100-550 KHz. 4 oz.<br>No. 1345016. Miller No. 71-0SC. Net Each                                                                                                                                                                                                       | 20A157RBI         .108         .180         1.08         20A826RBI         7.35         9.84           20A227RBI         .162         .264         1.08         20A105RBI         8.85         12.0                                                                                                                                               | 1,14                   |
| (3) ADJUSTABLE ALL-WAVE RADIO COILS                                                                                                                                                                                                                                                                                                                                                                          | 20A337RBI .238 .396 1.14 20A155RBI 10.8 18.0<br>20A477RBI .356 .564 1.14 20A25RBI 16.2 26.4<br>20A637RBI .508 .816 1.14 20A335RBI 23.8 39.6                                                                                                                                                                                                       | 1.26<br>1.26<br>1.26   |
| High Q unshielded. 3/22". Tune with 365 mmfd. condenser. Order by Group Stock<br>No. 13A5017 and Miller No. Net Each                                                                                                                                                                                                                                                                                         | 20A827RBI         .735         .984         1.14         20A475RBI         35.6         56.4           20A106RBI         .885         1.20         1.14         20A657RBI         50.8         81.6           20A156RBI         1.08         1.14         20A257RBI         50.8         81.6                                                     | 1.26<br>1.26<br>1.26   |
| Description 140-420 KHz 540-1700 KHz 1.7-5.5MHz 5.5-15 MHz 12-36 MHz<br>Antenna X5495A A5495A B5495A C5495A D5495A                                                                                                                                                                                                                                                                                           | 20A226RBI 1.62 2.64 1.14 20A104RBI 88.5 120.<br>20A336RBI 2.38 3.96 1.14 20A154RBI 108. 180.                                                                                                                                                                                                                                                      | 1.26<br>1.29           |
| RF Stage         X5495RF         A5495RF         B5495RF         C5495RF         D5495RF           Std. Osc.         X5495C         A5495C         B5495C         C5495C         D5495C           Tapped Osc.         X5496C         A5496C         B5496C         C5496C         D5495C                                                                                                                     | 20A476RBI 3.56 5.64 1.14 20A224RBI 162. 264.<br>Coil Selector Chart for Phenolic form Coils Above                                                                                                                                                                                                                                                 | 1.29                   |
| FM RF COILS AND TUNING CONDENSER                                                                                                                                                                                                                                                                                                                                                                             | Shows proper coil for use in circuits intended for the various amateur t<br>when parallel capacitance is known.                                                                                                                                                                                                                                   |                        |
| Signal frequency, 88-108 MHz, permeability tuned coils for clip mounting in $\frac{1}{2}$ , dia, hole. Designed to tune with 6.6-23 mmfd. 3 section condenser                                                                                                                                                                                                                                                | Band         40 MMFD         90 MMFD         130 N           1.8         MHz (160 Mtrs)         20A224RBI         20A825RBI         20A63           3.6         MHz (75/80 Mtrs)         20A475RBI         20A225RBI         20A15                                                                                                                | 85RB1                  |
| type 1461BS below. Osc. coil tracks with 10.7 MHz IF.  Stk. No. Miller No. Description Net Each 13A5018 1447 88-108 MHz Ant, Coil \$1.32                                                                                                                                                                                                                                                                     | 7.2 MHz (40 Mtrs) 20A155RBI 20A686RBI 20A3<br>14.2 MHz (20 Mtrs) 20A336RBI 20A156RBI 20A1                                                                                                                                                                                                                                                         | OGRBI                  |
| 13A5019         1448         88-108         MHz RF Coil         1.32         UF           13A5020         1449         88-108         MHz Osc. Coil         1.32         UF                                                                                                                                                                                                                                  | 21.3 MHz (15 Mtrs)         20A156RBI         20A106RBI         20A3278BI           28.0 MHz (10 Mtrs)         20A827RBI         20A337RBI         20A2278BI           51.0 MHz (6 Mtrs)         20A227RBI         20A107RBI                                                                                                                       | 27RBI                  |
| 13A5021         1461BS         3 Sect. FM Tuning Cond.         4.44           MILLER HIGH Q                                                                                                                                                                                                                                                                                                                  | VERTICAL MOUNTED PRINTED CIRCUIT                                                                                                                                                                                                                                                                                                                  |                        |
| FERRITE ROD                                                                                                                                                                                                                                                                                                                                                                                                  | VELVETORK ADJUSTABLE R.F. COILS<br>The coil form is Polyester impregnated Alpha-Cellulose tubing with inter-                                                                                                                                                                                                                                      |                        |
| ANTENNAS 1 2 3<br>Highest quality Litz wire, wound on low loss ferrite cores. Takes place of                                                                                                                                                                                                                                                                                                                 | nally bonded resilient ribs which provide both thread and torque control.<br>Coils may be adjusted from either end of form. Dimensions (form only)<br>Over Collar 3/a" Dia. x 3/a" long. Proper coll can be selected by substitut-                                                                                                                |                        |
| antenna coll, hank or loop. Range 540-1650 KHz.<br>① Adjustable Sub-Miniature. 6300—36x21/4"; 2002—1/2x21/2". Mounts with clips.                                                                                                                                                                                                                                                                             | ing similar values in chart above.<br>Specify No. 13A5143 and Miller No.<br>Miller Range uh Miller Range uh                                                                                                                                                                                                                                       |                        |
| Stk. No.         Type         For Set         Tunes With         Net Each           13A5145         6300         Tube         350-450 Mmfd.         \$1.23                                                                                                                                                                                                                                                   | No. Minimum Maximum Each No. Minimum Maximum 23A107RPC .095 .125 \$1,05 23A686RPC 4.6 8.5                                                                                                                                                                                                                                                         | Each<br>\$1.14         |
| 13A5146         2002         Transistor         250-450         Mmfd.         1.44           ③ Flat Style.         ¼xx¾x3¾".         Remarkably sensitive.         13A5147         2004         Transistor         365         Mmfd.         2.10                                                                                                                                                            | 23A157RPC         .130         .170         1.05         23A826RPC         5.6         10.0           23A227RPC         .185         .265         1.05         23A105RPC         7.1         12.5           23A337RPC         .285         .410         1.05         23A155RPC         10.0         18.7                                          | 1.14<br>1.14<br>1.26   |
| 13A5148         2005         Transistor         130 Mmfd.         2,10           (a) Long Loop-Rod. Highest efficiency. 705A, 3¼x9½".         2000, 3¼x9".         34x9".                                                                                                                                                                                                                                    | 23A477RPC .420 .580 1.05 23A225RPC 14.8 27.5<br>23A687RPC .540 .850 1.05 23A335RPC 22.0 41.0<br>23A827RPC 640 1.00 1.05 23A475RPC 31.0 58.0                                                                                                                                                                                                       | 1.26<br>1.26<br>1.28   |
| 13A5149         705A         Tube         300-400 Mmfd.         2.25           13A5144         2000         Transistor         365 Mmfd.         2.16                                                                                                                                                                                                                                                        | 23A106RPC .760 1.25 1.05 23A685RPC 43.5 85.0<br>23A156RPC 1.20 1.87 1.05 23A825RPC 61.0 100.0                                                                                                                                                                                                                                                     | 1.26<br>1.26<br>1.26   |
| SUPEREX POWERFUL RADIO ANTENNAS                                                                                                                                                                                                                                                                                                                                                                              | 23A326RPC 1.65 2.75 1.14 23A104RPC 76.0 125.0<br>23A336RPC 2.40 4.10 1.14 23A154RPC 105.0 187.0<br>23A476RPC 3.40 5.80 1.14 23A224RPC 160.0 275.0                                                                                                                                                                                                 | 1.26                   |
| ANTENNA HANKS FOR OF CONTENNA HANKS FOR                                                                                                                                                                                                                                                                                                                                                                      | TRANSISTOR I.F. COMPONENTS<br>Modern design shielded transformers for                                                                                                                                                                                                                                                                             |                        |
| PERFORMANCE                                                                                                                                                                                                                                                                                                                                                                                                  | solid state equipment, 8814 Incorporates a<br>single section mechanical filter that<br>sharpens the 1.F. passband appreciably 4                                                                                                                                                                                                                   | 845                    |
|                                                                                                                                                                                                                                                                                                                                                                                                              | KHz at 6 db and 12 KHz at 20 db.<br>SUB-MINIATURE 10.7 MHz TRANSISTOR TRANSFORMERS                                                                                                                                                                                                                                                                | 1. 21                  |
| O EXTRA POWERFUL 7" KING-SIZE LOOPSTICK FOR TUBE RADIOS     Outperforms them all. Almost like adding another stage of amplification to the set. Gives amazing                                                                                                                                                                                                                                                | Stock Miller Size Inches<br>No. No. Specs. Description L. W. D.<br>13A5127 8849 500 kc. P/P Ratio Detector 25/3/2/4/2/                                                                                                                                                                                                                            | Each<br>\$2,70         |
| performance because of extreme high "Q" of 425. Self-locking full adjust-<br>ment for "peaking." With mounting bracket.                                                                                                                                                                                                                                                                                      | 13A5128 8850 300 kc. P/P Discriminator <sup>2</sup> 3/ <sub>2</sub> ×3/ <sub>6</sub> ×3/ <sub>2</sub><br>13A5129 8851-A 6 db 300 kc Double Tuned I.F. <sup>2</sup> 3/ <sub>6</sub> ×3/ <sub>4</sub> ×3/ <sub>2</sub>                                                                                                                              | 2.70<br>2.10           |
| POPULAR "VARI-LOOPSTICK"                                                                                                                                                                                                                                                                                                                                                                                     | 13A5130 8852 100k-300 Single Tuned I.F. 132x132x56<br>13A5131 8853 20k-500 Single Tuned I.F. 132x132x56<br>13A5132 8854 25k-500 Single Tuned I.F. 132x132x56                                                                                                                                                                                      | 1.80<br>1.80<br>1.80   |
| With adjustment knob and circuits. Most popular for experimenters who like to build tiny crystal radios.                                                                                                                                                                                                                                                                                                     | STANDARD 10.7 MHz TRANSISTOR TRANSFORMERS<br>Stock Miller Size Inches                                                                                                                                                                                                                                                                             | _                      |
| OPOWERFUL "VARI-TENNA" FOR TUBE RADIOS                                                                                                                                                                                                                                                                                                                                                                       | No.         Description         L.W.D.           13A5159         1601         Transistor First IF, 10.7 MHZ         34x34x2"           13A5160         1602         Transistor Second IF, 10.7 MHZ         34x34x2"                                                                                                                               | Each<br>\$2.40<br>2.49 |
| <ul> <li>Boasts sensitivity and gain up to 25 times over old loops and hanks. Completely adjustable by screwing "slug" in and out. Small enough ta fit any set. Also popular for tiny tunable crystal radias. 2" long, "ia" dia. Clip-</li> </ul>                                                                                                                                                            | 13A5161         1603         Transistor         Third         I.F.,         10.7         MHZ         3/4x3/4x2''           13A5162         1604         10.7         MHZ         Discriminator         3/4x3/4x2''                                                                                                                                | 2.49<br>2.67           |
| mounts in M <sup>2</sup> hole. 75C<br>No. 13A5005. Model VT. Net Each 75C                                                                                                                                                                                                                                                                                                                                    | 13A5163 1605 10.7 MHZ Ratio Det. w/Diodes 3/4x3/4x2"<br>13A5164 1606 10.7 MHZ Ratio Detector 3/4x3/4x2"<br>SUB-MINIATURE 455KHz TRANSISTOR TRANSFORMERS                                                                                                                                                                                           | 5.04<br>2,67           |
| (3) TRANSISTOR LOOPSTICK<br>Micrometer adjustment for maximum performance. Tapped for impedance                                                                                                                                                                                                                                                                                                              | 13A5133         8805         20 kc. P/P         Ratio Detector         2½2x ½x½2           13A5134         8806         20 kc. P/P         Discriminator         2½2x ½x½2                                                                                                                                                                        | \$2.10<br>2.10         |
| match. 2" long, 1," diameter.<br>13A5006. Model VLT-240. For 365-410Mmfd. Tuning Cond. Net Ea75C                                                                                                                                                                                                                                                                                                             | 13A5136 8808" 100k Input Discriminator Pri. 44X44X4                                                                                                                                                                                                                                                                                               | 2.10<br>1.65<br>1.65   |
| <ul> <li>3A5007. Model VLT-950. For 75-365 Mmfd. Tuning Cond. Net Eq</li></ul>                                                                                                                                                                                                                                                                                                                               | 13A5138         8810         50k-800         Single Tuned I.F.         ½x%x <sup>1</sup> ½z           13A5139         8811         30k-500         Single Tuned I.F.         ½x%x <sup>1</sup> ½z                                                                                                                                                 | 1.50<br>1.50<br>1.50   |
| • Even more powerful than the Vari-Tenna.<br>Has larger ferrite core, fully adjustable, by sliding in and out of coil form.                                                                                                                                                                                                                                                                                  | 13A5141 8813 Oscillator (Tuning Cap. 78 to<br>(455 KHz I.F.) 110 pf. Max.) 3/2x 3/2x 1/2/2                                                                                                                                                                                                                                                        | 1.50                   |
| Self-locking. Extended length approx. 4". Clip mounts in <sup>5</sup> " hole or with bracket supplied.<br>No. 13A5008. Model EFL. Net Each                                                                                                                                                                                                                                                                   | 13A5142     8814     70k-800     Single Tuned I.F. with<br>Mechanical Filter     1%2x1%2x%       *To be used as a pair     *To be used as a pair                                                                                                                                                                                                  | 2.70                   |
|                                                                                                                                                                                                                                                                                                                                                                                                              | rcier St., Kansas City, Mo. 64111                                                                                                                                                                                                                                                                                                                 | 119                    |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stock<br>No.         Mfg.<br>No.         Volts<br>Volts         Amps.<br>Amps.         Fig.<br>(a)         Each<br>(b)         1.9<br>(b)         Ol-99<br>(b)         Stock<br>No.         Mfg.<br>No.         Volts<br>No.         Amps.<br>No.         Kaps<br>(b)           12A4086         PR2         2.4         .5         (b)         \$0.20         \$1.23         \$1.06         12A4057         51         7.5         .22           12A4068         PR4         2.33         .27         (c)         20         1.23         1.06         12A4057         51         7.5         .22           12A4074         6S5         115         6 W.         (c)         .20         1.23         1.06         12A4059         55         7.0         .41           12A4074         6S5         115         6 W.         (c)         .20         1.23         1.06         12A4059         55         7.0         .41           12A4074         6S5         1.5         (c)         .20         1.23         1.06         12A4090         158         14.0         .24           12A4088         PR12         6.3         .15         (c)         .20         1.23         1.06         12A4093         158         14.0         .24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (a)       14       .84       .72       12A4063       1156       12.8       2.1       63       .47       2.77       2.39         (a)       .15       .88       .75       12A4051       1490       3.2       .16       (a)       .21       1.25       1.06         (a)       .14       .84       .72       12A4055       1493       .6.5       2.75       (b)       1.27       7.76       6.60         (a)       .17       1.05       .90       12A4052       1815       14       .2       (c)       1.24       1.23       4.77         (a)       .26       1.58       1.34       12A4053       1819       28       .04       (c)       .37       2.22       1.89         (b)       .21       1.21       1.05       .90       12A4053       1819       28       .07       (c)       .37       2.22       1.89         (c)       .33       1.99       1.69       12A4054       1829       28       .07       (c)       .36       2.15       1.89         (c)       .33       1.99       1.69       12A4056       1831       14       .24       (c)       .17       1.02       <                                                                                                                                                                                              |
| *Double Contact Candelabra Bayor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | net Base. +Flasher For Lanterns.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| HWA<br>HWA<br>HWA<br>BUSE<br>SUB-MINIATURE GMW<br>FUSES AND FUSEHOLDER<br>Body size of fuse only .27 x .25". Dia, of<br>holder body. 375". Fuse has transparent<br>window for visual inspection of element.<br>Fuse may be used alone for mounting<br>fuse for the provided and for the provided an                                                                                                                                                                                                                                                                                                                                                                                         | GE NEON AND ARGON LAMPS<br>WE34-40<br>AR-1<br>NE30<br>NE45<br>AR-3<br>NE48<br>AR-4<br>NE51<br>NE51<br>NE51<br>NE51<br>NE20<br>NE2<br>AR-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| into         printed         circuit         boards.         HWA         holder         from         starting         currents         or surges—yet           can         be panel         mounted or soldered         quick on shorts.         Rated 250 V.         UL         listed;           printed         circuit         boards.         AF         knob         makes         '125 V.           bloder         waterproof.         Carry 100%, open at         Stock         Amps         Box of 10           200%         within 10         seconds.         No.         No.         Rating         1-9         10 Up           20ate         Min         1/200 \$7.50         \$6.30         \$5.35         12A8197         FNM         1/10         \$3.50         \$2.90           12A8214         GMW         1/200         \$7.50         \$6.30         \$3.51         12A8197         FNM         1/2         3.50         2.90           12A8216         GMW         1/200         \$7.50         \$6.30         \$3.51         12A8200         FNM         1/2         3.50         2.90           12A8216         GMW         1/10         5.60         4.70         4.00         12A8203         FNM         2.10 <td>NEON LAMPS<br/>Standard Screw BaseNEON LAMPS<br/>Midget Flange TypeFor 105-125 volts AC or DC. Built-in<br/>resistor.NEON LAMPS<br/>Midget Flange TypeStk. No. Type Watts Each 10 @ Ea.<br/>12A4130 NE30 1 \$1.14 \$0.91NE20 \$0.78 \$0.6212A4131 NE34 2 1.76 1.41<br/>12A4132 NE40 3 2.56 2.05I2A4134 NE2D \$0.78 \$0.62Candelabra Screw Base<br/>For 105-125 volts. AC or DC. Built-in<br/>resistor.NEON LAMPS<br/>mess requires external 30K resistor.For 105-125 volts. AC or DC. Built-in<br/>resistor.Stk. No. Type Each 10 @ Ea.<br/>12A4134 NE2J .78 .62NE3D requires external 7.5K resistor for<br/>105-125 volts. AC or DC. Built-in<br/>resistor.NEON LAMPS<br/>Stk. No. Type Watts Each 10 @ Ea.<br/>12A4134 NE2J .78 .62NE32 requires external 7.5K resistor for<br/>105-125 volts AC or DC. NE48 requires<br/>external 30K resistor.NE41 High brightness. Requires<br/>30K series resistor for 105-125 V. AC<br/>or DC.Stk. No. Type Watts Each 10 @ Ea.<br/>12A4135 NE32 1 \$1.14 \$0.91<br/>12A4136 NE48 1/a .67 .54Stk. No. Type Watts Each 10 @ Ea.<br/>NE51 reminered b00K resistor.Miniature Bayonet Base Type.<br/>NE51 reminered b00K resistor.But glow with limited ultra-violet con-<br/>tent. For 105-125 volts AC or DC. ARA<br/>Prequires series external 15K resistor.</td> | NEON LAMPS<br>Standard Screw BaseNEON LAMPS<br>Midget Flange TypeFor 105-125 volts AC or DC. Built-in<br>resistor.NEON LAMPS<br>Midget Flange TypeStk. No. Type Watts Each 10 @ Ea.<br>12A4130 NE30 1 \$1.14 \$0.91NE20 \$0.78 \$0.6212A4131 NE34 2 1.76 1.41<br>12A4132 NE40 3 2.56 2.05I2A4134 NE2D \$0.78 \$0.62Candelabra Screw Base<br>For 105-125 volts. AC or DC. Built-in<br>resistor.NEON LAMPS<br>mess requires external 30K resistor.For 105-125 volts. AC or DC. Built-in<br>resistor.Stk. No. Type Each 10 @ Ea.<br>12A4134 NE2J .78 .62NE3D requires external 7.5K resistor for<br>105-125 volts. AC or DC. Built-in<br>resistor.NEON LAMPS<br>Stk. No. Type Watts Each 10 @ Ea.<br>12A4134 NE2J .78 .62NE32 requires external 7.5K resistor for<br>105-125 volts AC or DC. NE48 requires<br>external 30K resistor.NE41 High brightness. Requires<br>30K series resistor for 105-125 V. AC<br>or DC.Stk. No. Type Watts Each 10 @ Ea.<br>12A4135 NE32 1 \$1.14 \$0.91<br>12A4136 NE48 1/a .67 .54Stk. No. Type Watts Each 10 @ Ea.<br>NE51 reminered b00K resistor.Miniature Bayonet Base Type.<br>NE51 reminered b00K resistor.But glow with limited ultra-violet con-<br>tent. For 105-125 volts AC or DC. ARA<br>Prequires series external 15K resistor. |
| 99 499 999 <sup>102</sup> 1035.<br>1288212 HWA Holder .64 .53 .45 No. 12.48211 1-99 Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NE51 requires external 200K resistor for Stk. No. Type Watts Each 10@Ea.<br>105-125 volts AC or DC. NE51H high 12A4137 AR-1 2 \$1.90 \$1.52<br>brigthness requires 47K external resistor. 12A4138 AR-3 ¼ .85 .68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| FUSE MOUNTINGS<br>1 12A1129, Buss 3828-1. For AGX 1" fuse.<br>Your Choice Each<br>1-99 19c 100-499 16c 500 Up136c<br>Spring clips for any length Var dia. fuse.<br>2 12A1134, Buss 5682-41. 1-99 Each 3c<br>100-499 Ea. \$0.024 500 Up.Ea. \$0.02<br>FUSE ASSORTMENTS<br>With handy inventory feature. Has all fuses normally needed When<br>box is removed label shows what size fuse needs reordering.<br>255 Service Fuse Assortment, 30 different sizes. Wt. 336 lbs.<br>No. 12A8193. Mfg. No. 255. Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12A4071       NE51       1/25       \$0.20       \$0.16       12A4139       AR-4       ¼       .75       .66         12A4072       NE51H       .22       .18       12A4140       AR-9       1/25       .20       .16         INTERNATIONAL RECTIFIER         REPLACEMENT CRYSTALS FOR COLOR TV         Manufactured to the original specifications of those used in the color sets on the market today.         CY2 replaces GE41, Westinghouse 296V023C, CY3 replaces Admiral 93B22-3, CY5 replaces Warwick 33-7-3 and Zenith 103-89. CY1 fits most other models.         Stock       Mfg.       Resonant       Capacitance       Price         No.       No.       Frequency       (Pico Farads) Leads       1-4 Ea. 5-9 Ea.         12A2024       CY1       3579.545 KHz       7.0       2       3.35       3.00         12A2022       CY2       3579.545 KHz       7.0       2       3.65       3.27                                                                                                                                                                                                                                                                                                                                                                  |
| 133 Special Electronic Fuse Assortment, 26 different sizes,<br>No. 12A8194, Mfg. No. 130. Each \$18.30<br>WORKMAN AMP FUSES<br>Protective fusing device. Exact replacement for numbers shown.<br>No. 12A2430, Workman W1000-1. Coded White, replaces RCA part #945392-3.<br>No. 12A2431, Workman W3-1. Coded Red, replaces RCA part #945392-3.<br>No. 12A2432, Workman W3-1. Coded Red, replaces RCA part #945392-3.<br>No. 12A2432, Workman W400-1. Coded Blue, replaces RCA part #945392-3.<br>No. 12A2432, Workman W400-1. Coded Black, replaces RCA part #945392-4.<br>Emerson 808232, Olympic FU-28146.<br>No. 12A2433, Workman W1700-1. Coded Green, replaces Emerson Part #808236.<br>Zenith 136653.<br>No. 12A2437, Workman W1700-1. Coded Green, replaces Emerson Part #808241.<br>No. 12A2438, Workman W1700-1. Coded Green, replaces Emerson Part #808238.<br>Zenith 136-52.<br>No. 12A2439, Workman W200-10. Used in Damper Circuit. Replaces RCA Part #945-309-1.<br>Your Choice.<br>45C 10 Asst.<br>Each 39C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Image: Product Constraints       1242004       CY3       35/9:343 MH2       3.0       2       3.05       3.65         WORKMAN CIRCUIT BREAKERS         Universal replacement for radio, TV, etc. Top quality         American made. Recognized by ULL. Circuit is refused         by pushing and releasing button.         Specify Stock No. of Type Wanted.         Your Choice Each 1-9         Stock Mfg. Break         Carry         Stock Mfg. Break         Carry         No.         No.         Current         Current         12A1313         FA1.5       1.5 Amp         12A1324       FA4.5         4.5       5.5 Amp         12A1325       FA5.5         12A1326       FA2.75         2.2 Amp       1.25 Amp         12A1325       FA5.5         12A1326       FA2.5         12A2480       FA2.75         2.3 Samp       1.9 Amp         12A1325       FA3.5         3.6 Amp       1.2 Amp         12A1327       FA3.5         12A2480       FA2.75         2.3 Amp       1.9 Amp         12A1323       FA3.5                                                                                                                                                                                                                                                |

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 500-249
 No. 12A4106. Dram 1-9 Each......34c Red Green Choice Each 
 Specify Stock No. 12A974 and Color on Orders

 Diatco No. 103-3101-1331-403
 Amber Diatco No. 103-3101-1333-403

 Diatco No. 103-3101-1332-403
 Clear Diatco No. 103-3101-1337-403

 1-9
 10-24
 25-99
 100-249
 250-499
 500-299
 Postlight Indicator Lights. All polystyrene. Extremely decorative. Lens is 56'' square, extends 34'' front of panel, 1%'' behind panel face. Mounts in panels up to  $\%''_{4}$  thick. Mounts in  $1\%''_{2}$  hole. High brightness non-replaceable neon lamp with built-in resistor for direct connection to 110-125 V. AC or DC. Solder lug terminals. Specify choice of color: Red, Amber or Clear. Red Green Choice 10-24 25-99 \$2.20 \$2.64 \$2.00 \$1.84 \$1.70 Each 1/2 INCH INDICATOR LIGHTS FOR MINIATURE BAYONET LAMPS 1-9 Each......69c DRAKE MONEY-SAVING INDICATOR LIGHTS G. Cint 2 4 3 1 For T314 incandescent lamps. 2-55 volts. Smooth faced translucent jewels in  $\frac{1}{2}$  brass holder. Buib replaceable from front, Mounts in  $\frac{1}{2}$  hole in panels up to  $\frac{1}{2}$  thick. 21/2" long. UL and CSA listed. Solder terminals. Less lamp. (2) **(1)**  $\widehat{\mathbf{n}}$ 3 Hi-Brightness non-replaceable neon lamp assembly ready to operate on 125 volts AC. Designed for minimum 5000 hour life. 1/3 watt rated. Gives that new modern appear-ance at very low cost. Choice of two mountings. One-piece nylom body and lens construction. Size: body dia. 3/4". Specify choice of color: Red, White or Amber. Stock Fig. No. Drake No. Description Hole Panel Face () WHITE NICKEL FINISH ② 5%" PLASTIC STOVEPIPE (DOME) LENS (2) %4" PLASTIC STOVEPIPE (DOME) LENS Otherwise as above.
Specify No. 12A835 and Color Desired Red Dialco No. 95-9110-0931-102 Green Dialco No. 95-9110-0932-102 Amber Dialco No. 95-9110-0933-102 Clear Dialco No. 95-9110-0933-102 Choice 10-24 25-99 100-249 Each 1-9....73C 69C 65C 61C D will the NUKEL FIRISH No. 12A885 and Color Desired Dialco No. 81-9110-0111-102 Dialco No. 81-9110-0112-102 Dialco No. 81-9110-0113-102 Specify Red Green Red Green 11% Amber 1%2" \$0,365 Dialco No. 81-9110-0114-102 Dialco No. 81-9110-0115-102 10-24 25-99 100-249 Blue White Amber Clear Choice Each 1-9..... 250-499...... Choice Each 1-9.....82c 250-499......64c 720 77c 68c 53c 37c 100 Up Ea.....\$0.333 500-999...... .....60c **O OPEN TYPE 1/2 UNCH INDICATOR LIGHTS** "MINEON" NEON GLOW INDICATOR LIGHTS  $\square$ 1/2" transparent faceted jewel. Bulb replaceable from front of panel. 1%," mtg. hole. Specify Stock No. 12A1161 and Color Desired MALTO Prices Each 25-99 100-249 250-499 500-999 43c 40c 37c 34c 1-9 10-24 Color Dialco 502-8136-2131-102 502-8136-2132-102 502-8136-2133-102 34c 34c Red 50c 46c Green 50c 46c 43c 40c 37c 46c 430 40c 370 34c 50 c Colorless or Translucent White. Amber No. 128715. Drake HR118-604 1-9 Each.......84c 10-24 Each... **O ANGLE BRACKET** 1/2 INCH INDICATOR LIGHT Economical angle bracket assemblies. With  $\frac{1}{2}$ " transparent faceted jewel. Mount in  $\frac{1}{3}$ " hole. Bracket held by threaded shank of iens holder. Buib accessible from rear. 76c 25-99 Each 70c 100 Up Each .63c **MINIATURE BAYONET BASE INSTRUMENT** Screw Base Specify No. 12A1156 and Color. Dialco No. 502-1015-0122-102 en Dialco No. 502-1015-0122-102 ber Dialco No. 502-1015-0123-102 Bayenet Base Specify No. 12A1157 and Color. Dialco No. 502-1025-2131-102 en Dialco No. 502-1025-2133-102 loer Dialco No. 502-1025-2133-102 ice 1-9 10-24 Hood type for illuminating front of panel on instruments and equipment. Has miniature bayonet socket. Mounts from front in panels up to  $\frac{1}{24}$  in  $\frac{1}{3}$  dia. hole. Bulb replaceable from front. See page 37 for bulb. Black matte finish. Red Red Green Amber Choice Green No. 12B716. Drake 168E 1-9 Each......\$1.42 10-24 Each......\$1.28 25-99 Each......\$1.19 100 Up Each......\$1.067 25-99 100-249 250-499 500.999 24c 22c 26c Each 34c 31c 28c SUB-MINIATURE INDICATOR LIGHTS DRAKE "TINYLITE" INDICATOR LIGHTS SMALLEST INDICATOR LIGHTS WITH MIDGET SCREW BASE REPLACEABLE LAMP Fully enclosed. Supplied with midget lamp installed. Lamps re-placed and units mounted from front of panels up to 3/2" thick, in 3/4" dia. mounting hole on 13/2" centers. Friction device pre-vents lamps from loosening in use. Lens dia. 3/6". Extends 3/4" in front of panel. For midget flange base lamps such as number 327 or 328. Black nickel finish. 12'' transparent stovepipe (dome) lens. Mounts in  $12_{21}''$  hole with nut behind panel. Lamp removable from front. Solder lug terminals. Extends  $3_{40}''$  behind panel. 
 Specify Stock No. 12A977 and Color on Orders.

 Red
 Dialco No. 101-5030-0931-201

 Amber
 Green

 Dialco No. 101-5030-0932-201
 White

 Choice
 1-9

 10-24
 25-99

 Each
 \$1.26
 Dialco No. 101-5030-0933-201 Dialco No. 101-5030-0935-201 Dialco No. 101-30 Dialco No. 101-30 250-499 Specify Choice of Color: Red, Green, Amber, White, Clear or Blue. Stock Drake Lgth. Behind Lamp Replacement Your Choice Each No. No. Panel Face Voltage Lamp 1-9 10-24 25-99 500 Up 100-249 Your Choice Each 1-9 10-24 25-99 100 Up \$0.74 \$0.66 \$0.62 \$0.554 .75 .68 .63 .563 .86 .78 .72 .648 No. No. 12A4107 121-7-604 12A4108 121-14-604 12A4109 121-28-604 85c Lamp 162 \$1.00 92c 13/16" 13/16" 13/16" 29/12" As above except black anodized aluminum,  $\frac{1}{34''}$  Stovepipe (dome) Lens, mounts in  $\frac{1}{34''}$  hole with nut behind panel, extends  $\frac{4}{34''}$  behind panel face. Meets MIL MS-25256. 14 163 333 28 REPLACEMENT LAMPS FOR ABOVE Voltage 1-9 Each 
 Color on Orders.
 Color
 Diaico No.
 Co

 Yellow
 162-8430-0933-502
 Wh

 Blue
 162-8430-0934-502
 Ch

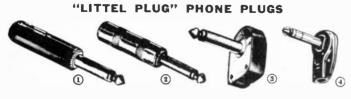
 25-99
 100-249
 97
 Specify Stock No. 12A555 and Color on Orders Color Dialco No. Color Dial Red 162-8430-0931-502 Yellow 162-843 Stock No. 12A4120 12A4121 12A4122 Voltage 10-24 Fach 100 Up Each Drake No. Color Dialco No. 162-8430-0935-502 162-8430-0937-502 \$0.35 \$0.26 \$0.177 ,178 162 163 333 White Clear 14 28 .26 .35 Blue 10-24 \$1,13 Green 162-8430-0932-502 .26 .52 25-99 \$1.05 250-499 500 Up Choice 840 90c \$1.21 97c Each **NEON INDICATOR LIGHTS** With built-in resistor for 110-125 volts. 56" plastic stove-pipe (dome) lens. Mounts in  $\frac{1}{4}$ % hole. Length  $2\frac{1}{4}$ %. Solder terminals. UL and CSA listed. Less Lamp. For NE51 Neon Lamp-56K Ohms For NE51 Neon Lamp-56K Ohms <sup>(</sup> ര (2) (8) (4) For NE51H Neon Lamp-22K ohms resistor. Specify Stk. No. 12A887 and Color Desired. resistor. Specify Stk. No. 12A886 and Color Desired. Dealer No. 05.0108.003 ③ 12A1170. Bakelite Base, Double Contact Candelabra. Fits neon lamps NE32, NE48. Dialco No. 95-9163-0931-112 Dialco No. 95-9163-0933-112 Dialco No. 95-9163-0935-112 Dialco No. 95-9163-0937-112 Dialco No. 95-9163-0937-112 249 250-499 500-999 Dialco No. 95-9108-0931-142 Dialco No. 95-9108-0933-142 Dialco No. 95-9108-0935-142 Dialco No. 95-9108-0937-142 **1-9 10-24** Red Amber White Red Amber 54c (3) Millen 33991 Double Contact Candelabra Socket for type 991 VR tube or neon White lamps. Also fits standard auto lamps. No. 12A1421. Each Clear Choice Each ... Clear 25.99 100-249 68c / 72c 84c 77c 82c ...19c 100 Up, Ea... 17c REPLACEMENT PLASTIC DOME LENS CAPS. For 12A835, 
 Specify
 Str.
 No.
 12A983 and Color on Orders.

 Red Dialco 95-0931
 Amber Dialco 95-0933
 White Dialco 95-0935
 Clear Dialco 95-0937

 Choice Each 1-9...19c
 10-24...18c
 25-99..17c
 100-249...16c
 250-4499...15c
 500 Up 14c
 100 Up, Ea... 27c

See Page 121 For Bulbs To Fit These Indicators and Sockets





Fits standard ¼4" phone jack, except Nos. S-250, S-269, S-280 and S-290 which have a .206" dia. sleeve for .210 jacks. No's. C-240, C-245 and C-270 have cable clamp. Shielded handles are nickel plated brass; others are molded plastic; %" long, ½" dia. \*Screw terminals, others solder terminals, Shpg. wt. 2 ozs.

|            |          |          |        | 2 CON  | DUCTOR | TYPES  |        |         |         |         |
|------------|----------|----------|--------|--------|--------|--------|--------|---------|---------|---------|
|            |          |          |        |        |        |        | Prices | Each    |         |         |
| Fig.       | Stk. No. | Mfg. No. | Handle | 1-5    | 6-24   | 25.49  | 50-99  | 100-249 | 250-499 | 500-999 |
| (1)<br>(1) | 12B252   | 240*     | Black  | \$0.63 | \$0.54 | \$0.50 | \$0.45 | \$0.36  | \$0.342 | \$0.324 |
|            | 128341   | C-240*   | Black  | .74    | .63    | .58    | .53    | .42     | .399    | .378    |
| (I)        | 128253   | 245*     | Red    | .63    | .54    | .50    | .45    | .36     | .342    | .324    |
| Ŏ          | 12B342   | C-245*   | Red    | .74    | .63    | .58    | .53    | .42     | .399    | .378    |
| Ō          | 12A440   | 250      | Black  | .60    | .51    | .47    | .43    | .34     | .323    | .306    |
| (Ī)        | 128111   | S-250    | Black  | .63    | .54    | .50    | .45    | .36     | .342    | .324    |
| Õ          | 12A441   | 255      | Red    | .60    | .51    | .47    | .43    | .34     | .323    | .306    |
| 0000000000 | 128254   | 270*     | Shield | .88    | .75    | .69    | .63    | .50     | .475    | .45     |
| 3          | 128343   | C-270*   | Shield | .98    | .84    | .77    | .70    | .56     | .532    | .504    |
| 0          | 12A442   | 280      | Shield | .84    | .72    | .66    | .60    | .48     | .456    | .432    |
| 2          | 12B114   | S-280    | Shield | .84    | .72    | .66    | .60    | .48     | .456    | .432    |
|            |          |          |        | 3 CON  | DUCTOR | TYPES  |        |         |         |         |
|            | 12B336   | 260*     | Black  | .98    | .84    | .77    | .70    | .56     | .532    | .504    |
|            | 128337   | S-260*   | Black  | 1.37   | 1.17   | 1.07   | .98    | .78     | .741    | .702    |
|            | 128447   | 267      | Black  | .88    | .75    | .69    | .63    | .50     | .475    | .45     |
| (1)        | 120169   | 269      | Red    | .88    | .75    | .69    | .63    | .50     | ,475    | .45     |
| (2)<br>(2) | 128338   | 290*     | Shield | 1.16   | .99    | .91    | .83    | .66     | .627    | .594    |
| (2)        | 12A448   | 297      | Shield | 1.09   | .93    | .85    | .78    | .62     | .589    | .558    |

### SWITCHCRAFT "FLAT PLUGS"

 $1\!\!\!/4''$  phone plugs except S-230 is .206'' dia. featuring flat, space-saving handles for use where conventional plugs protrude too far. No. 220 has adaptor clips to clamp standard phone tips. Nos. 228 and 238 are shielded, others have plastic handles.

|             |          |          |        | 2 CON  | OUCTOR | TYPES  |        |         |         |         |
|-------------|----------|----------|--------|--------|--------|--------|--------|---------|---------|---------|
|             |          |          |        |        |        |        | Prices | Each    |         |         |
| Fig.        | Stk. No. | Mfg. No. | Handle | 1-5    | 6-24   | 25-49  | 50-99  | 100-249 | 250-499 | 500-999 |
| 3           | 12B203   | 220*     | Black  | \$0.91 | \$0.78 | \$0.72 | \$0.65 | \$0.52  | \$0.494 | \$0.468 |
| 3           | 12B236   | 227      | Black  | .74    | .63    | .58    | .53    | .42     | .399    | .378    |
| 3<br>3<br>4 | 128108   | 228      | Shield | .81    | .69    | .63    | .58    | .46     | .437    | .414    |
| <u> </u>    |          |          |        | 101    |        |        |        |         |         |         |
|             |          |          |        | 3 CON  | DUCTOR | TYPES  |        |         |         |         |
| ด           | 12B205   | 230*     | Black  | 1.12   | .96    | .88    | .80    | .64     | .608    | .576    |
| 3           | 12A292   | S-230*   | Black  | 1.44   | 1.23   | 1.13   | 1.03   | .82     | .779    | .738    |
| ă           | 120209   | 237      | Black  | 1.09   | .93    | .85    | .78    | .62     | .589    | .558    |
| 8           | 120207   | 238      | Shield | 1.19   | 1.02   | .94    | .70    |         |         |         |
| U           | 120207   | ~J0      | ometu  | 1.13   | 1.02   | . 34   | .03    | .68     | .646    | .612    |
|             |          |          |        |        |        |        |        |         |         |         |



Rugged jacks feature cable anchor.  $\frac{1}{16}$ " 0.D.,  $2\frac{5}{24}$ " long; 121 and 131 are  $\frac{1}{2}$  x  $2\frac{4}{2}$ ". All for  $\frac{1}{4}$ " plugs except S-128, S-830 and S-1230 which are .210". \*Screw terminals, all others are solder terminals. 2 CONDUCTOR TYPE

|            |          |          |         | 2 601  | DOCIOK | TIPES  |        |         |         |         |
|------------|----------|----------|---------|--------|--------|--------|--------|---------|---------|---------|
|            |          |          |         |        |        | 1      | Prices | Each    |         |         |
| Fig.       | Stk. No. | Mfg. No. | Handle  | 1-5    | 6-24   | 25-49  | 50-99  | 100-249 | 250-499 | 500-999 |
| 0          | 120229   | 80*      | Black   | \$0.95 | \$0.81 | \$0.74 | \$0.68 | \$0.54  | \$0.513 | \$0.486 |
|            | 120282   | 88       | Black   | .84    | .72    | .66    |        |         |         |         |
| 8          |          |          |         |        |        |        | .60    | .48     | .456    | .432    |
| (2)        | 120277   | 120*     | Shield  | 1.26   | 1.08   | .99    | .90    | .72     | .684    | .648    |
| (2)<br>(3) | 120283   | 121      | Shield  | 1.33   | 1.14   | 1.05   | .95    | .76     | .722    | .684    |
| (2)<br>(2) | 120284   | 128      | Shield  | 1.16   | .99    | .91    | .83    | .66     | .627    | .594    |
| ä          | 120285   | S-128    | Shield  | 1.23   | 1.05   | .96    | .88    |         |         |         |
| (*)        | 120203   | 3-120    | Silleiu | 1.23   | 1.03   | .90    | .00    | .70     | .665    | .63     |
|            |          |          |         | 3 CON  | DUGTOD | TYPE   |        |         |         |         |
| ~          | 400000   |          |         |        | DUCTOR |        |        |         |         |         |
| (3)        | 120286   | 131      | Shield  | 1.65   | 1.41   | 1.29   | 1.18   | .94     | .893    | .846    |
| ()<br>()   | 12C278   | 830*     | Black   | 1.26   | 1.08   | .99    | .90    | .72     | .684    | .648    |
|            | 120279   | S-830*   | Black   | 1.65   | 1.41   | 1.29   | 1.18   | .94     | .893    | .846    |
| X          | 120263   | 838      | Black   | 1.16   |        |        |        |         |         |         |
| 8          |          |          |         |        | .99    | .91    | .83    | .66     | .627    | .594    |
| (2)        | 12C280   | 1230*    | Shield  | 1.61   | 1.38   | 1.27   | 1.15   | .92     | .874    | .828    |
| ()<br>()   | 120281   | S-1230*  | Shield  | 2.00   | 1.71   | 1.57   | 1.43   | 1.14    | 1.08    | 1.03    |
| X          | 120265   | 1238     | Shield  | 1.47   | 1.26   | 1.16   |        |         |         |         |
| (4)        | 120203   | 1230     | Silleiu | 1.97   | 1.20   | 1.10   | 1.05   | .84     | .798    | .756    |
|            |          |          |         |        |        |        |        |         |         |         |

### **() THICK PANEL JACK**

Standard 14" phone jack with extra long threaded bushing for panels up to 114" thick. Overall length 214" x  $\frac{1}{3}$ " dia. Mounts in  $\frac{1}{3}$ " hole. Open circuit type. Solder terminals. - - - -

|         |          | -     |            |      |      |       | Prices | Cach    |         |         |
|---------|----------|-------|------------|------|------|-------|--------|---------|---------|---------|
| Stk. No | Mfg. No. | Dia.  | Conductors | 1-5  | 6.24 | 25-49 | 50-99  | 100-249 | 250-499 | 500-999 |
| 128201  | 151      | 1/4/1 | 2          | 1.09 |      | .85   | .78    | .62     | .589    |         |
| 128202  |          |       | -          |      |      |       |        |         |         | .558    |
| 128202  | 1258     | 1/4″  | 3          | 1.19 | 1.02 | .94   | .85    | .68     | .646    | .612    |

### SHIELDED PHONO JACKS & PLUGS

Prices Each 50-99 100-249 \$0.25 \$0.20

.26

.14

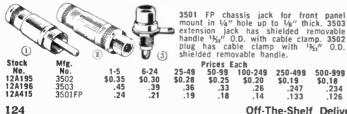
.33

.18

250-499

\$0.19

.133



ŧ. 1.55 2 (4) (1)3 ONLY 1/2 THE SIZE OF "LITTEL PLUGS" AND "LITTEL JACKS" "Tini Plug" is 3/6" dia. x 15/6" overall length. "Screw terminal, others solder. Prices Each 25-49 50-99 100-249 250-499 500-999 Fig. Stk. No. Mfg. No. Handle 1.5 6-24 128420 740\* 745\* \$0.63 \$0.50 \$0.45 Black \$0.54 \$0.36 \$0.342 \$0.324 .50 .66 .47 .45 .60 .43 .63 .84 .54 .72 .36 .342 .324 .432 12B421 Red 128422 770\* 750 Shield 12B423 Black .60 .51 .34 .323 306 128425 Shield .69 .63 .58 .46 780 .81 .437 .414

"MICRO" PLUG AND JACK Ultra-miniaturized version of Tini-Plugs above. Plug is  $1\frac{1}{4}$ " long,  $\frac{1}{4}$ " 0.D. with .097" dia. finger, Jack is  $\frac{1}{2}$ " long, mounts in  $\frac{1}{4}$ " hole on panels up to  $\frac{1}{4}$ " thick. For 2 cond. cable up to  $\frac{1}{4}$ " dia. Jack is closed circuit. 1/4" 0.D. with

 
 Mfg.
 Prices
 Each

 Fig.
 Stk. No.
 No.
 Description
 1-5
 6-24
 25-49
 50-99
 100-249
 250-499
 500-999

 12A287
 850
 Plug-Black
 80.56
 \$0.48
 \$0.44
 \$0.40
 \$0.32
 \$0.304
 \$0.288

 2
 12A288
 TR-2A
 Jack
 .42
 .36
 .33
 .30
 .24
 .228
 .216
 .36



.**39** .51 .36 .33 .43 .247 .234 .60 12B340 \$-12B Ď .34 .323 .306 STEREO 3 CONDUCTOR JACKS 1246039 148 G .84 .72 .66 .60 .48 456 .432 SWITCHCRAFT HI-D JAX

Smaller, compact phone jacks, mate with standard 14'' phone plugs. Molded body protects silver-plated springs. Mounts in 36'' 0.0, hole in panels up to  $\frac{4}{23}''$  thick. Wt. 1 oz. 111 and 112A are 2 conductor, 112B and 113B are 3 conductor.

209

.198

| STUCK  | mrg. |           |        |        |        | Prices | Each    |         |         |  |
|--------|------|-----------|--------|--------|--------|--------|---------|---------|---------|--|
| No.    | No.  | Schematic | 1-5    | 6-24   | 25-49  | 50-99  | 100.249 | 250-499 | 500-999 |  |
| 12D296 | 111  | ۵         | \$0.35 | \$0.30 | \$0.28 | \$0.25 | \$0.20  | \$0.19  | \$0.18  |  |
| 12B352 | 112A | ĉ         | .39    | .33    | .30    | .28    | .22     |         |         |  |
| 12B353 | 1128 | Ď         |        |        |        |        |         | .209    | .198    |  |
| 12B362 |      | 2 L       | .42    | .36    | .33    | .30    | .24     | .228    | .216    |  |
| 120362 | 1138 | E         | .56    | .48    | .44    | .40    | .32     | .304    | .288    |  |
|        |      |           |        |        |        |        |         |         |         |  |

### SWITCHCRAFT SHORT FRAME PHONE JACKS

Mate with standard 1/4" phone plug. Size: 3/4" high, 11/14" wide, Mount in panels 1/4" thick, Require 3/6" hole. Extends 11/4" back

| of panel.                                                                | WYL I                                                                                                | 07.                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stock<br>No.<br>12A381<br>12A382<br>12A383<br>12A379<br>12A380<br>12A306 | Mfg.<br>51<br>52<br>52A<br>52B<br>52B<br>53C<br>54                                                   | Sche-<br>matic<br>A<br>B<br>C<br>D<br>E<br>F                                                                                                                                                                                                                                     | 1-5<br>\$0.56<br>.70<br>.70<br>.81<br>.84<br>ICS F(                                                                                                                                                                                                                                                                                                                                                                       | 6-24<br>\$0.48<br>.60<br>.60<br>.69<br>.72<br>DR SV                                                                                                                                                                                                                                                                                                                                                                                                                    | 25-49<br>\$0.44<br>.55<br>.55<br>.55<br>.63<br>.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 50-99<br>\$0.40<br>.50<br>.50<br>.50<br>.58<br>.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100-<br>249<br>\$0.32<br>.40<br>.40<br>.40<br>.40<br>.46<br>.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | .38<br>.38<br>.38<br>.437<br>.456                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RY<br>S                                                                  | c [[~                                                                                                |                                                                                                                                                                                                                                                                                  | U-058                                                                                                                                                                                                                                                                                                                                                                                                                     | E (                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | F [                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | KE<br>Res                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                          | Stock<br>No.<br>12A381<br>12A382<br>12A383<br>12A379<br>12A380<br>12A306<br>12A306<br>12ECTRICA<br>B | Stock         Mfg.           No.         No.           12A381         51           12A382         52           12A383         52A           12A379         52B           12A380         53C           12A306         54           ELECTRICAL SCI         B           P         C | Stock         Mfg.         Sche-<br>No.           No.         No.         matic           12A381         51         A           12A382         52         B           12A383         52A         C           12A383         52A         C           12A380         53C         E           12A380         53C         E           12A306         54         F           ELECTRICAL SCHEMATI         B         C         C | Stock         Mfg.         Sche-           No.         No.         matic         1-5           12A381         51         A         \$0.56           12A382         52         B         .70           12A383         52A         C         .70           12A383         52A         C         .70           12A380         53C         E         .81           12A306         54         F         .84           LECTRICAL SCHEMATICS FC         B         C         C | Stock         Mfg.         Sche-           No.         No.         matic         1-5         6-24           12A381         51         A         \$0.56         \$0.48           12A382         52         B         .70         .60           12A383         52A         C         .70         .60           12A380         53C         E         .81         .69           12A380         53C         E         .81         .69           12A306         54         F         .84         .72           LECTRICAL SCHEMATICS FOR SY         B         C         C         C         E | Stock         Mfg.         Sche-         F           No.         No.         matic         1-5         6-24         25-49           12A381         51         A         \$0.56         \$0.48         \$0.44           12A382         52         B         .70         .60         .55           12A383         52A         C         .70         .60         .55           12A383         52A         C         .70         .60         .55           12A380         52A         C         .70         .60         .55           12A380         53C         E         .81         .69         .63           12A306         54         F         .84         .72         .66           LECTRICAL SCHEMATICS FOR SWITCH         B         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C | Stock         Mfg.         Sche-         Prices           No.         No.         matic         1-5         6-24         25-49         50-99           12A381         51         A         \$0.56         \$0.48         \$0.44         \$0.40           12A382         52         B         .70         .60         .55         .50           12A383         52A         C         .70         .60         .55         .50           12A380         52A         C         .70         .60         .55         .50           12A380         52A         C         .70         .60         .55         .50           12A380         53C         E         .81         .69         .63         .58           12A306         54         F         .84         .72         .66         .60           LECTRICAL SCHEMATICS FOR SWITCHCRAF         B         C         C         C         F         .64         .72         .66         .60 | Stock         Mfg.         Sche-         100-           No.         No.         matic         1-5         6-24         25-49         50-99         249           12A381         51         A         \$0.56         \$0.48         \$0.44         \$0.49         \$0.32           12A382         52         B         .70         .60         .55         .50         .40           12A383         52A         C         .70         .60         .55         .50         .40           12A383         52A         C         .70         .60         .55         .50         .40           12A380         52A         C         .70         .60         .55         .50         .40           12A380         53C         E         .81         .69         .63         .58         .46           12A380         53C         F         .84         .72         .66         .60         .48           LECTRICAL         SCHEMATICS FOR SWITCHCRAFT         JAC         F | Stock         Mfg.         Sche-         100-         250-           No.         No.         matic         1-5         6-24         25-49         50-99         249         499           12A381         51         A         \$0.56         \$0.48         \$0.44         \$0.40         \$0.32         \$0.304           12A382         52         B         .70         60         .55         .50         .40         .38           12A383         52A         C         .70         .60         .55         .50         .40         .38           12A383         52A         C         .70         .60         .55         .50         .40         .38           12A380         53C         E         .81         .69         .63         .58         .46         .431           12A306         54         F         .84         .72         .66         .60         .48         .456           LECTRICAL         SCHEMATICS FOR SWITCHCRAFT JACKS         B         Image: C         Imag |

AND JACKS (1) Military Type Plugs. Meets MIL specs. No. MIL-P-642A. High quality black plastic handle, with lug terminals attached internally with brass screws. Wt. 2 ozs. Prices Each

 Stock
 Shaft No.
 Prices Each

 Fig.
 No.
 Type MIL No.
 Dia.
 Cond.
 1.5
 6-24
 25-49
 50-99
 249
 499
 Up

 1
 12A6b053
 440
 PI-055B
 1/4"
 2
 \$1.05
 \$0.90
 \$0.82
 \$0.75
 \$0.606
 \$0.57
 \$0.54

 1
 12A449
 480
 PI-058
 2.06"
 3
 2.52
 2.16
 1.98
 1.44
 1.37
 1.30

 1
 11itary
 Type Jacks.
 Conform to MIL-J-641A specs.
 Brass nickel-plated frame, with springs of special alloy of tempered nickel silver.
 Shock
 Prices Each
 100.
 2E0

Stock No 250-499 100. MIL No. I.D. Cond. 1/4" 2 1/4" 2 
 Circuit
 1-5
 6-24
 25-49
 50-99
 249

 Open
 \$.53
 \$.45
 \$.41
 \$.38
 \$.30

 Closed
 63
 .54
 .50
 .45
 \$.36

 Open
 .81
 .69
 .63
 .54
 .44
 \$.38
 .46
 **Type** C-11 C-12A C-12B No. 12B345 JJ-034 JJ-089 223 \$.285 

 128346
 C-12A
 JJ-089
 ½"
 2
 Closed
 .63
 .54
 .50
 .45
 .36
 .342

 12A451
 C-12B
 JJ-033
 .210"
 3
 Open
 .81
 .69
 .63
 .58
 .46
 .437

 O
 Miniature
 Military
 Cord
 Connector.
 Two-conductor
 precision
 connectors.

 Molded
 plastic
 case
 cements
 together.
 Size
 ½"
 W. x
 %4"
 T. x
 1%4"
 L.

 Stock
 Descrip.
 Prices
 Each
 Prices
 Each
 125.49
 50.90
 100.249
 250.499
 50.00
 P

 128289
 410
 PJ291
 Plug
 \$0.70
 \$0.60
 \$0.55
 \$0.50
 \$0.40
 \$0.38
 \$0.36

 12A289
 810
 JJ048
 Jack
 .91
 .78
 .72
 .65
 .52
 .494
 .466

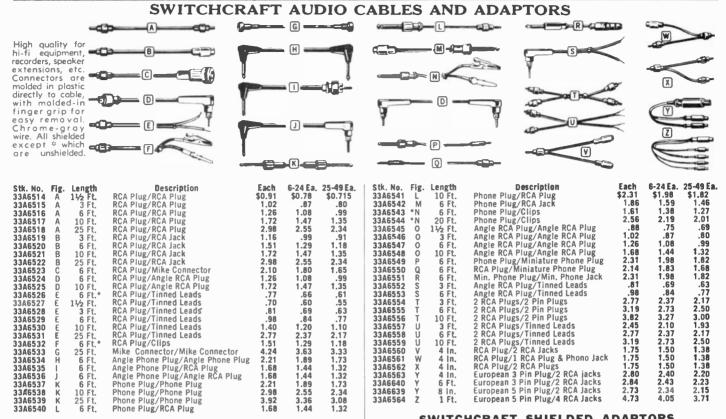
 .342 12B346

Off-The-Shelf Delivery At Factory Prices

500-999

\$0,18 .234

# SWITCHCRAFT CABLES, CONNECTORS AND ADAPTORS



10 Ft. 6 Ft.

6 Ft.

20 Ft. 11/2 Ft. 3 Ft. 6 Ft. 6 Ft. 6 Ft. 3 Ft. 3 Ft. 5 Ft. 6 Ft.

10 Ft. 3 Ft. 6 Ft.

10 Ft. 4 In. 4 In. 4 In. 4 In. 6 Ft.

8 In. 1 Ft.

Ľ \*N 33A6543

\*N 0 0 33A6544 33A6545 33A6546

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33A6547 33A6548 33A6549

33A6550 33A6551

3346552 33A6553 33A6554 33A6555

33A6556 33A6557

3346558

33A6559 33A6560

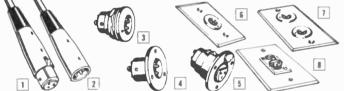
3346561 33A6562 33A6563

3346640 33A6639

33A6564

| STK. NO. | Fig. | Length   | Description                       | Laci   | 6-24 E.a. | 23-43 FS |
|----------|------|----------|-----------------------------------|--------|-----------|----------|
| 33A6514  | A    | 142 FL   | RCA Plug/RCA Plug                 | \$0.91 | \$0.78    | \$0.715  |
| 33A6515  | A    | 3 Ft.    | RCA Plug/RCA Plug                 | 1.02   | .87       | .80      |
| 33A6516  | A    | 6 Ft.    | RCA Plug/RCA Plug                 | 1.26   | 1.08      | .99      |
| 33A6517  | Ä    | 10 Ft.   | RCA Plug/RCA Plug                 | 1.72   | 1.47      | 1.35     |
| 3346518  | A    | 25 Ft.   | RCA Plug/RCA Plug                 | 2,98   | 2.55      | 2.34     |
| 33A6519  | B    | 3 Ft.    | RCA Plug/RCA Jack                 | 1.16   | .99       | .91      |
| 33A6520  | B    | 6 Ft.    | RCA Plug/RCA Jack                 | 1.51   | 1.29      | 1.18     |
| 33A6521  | Ē    | 10 Ft.   | RCA Plug/RCA Jack                 | 1.72   | 1.47      | 1.35     |
| 33A6522  | B    | 25 Ft.   | RCA Plug/RCA Jack                 | 2.98   | 2.55      | 2.34     |
| 33A6523  | ē    | 6 Ft.    | RCA Plug/Mike Connector           | 2.10   | 1.80      | 1.65     |
| 33A6524  | Ď    | 6 Ft.    | RCA Plug/Angle RCA Plug           | 1.26   | 1.08      | .99      |
| 33A6525  | Ď    | 10 Ft.   | RCA Plug/Angle RCA Plug           | 1.72   | 1.47      | 1.35     |
| 33A6526  | Ē    | 6 Ft.*   | RCA Plug/Tinned Leads             | .77    | .66       | .61      |
| 33A6527  | Ē    | 11/2 Ft. | RCA Plug/Tinned Leads             | .70    | .60       | .55      |
| 33A6528  | Ē    | 3 Ft.    | RCA Plug/Tinned Leads             | ,81    | .69       | .63      |
| 33A6529  | Ē    | 6 Ft.    | RCA Plug/Tinned Leads             | .98    | .84       | .77      |
| 33A6530  | Ē    | 10 Ft.   | RCA Plug/Tinned Leads             | 1.40   | 1.20      | 1.10     |
| 33A6531  | Ē    | 25 Ft.   | RCA Plug/Tinned Leads             | 2.77   | 2.37      | 2.17     |
| 33A6532  | Ē    | 6 Ft.*   | RCA Plug/Clips                    | 1.51   | 1.29      | 1.18     |
| 33A6533  | Ġ    | 25 Ft.   | Mike Connector/Mike Connector     | 4.24   | 3.63      | 3.33     |
| 33A6534  | Ĥ    | 6 Ft.    | Angle Phone Plug/Angle Phone Plug | 2.21   | 1.89      | 1.73     |
| 33A6535  | 1    | 6 Ft.    | Angle Phone Plug/RCA Plug         | 1.68   | 1.44      | 1.32     |
| 33A6536  | j    | 6 Ft.    | Angle Phone Plug/Angle RCA Plug   | 1.68   | 1,44      | 1.32     |
| 33A6537  | ĸ    | 6 Ft.    | Phone Plug/Phone Plug             | 2.21   | 1.89      | 1.73     |
| 3346538  | K    | 10 Ft.   | Phone Plug/Phone Plug             | 2.98   | 2.55      | 2.34     |
| 33A6539  | K    | 25 Ft.   | Phone Plug/Phone Plug             | 3.92   | 3.36      | 3.08     |
| 33A6540  | L    | 6 Ft.    | Phone Plug/RCA Plug               | 1.68   | 1.44      | 1.32     |
|          |      |          |                                   |        |           |          |

SWITCHCRAFT AUDIO CONNECTORS



Interchangeable with Canon XLR-3, XLR-4 and Amphenol 91-850 series. Professional style audio connectors made for rugged service. Connectors are polarized with exclusive grounding lug on all units. Shells are made of die-cast zinc, satin nickel finish, inserts are of high-impact plastic. Wall plates are brushed stainless steel and fit standard electrical outlet boxes.

|      |          |          |                       | CORD PLUG   | iS      |        |         |        |         |
|------|----------|----------|-----------------------|-------------|---------|--------|---------|--------|---------|
|      |          |          |                       |             |         | Pr     | ices Ea | ch     |         |
| Fig. | Stk. No. | Mfg. No. | Contacts              | Description | 1-5     | 6.24   | 25-49   | 50.99  | 100-249 |
| (1)  | 128348   | Å3F      | 3                     | Female      | \$1.72  | \$1.47 | \$1.35  | \$1.23 | \$0.98  |
| Ő    | 12A6042  | A4F      |                       | Female      | 2.14    | 1.83   | 1.68    | 1.53   | 1.22    |
| 2    | 12B349   | A3M      | 4 3                   | Male        | 1.47    | 1.26   | 1.16    | 1.05   | .84     |
| 2    | 1286043  | A4M      | 4                     | Male        | 1.58    | 1.35   | 1.24    | 1.13   | .90     |
| 3    | 1280043  | A4W      | 4                     | Male        | 1,30    | 1.35   | 1,24    | 1.13   | .90     |
|      |          |          | PANEL                 | AND WALL RI | ECEPTAC | LEC    |         |        |         |
| ~    | 400050   | 0.014    |                       |             |         |        | 4.05    | 1 50   | 1.00    |
| (3)  | 128350   | B3M      | 3                     | Male        | 2.10    | 1.80   | 1.65    | 1.50   | 1.20    |
| (3)  | 12A6044  | 84M      | 4                     | Male        | 2.21    | 1.89   | 1.73    | 1.58   | 1.26    |
| - ā  | 128351   | C3M      | 3                     | Male        | 1.12    | .96    | .88     | .80    | .64     |
| ()   | 12A6045  | C4M      | 4                     | Male        | 1.23    | 1.05   | .96     | .88    | .70     |
|      | 12A6002  | C3F      | 4 7 4 7 4 7 4 7 8 7 8 | Female      | 2.24    | 1.92   | 1.76    | 1,60   | 1.28    |
| Ś    | 12A6046  | C4F      | 4                     | Female      | 2.35    | 2.01   | 1,84    | 1.68   | 1.34    |
| Ğ    | 12A6003  | G3MS     | 3                     | Male        | 3.64    | 3.12   | 2.86    | 2.60   | 2.08    |
| Ő    | 12A6048  | G4MS     | 4                     | Male        | 3.85    | 3.30   | 3.03    | 2.75   | 2.20    |
| ð    | 12A6098  | H3MS     | 3                     | Dual Male   | 5.11    | 4.38   | 4.02    | 3.65   | 2.92    |
| ŏ    | 12A6104  | H4MS     | Ã                     | Dual Male   | 5.53    | 4.74   | 4.35    | 3.95   | 3.16    |
| ä    | 1246004  | J3FS     | 2                     | Female      | 3.78    | 3.24   | 2.97    | 2.70   | 2,16    |
| 8    | 1246051  |          | 3                     |             | 3.99    | 3.42   | 3.14    | 2.85   | 2.28    |
| (9)  | 1240031  | J4FS     | 3                     | Female      | 3.33    | 3,42   | 3.14    | 2.63   | 4.20    |
|      |          |          |                       |             |         |        |         |        |         |

### SWITCHCRAFT AUDIO CONNECTOR ADAPTORS

| ///                                                                                                                | 103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11                             |                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                    | nale three conductor Switch<br>plugs and jacks or mike cor                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Cannon plugs to                                                                                                                |
| 12A6092 3<br>7 12A6093 3<br>3 12A6094 3<br>4 12A6095 3<br>6 12A6095 3<br>6 12A6096 3<br>7 12A6097 3<br>7 12A6105 3 | g, No.         Description           189         Double Female A3F           00         Double Male A3M           183         Female A3F to ¼a'' Jack           184         Male A3M to ¼a'' Jack           185         Female A3F to ¼a'' Jack           186         Female A3F to ¼a'' Jack           187         Male A3M to ¼a'' Jack           188         Male A3M to ¼a'' Jack           189         Male A3M to ¼a'' Plug           135A         Male Mike to A3F           139A         Female Mike to A3H | \$3.33<br>2.80<br>3.22<br>2.87 | 6-24 Ea. 25-49 Ea.<br>\$2.85 \$2.61<br>2.40 2.20<br>2.76 2.53<br>2.46 2.26<br>2.70 2.48<br>2.40 2.20<br>2.01 1.84<br>2.01 1.84 |

ADAPTORS SWITCHCRAFT SHIELDED



Adaptors to interconnect components that do not have mating Jacks or plugs. Positive mating contacts prevent resistive line losses. Nicket plated finish. 1%,"

| ion   | g, 1½"                                          | diameter. | Wt. 5 ozs.        |                   |         |          |           |
|-------|-------------------------------------------------|-----------|-------------------|-------------------|---------|----------|-----------|
|       | Stk. No.                                        | Type      | Input             | Output            | 1-5 Ea. | 6-24 Ea. | 25-49 Ea. |
| ſ     | 128225                                          | 332A      | Phone Jack        | Female Mike Conn. |         | \$1.20   | \$1.10    |
| ର୍ଚ୍ଚ | 12B226                                          | 334A      | RCA Jack Conn.    | Female Mike Conn. | 1.16    |          | .91       |
| Ğ.    | 128227                                          | 336A      | Phone Jack        | RCA Plug Conn.    | 1.40    | 1.20     | 1.10      |
| 6     | 128228                                          | 338A      | Male Mike Conn.   | RCA Plug Conn.    | .88     | .75      | .69       |
| Š)    | 128225<br>128226<br>128227<br>128228<br>1286011 | 336B      | Phone Jack        | RCA Jack          | 1.40    | 1.20     | 1.10      |
| (6)   | 128230                                          | 345A      | RCA Jack          | Phone Plug        |         | .87      | .80       |
| ð.    | 12B231<br>12B238                                | 346       | 2 Phone Tip Jacks | Phone Plug        | 1.82    | 1.56     | 1.43      |
| ð,    | 12B238                                          | 349A      | RCA Jack          | RCA Jack          | .84     |          | .66       |
| ()    | 12A6U22                                         | 44        | Male Mike         | Phone Plug        | .42     | .36      | .33       |
| ŏ.    | 12A6052                                         | 2 330PJ   | Two RCA Jacks     | Phone Plug        | 1.65    | 1.41     | 1.29      |
| ā     | 12A6053                                         | 361       | Phone Jack        | Phone Jack        | 1.82    |          | 1.43      |
| 1     | 12A6054<br>12A6055                              | 365       | Min, Phone Jack   | RCA Plug          | 1.22    |          | .96       |
| ă,    | 12A6055                                         | 370       | RCA Jack          | Min. Phone Plug   | .94     |          | .74       |
| ã.    | 12A6056                                         | i 374     | Phone Jack        | Min. Phone Plug   | 1.40    |          | 1.10      |
| (IS)  | 12A6057                                         | 375       | RCA Jack          | Micro Plug        | 1.26    | 1.08     | .99       |
| ñ.    | 12A6056                                         | 376       | Min, Phone Jack   | Micro Plug        | 1.26    |          | .99       |
| õ     | 12A6059                                         | 377       | Micro, Jack       | Min. Phone Plug   | 1.26    | 1.08     | .99       |
|       |                                                 | HIDS      | CHMAN M           | ULTI-POLE         | DII     | ICS      |           |
|       |                                                 | 1111/20   | CITIVIAIA IVI     | ULII-FULE         | ILU     | 000      |           |
|       |                                                 |           | - P*684           |                   |         |          |           |

| 4 [5]<br>e conductor Switchcraft                                                 |                              | 7<br>Cannon                  | َدُر<br>[۱]<br>plugs to      |                                                          |                                | )<br>C                    |                     | 1                                                              |                              |
|----------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|----------------------------------------------------------|--------------------------------|---------------------------|---------------------|----------------------------------------------------------------|------------------------------|
| i jacks or mike connecto<br>Description<br>uble Female A3F                       | 1-5 Ea.<br>\$3.33            | \$2.85                       | 25-49 Ea.<br>\$2.61          | put jacks or<br>Sony, Uher,                              | many foreign<br>Telefunken, Ko | built tape<br>rting, Dual | , Kuba,             | efs, Mate with inp<br>and radios includi<br>etc. Shpg. wt. 2 c | ng Norelco,<br>iz.           |
| uble Male A3M<br>nale A3F to ¼″ Jack<br>le A3M to ¼″ Jack<br>nale A3F to ¼″ Plug | 2.80<br>3.22<br>2.87<br>3.15 | 2.40<br>2.76<br>2.46<br>2.70 | 2.20<br>2.53<br>2.26<br>2.48 | Stk. No.<br>(1) 12A6005<br>(1) 12A6006<br>(1) 12A6007    | Type<br>MAS3<br>MAS5<br>MAS5S  | No. Pins                  | Pin Dicgr<br>A<br>B | <b>am Sheil</b><br>Metal<br>Metal<br>Metal                     | Net Eo.<br>79c<br>89c<br>89c |
| le A3M to ¼" Plug<br>le Mike to A3F<br>nale Mike to A3M                          | 2.80<br>2.35<br>2.35         | 2.40<br>2.01<br>2.01         | 2.20<br>1.84<br>1.84         | (1) 12A6008<br>(1) 12A6008<br>(1) 12A6009<br>(1) 12A6010 | MAS30<br>MAS50<br>MAS50S       | 355                       | A<br>B<br>C         | Ivory Plastic<br>Ivory Plastic<br>Ivory Plastic                | 55c<br>69c<br>69c            |

Contact Our Industrial Department For Quotations On Larger Quantities

\$1.82 1.46 1.27 2.01

.69

.99

1.32

1.68

1.68 1.82 .63 .77 2.17 2.50

3.00 1.93 2.17 2.50

1.38 1.38 1.38

2.20 2.23 2.15

3.71

2.19

1.08

1.44 1.98 1.83

1.98 .69 .84

2.37 2.73 3.27

2.10

2 73

2.73 1.50 1.50 2.40 2.43 2.34

4.05

.75

2,56

.88

1.26

1.68 2.31 2.14

2.14 2.31 .98 2.77 3.19

3.82 2.45 2.77 3.19 1.75 1.75 1.75 2.80 2.84 2.73

4.73

## PLUGS, JACKS AND CONNECTORS

AND

SHIEL



22

25

24

AMPHENOL MICROPHONE

**MANUFACTURERS ABBREVIATIONS USED BELOW:** HS for Herman H. Smith, EJ for E. F. Johnson. Shog. wt. 2 oz. **DESCRIPTIVE ABBREVIATIONS:** BP for banana plug. BJ for banana jack, TP for tip plug, TJ for tip jack, and I for insulated. All jacks will mount in panels up to 36'' thick except HS240 (to 56'') and HS206 (to 56''). HS stocked in Red, Black, Green and Yellow, EJ stocked in Red, Black, Green, Yellow and White. Please specify both B-A Stock Number and Color.

21

20

| Illus<br>Fig.                                                                   | . Stock<br>No.                          | Mfg.<br>Type                     | Mtg.<br>Hole            | Over.<br>Lgth.                                                                         | Description                                                                                                                 |                          | 25-99<br>Each            | 100-<br>499<br>Each       | 500-<br>999<br>Each       |
|---------------------------------------------------------------------------------|-----------------------------------------|----------------------------------|-------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| 100                                                                             | 12A1048<br>12A681<br>12A1047<br>12A1046 | HS205<br>EJ108<br>HS109<br>HS100 | 5/4"<br>21/4"<br>1/4"   | <sup>21</sup> / <sub>32</sub> "<br><sup>15</sup> / <sub>4</sub> "<br>5/8"              | BJ, Insulated head<br>BJ, I Nylon, 900 Series<br>BJ, Brass Nickel Plated                                                    | \$.15                    | 11                       | .08<br>\$.12<br>.10       | .075<br>\$.11<br>.975     |
| 000                                                                             | 12A1042<br>12A682<br>12A1044            | HS204<br>EJ108<br>HS103          |                         | 1½2"<br>1¼4"<br>1¾8"<br>1½2"                                                           | BP Bronze N.P., 6/32 screw<br>BP, I Solderless screw<br>BP, I Nylon, 300 Series<br>BP, Brass N.P. 6/32" thrd                | .20<br>.20<br>.19<br>.20 | .17<br>.17<br>.16<br>.17 | .16<br>.16<br>.152<br>.16 | .15<br>.15<br>.143<br>.15 |
| \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$                                              | 12A901<br>12A1058<br>12A900<br>12A694   | HS211<br>HS202<br>HS240<br>EJ105 | Xie''<br>3/8''<br>1/4'' | 15/8"<br>11/6"<br>11/6"<br>11/6"                                                       | BP, I solder or solderless<br>TJ, I Ph. Bronze contact<br>TJ, I Nylon, 4000 V. AC<br>TJ, I Nylon, 800 Series                | .20<br>.15<br>.20<br>.13 | .17<br>.13<br>.17<br>.11 | .16<br>.12<br>.16<br>.104 | .15<br>.11<br>.15<br>.098 |
|                                                                                 | 12A1049<br>12A1057<br>12A1050<br>12A719 | HS206<br>HS107<br>HS200<br>EJ105 | 1/4 ''<br>1/4 ''        | $\frac{11}{122''}$<br>$\frac{15}{16}''$<br>21/4''                                      | TJ & BJ, Comb. Insulated<br>TJ, Brass Nickel Plated<br>TP, I Solderless Type                                                | .20<br>.15<br>.17        | .17<br>.13<br>.14        | .16<br>.12<br>.136        | .15<br>.11<br>.128        |
| 1986<br>6                                                                       | 12A1052<br>12A1055<br>12B905            | HS105<br>HS235<br>HS295          |                         | $\frac{17_{16}''}{115_{32}''}$<br>$\frac{116}{32}''$<br>$\frac{117_{4}''}{115_{16}''}$ | TP, I, Meter, Red or Black<br>BP, Ins. Solderless                                                                           | .15<br>.15<br>.30<br>.28 | .13<br>.13<br>.26<br>.24 | .12<br>.12<br>.24<br>.22  | .113<br>.11<br>.23<br>.21 |
| 19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>1 | 12A1085<br>12B909<br>12B915<br>12A997   | HS158<br>HS400<br>HS218<br>HS324 |                         | 13%"<br>11%"<br>13%"<br>13%"<br>13%"                                                   | Standard Phone Tip N.P. Brass<br>Solder Type Red or Black<br>Banana Plug-In Red or Black<br>BP, I Solderless, Stack, Red or | .03<br>.13<br>.11        | .02<br>.11<br>.09        | .018<br>.10<br>.088       | .015<br>.098<br>.082      |
|                                                                                 | 12A996                                  | H\$210                           |                         | 13⁄4″                                                                                  | Black (Half of HS210 Below)<br>Dbl. BP, Solderless, will<br>Stack BP's Red or Black                                         | .48<br>.72               | .41<br>.61               | .384<br>.576              | .36<br>.54                |
| \$\$\$                                                                          | 12A6077<br>12A6078<br>12A6079           | EJ105<br>EJ105<br>EJ105          | .052                    | PRINT<br>4/10"<br>%"<br>7/8"                                                           | ED CIRCUIT CONNECTORS<br>Hor. Jack 750 Series<br>Vert. Jack 850 Series<br>TP 770 Series                                     | .07<br>.13<br>.18        | .06<br>.11<br>.15        | .056<br>.104<br>.144      | .053<br>.098<br>.135      |
|                                                                                 |                                         | RCA                              | T                       | PE                                                                                     | PHONO CONNEC                                                                                                                | TOR                      | S                        | A                         |                           |
|                                                                                 |                                         |                                  |                         |                                                                                        |                                                                                                                             |                          | 2                        |                           |                           |
|                                                                                 |                                         |                                  | 2                       |                                                                                        |                                                                                                                             |                          |                          | 1                         | 00 Up                     |

Fig. Stk. No. 1 12A1087 2 12A1088

12A676

12A543

Description

Phono Plug Phono Jack

Double Jack

Easy Grip Plug 14c

10 9 11

NNECTORS

CABL

Equipped with threaded coupling ring to prevent accidental disconection. Brass chrome-plated. 2 and 3 contact cable connector has  $\frac{4}{3}$ " spring cord protector, 4-contact has  $\frac{4}{3}$ ". Type () chassis connector mounts in  $\frac{5}{3}$ " hole. Type () mounts in  $\frac{3}{2}$ " hole. Shog wit. 1 oz. Prices Each

|         | Stk. No.<br>12A320<br>12A321<br>12A323<br>12A323 | Type<br>80MC2M<br>80MC2F<br>80PC2F<br>91-MC3M | Cont.<br>2<br>2<br>2<br>3 | Descirption<br>Male, Cable<br>Female, Cable<br>Female, Chassis<br>Male, Cable | 1-49<br>\$0.69<br>.71<br>.60<br>1.01 | 50-249<br>\$0.57<br>.59<br>.50<br>.85 | 250-<br>499<br>\$0.48<br>.50<br>.42<br>.71 | 500-<br>999<br>\$0.41<br>.42<br>.36<br>.61 | 1000<br>Up<br>\$0.366<br>.376<br>.317<br>.539 |
|---------|--------------------------------------------------|-----------------------------------------------|---------------------------|-------------------------------------------------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------------------|
| 00      | 12A326                                           | 91-MC4M                                       | 4                         | Male, Cable                                                                   | 1.03                                 | .86                                   | .72                                        | .62                                        | .548                                          |
| - Miles | 12A325                                           | 91-MC3F                                       | 3                         | Female, Cable                                                                 | 1.07                                 | .89                                   |                                            |                                            |                                               |
| ~~~     |                                                  |                                               |                           |                                                                               |                                      |                                       | .75                                        | .64                                        | .569                                          |
| œ       | 12A327                                           | 91-MC4F                                       | - 4                       | Female, Cable                                                                 | 1,10                                 | .92                                   | .77                                        | .68                                        | .588                                          |
| 988     | 12A329                                           | 91-PC3F                                       | 3                         | Female, Chassis                                                               | .73                                  | .61                                   | .52                                        | .44                                        | .392                                          |
| 60      | 12A331                                           | 91-PC4F                                       | 4                         | Female, Chassis                                                               | .72                                  | .60                                   |                                            |                                            |                                               |
| ×       |                                                  |                                               |                           |                                                                               |                                      |                                       | .51,                                       | .43                                        | .384                                          |
| (5)     | 12A332                                           | 91-CCC-3                                      | 4                         | Dust Cover for 91                                                             | .48                                  | .40                                   | .34`                                       | .29                                        | .258                                          |

AMPHENOL MINIATURE CONNECTORS



Any plug in this group mates with any socket with same number of plns. 78 series mount in 5%" hole with push-on spring ring. Can be chassis mounted or wired to cable. 7-pln sockets fit 7-pin miniature tubes. Avg. shog. wt. 5 ozs. per 20. Fig. (3) and (4) are 5%" dia.  $1\%_4$ " long cadmium plated brass. Fig. (6) is shielded chassis socket. Avg. shog. wt.  $1/_2$  ozs.

|          |                 | -        |         |        | Prices Each |         |                         |              |  |  |
|----------|-----------------|----------|---------|--------|-------------|---------|-------------------------|--------------|--|--|
| Fig.     | Stk. No.        | Туре     | Pins    | 1-49   | 50.249      | 250-499 | 500-999                 | 1000 Up      |  |  |
|          | 12A140          | 78-S3S   | 3       | \$0.12 | \$0.10      | \$0.09  | \$0.07                  | \$0,064      |  |  |
| 0        | 12A141          | 78-S4S   | - 4     | .16    | ,13         |         | .10                     | .084         |  |  |
| 0        | 12A125          | 78-S5S   | 5<br>6  | .21    | .18         | .15     | .12                     | .112         |  |  |
| 0        | 12A118          | 78-S6S   | 6       | .22    | .18         | ,16     | .13                     | .118         |  |  |
| <u> </u> | 12A123          | 78-7P    | 7       | .29    | .25         | ,21     | .18                     | .157         |  |  |
|          | 12A138          | 86-CP3S  | 3       | .16    | .13         | .11     | .09                     | .083         |  |  |
| (2)      | 12A139          | 86-CP4S  | 4       | .16    | .14         | .11     | .10                     | .087         |  |  |
| (2)      | 128171          | 71-5S    | 5       | .15    | .12         | .10     | .09                     | .078         |  |  |
| (2)      | 12B172          | 71-6S    | 6747456 | .17    | .14         | .12     | .10                     | .092         |  |  |
| 3        | 12A148          | 91-MPF3L | 3       | .47    | .39         | .33     | .28                     | .251         |  |  |
| (3)      | 12A149          | 91-MPF4L | 4       | .49    | .41         | .34     | .29                     | .261<br>.223 |  |  |
| 8        | 12A142          | 91-MPM3L | 3       | .42    | .35         | .29     | .25                     | ,223         |  |  |
| <u>و</u> | 12A143          | 91-MPM4L | 4       | .43    | .36         | .30     | .26                     | .230         |  |  |
| (1)      | 12B22           | 91-MPM5L | 5       | .44    | .37         | .31     | .27                     | .235         |  |  |
|          | 12B23           | 91-MPM6L |         | .47    | .39         | .33     | .28                     | .249         |  |  |
| (5)      | 12A150          | 78-PCG3  | 3       | .31    | .26         | .22     | .19                     | .165         |  |  |
| <u></u>  | 12A151<br>12B24 | 78-PCG4  | 4       | .35    | .29         | .24     | .21                     | .184         |  |  |
| 8        |                 | 78-PCG5  | 5       | .39    | .32         | .27     | .23                     | .205         |  |  |
| 9        | 12B25           | 78-PCG6  | 6       | .40    | .33         | .28     | .24                     | .211         |  |  |
| 1        |                 |          | (6      | 3      |             |         | AMPHE<br>Stand<br>Onnec | ARD          |  |  |

"CP "CP" plugs made of black bakelite, for chassis mounting, fits 134," hole. PM and PF connectors are molded black bakelite with steel shell. Rubber grommet in hole. Avg. shpg. wt. 1 oz. př

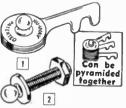
| e     |              | _            |            |        |        | Prices Ea | ch      |              |
|-------|--------------|--------------|------------|--------|--------|-----------|---------|--------------|
| Fig.  | Stk. No.     | Туре         | Pins       | 1.49   | 50-249 | 250-499   | 500-999 | 1000 Up      |
| 0     | 12A58        | 86-CP4       | 4          | \$0.23 | \$0,19 | \$0.16    | \$0,14  | \$0,121      |
| 1     | 12A59        | 26-CP5       | 5          | .23    | .19    | .16       | .14     | .123         |
| 0     | 12A63        | 86-CP8       | 8          | .25    | .21    | ,18       | .15     | .134         |
| 3     | 12A80        | 78-PF4       | 4          | .41    | .34    | .29       | .24     | .218         |
| 2     | 12A81        | 78-PF5       | 5          | .43    | .36    | .30       | .26     | .228         |
| 2     | 12A82        | 78-PF6       | Ğ.         | .45    | .37    | .31       | .27     | .238         |
|       | 12A83        | 78-PF7S      | 7S         | .47    | .39    | .33       | .28     |              |
| õ     | 12A85        | 78-PF8       | 8          | .43    | .36    | .30       | .26     | .250<br>.231 |
| ò     | 12A86        | 78-PF9       | ğ          | .46    | .39    | .30       | .28     |              |
| ð     | 12A87        | 78-PF11      | 11         | .50    | .42    | .35       | .20     | .245         |
| ă     | 12A72        | 86-PM4 /     | 4          | .45    | .38    | .32       | .30     | .266         |
| ã     | 12A73        | 86-PM5       | 5          | .45    | .38    | .32       | .2/     | .240         |
| ă     | 12A74        | 86-PM6       | ĕ          | .47    | .40    | .32       | .27     | .242         |
| ä     | 12A75        | 86-PM7S      | <b>7</b> S | .57    | .40    |           | .28     | .252         |
| ă     | 12A77        | 86-PM8       | 8          | .47    |        | .40       | .35     | .306         |
| ä     | 12A78        | 86-PM9       | 9          | .48    | .40    | .33       | .29     | .253         |
| 3     | 12479        | 86-PM11      | 11         | .48    | .40    | .34       | .29     | .258         |
| No 1  |              | C4 Cable Cla | 11         |        | .41    | .35       | .30     | .262         |
| about | e (not showr | 54 GAUIE GIA | INP TOP    | .09    | .08    | .06       | .05     | .048         |

### **NU-WAY SNAP CONNECTORS**

For Permonent or Temporory Circuits

Permits quick simple connection of wires. Nickel plated brass. Terminals snap together making positive contact. Any number of snaps can be pyramided together for multiple connections (as shown at right). Shpg. wt. 2 oz. Snaps—Snaps on to studs or lugs listed below.

With crimp-on solder lug. 12A642. Ea. 10c 100 Far. \$7.19 1M Far. \$64.80 3 Studs—With snap for use with snaps above. Mounts in chassis or panel, Size 6-32 x 1/2" long. 12A643. Eo. . . 7c 100 For . . \$5.40 1M For . . \$51.33



Off-The-Shelf Delivery From B-A's Large Electronic Parts Inventory

100 Up

.042

.096

Each 10 Ea. Ea. 6c 4c \$0.036

120

6c 7c 4c 5c

120 11c

FOR MORE PHONO

PLUGS AND JACKS SEE PAGE 124

18

# **TUBE SOCKETS, SHIELDS & ACCESSORIES**



Quality engineered sockets for every need. MIP, RS and S type are black pnenolic, RSS is steatite. MIP type has molded-in steel mounting plate. Avg. shp. wt. 1 oz.

|      | Stock   | Amphenol |        | Mtg.   |        |        | Prices E | ach     |         |
|------|---------|----------|--------|--------|--------|--------|----------|---------|---------|
| Fig. | No.     | Number   | Pins   | Hole   | 1-49   | 50·249 | 250-499  | 500-999 | 1000 Up |
| 1    | 12A93   | 77MIP4   | 4      | 1%"    | \$0.19 | \$0,16 | \$0.13   | \$0.11  | \$0.099 |
| 1    | 12A94   | 77 MIP5  | 5      | 1346"  | .21    | .17    | .15      | .12     | .110    |
| 1    | 12A95   | 77MIP6   |        | 134"   | .23    | .19    | .16      | .14     | .121    |
| 1    | 12A96   | 77MIP7S  | 7 S    | 1%,"   | .25    | .21    | .18      | .15     | .133    |
|      | 12A97   | 77MIP7L  | 7L     | 1%2"   | .28    | .23    | .19      | .17     | .148    |
| (1)  | 12A98   | 77 MIP8  | 8      | 1%"    | .21    | .18    | .15      | .13     | .114    |
| 1    | 12A1440 | 77MIP9   | 8<br>9 | 13%    | .25    | .21    | .17      | .15     | .132    |
|      | 12A1441 | 77MIP11  | 11     | 1%"    | .29    | .24    | .20      | .17     | .152    |
|      | 12B166  | 77MIP12  | 12     | 13/16" | .30    | .25    | .21      | .18     | .159    |
| 0    | 12B167  | 77MIP20  | 20     | 134"   | .67    | .56    | .47      | .40     | .356    |
| 0    | 12A100  | 88-8     | 8      | 1 1/8" | .23    | .19    | .16      | .14     | .120    |
| 1    | 12A101  | 88-8X    | Loct.  | 11/8"  | .33    | .27    | .23      | .20     | .174    |
| 2    | 12A110  | 78-RS8   | 8      | 1346"  | .29    | .24    | .20      | .17     | .152    |
| 2    | 12A112  | 49-RSS4  | 4      | 11/4"  | .92    | .77    | .65      | .55     | .491    |
| 2    | 12A116  | 49-RSS7L | 7L     | 11/4 " | 1.69   | 1.42   | 1.19     | 1.02    | .904    |
|      | 12A117  | 49-RSS8  | 8      | 11/4"  | 1.12   | .93    | .78      | .67     | .596    |
| 3    | 12A54   | 78-S8    | 8      | 1%"    | .21    | .18    | .15      | .13     | .112    |
| 3    | 12A57   | 78-S11   | 11     | 1%"    | .28    | .23    | .19      | .17     | .148    |

"S" SOCKET MOUNTINGS. Fits all "S" type sockets except 9 and 11 pin, CP Plugs and 61M and 61F AC connectors. Steel mtg. plate has slotted holes with  $14_2$ " to 176" centers. Above surface mount Type 23-1S raises socket  $34_4$ " above surface mount Type 61-61 extends  $134_8$ " below surface. Mounts in  $134_8$ " hole on 134" centers.

|                      |           |                     |        |        |         | ach     |         |
|----------------------|-----------|---------------------|--------|--------|---------|---------|---------|
| Fig.                 | Stock No. | Description         | 1-49   | 50-249 | 250-499 | 500-999 | 1000 Up |
| (4)                  | 12466     | Mounting Plate      | \$0.06 | \$0,05 | \$0.04  | \$0.038 | \$0,036 |
| ()<br>()<br>()<br>() | 12A67     | Above Surface Shell | .26    | .22    | .18     | .16     | .139    |
| ۲                    | 12A70     | Below Surface Shell | .14    | .12    | .10     | .09     | .077    |

### AMPHENOL INDUSTRIAL SOCKETS



ä

12A33

160-8 Socket

() 11-Contact Industrial Relay Socket, High, thick insulating barriers between contacts provide long creep-age paths, Rated 600 volts RMS at 10 amps, reversible screw terminals with 4 threaded brass insert tie points. Shpg. wt. 8 oz. No. 12C152. Amphenol 146-817. ·24, Each \$3.47 25-99, Each.....

\$2.91 \$1.854 ...\$2.07 500 Up Ea.... 100-249 Ea.... \$2.44 250-499 Ea. 

DOMONA ELECTRONICE SUDEACE

| MOUNTED BR                                                                                                                                                                                                      |                                                                                                     | SOCKETS                                                                  |                                                                |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|--------|
| 7-Min 12A5040<br>Octal 12A5041                                                                                                                                                                                  | sign. Insulated bas<br>n base for easy iden<br>fype 1-49 Ea. 50<br>XS-7 65c<br>XS-8 85c<br>XS-9 75c | tification.                                                              |                                                                |        |
| 6 B                                                                                                                                                                                                             |                                                                                                     | AC SOCK                                                                  |                                                                |        |
| ip 25/4 X<br>No. 12A                                                                                                                                                                                            | ndard AC plugs. UL<br><sup>2</sup> %2" hole. Mountin<br>899. 1·24 Ea                                | g centers 1½".<br>c 25-49                                                | A., 110 V. Mounts<br>Type 2R2.<br>17c 50-9915c<br>12c          | S<br>1 |
|                                                                                                                                                                                                                 | OD _ P                                                                                              |                                                                          | AMPHENOL                                                       | 1      |
| 1 2                                                                                                                                                                                                             |                                                                                                     | S C                                                                      | ONNECTORS                                                      | 1      |
| Molded of high dielectric t<br>Fig. ① and ② have metal s<br>hole on 1½2" mtg. centers<br>mounting ring. Avg. shpg. v                                                                                            | shell with built-in c<br>. Fig. (4) and (5) s                                                       | able clamp, Fig.                                                         | (i) mounts in 1%."                                             |        |
| Fig. Stk. No. Type 1                                                                                                                                                                                            |                                                                                                     | . 250-499 Ea 50                                                          |                                                                |        |
| (1)         12B89         61-M11           (2)         12B90         61-F11           (3)         12A354         61-MIP-61F           (4)         12A121         61-M           (5)         12A122         61-F | \$0.58 \$0.48<br>.58 .48<br>.40 .33<br>.37 .31<br>.37 .31                                           | .40<br>.28<br>.26                                                        | \$0.35 \$0.309<br>.35 .307<br>.24 .211<br>.22 .198<br>.22 .196 |        |
| AMPHENOL<br>POLARIZED<br>AC<br>CONNECTORS ①                                                                                                                                                                     |                                                                                                     |                                                                          |                                                                |        |
| UL listed for home applian<br>black phenotic bakelite, co<br>cad. plated steel, mounting<br>Type 160-2 receptacle moun<br>15%" long with cable clamp,                                                           | ces and power too<br>ntacts and ground<br>plate is nickel pla<br>ts in 1%, hole, has                | Is. Third prong<br>prong are copp<br>ted steel. Rated<br>s 1½2" mtg. cen | grounded. Made of<br>er alloy. Caps are<br>at 15 amp, 125 V.   |        |
| Fig. Stk. No. Type<br>() 12A1 160-2 MIP I<br>() 12A2 160-3 MIP I<br>() 12A2 160-3 MIP I<br>() 12A41 160-9 Plug                                                                                                  |                                                                                                     | i-99 Ea. 100-249<br>\$0.78 \$0.65<br>.92 .77<br>1.02 .85                 | 250-499 500 Up<br>\$0.56 \$0.497<br>.66 .587<br>.73 .648       |        |

1.06

.88

.74

.63



| np, 125 V. | sprii | ngs.     |             |                      |                        | _       |
|------------|-------|----------|-------------|----------------------|------------------------|---------|
| e type are |       | Stk. No. | Johnson No. | Description          | Fits Tube Types        | Net Ea. |
|            | (I)   | 12A174   | 123-209-1   | 4 P. Med Bayonet     | 866A, 811A             | \$2.25  |
| 500 Up     | (1)   | 12A175   | 123-211-1   | 4 P. Jumbo Bayonet   | 203A, 810, 872A, 250TH | 2.90    |
| \$0.497    | 2     | 12A571   | 122-275-1   | 5 P. Giant Wafer     | 4-125A, 4-250A, RK48   | 2.65    |
| .587       | 3     | 12A173   | 122-237-1   | 7 P. Giant Wafer     | 4E27, 813, HK257       | 1.65    |
| .648       | 3     | 12A5044  | 124-109-1   | Kel-F Plastic        | 4X150A, 4X250B         | 5,00    |
| .563       | •     | 12A5045  | 124-111-1   | Steatite Air Chimney | for above              | .45     |

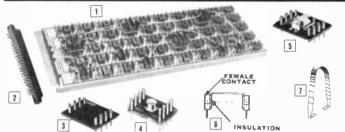
Direct Telephone Line to B-A's Industrial Department-(816) 561-5460

# SEMICONDUCTOR COMPONENTS

| OLIVIIO                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                      |                                                                                                       | Contra de Canada da C |                                           | -                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|
| HERMAN                                                                                                                                                                                                                                                                                                                                                                                                                       | H. SMITH DI                                                                                                                                                                                                                                          | P IC SOCI                                                                                             |                                                                                                                 | hated                                     |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                              | contacts. Fig.<br>Stock Sm<br>No. NU<br>12A5155 62<br>2 3 12A5156 62<br>2 3 12A5157 62<br>3 12A5157 62<br>3 12A5158 62                                                                                                                               | (a) has electro (<br>ith<br>b) Conts. 1-24<br>50 14 \$0.5<br>251 16 .5<br>252 14 .4<br>253 16 .4<br>4 | Diated contact<br>Prices Each<br>25-99 11<br>0 \$0.43 1<br>0 .43<br>0 .34<br>0 .34                              | 5.<br>00 Up<br>60.40<br>.40<br>.32<br>.32 | Optimum co<br>per ounce<br>All are ext                                              |
| Contacts a                                                                                                                                                                                                                                                                                                                                                                                                                   | IC sockets. Molded dially re .00003 gold plated b                                                                                                                                                                                                    | phthalate type                                                                                        |                                                                                                                 |                                           | hh                                                                                  |
| Stock<br>No.<br>12A5051<br>12A5052<br>12A5025                                                                                                                                                                                                                                                                                                                                                                                | Cinch<br>No. Contacts 1-24<br>6 ICS 6 \$0.55<br>8 ICS 8 .66<br>10 ICS 10 .73                                                                                                                                                                         | 25-49 50-99<br>\$0.44 \$0.3<br>.53 .4<br>.58 .49                                                      | 7 \$0.30 \$<br>5 .35                                                                                            | 50-499<br>50.29<br>.34<br>.37             | 1                                                                                   |
| Sock                                                                                                                                                                                                                                                                                                                                                                                                                         | pt standard 14, 16 or 24<br>et leads on same center<br>se 4-40x1/4 Fillister head                                                                                                                                                                    | s as DIP leads.                                                                                       | Solder in PC                                                                                                    | leads.<br>board                           | Stock                                                                               |
| Stock         Cinch         No. of           No.         No.         Conts.           12A5159         14D IP         14         BI           12A5160         14D IP-1         14         DI           12A5161         16D IP-1         6         BI           12A5162         16D IP-1         16         DI           12A5163         16D IP-1         16         DI           12A5163         240 IP         24         BI | Body Contact<br>Material Plating                                                                                                                                                                                                                     | Price<br>1-24 25-49 50-<br>\$0.82 \$0.65 \$0.<br>1.07 .85<br>.91 .73 .0<br>1.17 .94                   | es Each<br>99 100-249 2:<br>55 \$0.436 \$0<br>71 .568<br>61 .484<br>78 .624<br>92 .738                          | ).414<br>.540                             | No.<br>12C322 *<br>12C328<br>12C330 *<br>12C333<br>12A2227<br>12A2228<br>*Plain Alu |
|                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.00                                                                                                                                                                                                                                                 | CINCH TR                                                                                              | ANSISTO                                                                                                         | R                                         | 12A2229<br>12A2230                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                              | ISTOR SOCKETS. Low los                                                                                                                                                                                                                               |                                                                                                       |                                                                                                                 | ring.                                     | 12A2231<br>12A2232                                                                  |
| Contacts are beryllium<br>Stk. No. Cinch No.<br>12A5001 2H3<br>12A5002 2H5<br>© CINCH UNIVERSAL SI                                                                                                                                                                                                                                                                                                                           | 1-24         25-           Prongs         Each         Each           3         \$0.27         \$0.2           5         .23         .1           DCKET.         For use with all         .1                                                         | :h Each<br>3 \$0.19<br>8 .15                                                                          | Each<br>\$0.15 \$<br>.13                                                                                        | -14                                       | Same patt<br>No. 12A22<br>1-4 Each<br>No. 12A22<br>1-4 Each                         |
| plated copper contacts.<br>12A5122 7-UTS                                                                                                                                                                                                                                                                                                                                                                                     | Snap-in P.C. mount.<br>.96 .7<br>SOCKET. Fits triangular b<br>Itact centers. Bakelite w<br>.16 .1                                                                                                                                                    | 7 .64<br>ase .2 X .1" ce<br>ith phosphor bro                                                          | .51<br>Inters. or 3-c                                                                                           | .49<br>ontact                             | M indicate<br>rectifiers<br>cates rear                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                                                                                                                                                                                                                                                    | & INSULAT                                                                                             | OR WAFER                                                                                                        | ASE<br>RS                                 | P                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                              | OCKETS. Wafer type for 2<br>um plated brass contact<br>1-24 25-                                                                                                                                                                                      | s.<br>49 50-99                                                                                        | 100-249 2                                                                                                       | 50-499                                    | 1                                                                                   |
| Stk. No. Cinch No<br>12A5004 2TS-1<br>Same as above except<br>12A5005 2TS-2                                                                                                                                                                                                                                                                                                                                                  | Each Each Each Each So.12 \$0.1<br>has two mtg. eyelets fo<br>.12 .1                                                                                                                                                                                 | 0 \$0.09<br>or easier chassis                                                                         | \$0.082 \$                                                                                                      | Each<br>0.072                             | Eliminates                                                                          |
| <ul> <li>MOLDED PHENOLIC SI</li> <li>12A5006 2TS-3</li> <li>INSULATOR WAFER.</li> <li>Has high thermal conditioned</li> </ul>                                                                                                                                                                                                                                                                                                | CKET. Phosphor bronze<br>,12 .1<br>Anodized aluminum for<br>uctivity, %4" x %4". 4-holo                                                                                                                                                              | contacts. Mount<br>0 .09<br>use with TO-3<br>type.                                                    | ing ctrs42<br>.082                                                                                              | 5".<br>.072<br>istors.                    | pedance.<br>17A1308<br>17A1309<br>17A1310                                           |
| PROFESSIONAL                                                                                                                                                                                                                                                                                                                                                                                                                 | QUALITY PHENO                                                                                                                                                                                                                                        |                                                                                                       |                                                                                                                 |                                           |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 1/11/                                                                                                                                                                                                                                              |                                                                                                       | FLEA                                                                                                            | CLIP                                      | Stock<br>No.                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                                                                                                                                                                                                                                                    |                                                                                                       | <u>_</u>                                                                                                        | CLIP                                      | 12A9625<br>12A9626<br>12A9627<br>12A9628<br>12A9629<br>12A9630<br>12A9631           |
|                                                                                                                                                                                                                                                                                                                                                                                                                              | RECISION MOLDED BLACK<br>mount. Model 220 has 4<br>d brass inserts. Davies                                                                                                                                                                           | tapped 4-36 hold<br>except * which a                                                                  | es for panel s<br>are Keystone,                                                                                 | crews.                                    | 1249554                                                                             |
| Stock Mfg.<br>No. No.<br>583040 220                                                                                                                                                                                                                                                                                                                                                                                          | Dimensions Inches<br>4 X 21% X 1%                                                                                                                                                                                                                    | 1-24<br>Each<br>\$0.46                                                                                | Each<br>\$0.42                                                                                                  | 100 Up<br>Each<br>\$0.33                  | 12A9632<br>12A9633<br>12A9634                                                       |
| 5A3041 240B<br>5A3042 260K<br>5A3004 *702                                                                                                                                                                                                                                                                                                                                                                                    | 4 X 2 <sup>1</sup> % <sub>6</sub> X 1% <sub>6</sub><br>6 <sup>1</sup> / <sub>4</sub> X 3 <sup>3</sup> / <sub>4</sub> X 2<br>6 <sup>1</sup> % <sub>6</sub> X 5% <sub>2</sub> X 2 <sup>1</sup> % <sub>6</sub><br>8% <sub>6</sub> X 7% <sub>6</sub> X 3 | .86<br>1.12<br>2.50                                                                                   | .78<br>1.00<br>2.25                                                                                             | .61<br>.79<br>1.75                        | 12A9635                                                                             |
| 5A5583 221<br>5A5584 241<br>5A5585 261                                                                                                                                                                                                                                                                                                                                                                                       | ③ BLACK PHENOLIC<br>Fits 220 Case Stam<br>Fits 2408 Case Mold<br>Fits 260K Case Mold                                                                                                                                                                 | ped .28<br>ed .54                                                                                     | .25<br>.49<br>.68                                                                                               | .20<br>.38<br>.54                         | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                                             |
| 545506 *2039                                                                                                                                                                                                                                                                                                                                                                                                                 | Fits 702 Case Stam<br>S KEYSTONE ALUMIN                                                                                                                                                                                                              | ped .99<br>Im Panels                                                                                  | .89                                                                                                             | .70                                       | Se                                                                                  |
| 5A5500 2044<br>5A5502 2046<br>5A5504 2047<br>5A5507 2048                                                                                                                                                                                                                                                                                                                                                                     | Fits 220 Case<br>Fits 240B Case<br>Fits 260K Case<br>Fits 702 Case                                                                                                                                                                                   | .60<br>.70<br>1.00<br>1.28                                                                            | .63<br>.90<br>1.15                                                                                              | .42<br>.49<br>.70<br>.90                  |                                                                                     |
| 5A5501<br>5A5503<br>5A5505                                                                                                                                                                                                                                                                                                                                                                                                   | <b>STONE PUNCHED PHENOL</b><br>Fits 220 Case<br>Fits 240B Case<br>Fits 260K Case<br>Fits 702 Case                                                                                                                                                    | IC NATURAL PAN<br>.44<br>.64<br>.88<br>1.10                                                           | IELS<br>.40<br>.58<br>.79<br>.99                                                                                | .31<br>.45<br>.62<br>.77                  |                                                                                     |
| 12A2310. IMP CLIP P                                                                                                                                                                                                                                                                                                                                                                                                          | PUSH-IN TERMINALS for a<br>USH-IN TERMINALS for a                                                                                                                                                                                                    | bove. Package o<br>bove. Package o                                                                    | of 100                                                                                                          | \$1.75<br>\$1.75                          | Circuit                                                                             |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                      | <b>See rage</b>                                                                                       | LJU FO                                                                                                          | rinteo                                    | , orcuit                                                                            |

|                                    |                    |                  |                                                             |                          |                                                   |                                           | And and a state of the local division of the local division of the local division of the local division of the |                                                        |                               |
|------------------------------------|--------------------|------------------|-------------------------------------------------------------|--------------------------|---------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------|
|                                    |                    | GEO              | RGE                                                         | RI                       | SK I                                              | NDUST                                     | RIES                                                                                                           | OPE                                                    |                               |
| timum coml                         | binatio            | ons of           | fin des                                                     | ign ar                   | nd fin sp                                         | acing—giv                                 | VDUCT                                                                                                          | um heat                                                | transfer                      |
| ounce of are extruc                | dissip<br>ded al   | uminun           | eight.<br>n with                                            | a high                   | n emissi                                          | vity black                                | anodized                                                                                                       | finish.                                                |                               |
| Acres                              |                    |                  |                                                             | R                        |                                                   | ATT CO                                    | OLERS                                                                                                          |                                                        |                               |
| 1 COL                              | <b>a</b> a⊓        | or .318<br>Stock | GRI                                                         |                          | SIZE                                              |                                           | 5, TO-9, 1<br>Prices I                                                                                         | acn                                                    |                               |
| 10.00                              | $\mathbb{P}_{1}$   | No.<br>2C393     | No.<br>202A3                                                | 18 1/2                   | Inches<br>2×1/2×1/6                               | 1-99<br>\$0.26                            | 100-499 5<br>\$0.23                                                                                            | \$0.20                                                 | \$0.173                       |
| 798.00                             | V 1                | 2A2224           | 212A3<br>222A3                                              | 18 5/                    | 8X5/8XX6<br>x3/4XX6                               | .27<br>.27                                | .23                                                                                                            | .20                                                    | .175                          |
| • IP                               |                    |                  | 232A3                                                       | 18 1                     | x1x%                                              | .29                                       | .25                                                                                                            | .22                                                    | .191                          |
| Section 1                          |                    |                  |                                                             | 3                        | A lin                                             |                                           |                                                                                                                | 1 Contrast                                             |                               |
|                                    |                    |                  | 1                                                           | n 🏼                      |                                                   |                                           | 3                                                                                                              |                                                        |                               |
|                                    |                    |                  | 6                                                           | - 9                      | 川岡                                                |                                           | 硼                                                                                                              |                                                        |                               |
|                                    | -                  |                  |                                                             |                          | 999.4                                             |                                           |                                                                                                                | -                                                      |                               |
|                                    | RI                 | -                | Inches                                                      |                          |                                                   | TION CO                                   | Prices                                                                                                         |                                                        | 500.000                       |
| C322 *170                          | <b>10.</b><br>0613 | Н.<br>З          | <b>W.</b><br>4.6                                            | <b>0</b> .<br>1          | 1-49<br>\$1.02                                    | 50-99<br>\$0.87                           | 100-249<br>\$0.74                                                                                              | \$0.61                                                 | 500-999<br>\$0.55             |
|                                    | 0610<br>1213       | 3<br>6           | 4.6<br>4.6                                                  | 1                        | 1.18<br>1.52                                      | 1.02<br>1.32                              | .87<br>1.12                                                                                                    | .71<br>.91                                             | .65<br>.84                    |
|                                    | 1210<br>A0610      | 6<br>3           | 4.6<br>4.5                                                  | 1<br>2.5                 | 1.79<br>1.47                                      | 1.55<br>1.28                              | 1.31<br>1.08                                                                                                   | 1.07<br>.88                                            | .98<br>.81                    |
|                                    | A1110              | 5.5              | 4.5                                                         | 2.5                      | 2.19<br>thers ar                                  | 1.90                                      | 1.60<br>todized.                                                                                               | 1.31                                                   | 1.20                          |
|                                    |                    |                  | ) FLA                                                       | T BO                     | ттом                                              | COOLE                                     | RS                                                                                                             |                                                        |                               |
|                                    | D610<br>1110       | 3<br>5.5         | 4.4<br>4.4                                                  | 1.3<br>2.1               | 1.08                                              | .94<br>1.30                               | . <b>79</b><br>1.10                                                                                            | .65<br>.92                                             | .60<br>.83                    |
|                                    |                    | ) LO             | N PRO                                                       | FILE                     |                                                   |                                           | OOLERS                                                                                                         |                                                        |                               |
| A2231 190<br>A2232 191             | 0610<br>1110       | 3                | 4.8                                                         | .45                      | 5.85                                              | .73<br>1.02<br>EXTRUSI                    | .62                                                                                                            | .51<br>.71                                             | .47<br>.65                    |
| me pattern                         | as T               | ype 17           | above                                                       | exce                     | pt no m                                           | ounting no                                | itches.                                                                                                        |                                                        |                               |
| . 1242245                          | Plain              | Alumi            | num, so                                                     | ap cle                   | eaned ar                                          | d deoxidia                                | ted.                                                                                                           | ich                                                    | \$5.25                        |
| Each<br>12A2246.<br>Each           | Blac               | k Anod           | ized Ali                                                    | iminur<br>Each           | n.                                                | \$6.95                                    |                                                                                                                | ch                                                     |                               |
|                                    |                    | -                |                                                             | DAD                      |                                                   | CTIFIES                                   | COOLE                                                                                                          | DC                                                     |                               |
| indicates<br>ctifiers (up          | tapped             | d 10-32          | thread                                                      | i, N i<br>Tan i          | ndicates                                          | tapped 1                                  | 4-28 threa                                                                                                     | d for stu                                              | d mount<br>RR indi-           |
| tes ream b                         | both e             | nos tor          | press                                                       | rit re                   | curiers.                                          | All are 2                                 | Square.                                                                                                        |                                                        |                               |
|                                    |                    | Stock<br>No.     | GRI<br>No.                                                  |                          |                                                   | 49 50-9                                   |                                                                                                                | 9 250-499                                              |                               |
| A.M.                               | _ 1                | 2A2233<br>2A2234 | 18031<br>18031<br>18031<br>18031<br>18061<br>18061<br>18061 | OM<br>ON                 | .75 <b>\$0</b><br>.75                             | .99 \$0.8<br>.99 .8                       |                                                                                                                |                                                        | \$0.57<br>.57                 |
| MAT                                | K I                | 2A2235           | 5 18031<br>18061                                            | 0R<br>0M                 | .75                                               | .96 .8<br>.24 1.0                         | 13                                                                                                             | .59                                                    | .55<br>.71                    |
| 12                                 | i                  | 2A2237           | 18061                                                       | ON<br>OR                 | 1.5 1                                             | .24 1.0                                   | .92 .92                                                                                                        | .76                                                    | .71                           |
|                                    | i 1                | 242238           | 18061                                                       | ORR                      | 1.5                                               | .39 1.2<br>.70 1.4                        | 1.04                                                                                                           | .86                                                    | .81<br>.96                    |
|                                    |                    |                  | ) 18121<br>) 18121<br>  18121                               |                          | 3 1                                               | .70 1.4                                   | 7 1.25                                                                                                         | 1.03                                                   | .96<br>.94                    |
| - Filds                            | -                  | 242242           | 18121                                                       | ORR                      |                                                   | .83 1.0                                   |                                                                                                                |                                                        | 1.06                          |
|                                    |                    |                  | EAT                                                         |                          |                                                   | OMPO                                      |                                                                                                                |                                                        |                               |
| iminates a<br>dance,               | -                  |                  |                                                             |                          |                                                   |                                           |                                                                                                                |                                                        |                               |
| A1308 GC<br>A1309 GRI<br>A1310 GRI | 8101.<br>XL50      | 1 Oz.<br>0. 4 Q  | Tube. I<br>z. Jar.                                          | Each<br>Each             |                                                   |                                           |                                                                                                                |                                                        | \$2.39                        |
|                                    |                    |                  |                                                             |                          |                                                   |                                           |                                                                                                                |                                                        |                               |
|                                    |                    |                  |                                                             |                          |                                                   |                                           | UNCHE                                                                                                          |                                                        |                               |
|                                    |                    |                  | ‰″ wi                                                       | th .06                   |                                                   |                                           | .187×.187<br><b>Tural Phe</b>                                                                                  |                                                        | center.                       |
| itock                              | Key                | stone            |                                                             | Size                     |                                                   | 1-19                                      | 20                                                                                                             | -99                                                    | 100-249                       |
| No.<br>A9625                       |                    | No.<br>.761      | 1                                                           | <b>W. 1</b><br>.38x8.    |                                                   | Each<br>\$0.39                            |                                                                                                                | ch<br>.35                                              | Each<br>\$0.33                |
| 2A9626<br>2A9627                   | 1                  | 812<br>735       | 2                                                           | .44x3.<br>.84x8.         | 38                                                | .16                                       | •                                                                                                              | .14<br>.48                                             | .12<br>.43                    |
| 2A9628<br>2A9629                   | 1                  | 824<br>762       | 3                                                           | .66×6.<br>.69x8.         | 75                                                | .45                                       |                                                                                                                | .40<br>.76                                             | .38<br>.71                    |
| 2A9630<br>2A9631                   | 1                  | 826              | 6                                                           | .75x7.<br>.31x1(         | 31                                                | .75                                       |                                                                                                                | .68<br>.08                                             | .63<br>1.02                   |
| 2A9554                             |                    | 763              | 8                                                           | .50x17                   | 7.00                                              | 1.90                                      | 1                                                                                                              | .68                                                    | 1,58                          |
| 2A9632                             |                    | 825              |                                                             | C COP                    |                                                   | D ONE SI                                  |                                                                                                                | .63                                                    | .59                           |
| 2A9633                             | 1                  | 834              | 5                                                           | .69x8.                   | 50                                                | 1.60                                      | 1                                                                                                              | .44                                                    | 1.36                          |
| 2A9634<br>2A9635                   |                    | 827<br>829       |                                                             | .75x7.<br>.31x10         |                                                   | 1.60<br>1.90                              | 1                                                                                                              | .44                                                    | 1.36<br>1.61                  |
| na                                 |                    |                  |                                                             |                          |                                                   | PUSH-                                     |                                                                                                                | RMIN                                                   | _                             |
| unor                               | 1                  |                  |                                                             |                          |                                                   | boards. S<br>, silver p                   | ub-miniatu<br>lated.                                                                                           | re size w                                              | rith .062"                    |
|                                    |                    | 0                | 12A230                                                      | 9. "Fl                   | lea'' Clij                                        | s. Keysto                                 | ne 1500                                                                                                        |                                                        | ¢15 70                        |
| 5                                  | _ ھ                | 2                | 12A231                                                      | 0. "Ir                   |                                                   | minai. Key                                | 00 For<br>stone 149                                                                                            | 9SP.                                                   | \$12.00                       |
| 6                                  | - I -              |                  | EAP                                                         |                          |                                                   |                                           | 00 For<br>UNCHE                                                                                                |                                                        | \$12.00                       |
|                                    | 2                  | J 101            |                                                             |                          |                                                   |                                           | a a poi ta i poi li                                                                                            | LU PA                                                  | THE LO                        |
|                                    | 2                  |                  | P                                                           |                          |                                                   |                                           |                                                                                                                |                                                        |                               |
|                                    |                    |                  | P<br>Sto                                                    | ck                       | LAMINAT<br>Keyston                                | ED XXXP<br>e                              | NATURAL 3<br>1-19                                                                                              | (4" THICK<br>20-99                                     | 100-240                       |
|                                    |                    |                  | P<br>Sto<br>No<br>12AS                                      | ck<br>).<br>1621         | LAMINAT<br>Keyston<br>No.<br>1973                 | ED XXXP<br>e<br>Size<br>4.5x6.            | NATURAL 3<br>1-19<br>Each<br>5 .4                                                                              | 64" THICK<br>20-99<br>Each<br>5 .42                    | 100-240<br>Each<br>.40        |
|                                    |                    |                  | P<br>Sto                                                    | ck<br>).<br>)621<br>)622 | LAMINAT<br>Keyston<br>No.                         | ED XXXP<br>e<br>Size                      | NATURAL 3<br>1-19<br>Each<br>5 .45                                                                             | 64" THICK<br>20-99<br>Each<br>5 .42<br>.55             | 100-240<br>Each<br>.40<br>.50 |
|                                    |                    |                  | P<br>Sto<br>12A9<br>12A9<br>12A9                            | ck<br>).<br>)621<br>)622 | LAMINAT<br>Keyston<br>No.<br>1973<br>1974<br>1976 | ED XXXP<br>e<br>4.5x6.<br>4.5x8.<br>9 x12 | NATURAL 3<br>1-19<br>Each<br>5 .45                                                                             | 64" THICK<br>20-99<br>Each<br>5 .42<br>0 .55<br>5 1.40 | 100-240<br>Each<br>.40<br>.50 |

# AUGAT ELECTRONIC COMPONENTS



### 8130 SERIES BREADBOARD AND TEST PANELS

Breadboard or test up to 50 IC's on one panel. Round or flat pin dual-in-line IC's plug into panel. Use adaptors for flat-pack and TO-5 IC's. Solderless interconec-tion concept throughout. Sockets have large contoured entry holes for easy IC in-sertion: wiping gold-plated contacts for low contact resistance and high reliability. Standardized interconnection layout allows Flat Pack and TO-5 breadboard "stack-ing." Bus bars with common power and ground takeoffs at each pattern. Tempera-ture range —65° to 150° C. Order jumper assortments, 36 pin edge connector and accessories listed below.

|                                                                |                                                                       |                                        | BREADB                                               | DARD PANELS                                              | ;                |                                                                        |                                       |
|----------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------|------------------------------------------------------|----------------------------------------------------------|------------------|------------------------------------------------------------------------|---------------------------------------|
| Stock<br>No.                                                   | Augat<br>No.                                                          |                                        | No. Of<br>Patterns                                   | Dimensions<br>Inches                                     | No. Of<br>Pins   | Pric<br>1-4                                                            | es Ea.<br>5-9                         |
| 12A9548<br>12A9549<br>12A9550                                  | 8130-36DG<br>8130-36DG<br>8130-36DG                                   | R-25                                   | 10<br>25<br>50                                       | 61/8 x 45/6<br>61/8 x 91/4<br>61/8 x 173/8               | 16<br>16<br>16   | \$ 63.00<br>150.00<br>290.50                                           | \$ 59.00<br>140.00<br>270.00          |
|                                                                | ACCESSO                                                               | RIES                                   | FOR USE W                                            | ITH BREADBO                                              | ARD TES          | T PANELS                                                               |                                       |
| Stock<br>No.                                                   | Augat<br>No.                                                          | Fig.                                   | Des                                                  | cription                                                 | 1                | Prices E<br>-99 100-49                                                 |                                       |
| 12A5056<br>12A5057<br>12A5058<br>12A5059<br>12A5060<br>12A5061 | 8076-10G1<br>8095-1G2<br>8095-1G3<br>8095-1G4<br>8095-1G5<br>8076-1G7 | (3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(5) | 6 Pin TO-5<br>8 Pin TO-5<br>10 Pin TO-<br>12 Pin TO- | Adaptor<br>5 Adaptor                                     | 3<br>4<br>5<br>6 | .24 \$1.96<br>.60 2.97<br>.46 3.68<br>.36 4.42<br>.24 5.15<br>.10 3.38 | 2.43<br>3.00<br>3.62<br>4.21          |
| 12A9551<br>12A9552<br>12A9553<br>12A5062                       | 8076-12AS-1<br>8076-12AS-2<br>T114-1<br>14005-5P1                     | (6)<br>(6)<br>(7)<br>(2)               | 290 Pcs. S<br>Extractor                              | itd. Jumper As<br>Std. Jumper As<br>Tool<br>ze Connector |                  | 1-4 Each<br>\$60.00<br>106.50<br>.50<br>6.45                           | 5-9 Each<br>\$52.50<br>100.00<br>4.04 |
| · permiter                                                     | e                                                                     | а<br>,                                 |                                                      |                                                          | میں<br>چر چ      | ده<br>م <sup>ناسبی</sup> . ۲۰<br>۱۱۱۱ ک                                | JJJJ                                  |
| 1 SOLDE<br>POCKE                                               | T 2 POCKE                                                             | R I                                    | PRINTED                                              | 4 WIRE                                                   | 5                | WIRE U                                                                 | PRINTED                               |
|                                                                |                                                                       |                                        |                                                      | AGING INTEG                                              | CKET<br>GRATED C | -                                                                      |                                       |

Sockets accept packages with flat or round leads. Printed circuit terminals are same dimension as IC lead with direct interchangeability. Unique contact construction eliminates capillary action of solder or flux. Wire Wrap terminal has sufficient length for 3 levels of 30 gauge wire. \* has .6" spacing on terminals.

| Stock   | Part        |      | No. of   | Body                     | Contact     |        | Prices Ea |         |
|---------|-------------|------|----------|--------------------------|-------------|--------|-----------|---------|
| No.     | No.         | Fig. | Contacts | Material                 | Plating     | 1-99   | 100-499   | 500-999 |
| 12A5063 | 314-AG1A    | (1)  | 14       | Dially! Phthalate        | Gold/Nickel | \$0.84 | \$0.73    | \$0.63  |
| 12A5064 | 314-AG3A    | ð    | 14       | Dially Phthalate         | Gold/Nickel | .94    | .83       | .72     |
| 12A5065 | 314-AG5D-2R | 8    | 14       | Phenolic                 | Tin         | .45    | .40       | .35     |
| 12A5133 | 314AG5D-R   |      | 14       | Diallyl Phthalate        | Gold/Nickel | .70    | .61       | .53     |
| 12A5134 | 314AG5D-3R  | (3)  | 14       | Phenolic                 | Gold Nickel | .61    | .53       | .46     |
|         | 314-AG5F-2R | ð    | 14       | Phenolic                 | Tin         | .73    | .64       | .56     |
| 12A5067 | 314-AG6F-R  | (5)  | 14       | Diallyl Phthalate        |             | 1.37   | 1.20      | 1.04    |
|         | 114AG2A     |      | 14       | Teflon                   |             | 2.92   | 2.30      | 2.03    |
| 12A5069 | 316-AG1A    | 1    | 16       | Diallyl Phthalate        |             | .93    | .81       | .71     |
| 12A5070 | 316-AG3A    | (2)  | 16       | Diallyl Phthalate        |             |        |           | .81     |
| 12A5071 | 316-AG5D-2R | (3)  | 16       | Phenolic                 | Tin         | .54    | .47       | .41     |
| 12A5135 | 316AG5D-R   | (3)  | 16       | Dially! Phthalate        |             |        | .81       | .71     |
|         | 316AG5D-3R  | 8    | 16       | Phenolic                 | Gold/Nickel | .71    | .62       | .54     |
|         | 316-AG5F-2R | •    | 16       | Phenolic                 | Tin         | .83    | .72       | .63     |
| 12A5073 | 316-AG6F-R  | (3)  | 16       | Diallyl Phthalate        |             | 1.65   |           | 1.25    |
| 12A5142 | 116AG7A     | (6)  | 16       | Teflon                   | Gold        | 3.33   | 2.61      | 2.31    |
| 12A5137 | 324AG2D     | (3)  | 24*      | Diallyl Phthalate        |             | 2.05   | 1.79      | 1.56    |
|         | 324AG2F     | (1)  | 24*      | Diallyl Phthalate        |             | 2.64   | 2.30      | 2.00    |
|         | 336AG2D     | (3)  | 36*      | <b>Diallyl Phthalate</b> |             | 2.28   |           | 1.74    |
| 12A5140 | 336AG2F     | (4)  | 36*      | Diallyl Phthalate        | Gold        | 3.18   | 2.78      | 2.42    |

### **TEST SOCKETS FOR FLAT PACK & LSI CIRCUITS**

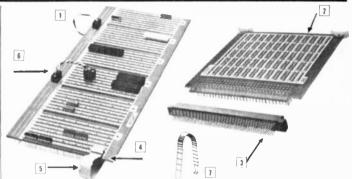
Each No. 12A5132. Cinch 50-30A-30. Edge Connector for above. \$2.22

Each TEST SOCKETS FOR TO-5 IC's

| Plug       | into | ) single     | side  | printed           | circuit | edge         | connectors.    |
|------------|------|--------------|-------|-------------------|---------|--------------|----------------|
| Stor<br>No |      | Augat<br>No. | t     | No. of<br>Contact |         | Circle       | Each           |
| 12A9       | 644  | 8117-A       | G4    | 8<br>10           |         | 250<br>300   | \$3.28<br>3.52 |
| 1289       |      | 8117-A       | GĚ CO | 12<br>NNECTOR     | FOR A   | .360<br>Bove | 3.88           |
| 12A5       | 131  | Cinch 5      | 0-12A | -20. Eac          | h       |              | \$1.90         |







### UNIVERSAL DUAL-IN-LINE PACKAGING PANELS

|      | Stock   | Augat       | No. of | Panel  | Prices Each |         |  |
|------|---------|-------------|--------|--------|-------------|---------|--|
| Fig. | No.     | No.         | Rows   | Width  | 1.4         | 5-9     |  |
| D    | 12A9636 | 8136-UG1-9  | 9      | 2.675" | \$63.00     | \$56.50 |  |
| Ó    | 12A9637 | 8136-UG1-18 | 18     | 5.375" | 123.00      | 110.00  |  |
| Ť    | 12A9638 | 8136-UG1-27 | 27     | 8.075" | 184.00      | 164.50  |  |

### HIGH DENSITY DUAL-IN-LINE PACKAGING PANELS

Edge connector take-off. 60 I.C. pattern. Accepts 14 or 16 dual-in-line IC's with flat leads. Double sided board with ground and power planes connected at each pattern.  $-65^{\circ}$  C to  $150^{\circ}$  C operation. Wire wrap termination for 30 gauge wire. Var glass epoxy. 2 or, cooper both sides, tin plated, Overall size 7 x 7.35 x .70''.

|      | Stock   | Stock Augat Pins p |          | Power &             | Price               | Prices Each |  |  |
|------|---------|--------------------|----------|---------------------|---------------------|-------------|--|--|
| Fig. | No.     | No.                | Patterns | Grd. Pins           | 1-4                 | 5-9         |  |  |
| (2)  | 12A9639 | 8136-RG1           | 14       | 7 & 14              | \$131.00            | \$117.50    |  |  |
|      | 12A9640 | 8136-RG2           | 2 14     | V & G Dummy's       | 139.00              | 124.50      |  |  |
| õ    | 12A9641 | 8136-RG3           | 3 16     | 8 & 16              | 144.00              | 128.50      |  |  |
| (2)  | 12A9642 | 8136-RG4           | 16       | V & G Dummy's       | 15 <sup>n</sup> .50 | 134.50      |  |  |
| (3)  | 12A5129 | 14005-1P           | 1 Edge   | Connector for above | 13.20               | 11.80       |  |  |

### ACCESSORIES FOR PACKAGING PANELS

(i) 12A6107. Augat 2P14-1. Flat 14 Pin Cable Plug for use with Flat cable. Ea. \$1.23 (i) 12A6108. Augat 14010-1P1. Flat 14 Cond. 28 Gauge Wire. 100 Ft. Roll \$19.10 (i) 12A6076. Augat 8136-34G1M. Plug for round cable. Each \$1.26 (i) 12A9544. Augat T-114-2. Extractor Tool. Each \$500 (ii) 12A9544. Augat T-114-2.

### AUGAT TRANSISTOR AND IC SOCKETS

| 1 UU<br>9 (1) (7)                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                         | 0                                                                                                                                                                                                                                  |                                                                                                                                                    |
| Stock<br>No.                                                                                                                                                                                                                                              | Augat<br>No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | For<br>Case Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Socket<br>Outline                                                               |                         | . Outline                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1-99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Prices Ea<br>100-499                                                                                                                                                                                                               | 500-999                                                                                                                                            |
| 12A5085<br>12A5086<br>12A5088<br>12A5089<br>12A5092<br>12A5092<br>12A5092<br>12A5092<br>12A5092<br>12A5095<br>12A5095<br>12A5100<br>12A5100<br>12A5100<br>12A5100<br>12A5105<br>12A5105<br>12A5105<br>12A5105<br>12A5107<br>12A5109<br>12A5109<br>12A5109 | 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| 10-18           10-18           10-18           10-5           14           10-5           19           10-5           10           10           10-5           10           10           10           10           10           10           10           10           10           10           10           10           10-5           10           10           10-5           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10     < | ()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>( | 34343343468888800023232 | A B A B A B A B C E E E E F F G G A K H J | 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| \$0.64<br>.78<br>.61<br>.75<br>.61<br>.75<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.94<br>1.94<br>1.94<br>1.97<br>.58<br>.61<br>.59<br>.59<br>.59<br>.61<br>.59<br>.61<br>.59<br>.61<br>.34<br>.59<br>.59<br>.61<br>.34<br>.59<br>.59<br>.59<br>.61<br>.34<br>.59<br>.59<br>.61<br>.34<br>.59<br>.59<br>.61<br>.34<br>.59<br>.59<br>.59<br>.61<br>.34<br>.59<br>.59<br>.59<br>.59<br>.59<br>.61<br>.34<br>.59<br>.59<br>.59<br>.59<br>.59<br>.55<br>.59<br>.55<br>.59<br>.55<br>.55 | \$0.56<br>.63<br>.63<br>.652<br>.53<br>.665<br>.53<br>.665<br>.53<br>.665<br>.53<br>.665<br>.53<br>.665<br>.53<br>.665<br>.118<br>1.18<br>1.18<br>1.18<br>1.18<br>1.18<br>1.44<br>1.69<br>1.69<br>1.69<br>.94<br>.53<br>.53<br>.31 | \$0.49<br>.46<br>.57<br>.45<br>.57<br>.46<br>.57<br>.57<br>.57<br>.02<br>1.02<br>1.02<br>1.02<br>1.02<br>1.26<br>1.48<br>1.48<br>.82<br>.46<br>.28 |

8058 requires .367" chassis cutout, 8060 requires .221" chassis cutout, 8070 re-quires .437" chassis cutout.

Materials (unless otherwise specified)—Insulator—Teflon: Contact—Beryllium cop-per per QQ-C-530; Terminal S'eeve—Brass per QQ-B-626; Contact and terminal sleeve are go'd plated .00040" thick per MIL-G-45204 over nickel plate .00005/.00001" thick

\*Contact/Terminal phosphor bronze, gold over silver plated.

+Insulator glass epoxy.

fContact/Terminal Bery'lium copper gold over nickel plated.

Sinsulator black phenolic oer MIL-M-14, type CFG, contact beryllium copper, electro tin plated, mounting saddle and eyelet brass, electro tin plated, chassis insulator mica.

Ask For Free Augat Catalog 16A1110 For Additional Augat Information

# **Vector** CIRCUIT BOARDS AND TERMINALS

| yean                                                                                                                                                                                                                                                                                                                                                       | CIACUI                                                                                                                                                                                                                                                                                                                                                             | I DUAN                                                                                                                                                                                                                                                                                                                                           | US P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 111111111111                                                                                                                                                                                                                                                                                                                                               | Ready<br>and a<br>over-<br>holes<br>tions<br>botto<br>recep<br>minik<br>epoxy<br>types                                                                                                                                                                                                                                                                             | ECTOR PLUGBO<br>ND RECEPTACI<br>v to wire Plugbords for pr<br>short runs. All are furnisl<br>all grid of pre-punched<br>located on alternate<br>of a 0.1" grid. Contaci<br>m edge of board mate wi<br>tacles. Pre-drilled to acc<br>lips, standard turned to<br>" dia. eyelets. All are X,<br>paper per MIL-P-2324 u<br>are epoxy glass per MIL- | LES<br>ototypes<br>hed with<br>K <sub>4</sub> " dia.<br>intersec-<br>its along<br>th listed<br>ept T-28<br>erminals,<br>" thick,<br>or "WE"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Stock         Vector           No.         No.         Siz           12A9526         812         4½x           12A9527         812WE         4½x           12A9528         837         3x4¾           12A9529         837WE         3x4¾           12A9520         848WE         6½x                                                                       | 64/2" 16 \$2.98<br>64/2" 16 3.53<br>2" 12 2.33<br>2" 12 2.55<br>2" 12 2.56<br>4/2" 35 6.09                                                                                                                                                                                                                                                                         | Prices Each<br>20-99 100-199<br>\$2.68 \$2.50<br>3.18 2.97<br>2.10 1.96<br>2.32 2.17<br>5.48 5.12                                                                                                                                                                                                                                                | 200-999<br>\$2.00<br>2.37<br>1.56<br>1.73<br>4.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| All are 61/2x41/2/", GN indica<br>Stock Vector<br>No. No. F<br>12A9531 838A<br>12A9532 838AWE<br>12A9533 838AWE-1GN<br>12A9533 838WE<br>12A9535 838WE<br>12A9536 838WE-1GN                                                                                                                                                                                 | Contacts           ront         Back         1-19           22          \$2.81           22          3.11           22          4.70           22         21         3.65           22         21         3.65           22         21         3.65           22         21         3.65           22         21         5.81           23         21         5.81 | flashed contacts.<br>Prices Each<br>20-99 100-199<br>\$2.53 \$2.36<br>7 2.85 2.66<br>1 4.23 3.95<br>3.50 3.27<br>3.47 3.24<br>5.23 4.88                                                                                                                                                                                                          | 200-999<br>\$1.88<br>2.12<br>3.15<br>2.61<br>2.59<br>3.89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 12A9537 R616-1 11<br>12A9538 R612-1 11<br>12A9539 R635 31<br>12A9504 R644 44<br>VECTORBORD PI                                                                                                                                                                                                                                                              | 6 812, 812WE<br>2 837, 837WE<br>5 848WE<br>4 All 838 Series                                                                                                                                                                                                                                                                                                        | \$2.24 \$1.74<br>1.80 1.32<br>4.91 3.27<br>2.62 2.10                                                                                                                                                                                                                                                                                             | \$1.49<br>1.12<br>2.73<br>2.10<br>ARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Pattern A, B, F, M &                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                  | <ul> <li>♦</li> /ul> |
| Convenient and economical<br>accept zip push in terminal<br>are unclad phenolic except<br>** 2 oz. copper clad one sic<br>Pattern A—Dimension 1 is.<br>$(\mathscr{H}_{6}^{\prime\prime\prime})$ between centers; Pat<br>—Dimension 1 is. 05" bei<br>centers; Pattern G—Dimensic<br>centers, Stock Mfg.                                                     | s shown, turned termin<br>those marked " which<br>de.<br>265" between centers;<br>tern F—Dimension 1 is<br>tween centers; Pattern                                                                                                                                                                                                                                  | als and eyelets may be u<br>are Epoxy paper; † Epox<br>Pattern B.—Dimension I<br>5.2" between centers; Pa<br>P.—Dimension 1 is .1"                                                                                                                                                                                                               | is .188"<br>is .188"<br>ittern M<br>between                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| No.         No.         F           12A9505         18A18           12A9506         32A9           12A9507         64A18           12A9507         64A18           12A9508         64A18           12A9509         64A18           12A9509         64A18           12A9509         64A18           12A9509         64A22           12A9510         85F24EP | Pattern Dia. Size Inche<br>A .093 4.8x4,8x4,<br>A .093 8.51x2.41<br>A .093 8.51x1.88<br>A .093 16.99x4.8<br>A .093 16.99x4.8<br>A .093 16.99x4.8<br>A .093 16.99x8.51<br>A .093 16.99x8.51<br>A .093 15.01x16.<br>F .062 16.99x4.8                                                                                                                                 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                            | \$0.30<br>.31<br>.38<br>.87<br>1.56<br>1.11<br>1.92<br>7.00<br>1.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 12A9511 *65F42EP<br>12A9512 **3106-1XXXP<br>12A9513 **3070-1XXXP<br>12A9514 85G24<br>12A9516 +42G24WE<br>12A9516 +42G24WE<br>12A9516 +42G24WE<br>12A9517 45B30<br>12A9518 185G24WE<br>12A9519 90B30<br>NEW MICRO-VECTORBO                                                                                                                                  | F .062 16.99x8.57<br>F .062 4.5x3x/ <sub>4</sub><br>F .062 6.5x4.5x/<br>G .062 16.99x4.83<br>G .062 16.99x4.83<br>G .062 8.51x5.69<br>G .052 16.99x5.65<br>B .062 8.51x5.69<br>G .052 16.99x5.65<br>RO* FOR MOUNTING                                                                                                                                               | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                             | 2.21<br>.31<br>.58<br>.87<br>1.43<br>1.32<br>.58<br>2.56<br>1.13<br>ACKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                    | 3.04 2.74 2.55<br>3.54 3.19 2.97<br>6.87 6.18 5.77<br>6.42 5.78 5.39<br>6.07 5.46 5.10<br>8.84 7.96 7.43<br>OPPER CLAO ONE SIOE                                                                                                                                                                                                                  | 1.22<br>2.04<br>2.37<br>4.60<br>4.30<br>4.07<br>5.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| XXXP phenolic except WE t<br>Stock Vector<br>No. No.<br>12A9653 CU45/30-1<br>12A9655 CU85/45-1<br>12A9655 CU85/45-1<br>12A9656 CU45/30WE-1<br>12A9657 CU65/45WE-1<br>12A9658 CU85/45WE-1<br>VECTOP IC CORFECT                                                                                                                                              | Size<br>4½x3x¼ <sub>6</sub> "<br>6½x4½x¼ <sub>6</sub> "<br>8½x4½x¼ <sub>6</sub> "<br>8½x4½x¼ <sub>6</sub> "<br>6½x4½x¼ <sub>6</sub> "<br>8½x4½x¼ <sub>6</sub> "<br>8½x4½x¼ <sub>6</sub> "                                                                                                                                                                          | Prices Each<br>1-19 20-99 100-199<br>\$0.31 \$0.28 \$0.26<br>.62 .56 .52<br>.73 .66 .61<br>.72 .65 .60<br>1.39 1.25 1.17<br>1.78 1.60 1.50                                                                                                                                                                                                       | 200-999<br>\$0.21<br>.42<br>.49<br>.48<br>.93<br>1.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| VECTOR I.C. SOCKETS<br>Tabs fit "P" pattern Mici<br>Castings are glass filled r<br>gold plated contacts on wi<br>tacts on solder tab type.<br>Stk. No. Mfg. No. Contacts<br>12A95048 R714 14<br>12A9563 R714 14<br>12A9564 R716 16<br>12A9553. Extractor Tool. AS                                                                                          | ro-Vectorbord or "DIP"<br>hylon with phosphor b<br>re wrap type, and tin<br>Terminals Each<br>P.C. Solder \$0.75<br>Wire Wrap 1.15<br>P.C. Solder .85<br>Wire Wrap 1.44                                                                                                                                                                                            | <sup>2</sup> Plugbords.<br>ronze nickel<br>plated con-<br>Pkg. of 5<br>\$3.20<br>4.90<br>3.85<br>5.90                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 120                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                    | Alt Venter Dre-                                                                                                                                                                                                                                                                                                                                  | l.<br>Alimba Alim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



19 m

### "D.I.P." VECTOR PLUGBORDS FOR DUAL-IN-LINE IC's

Plug-in mounting boards for 14 or 16 lead dual-in-line integrated circuits, Boards are  $\chi_{4}''$  thick epoxy paper material measuring 4 $\chi_{2}$ x6 $\chi_{2}''$  overall with an aluminum frame on 3 sides which fits  $\chi_{4}''$  card guides. Boards have overall "P" pattern of .041" diameter holes spaced on 0.1" spaced grid and an X-Y matrix pattern of .070" etched copper lines running vertically on board front and horizontally on board back.

Pad layouts for 12 D.I.P.'s are provided on all listed types with matrix. Copper lines may be broken with listed line cutter chisel. T42-1 Miniklip push-in terminals shown below make possible speedy circuit construction.

|          |         | n           | lake po  | SSIDIE | e speed   | y circuit | CONST   | UCTION. |          |         |
|----------|---------|-------------|----------|--------|-----------|-----------|---------|---------|----------|---------|
| 3474 D   | t-Up Mo | ugbord      |          |        |           | ,         |         |         |          |         |
| (0011    | t-up mo | aer)        |          |        |           |           |         | Pric    | es Each  |         |
| Stk. No. | Mfg. No | . Descrip   | ition    |        |           |           | 1-19    | 20.99   | 100-199  | 200-999 |
| 12A9500  | 3474    | 41/2x61/2", |          | ed co  | ntacts,   |           |         |         |          |         |
|          |         | X-Y matri   | IX       |        |           |           | \$10,50 | \$9.45  | \$8.82   | \$7.04  |
| 12A9501  | 3474-2  | 41/2×61/2", | 44 etch  | ed co  | ntacts.   |           |         |         | 6.68     | 5.33    |
| 12A9502  | 3474-3  | 41/2×61/2", | 22 etch  | ed co  | ntacts,   |           |         |         |          |         |
|          |         | Y matrix    |          |        |           |           | 8.08    | 7,27    | 6.79     | 5,41    |
| 12A9659  | 3477-7  | 4½x6½2",    |          | hed (  | contacts  | s,        |         |         |          |         |
|          |         | X-Y matri   |          |        |           |           | 9.94    | 8.95    | 8.35     | 6.66    |
| 12A9661  | 3477-8  | 41/2×61/2", |          |        | ntacts,   |           |         |         |          |         |
|          |         | Y matrix    | back sid | ie     |           |           | 8.94    | 8.05    | 8.76     | 5.95    |
|          | 3477-6  | 41/2×61/2", | 72 etch  | ed co  | ntacts, i | no matrix | 7.53    | 6.78    | 6.33     | 5.05    |
|          | P-139   | Line Cutter |          |        |           |           | 1,50    | 1.1     |          |         |
|          |         | Receptacle  | for 34   | 74 S   | eries     | 1-24 Ea   | 1. 2.62 |         | 25-Up Ea | a. 2.10 |
| 12A9662  | R636    | Receptacle  | for 34   | 177 5  | Series I  | Each      |         |         |          | \$5.21  |
|          |         | 1.000000    | -        |        | 0         | VACORPOR  |         |         |          | -       |
| SPI      |         | 4           |          | 2      | 50        |           |         | 6       |          |         |

PUSH-IN "ZIP" TERMINALS & INSERTION TOOLS

Bright tinned, serrated teeth grip several leads for good contact. T32 series provides reliable solderless contact for up to 6 leads and may be used over and over. Nickle plated.

| - Fig. | . Stk. No.  | Mfg. No.    |                           | Pkg. Quantity  | Per Pkg.    | 5 Pkgs. Ea. |
|--------|-------------|-------------|---------------------------|----------------|-------------|-------------|
| (1)    | 12A2210     | T9-4        | Fits .093 holes           | 100            | \$1,44      |             |
| 9000   | 12A2211     | T9-4        | Fits .093 Holes           | 1000           | 10.18       | \$8.55/M    |
| 2      | 12A2212     | T28         | Miniklip Fits .062 Holes  | 100            | 1.61        |             |
| 2      | 12A2213     | T28         | Miniklip Fits .062 Holes  | 1000           | 11.44       | 10.30/M     |
| 2      | 12A2214     | T42-1       | Microklip Fits .042 Hole  | s 100          | 1.82        |             |
| (2)    | 12A2215     | T42-1       | Microklip Fits .042 Hole  | s 1000         | 13.51       | 12.16/M     |
|        |             |             | SPRING CLIP PUSH-IN       | TERMINALS      |             |             |
| Pro    | vides fast, | reliable of | circuit set-ups without s | oldering, bend | ling or cri | mping com-  |
| рол    | ent leads,  |             |                           | 0,             | 0           |             |
| 333    | 12A2216     | T32A-1      | Fits .062 Holes           | 10             | 1.40        |             |
| 3      | 12A2217     | T32A-1      | Fits .062 Holes           | 100            | 10.30       |             |
| (3)    | 12A2218     | T32A        | Fits .093 Holes           | 10             | 1.40        |             |
| (2)    | 1282219     | T32A        | Fits .093 Holes           | 100            | 10.30       |             |
|        |             |             | INSERTION TOOLS FOR       | ABOVE CLIPS    |             |             |
| ۲      | 12A2220     | P122B Fo    | T9-4 Terminals, Each      |                |             | \$1.40      |

| ۰   | 12A2220 | P122B | For T9-4 Terminals. | Each\$  | 1 40 |
|-----|---------|-------|---------------------|---------|------|
| ۰   | 12A2221 | P91A  | For T28 Terminals.  | Each\$  | 1 50 |
| (4) | IZMZZZZ | P130  | FOR 1.32 TERMINAIS  | Fach C1 | 1 20 |
| ۲   | 12A2223 | P149A | For T42-1 Terminals | EachS   | 1.50 |

22X

25X

### 22X TRANSISTOR EXPERIMENTER'S CHASSIS KIT

### 25X SOLDERLESS EXPERIMENTER'S CHASSIS KIT

Big 8.5x17x3<sub>2</sub>" pre-punched phenolic Vectorbord deck with Frame Loc expandable aluminum chassis support. 6 transistor sockets, 3 each 7 and 9 pin miniature sockets, 2 octal sockets, 204 (total) solderable and solderless terminals, 10 patchcords, 2 spools hook-up wire and switch plus asst. nuts, screws, spacers, lugs, brackets, etc. \$21.45

### VECTOR 27XA ETCHED CIRCUIT KIT

Contains everything you need to make 2 etched circuit boards except hot water! Supplied complete with 2 phenolic one side 2 oz copper clad boards 4½x6½x½¾«" (one punched with .062 holes on .2 centers and one unpunched), 8½x11½ sheet multipurpose rub-on Vectoresist sheet with assorted width lines, dots and 43 contact .156 spaced connector pattern, 2 bags etching chemical with activator. No. 12A9648. \$6.50

### 27XA No. 12A9648. Each. CINCH PRINTED CIRCUIT EDGE CONNECTORS

Bifurcated contacts. For 1/6" copper clad PC board, Glassfilled diallyl phthalate insulation, Phosphor bronze contacts with gold plate. Conventional wiring tails.

| 250-499 |                                                      |
|---------|------------------------------------------------------|
| \$0,63  |                                                      |
|         |                                                      |
|         |                                                      |
|         |                                                      |
|         |                                                      |
|         |                                                      |
|         |                                                      |
|         | \$0.83<br>.86<br>.96<br>1.12<br>1.29<br>1.50<br>1.80 |

All Vector Products Are Available From B-A

# Kepro PRINTED CIRCUIT MATERIALS

Standard Etching Kit S101A. A complete assortment of material used for manually producing a basic printed circuit. Contains 2 copper clad unsensitized sheets  $3\times6\times_1^4$ s", 1 perforated  $3\times6\times_1^4$ s" copper clad unsensitized phenolic sheet, etching resist, etching solution, plastic etching tray, etc. with step-by-step instructions. So simple that anyone can successfully produce printed circuit Age10, S101A, Kit. Wt. 11/2 lbs. Net Each... \$3.95 Age11, S101A, G. Scoret, 11/2 lbs. boards. 12A9611 S101A-G.Same kit with glass base material.\$5,25

Professional Etching Kit P101A. An etched circuit kit utilizing photo engraving process for fine professional quality work. A negative of layout is produced, then the sensitized sheet of copper clad phenolic board is exposed through the prepared negative after which it is developed and etched. Contains three sensitized boards (2-3x6, 1-3x3), 3 mechanical negatives of the same size, etch solution, wand developer, printing frame, trays, etc. with instructions. Wt. 3 lbs. No. 12A9612. \$5.85 \$5.85

NP-303A Enamel Nameplate & Panel Kit. Produces pro-fessional high contrast blue and aluminum panels. Kit supplies pressure sensitive opaque letters and numerals in three fonts which are arranged on a clear acetate sheet and used as a positive film to expose a photosensitized blue aluminum plate. In development, the opaque areas are washed away producing sharply detailed aluminum letters on a blue background. A double-face pressure sensitive sheet adheres the panel to desired area. Pro-duces 160 sq. in of plate. No. 12A9688 Wt 1 lb. 1 oz. Each S7.25

### NAMEPLATE AND PANEL SUPPLIES

| Stk. No. | Kepro No.  | Description                     | Shpg. Wt.  | Each   |
|----------|------------|---------------------------------|------------|--------|
| 12A9689  | NP-EP810   | Sensitive Enamel Plate 8 X 10"  | 6 Ozs.     | \$1.45 |
| 12A9690  | NP-1220    | Sensitive Enamel Plate 12 X 20" | 1 Lb.      | 4.13   |
| 12A9691  | NPD-2A     | 2 Oz. Developer                 | 6 Ozs.     | .75    |
| 12A9692  | NPD-16A    | 16 Oz. Developer                | 2 3/4 Lbs. | 2.90   |
| 2A9693   | NP-AS      | 8 X 10" Adhesive Sheet          | 6 Ozs.     | .70    |
| 12A9694  | NP-A\$1722 | 17 X 22" Adhesive Sheet         | 1 Lb.      | 2.75   |

FK-701 Photo Reversing Kit. Simple two-step process to prepare line nega-tives and positives from taped or ink artwork or to reserve existing negatives and positives. Needs no darkroom. 2-10x24" reversing film, chemicals, and instructions included. Shpg. wt. 2 lbs. **\$7,20** \$7.20 No. 12A9665, Each

Laminated 1 ounce (.00135) copper clad materials, one or two sides, both in  $\frac{1}{46}$ " XXXP paper base phenolic.  $\frac{1}{46}$ " G-10 glass epoxy and  $\frac{1}{46}$ " polyester laminate. All copper clad materials meet standard NEMA grade tolerances.

**KEPRO 12 INCH SHEAR** 

Easily shears and trims copper clad and unclad XXXP phenolic, C-10 glass epoxy, and polyester laminates up to  $\chi_2^{**}$  thick. Also cuts metal up to 12" wide. Blade clearance adjustable and shear blade may be reversed for new cutting edge. Fixed side squaring gauge, ad-justable length gauge up to 5¼4" long. Shpg. wt. 18 lbs. No. 37A3287. Sp4.00 \$94.00

Kepro MIS-12, Each



### MASTER PHOTO LAYOUT KIT PL-200A

**MASTER PHOTO LAYOUT KIT** Produce professional PC artwork accurately and rapidly without inking and lettering. Includes: 2-18X24" Matte Surface Mylar; 2-18X24" Mechanical Negative; 4-17X 21" Graph Paper; 1-18X24" Master Mylar Grid Sheet-, 112-V<sub>8</sub>" Term. Dots; 224-X<sub>6</sub>" Term. Dots; 288-V<sub>4</sub>" Term. Dots; 192-X<sub>6</sub>" Term. Dots; 252-V<sub>2</sub>" Term. Dots; 18 Yds. each of X<sub>6</sub>, X<sub>8</sub>, V<sub>8</sub>, X<sub>8</sub> and X<sub>4</sub>" conductor strips; 1-8X10" sheet of letters; Bow Compass, Blue Drawing Pencil, Pen Holder, Pen Point, Cutting Knife Set, Center Dot Cutter, Tweezers, Bottle Opaquing Fluid, Brush and Instructions. Shpg. wt. 4 lbs. No. 12A9687 Complete Kit Each



\$38.70

**Complete Kit Each** 

Photo Layout Kit PL-2A. For preparing camera-ready artwork without inking and lettering. Reduced layout time by use of pressure-sensitive tapes, dots, letters and numerals. Contents: 96-1/4" Tape Dot Terminations, 108"-1/6" Tape Conductor Strips, 216"-1/6" Tape Conductor Strips, 1 Sheet letters and numerals assorted sizes, 1-8x10" acetate sheet, 1-8x10" Mech. Neg, 2-8x10" sheets of Graph paper and instruction sheet. Wt. 1 lb. \$3.95 No. 12A9603. PL-2A. Each ...

Printed Circuit Lab L505A. Meets all circuit board development needs of the industrial, laboratory or serious experimenter. Contains 15 sensitized boards, 3 copper clad unsensitized boards (1 perforated), trays for developing and etching, safelite, photoflood lamp, photo layout kit PL2A, 4x10 mechanical negative, etch and developer solutions with accessory items. With instructions, Wt, 21 lbs.



131

No. 12A9608. L505A Kit. With XXXP \$34.75 

### ETCHED CIRCUIT COPPER CLAD MATERIALS

Materials supplied unsensitized (unsen.) for screen processed parts and photo-sensitized (sen.) for photo processed boards. Photosensitized materials are ready for exposure with no other sensitizing required.

### MATERIAL 5 PIECES PER PACKAGE ARE BULK PACKED-NOT INDIVIDUALLY SEALED IN SINGLE PACKAGES.

XXXP PAPER BASE PHENOLIC 1 OZ ( 00135) CORRER CLAD

à

|                                                                                                                                  |                                                                                                                          |                                                                                                                                                    |                                                                                          |                                                                                                                       |                                                                                                                                                | PER BAS                                                                                    | E PHENOLIC                                                                                                                                                                                   | , 1 OZ. (.00                                                                                                                          | 135) COPPER                                                                                                                                                                            |                                                                                                          |                                                                                                                                                                                                   |                                                                                    |                                                                                                            |                                                                                                           |                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|                                                                                                                                  | MATERIAL                                                                                                                 | . INDIVI                                                                                                                                           | DUALLY P                                                                                 | ACKAG                                                                                                                 | ED                                                                                                                                             |                                                                                            |                                                                                                                                                                                              | MATERIAL 5 PIECES PER PACKAGE                                                                                                         |                                                                                                                                                                                        |                                                                                                          |                                                                                                                                                                                                   |                                                                                    |                                                                                                            |                                                                                                           |                                                                                                           |
| Stock<br>No.                                                                                                                     | Kepro<br>No.                                                                                                             | Descript                                                                                                                                           | tion I                                                                                   | Size<br>Inches                                                                                                        | Wt.<br>Ozs.                                                                                                                                    | Net.<br>Each                                                                               | Stock<br>No.                                                                                                                                                                                 | Kepro<br>No.                                                                                                                          | Description                                                                                                                                                                            | Size<br>n Inches                                                                                         | Weight<br>Pk. of 5                                                                                                                                                                                | 1-4<br>Pks.<br>Each                                                                | 5-9<br>Pks.<br>Each                                                                                        | 10-24<br>Pks.<br>Each                                                                                     | 25-49<br>Pks.<br>Each                                                                                     |
| 12A9555<br>12A9555<br>12A9558<br>12A9558<br>12A9558<br>12A9560<br>12A9561<br>12A9562<br>12A9563<br>12A9564<br>12A9565<br>12A9565 | P1-33<br>P1-36<br>P1-1212<br>P2-33<br>P2-36<br>P2-1212<br>S1-33<br>S1-36<br>S1-66<br>S1-1212<br>S2-36<br>S2-66<br>S2-710 | Unsen, 1<br>Unsen, 1<br>Unsen, 1<br>Unsen, 2<br>Unsen, 2<br>Unsen, 2<br>Sen, 1 si<br>Sen, 1 si<br>Sen, 1 si<br>Sen, 2 si<br>Sen, 2 si<br>Sen, 2 si | l side<br>l side<br>2 side<br>2 side<br>2 side<br>de<br>de<br>de<br>de<br>de<br>de<br>de | 3x3<br>3x6<br>12x12<br>3x3<br>3x6<br>12x12<br>3x3<br>3x6<br>6x6<br>12x12<br>3x6<br>6x6<br>12x12<br>3x6<br>6x6<br>7x10 | 1 3/4<br>2 1/8<br>9 3/4<br>1 3/4<br>2 1/8<br>1 0 /2<br>1 3/4<br>2 1/8<br>1 0 /2<br>1 3/4<br>2 1/8<br>3 1/2<br>1 3/4<br>2 1/8<br>3 1/2<br>5 1 8 | \$0.40<br>.54<br>2.48<br>.44<br>3.22<br>.58<br>.90<br>1.52<br>5.36<br>1.22<br>2.18<br>3.86 | 12 A9579<br>12 A9580<br>12 A9580<br>12 A9581<br>12 A9582<br>12 A9583<br>12 A9584<br>12 A9585<br>12 A9585<br>12 A9586<br>12 A9586<br>12 A9588<br>12 A9588<br>12 A9589<br>12 A9590<br>12 A9591 | P1-335<br>P1-365<br>P1-12125<br>P2-335<br>P2-365<br>P2-12125<br>S1-365<br>S1-365<br>S1-365<br>S1-12125<br>S2-365<br>S2-665<br>S2-7105 | Unsen. 1 sic<br>Unsen. 1 sic<br>Unsen. 2 sic<br>Unsen. 2 sic<br>Unsen. 2 sic<br>Unsen. 2 sic<br>Sen. 1 side<br>Sen. 1 side<br>Sen. 1 side<br>Sen. 2 side<br>Sen. 2 side<br>Sen. 2 side | de 3X3<br>de 3X6<br>de 12X12<br>de 3X3<br>de 12X12<br>de 12X12<br>de 12X12<br>3X3<br>3X6<br>6X6<br>12X12 | 9 Ozs.<br>11 Ozs.<br>3 Lbs.<br>9 Ozs.<br>11 Ozs.<br>3 <sup>1</sup> / <sub>2</sub> Ozs.<br>9 Ozs.<br>11 Ozs.<br>11 Ozs.<br>11/ <sub>8</sub> Lbs.<br>11/ <sub>8</sub> Lbs.<br>11/ <sub>8</sub> Lbs. | \$ 1.45<br>2.05<br>11.15<br>1.65<br>2.55                                           | \$ 1.25<br>1.80<br>9.45<br>1.45<br>2.25<br>12.60<br>2.00<br>3.30<br>5.85<br>21.20<br>4.70<br>8.70<br>15.70 | \$ 1.15<br>1.65<br>7.35<br>1.30<br>2.05<br>9.80<br>1.85<br>3.00<br>5.30<br>16.85<br>4.25<br>7.90<br>14.25 | \$ 1.05<br>1.50<br>7.00<br>1.20<br>1.85<br>9.45<br>1.70<br>2.80<br>4.90<br>16.10<br>3.95<br>7.30<br>13.15 |
| 1 <b>2A9</b> 568                                                                                                                 | \$2-1212                                                                                                                 | Sen, 2 si                                                                                                                                          | de 13                                                                                    | 2×12                                                                                                                  | 10                                                                                                                                             | 7.62                                                                                       | 12A9592                                                                                                                                                                                      | \$2-12125                                                                                                                             | Sen. 2 side                                                                                                                                                                            | 12X12                                                                                                    | 31/2 Lbs.                                                                                                                                                                                         | 36.85                                                                              | 30.60                                                                                                      | 24 30                                                                                                     | 23.20                                                                                                     |
|                                                                                                                                  |                                                                                                                          |                                                                                                                                                    |                                                                                          |                                                                                                                       |                                                                                                                                                | 0 GLASS                                                                                    | EPOXY 1 O                                                                                                                                                                                    | Z. (.00135)                                                                                                                           | COPPER CLA                                                                                                                                                                             | D                                                                                                        |                                                                                                                                                                                                   |                                                                                    |                                                                                                            |                                                                                                           |                                                                                                           |
| 12A9569<br>12A9570<br>12A9571<br>12A9572<br>12A9573<br>12A9573<br>12A9575<br>12A9575<br>12A9577<br>12A9578                       | P1-36C<br>P1-1212C<br>P2-36C<br>P2-1212C<br>S1-36C<br>S1-66C<br>S1-66C<br>S2-36C<br>S2-66C<br>S2-1212C                   | Unsen.<br>Unsen.<br>Unsen.<br>Sen.<br>Sen.<br>Sen.<br>Sen.<br>Sen.<br>Sen.<br>Sen.<br>S                                                            | l side<br>2 side<br>2 side<br>de<br>de<br>de<br>de<br>de                                 | 3x6<br>12x12<br>3x6<br>12x12<br>3x6<br>6x6<br>12x12<br>3x6<br>6x6<br>12x12<br>3x6<br>6x6<br>12x12                     | 31/8<br>103/4<br>31/8<br>111/2<br>41/2<br>103/4<br>41/2<br>1/8<br>41/2<br>1/8<br>1/2                                                           | .66<br>6.76<br>1.12<br>7.06<br>1.44<br>2.58<br>9.64<br>1.70<br>3.16<br>11.72               | 12A9593<br>12A9594<br>12A9595<br>12A9596<br>12A9596<br>12A9597<br>12A9599<br>12A9599<br>12A9600<br>12A9601<br>12A9602                                                                        | P1-365C<br>P1-12125C<br>P2-365C<br>P2-12125C<br>S1-365C<br>S1-665C<br>S1-12125C<br>S2-365C<br>S2-365C<br>S2-12125C                    | Unsen, 1 sic<br>Unsen, 2 sic<br>Unsen, 2 sic<br>Sen, 1 side<br>Sen, 1 side<br>Sen, 1 side<br>Sen, 2 side<br>Sen, 2 side<br>Sen, 2 side                                                 | le 12X12<br>le 3X6                                                                                       | 1 Lb.<br>3 1/2 Lbs.<br>1 Lb.<br>3 3/4 Lbs.<br>1 Lb.<br>1 1/2 Lbs.<br>3 1/2 Lbs.<br>1 Lb.<br>1 1/2 Lbs.<br>3 3/4 Lbs.                                                                              | 4.75<br>32.55<br>4.95<br>34.05<br>6.55<br>12.10<br>46.95<br>7.85<br>15.00<br>47.60 | 4.20<br>27.65<br>4.35<br>28.95<br>5.75<br>10.65<br>38.95<br>6.90<br>13.20<br>37.85                         | 3.80<br>21.50<br>3.95<br>22.45<br>5.25<br>9.70<br>31.00<br>6.30<br>12.00<br>36.10                         | 3.45<br>20.50<br>3.60<br>21.45<br>4.80<br>8.85<br>29.55<br>5.75<br>10.95<br>34.40                         |
|                                                                                                                                  |                                                                                                                          |                                                                                                                                                    | 04                                                                                       | Mana Iniz                                                                                                             |                                                                                                                                                |                                                                                            |                                                                                                                                                                                              | R 1 OZ. COI                                                                                                                           |                                                                                                                                                                                        | and and a half                                                                                           | • 4                                                                                                                                                                                               |                                                                                    |                                                                                                            |                                                                                                           |                                                                                                           |
| 12A9671<br>12A9672<br>12A9673<br>12A9674<br>12A9674<br>12A9675<br>12A9676<br>12A9677<br>12A9678                                  | P1-36M<br>P1-1212M<br>P2-36M<br>P2-1212M<br>S1-36M<br>S1-1212M<br>S2-36M<br>S2-1212M                                     | Unsen, 2<br>Unsen, 2<br>Sen, 1 Si<br>Sen, 2 Si<br>Sen, 2 Si<br>Sen, 2 Si                                                                           | I Side<br>I Side<br>2 Side<br>2 Side<br>de<br>de<br>de<br>de                             | 3×6<br>12×12<br>3×6<br>12×12<br>3×6<br>12×12<br>3×6<br>12×12                                                          | 31/8<br>103/4<br>4<br>111/2<br>31/8<br>12<br>4<br>14                                                                                           | \$0.58<br>2.84<br>.70<br>3.82<br>.94<br>5.72<br>1.28<br>8.42                               | 12A9679<br>12A9680<br>12A9681<br>12A9681<br>12A9682<br>12A9683<br>12A9684<br>12A9685<br>12A9685<br>12A9686                                                                                   | Excellent ph<br>P1-1365M<br>P2-365M<br>P2-365M<br>P2-12125M<br>S1-365M<br>S1-12125M<br>S2-365M<br>S2-12125M                           | Unsen. 1 Sid<br>Unsen. 1 Sid<br>Unsen. 2 Sid<br>Unsen. 2 Sid<br>Unsen. 2 Side<br>Sen. 1 Side<br>Sen. 1 Side<br>Sen. 2 Side<br>Sen. 2 Side                                              | le 3×6<br>le 12×12<br>le 3×6<br>le 12×12<br>3×6<br>12×12<br>3×6<br>12×12                                 | 1 Lb.<br>33/4 Lbs.<br>11/8 Lbs.<br>31/3 Lbs.<br>1 Lb.<br>31/2 Lbs.<br>11/8 Lbs.<br>31/3 Lbs.                                                                                                      |                                                                                    | \$ 2.00<br>11.00<br>2.50<br>15.15<br>3.50<br>22.70<br>4.95<br>33.90                                        | \$ 1.80<br>8.55<br>2.30<br>11.75<br>3.15<br>18.05<br>4.50<br>29.95                                        | \$ 1.65<br>8.15<br>2.10<br>11.25<br>2.90<br>17.20<br>4.15<br>25.75                                        |
| Stock                                                                                                                            | Kepro                                                                                                                    | ED CIRCU                                                                                                                                           | IT PROCE                                                                                 | ESSING                                                                                                                | CHEMI                                                                                                                                          | Wt.                                                                                        | Mak                                                                                                                                                                                          | Etc. al.                                                                                                                              | W                                                                                                                                                                                      | PHOTO L                                                                                                  | AYOUT SI                                                                                                                                                                                          | UPPLIES                                                                            |                                                                                                            | 11/4                                                                                                      | Mak                                                                                                       |
| No.                                                                                                                              |                                                                                                                          | Size                                                                                                                                               | Descriptio                                                                               | n                                                                                                                     |                                                                                                                                                | Lbs.                                                                                       | Net<br>Each                                                                                                                                                                                  | Stock<br>No.                                                                                                                          | Kepro<br>No.                                                                                                                                                                           | Descri                                                                                                   | iption                                                                                                                                                                                            |                                                                                    |                                                                                                            | Wt.<br>Ozs.                                                                                               | Net<br>Each                                                                                               |
| 12A9614<br>12A9615<br>12A9616<br>12A9616<br>12A9667                                                                              | T-2<br>D-1PT<br>D-1C<br>D-5C                                                                                             | 2 Ozs.<br>2 Ozs.<br>1 Pt.<br>1 Gal.<br>5 Gal.                                                                                                      | Paint Etch<br>Paint Resi<br>Developin<br>Developin<br>Developin                          | ist Thin<br>Ig Soluti<br>Ig Soluti<br>Ig Soluti                                                                       | on<br>on                                                                                                                                       | 1/2<br>1/2<br>23/4<br>16<br>80                                                             | \$0.60<br>.50<br>1.15<br>5.50<br>25.00                                                                                                                                                       | 12A9604<br>12A9605<br>12A9606<br>12A9607<br>12A9670                                                                                   | TC-250<br>CS-062<br>CS-125<br>AT-810                                                                                                                                                   | 144 Termina<br>96 Terminal<br>Conductor S<br>Conductor S<br>Pressure Sen<br>For Artwork                  | Circles, 1/4<br>trips, 1/8" v<br>trips, 1/8" v<br>sitive Lett                                                                                                                                     | " O.D., ½<br>wide, 216<br>wide, 108<br>ers and N                                   | inches inches                                                                                              | 2 Ozs.<br>2 Ozs.<br>2 Ozs.<br>2 Ozs.<br>2 Ozs.<br>4 Ozs.                                                  | \$0.55<br>.55<br>.55<br>.55                                                                               |
| 12A9618<br>12A9619<br>12A9666                                                                                                    | E-1G                                                                                                                     | Pt.<br>1 Gal.<br>5 Gal.                                                                                                                            | Etching Sc<br>Etching Sc<br>Etching Sc                                                   | olution                                                                                                               |                                                                                                                                                | 151/2<br>75                                                                                | .85<br>3.50<br>15.25                                                                                                                                                                         | 12A9669<br>12A9668                                                                                                                    | MN-1212<br>As-3                                                                                                                                                                        | For Artwork<br>12x12" Mec<br>Acetate Lay<br>Sheet                                                        | hanical Ne                                                                                                                                                                                        | gative                                                                             | 8×24″                                                                                                      | 4 Ozs.<br>4 Ozs.<br>8 Ozs.                                                                                | 2.50<br>1.25<br>1.15                                                                                      |

Burstein-Applebee Co., 3199 Mercier, Kansas City, Mo. 64111

# **CINCH JONES BARRIER & TERMINAL STRIPS**







JONES BARRIER STRIPS PRICES BELOW ARE FOR ONE TYPE ONLY-NOT ASSORTED

| 1  | 3⁄4 W | $(\mathbf{\hat{o}})$ | "Y" |
|----|-------|----------------------|-----|
| 10 |       | X                    |     |
|    | 0     |                      |     |



| 4                    |                               |                         | ~                                | 5                      |                        |                           |                            | 5                                           | 3                        |
|----------------------|-------------------------------|-------------------------|----------------------------------|------------------------|------------------------|---------------------------|----------------------------|---------------------------------------------|--------------------------|
|                      |                               |                         |                                  |                        |                        | R STI                     |                            |                                             |                          |
|                      | TYPE MS                       | 140Y fo                 | r either                         | 140 or                 | 140-Y ba               | rrier strij               | ps.                        | erminal strip                               |                          |
| m. 3⁄8″              | Stk. No.<br>12A2292           | MS2-:                   | 140Y                             | 1-24 Ea<br>\$0.15      | \$0                    | 1.12                      | \$0.10                     | 00-249 Ea. 2<br>\$0.09                      | \$0.08                   |
| 50-499<br>Each       | 12A2293<br>12A2294<br>12A2295 | MS3-<br>MS4-            | 140Y                             | .15                    |                        | .12                       | .10                        | .09                                         | 80.<br>80.<br>90.        |
| \$0.12               | 12A2296<br>12A2296<br>12A2297 | MS5-1<br>MS6-1<br>MS7-1 | 140Y                             | .17<br>.17<br>.17      |                        | .13<br>.13<br>.13         | .11<br>.11<br>.11          | .10<br>.10<br>.10                           | .09                      |
| .18                  | 12A2298<br>12A2299            | MS8-                    |                                  | .17                    |                        | .13<br>.13                | .11                        | .10                                         | .09                      |
| .25                  | 12A2300<br>12A2301            | MS10                    | -140Y<br>-140Y                   | .19                    |                        | .15<br>.15                | .13                        | .11                                         | .10                      |
| .32<br>.35           | 12A2302<br>12A2303            | MS14<br>MS16            | -140Y<br>-140Y                   | .21                    |                        | .17                       | .14                        | .12<br>.13                                  | .11<br>.12               |
| .39                  | 12A2304<br>12A2305            | M\$20                   | -140Y<br>-140Y                   | .23<br>.26             |                        | .19<br>.20                | .16<br>.17                 | .13<br>.14                                  | .12<br>.13               |
| .46<br>.49           | TYPE MS<br>12A2278            | MS2-3                   | 141Y                             | \$0.15                 | i \$0                  | ).12                      | \$0.10                     | \$0.09                                      | \$0.08                   |
| .54<br>.58           | 12A2279<br>12A2280            | MS3-<br>MS4-            | 141Y                             | .17                    |                        | .13                       | .11                        | .10                                         | .09                      |
| .61<br>.64           | 12A2281<br>12A2282            | MS5-<br>MS6-            | 141Y                             | .17                    |                        | .13<br>.13                | .11<br>.11                 | .10<br>.10                                  | .09<br>.09               |
| .68<br>.71           | 12A2283<br>12A2284            |                         | 141Y                             | .19                    | )                      | .15                       | .13<br>.13                 | .11                                         | .10<br>.10               |
| .75<br>.78           | 12A2285<br>12A2286<br>12A2287 | MS10                    | 141Y<br>-141Y<br>-141Y           | .19<br>.21<br>.23      |                        | .15                       | .13                        | .11                                         | .10                      |
|                      | 12A2288<br>12A2289            | MS14                    | -141Y<br>-141Y                   | .20                    | 5                      | .19<br>.20<br>.22         | .16<br>.17<br>.18          | .13<br>.14<br>.15                           | .12<br>.13<br>.14        |
| 250-499<br>Each      | 12A2290<br>12A2291            | MS18                    | -141Y<br>-141Y                   | .27                    |                        | .22<br>.23                | .20                        | .16                                         | .15<br>.15               |
| \$0.15<br>.18        | 4                             | ADAP                    | TER                              | SOLD                   | ER T                   | ERMI                      | NALS                       |                                             | NES                      |
| .24<br>.30<br>.34    | "3/4 W"                       | lugs for                | wiring                           | above th               |                        | <b>STR</b><br>s. ''Y'' lu |                            | ng below th                                 | e chassis.               |
| .39<br>.45           | Avg. shpg<br>Stock            |                         | Fit                              | 1.24                   |                        | 25-49                     | 50-99                      | 100-249                                     | 250-499                  |
| .50<br>.56           | No.<br>12A1434                | <b>Type</b><br>3/4 W    | Strip<br>140                     | Eacl<br>\$0.1          | 0 5                    | Each<br>\$0.09            | Each<br>\$0.08             | Each<br>\$0.07                              | Each<br>\$0.06           |
| .66<br>.77           | 12A1435<br>12A1436<br>12B1329 | 3/4 W<br>3/4 W<br>Y     | 141<br>142<br>140                |                        | 2                      | .09<br>.10<br>.09         | 80.<br>90.<br>80.          | .07<br>.08<br>.07                           | .06<br>.07<br>.06        |
| .88                  | 12B1330<br>12B1331            | Ý<br>Y                  | 141<br>142                       | i i                    | 0                      | .09                       | .08                        | .07                                         | .06                      |
| 1.08<br>m. ¾″        |                               |                         | NES                              |                        |                        | TER                       | MINAL                      | STRIPS                                      | 5                        |
|                      | phenolic,                     | .019″ b<br>base an      | rass, tii<br>id moun             | i-plated-<br>ting brac | -all term<br>ckets ste | el, cadmi                 | ulated from<br>ium plated, | terminal.<br>Terminals                      | Insulation:<br>spaced on |
| 250-499<br>Each      | Stock<br>No.                  | Te                      | rms.<br>Type                     | 1-24<br>Eac            | 4 ;                    | 25-49<br>Each             | 50-99<br>Each              | 100-249<br>Each                             | 250-499<br>Each          |
| \$0.13<br>.17<br>.23 | 12A1582<br>12A1583            | 2                       | 2002                             | \$0.1<br>.1            | 0 :                    | \$0.09<br>.11             | \$0.08<br>09.              | \$0.07<br>.08                               | \$0.06<br>.07            |
| .27<br>.31           | 12A1584<br>12A1585            | 5                       | -2004<br>-2005                   |                        | 3                      | .12<br>.12                | .10<br>.10                 | .09<br>.09                                  | .08<br>.08               |
| .36                  | 12A1586<br>12A1460<br>12A1587 | 7                       | -2006<br>-2007<br>-2008          | .1                     | 5<br>8                 | .13<br>.13<br>.14         | .11<br>.11<br>.12          | .10<br>.10                                  | .09<br>.09               |
| .45<br>.50           | 12A1461<br>12A1588            | 9                       | -2009<br>-2010                   |                        | 9                      | .15                       | .13                        | .11<br>.12<br>.12                           | .10<br>.11<br>.11        |
| .59<br>.68           | 12A1462<br>12A1589            | 11-                     | -2011                            | .2                     | 21<br>21               | .17<br>.17                | .15                        | .13<br>.13                                  | .12                      |
| .77<br>.87<br>.96    | 12A1463                       |                         | -2013                            | .2<br>NEC              |                        | .20                       | .17                        | .14<br>STRIPS                               | .13                      |
|                      | n.                            | <b>67</b> 10            | -n-JO                            |                        |                        |                           |                            | 2                                           |                          |
| 250-499<br>Each      | 0                             | 210                     | 9 0                              |                        | 00                     | 000                       |                            |                                             |                          |
| \$0.17               | g,                            | 00                      | وں۔<br>۱ ۲                       | •                      |                        | 6                         | - <u>S</u>                 | _ 0                                         | 0                        |
| .24<br>.32<br>.38    |                               | 2                       |                                  | 3                      | _                      | <u>.</u><br>              | 5                          |                                             | 6                        |
| .44                  | spaced o                      | N -9/8'' CI             | enters.                          | MIQ. TEE               | т паче                 | [40" dia.                 | boles Tvr                  | coated stee                                 | have one                 |
| .59<br>.65           | has one<br>lugs, "N           | mtg. foc                | t and c                          | ne grou                | nd lug;<br>s to tot:   | type 6 ha                 | as two mtg                 | no ground lu<br>, ft, and tw<br>on a strip, | wo ground                |
| .72<br>.85<br>1.00   | Bionua II                     | igs.                    | CES BEL                          |                        | FOR ONE                | TYPE OI                   | NLY-NOT #                  |                                             |                          |
| 1.14                 | Stock<br>No.                  | Fig.                    | Cinch<br>No.                     | No. of<br>Lugs         | 1-24<br>Each           | 25-49<br>Each             | 50-99<br>Each              | 100-249<br>Each                             | 250-499<br>Each          |
| 1.42                 | 12A1256<br>12A1258            | 1                       | 51F<br>51T                       | 1                      | \$0.06<br>.07          | \$0.05<br>.06             | \$0.04<br>.05              | \$0.03<br>.04                               | \$0.02<br>.03            |
| m. % <sub>6</sub> ″  | 12A1260<br>12A1263<br>12A1261 | 2 2 3                   | 52 <b>T</b><br>5 <b>3T</b><br>51 | 231                    | .08<br>.09<br>.06      | .07                       | .06                        | .05<br>.06                                  | .04<br>.05               |
| 250-499<br>Each      | 12A1267<br>12A1264            | 2<br>3<br>3<br>3<br>3   | 52<br>53E                        | 23                     | .06                    | .05<br>.05<br>.06         | .04<br>.04<br>.05          | .03<br>.03<br>.04                           | .02<br>.02<br>.03        |
| \$0.15               | 12A1265<br>12A1266            | 4                       | 54B<br>53                        | 4                      | .07<br>.07             | .06<br>.06                | .05                        | .04<br>.04<br>.04                           | .03                      |
| .21<br>.27<br>.32    | 12A1269<br>12A1270            | 4                       | 54<br>55                         | 4                      | .07<br>.08             | .06<br>.07                | .05<br>.06                 | .04<br>.05                                  | .03                      |
| .32<br>.38<br>.44    | 12A1273<br>12A1262            | 4<br>5                  | 56<br>51A                        | 6                      | .08                    | .07                       | .06<br>.04                 | .05<br>.03                                  | .04                      |
| .49                  | 12A1268<br>12A1275<br>12A1282 | 5<br>5<br>5             | 52A<br>53F<br>54C                | 3<br>4<br>E            | .06<br>.07<br>.07      | .05<br>.06<br>.06         | .04                        | .03<br>.04                                  | .02<br>.03               |
| .61<br>.72           | 12A1282<br>12A1274<br>12A1257 | 5<br>6<br>6             | 53A<br>54A                       | 312343456234556        | .07<br>.07<br>.07      | .06<br>.06<br>.06         | .05<br>.05<br>.05          | .04<br>.04<br>.04                           | .03<br>.03<br>.03        |
| .84<br>.96           | 12A1283<br>12A1259            | 6                       | 55A<br>56A                       | 7<br>8                 | .08<br>.08             | .07<br>.07                | .06<br>.06                 | .05                                         | .04                      |
|                      |                               | -                       | Towns                            |                        |                        |                           |                            |                                             |                          |

① SERIES 140. Base  $7_{6}$ " W. x  ${}^{1}_{22}$ " H. overall,  $\frac{1}{4}$ " H. to terminal bottom

| Stock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 2A1526                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 2A1527<br>2A1528                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2A1529                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 2A1530<br>2A1474                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2A1531                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 221454<br>221556<br>221557<br>221557<br>221417<br>221418<br>1221419<br>1221420<br>(2) SERIES 1<br>Stock<br>No.<br>222250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12-141<br>14-141<br>16-141<br>18-141<br>20-141<br>41-Y. 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| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1418<br>2A1419<br>2A1420<br>3) SERIES 1<br>Stock<br>No.<br>2A2250<br>2A2250<br>2A2251<br>2A2252                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12-141<br>14-141<br>16-141<br>18-141<br>20-141<br>41-Y. 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| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1418<br>2A1419<br>2A1419<br>2A1420<br>© SERIES 1.<br>Stock<br>No.<br>2A2250<br>2A2251<br>2A2252<br>2A2253                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 12-141<br>14-141<br>16-141<br>18-141<br>20-141<br>41-Y. Like ab<br>Terms.<br>& Type<br>2-141Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                     | .93<br>1.07<br>1.22<br>1.37<br>1.51<br>ith thru (<br>25-49<br>Each<br>\$0.28<br>.38<br>.50<br>.61                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .77<br>.90<br>1.02<br>1.14<br>1.27<br>banel solder<br>50-99<br>Each<br>\$0.23<br>.32<br>.42<br>.50                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                    | .59<br>.68<br>.77<br>.87<br>.98<br>250-499<br>Each<br>\$0.17<br>.24<br>.32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2A1454<br>2A1556<br>2A1417<br>2A1417<br>2A1418<br>2A1419<br>2A1419<br>2A1420<br>3) SERIES 1<br>Stock<br>No.<br>2A2250<br>2A2250<br>2A2251<br>2A2252<br>2A2253<br>2A2253                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12-141<br>14-141<br>16-141<br>18-141<br>20-141<br>41-Y. 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| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1417<br>2A1419<br>2A1420<br>SERIES 1:<br>Stock<br>No.<br>2A2250<br>2A2251<br>2A2252<br>2A2253<br>2A2254<br>2A2255<br>2A2255                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12-141<br>14-141<br>16-141<br>20-141<br>41-Y. 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| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1417<br>2A1419<br>2A1419<br>2A1420<br>3<br>Stock<br>No.<br>2A2250<br>2A2250<br>2A2250<br>2A2252<br>2A2253<br>2A2254<br>2A2255<br>2A2255<br>2A2255                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12-141<br>14-141<br>16-141<br>18-141<br>20-141<br>41-Y. 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                                                                     | .93<br>1.07<br>1.22<br>1.37<br>1.51<br>ith thru ;<br>25-49<br>Each<br>\$0.28<br>\$0.28<br>\$0.28<br>.50<br>.61<br>.70<br>.82<br>.92<br>1.02                                                                                                                                                                                                                                                                                                                                                                                                                                | .77<br>.90<br>1.02<br>1.14<br>1.27<br>banel solder<br>\$0.99<br>Each<br>\$0.23<br>.32<br>.42<br>.50<br>.59<br>.69<br>.77<br>.85                                                                                                                                                                                                                       | .62<br>.72<br>.81<br>.91<br>1.01<br>lugs.<br>100-249<br>Each<br>\$0.18<br>.25<br>.33<br>.40<br>.46<br>.55<br>.62<br>.68                                                                                                                                            | .59<br>.68<br>.77<br>.87<br>.96<br>250-495<br>Each<br>\$0.17<br>.24<br>.32<br>.38<br>.44<br>.53<br>.59<br>.65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1417<br>2A1419<br>22A1420<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12-141<br>14-141<br>16-141<br>18-141<br>20-141<br>41-Y. Like ab<br>Terms.<br>& Type<br>2-141Y<br>3-141Y<br>3-141Y<br>5-141Y<br>6-141Y<br>7-141Y<br>9-141Y<br>10-141Y<br>12-141Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1417<br>2A1418<br>2A1419<br>2A1419<br>2A1419<br>2A1419<br>3<br>SERIES 1<br>Stock<br>No.<br>2A2250<br>2A2250<br>2A2250<br>2A2252<br>2A2255<br>2A2255<br>2A2255<br>2A2255<br>2A2255<br>2A2255<br>2A2255<br>2A2255<br>2A2259<br>2A2259<br>2A2259                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12-141<br>14-141<br>16-141<br>18-141<br>20-141<br>41-Y. Like ab<br>Terms.<br>& Type<br>2-141Y<br>3-141Y<br>3-141Y<br>4-141Y<br>5-141Y<br>6-141Y<br>7-141Y<br>8-141Y<br>10-141Y<br>10-141Y<br>12-141Y<br>14-141Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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.62<br>.72<br>.81<br>.91<br>1.01<br>lugs.<br>100-249<br>Each<br>\$0.18<br>.25<br>.33<br>.40<br>.46<br>.55<br>.62<br>.68<br>.76<br>.90<br>1.05                                                                                                                      | .59<br>.68<br>.77<br>.87<br>.96<br>250-495<br>Each<br>\$0.17<br>.24<br>.32<br>.38<br>.44<br>.53<br>.59<br>.65<br>.75<br>.75<br>.75<br>.75<br>.85<br>.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1417<br>2A1419<br>2A1419<br>2A1420<br>3) SERIES 1.<br>Stock<br>No.<br>2A2250<br>2A2250<br>2A2250<br>2A2252<br>2A2254<br>2A2255<br>2A2255<br>2A2255<br>2A2256<br>2A2257<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12-141<br>14-141<br>16-141<br>18-141<br>20-141<br>41-Y. Like ab<br>Terms.<br>& Type<br>2-141Y<br>3-141Y<br>3-141Y<br>3-141Y<br>5-141Y<br>6-141Y<br>7-141Y<br>9-141Y<br>10-141Y<br>12-141Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1417<br>2A1419<br>2A1419<br>2A1419<br>2A1420<br>3<br>SERIES 1.<br>Stock<br>No.<br>2A2250<br>2A2250<br>2A2250<br>2A2254<br>2A2255<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2                                                                                     | 12-141<br>14-141<br>16-141<br>18-141<br>20-141<br>41-Y. Like ab<br>Terms.<br>& Type<br>2-141Y<br>3-141Y<br>3-141Y<br>4-141Y<br>5-141Y<br>6-141Y<br>10-141Y<br>10-141Y<br>12-141Y<br>14-141Y<br>16-141Y<br>18-141Y<br>18-141Y<br>20-141Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                     | .93<br>1.07<br>1.22<br>1.37<br>1.51<br>ith thru ;<br>25.49<br>Each<br>\$0.28<br>.50<br>.61<br>.70<br>.82<br>.92<br>1.02<br>1.02<br>1.03<br>1.35<br>1.58<br>1.80<br>2.02<br>2.25                                                                                                                                                                                                                                                                                                                                                                                            | .77<br>.90<br>1.02<br>1.14<br>1.27<br>50-99<br>Each<br>\$0.23<br>.32<br>.42<br>.50<br>.59<br>.69<br>.77<br>.85<br>.95<br>1.12<br>1.32<br>1.50<br>1.69<br>1.87                                                                                                                                                                                         | .62<br>.72<br>.81<br>.91<br>1.01<br>lugs.<br>100-249<br>Each<br>\$0.18<br>.25<br>.33<br>.40<br>.46<br>.55<br>.62<br>.25<br>.33<br>.40<br>.46<br>.55<br>.62<br>.25<br>.33<br>.40<br>.46<br>.55<br>.68<br>.76<br>.105<br>1.19<br>1.35<br>1.50                        | .59<br>.68<br>.77<br>.87<br>.96<br>250-499<br>Each<br>\$0.17<br>.24<br>.32<br>.38<br>.44<br>.53<br>.59<br>.65<br>.72<br>.85<br>.72<br>.85<br>.100<br>1.14<br>1.28<br>1.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1417<br>2A1417<br>22A1420<br>③ SERIES 1:<br>32A2250<br>2A2250<br>2A2255<br>2A2255<br>2A2255<br>2A2255<br>2A2255<br>2A2255<br>2A2255<br>2A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12                                                                                                                                                                                                                          | 12-141<br>14-141<br>16-141<br>16-141<br>20-141<br>41-Y. Like ab<br>Terms.<br>& Type<br>2-141Y<br>3-141Y<br>4-141Y<br>5-141Y<br>6-141Y<br>7-141Y<br>8-141Y<br>10-141Y<br>10-141Y<br>10-141Y<br>10-141Y<br>10-141Y<br>14-141Y<br>16-141Y<br>18-141Y<br>20-141Y<br>42. Base 1%<br>8-32 x %'s"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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;<br>25.49<br>Each<br>\$0.28<br>.38<br>.50<br>.50<br>.61<br>.70<br>.82<br>.92<br>1.02<br>1.35<br>1.58<br>1.80<br>2.02<br>2.02<br>2.02<br>2.02<br>2.02<br>2.02<br>2.02<br>2                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                     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| 2A1454<br>2A1556<br>2A1557<br>2A1477<br>12A1417<br>12A1417<br>12A1419<br>12A1420<br>© SERIES 1<br>2A2250<br>2A2250<br>2A2251<br>2A2254<br>12A2255<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A2256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A256<br>12A2                                                                                                                                                                                                                                  | 12-141<br>14-141<br>16-141<br>18-141<br>20-141<br>41-Y. 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.16<br>1.35<br>1.52<br>1.71<br>1.90<br>ove except w<br>1-24<br>Each<br>\$0.35<br>.47<br>.63<br>.76<br>.88<br>1.03<br>1.15<br>1.22<br>1.42<br>1.69<br>1.97<br>2.25<br>2.52<br>2.81<br>w. x 5/6"<br>binder head<br>1-24<br>Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .93<br>1.07<br>1.22<br>1.37<br>1.51<br>ith thru ;<br>25-49<br>Each<br>\$0.28<br>.50<br>.61<br>.70<br>.82<br>.92<br>1.02<br>2.25<br>1.58<br>1.58<br>1.80<br>2.02<br>2.25<br>H. overs<br>screws.<br>25-49<br>Each                                                                                                                                                                                                                                                                                                                                                            | .77<br>.90<br>1.02<br>1.14<br>1.27<br>50-99<br>Each<br>\$0.23<br>.32<br>.42<br>.50<br>.59<br>.69<br>.77<br>.85<br>.95<br>1.12<br>1.32<br>1.50<br>1.69<br>1.87<br>1.87<br>1.87<br>1.87<br>1.69<br>1.87                                                                                                                                                 | .62<br>.72<br>.81<br>.91<br>1.01<br>lugs.<br>100-249<br>Each<br>\$0.18<br>.25<br>.33<br>.40<br>.40<br>.46<br>.52<br>.62<br>.68<br>.76<br>.62<br>.68<br>.76<br>.90<br>1.05<br>1.19<br>1.35<br>1.50<br>to terminal b<br>wt. 6 oz.<br>100-249                         | .59<br>.68<br>.77<br>.87<br>.98<br>250-495<br>Each<br>\$0.17<br>.24<br>.32<br>.38<br>.44<br>.32<br>.38<br>.44<br>.53<br>.65<br>.72<br>.85<br>1.00<br>1.14<br>1.28<br>1.42<br>vottom. % <sub>6</sub> '                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1417<br>2A1417<br>2A1419<br>2A1420<br>Stock<br>No.<br>2A2250<br>2A2251<br>2A2252<br>2A2252<br>2A2252<br>2A2252<br>2A2252<br>2A2256<br>2A2255<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A256<br>2A                                                                                                         | 12-141<br>14-141<br>16-141<br>16-141<br>20-141<br>41-Y. 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w<br>1.24<br>Each<br>\$0.35<br>.76<br>.83<br>1.03<br>1.63<br>1.03<br>1.15<br>1.28<br>1.03<br>1.15<br>1.28<br>1.97<br>2.52<br>2.81<br>"""<br>w. x 5%"<br>binder head<br>1.24<br>Each<br>\$0.35<br>1.52<br>1.71<br>1.90<br>1.24<br>Each<br>1.97<br>2.52<br>2.81<br>*"<br>binder head<br>1.24<br>Each<br>\$0.35<br>1.97<br>2.52<br>2.81<br>*"<br>binder head<br>1.24<br>Each<br>\$0.35<br>1.97<br>2.52<br>2.81<br>**<br>binder head<br>1.24<br>Each<br>\$0.35<br>1.97<br>2.52<br>2.81<br>**<br>binder head<br>1.24<br>Each<br>\$0.35<br>1.97<br>2.52<br>2.81<br>**<br>binder head<br>1.24<br>Each<br>\$0.35<br>**<br>**<br>**<br>**<br>**<br>**<br>**<br>**<br>**<br>*                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                                                                               | .77<br>.90<br>1.02<br>1.14<br>1.27<br>50-99<br>Each<br>\$0.23<br>.32<br>.32<br>.42<br>.50<br>.59<br>.69<br>.77<br>.85<br>.95<br>1.12<br>1.32<br>1.50<br>1.69<br>1.69<br>.95<br>1.12<br>1.32<br>1.50<br>1.69<br>1.69<br>.95<br>.95<br>.95<br>.95<br>.95<br>.95<br>.95<br>.95<br>.95<br>.9                                                              |                                                                                                                                                                                                                                                                    | -59<br>-59<br>-68<br>-77<br>-87<br>-96<br>-250-495<br>Each<br>-24<br>-32<br>-38<br>-44<br>-53<br>-59<br>-65<br>-72<br>-85<br>-72<br>-85<br>-72<br>-85<br>-100<br>-1.14<br>1.28<br>1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1.42<br>-1. |
| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1417<br>2A1417<br>2A1419<br>2A1420<br>3 SERIES 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               | $\begin{array}{c} 12.141\\ 14.141\\ 16.141\\ 20.141\\ 20.141\\ \hline erms.\\ \hline$ | 1.16<br>1.35<br>1.52<br>1.52<br>1.71<br>1.90<br>ove except w<br>1-24<br>Each<br>\$0.35<br>.47<br>.63<br>.76<br>.88<br>1.03<br>1.03<br>1.15<br>1.28<br>1.42<br>1.69<br>1.97<br>2.25<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.55<br>2 | .93<br>1.07<br>1.22<br>1.37<br>1.51<br>ith thru ;<br>25-49<br>Each<br>\$0.28<br>.50<br>.61<br>.70<br>.82<br>.92<br>1.02<br>2.25<br>1.58<br>1.58<br>1.80<br>2.02<br>2.25<br>H. overs<br>screws.<br>25-49<br>Each                                                                                                                                                                                                                                                                                                                                                            | .77<br>.90<br>1.02<br>1.14<br>1.27<br>50-99<br>Each<br>\$0.23<br>.32<br>.42<br>.50<br>.59<br>.69<br>.77<br>.85<br>.95<br>1.12<br>1.32<br>1.50<br>1.69<br>1.87<br>1.87<br>1.87<br>1.87<br>1.69<br>1.87                                                                                                                                                 | .62<br>.72<br>.81<br>.91<br>1.01<br>lugs.<br>100-249<br>Each<br>\$0.18<br>.25<br>.33<br>.40<br>.40<br>.46<br>.52<br>.62<br>.68<br>.76<br>.62<br>.68<br>.76<br>.90<br>1.05<br>1.19<br>1.35<br>1.50<br>to terminal b<br>wt. 6 oz.<br>100-249                         | .59<br>.68<br>.77<br>.87<br>.96<br>250-495<br>Each<br>\$0.17<br>.24<br>.32<br>.38<br>.44<br>.53<br>.59<br>.65<br>.72<br>.85<br>1.00<br>1.14<br>1.28<br>1.42<br>1.42<br>.250-495<br>Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1417<br>2A1417<br>2A1419<br>2A1420<br>3<br>SERIES 1<br>2A2250<br>2A2250<br>2A2251<br>2A2252<br>2A2252<br>2A2253<br>2A2254<br>2A2255<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2257<br>2A2256<br>2A2257<br>2A2256<br>2A2257<br>2A2256<br>2A2257<br>2A2256<br>2A2257<br>2A2256<br>2A2257<br>2A2256<br>2A2257<br>2A2256<br>2A2257<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2256<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A2556<br>2A256                                                                                                                            | 12-141<br>14-141<br>16-141<br>16-141<br>18-141<br>20-141<br>41-Y. Like ab<br>Terms.<br>& 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w<br>1.24<br>Each<br>\$0.35<br>.76<br>.88<br>1.03<br>.76<br>.88<br>1.03<br>1.15<br>1.28<br>1.42<br>1.69<br>1.97<br>2.52<br>2.81<br>"W. x 5%"<br>binder head<br>1.24<br>Each<br>\$0.30<br>.53<br>.64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                                                                               | .77<br>.90<br>1.02<br>1.14<br>1.27<br>50.99<br>Each<br>\$0.23<br>.32<br>.42<br>.50<br>.59<br>.69<br>.77<br>.85<br>.95<br>5.1.12<br>1.32<br>1.32<br>1.50<br>1.69<br>1.87<br>1.87<br>4.20<br>.59<br>5.95<br>5.95<br>5.95<br>5.95<br>5.95<br>5.95<br>1.12<br>1.32<br>1.50<br>1.69<br>1.87<br>5.99<br>5.99<br>5.99<br>5.95<br>5.95<br>5.95<br>5.95<br>5.9 |                                                                                                                                                                                                                                                                    | -59<br>-59<br>-68<br>-77<br>-87<br>-96<br>-250-495<br>Each<br>\$0.17<br>-24<br>-38<br>-38<br>-44<br>-53<br>-55<br>-75<br>-75<br>-72<br>-85<br>1.00<br>1.14<br>1.28<br>1.42<br>-250-495<br>Each<br>*0.15<br>-21<br>-27<br>-32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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w<br>1-24<br>Each<br>\$0.35<br>.47<br>.63<br>.76<br>.88<br>1.03<br>1.15<br>1.28<br>1.42<br>1.69<br>1.97<br>2.25<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.53<br>2.53<br>3.64<br>.75<br>.64<br>.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .93<br>1.07<br>1.22<br>1.37<br>1.51<br>ith thru ;<br>25-49<br>Each<br>\$0.28<br>.50<br>.61<br>.70<br>.82<br>.92<br>1.02<br>.82<br>.50<br>.61<br>.70<br>.82<br>.92<br>1.02<br>.82<br>.50<br>.61<br>.70<br>.82<br>.92<br>1.02<br>.82<br>.50<br>.61<br>.70<br>.82<br>.25<br>.50<br>.60<br>.24<br>.50<br>.24<br>.50<br>.24<br>.50<br>.24<br>.50<br>.24<br>.50<br>.24<br>.50<br>.24<br>.50<br>.24<br>.50<br>.24<br>.50<br>.24<br>.50<br>.24<br>.50<br>.25<br>.50<br>.25<br>.50<br>.25<br>.50<br>.50<br>.25<br>.50<br>.50<br>.50<br>.50<br>.50<br>.50<br>.50<br>.50<br>.50<br>.5 | .77<br>.90<br>1.02<br>1.14<br>1.27<br>50-99<br>Each<br>\$0.23<br>.32<br>.42<br>.50<br>.59<br>.69<br>.77<br>.85<br>.95<br>1.12<br>1.32<br>1.50<br>1.69<br>1.87<br>1.87<br>1.87<br>1.87<br>1.69<br>1.87<br>1.87<br>1.87<br>1.69<br>1.87<br>1.87<br>1.69<br>1.87<br>1.69<br>1.87<br>1.50<br>5.99<br>5.95<br>5.95<br>5.95<br>5.95<br>5.95<br>5.95<br>5    | .62<br>.72<br>.81<br>.91<br>1.01<br>lugs.<br>100-249<br>Each<br>\$0.18<br>.25<br>.33<br>.40<br>.40<br>.46<br>.55<br>.55<br>.62<br>.68<br>.76<br>.62<br>.68<br>.76<br>.90<br>1.05<br>1.19<br>1.35<br>1.50<br>to terminal b<br>wt. 6 oz.<br><b>1.00</b> -249<br>Each | .59<br>.68<br>.77<br>.87<br>.98<br>250-495<br>Each<br>\$0.17<br>.24<br>.32<br>.38<br>.44<br>.53<br>.59<br>.65<br>.72<br>.85<br>.100<br>1.14<br>1.28<br>1.42<br>.85<br>1.00<br>1.14<br>1.28<br>1.42<br>.250-495<br>Each<br>1.04<br>1.28<br>1.42<br>.250-495<br>.21<br>.21<br>.27<br>.38                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 2A1454<br>2A1556<br>2A1557<br>2A1417<br>2A1417<br>2A1417<br>2A1419<br>2A1420<br>3 SERIES 1<br>2A2250<br>2A2250<br>2A2250<br>2A2250<br>2A2252<br>2A2253<br>2A2254<br>2A2255<br>2A2256<br>2A2256<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A2258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A258<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A357<br>2A3577<br>2A3577<br>2A3577<br>2A3577<br>2A3577<br>2A35777<br>2A35777<br>2A35777777777777777777777777777777777777                                                                                                                                                                                                                                                                                                                                                                                                                             | 12-141<br>14-141<br>16-141<br>18-141<br>20-141<br>41-Y. 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head<br>1.24<br>Each<br>\$0.30<br>.69<br>1.97<br>2.25<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.52<br>2.55<br>2.52<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55<br>2.55 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-59<br>-68<br>-77<br>-87<br>-96<br>-250-49:<br>Each<br>-24<br>-32<br>-38<br>-44<br>-53<br>-55<br>-72<br>-85<br>-72<br>-85<br>-100<br>-1.14<br>1.28<br>1.42<br>-250-49:<br>Each<br>-250-49:<br>Each<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-250-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-50-49:<br>-270-50-49:<br>-270-50-49:<br>-270-50-50-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49:<br>-270-49: 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w<br>1.24<br>Each<br>\$0.35<br>.63<br>.63<br>.63<br>.63<br>1.03<br>1.15<br>1.28<br>1.03<br>1.15<br>1.28<br>1.03<br>1.15<br>1.28<br>1.03<br>1.15<br>1.28<br>1.03<br>1.15<br>1.28<br>1.03<br>1.15<br>1.28<br>1.97<br>2.252<br>2.81<br>*<br>"W. x 5%"<br>binder head<br>1.24<br>Each<br>\$0.30<br>.53<br>.63<br>.63<br>.63<br>.63<br>.63<br>.63<br>.63<br>.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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.59<br>.68<br>.77<br>.87<br>.96<br>.250-495<br>Each<br>.24<br>.38<br>.44<br>.53<br>.59<br>.65<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.77<br>.96<br>.85<br>.77<br>.96<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.24<br>.85<br>.72<br>.85<br>.72<br>.85<br>.24<br>.44<br>.44<br>.23<br>.85<br>.72<br>.85<br>.72<br>.85<br>.72<br>.85<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25<br>.2 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| I2A1454<br>I2A1556<br>I2A1557<br>I2A1417<br>I2A1417<br>I2A1447<br>I2A14419<br>I2A1420<br>© SERIES 1<br>Stock<br>No.<br>I2A2250<br>I2A2250<br>I2A2253<br>I2A2253<br>I2A2254<br>I2A2255<br>I2A2255<br>I2A2256<br>I2A2256<br>I2A2257<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A2258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A258<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358<br>I2A358                                                                                                                                               | 12-141<br>14-141<br>16-141<br>16-141<br>18-141<br>20-141<br>41-Y. 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w<br>1.24<br>Each<br>\$0.35<br>.47<br>.63<br>.76<br>.88<br>1.03<br>.76<br>.88<br>1.03<br>.76<br>.88<br>1.03<br>.76<br>.88<br>1.03<br>.76<br>.88<br>1.03<br>.76<br>.88<br>1.42<br>1.42<br>1.69<br>1.97<br>2.25<br>2.81<br>4″ W. x 5/8″<br>binder head<br>1.24<br>Each<br>\$0.30<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.53<br>.64<br>.55<br>.87<br>.87<br>.87<br>.87<br>.87<br>.87<br>.87<br>.87                               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                                                                                                                                                                                                                               | .77<br>.90<br>1.02<br>1.14<br>1.27<br>50.99<br>Each<br>\$0.23<br>.32<br>.42<br>.50<br>.59<br>.69<br>.77<br>.85<br>.95<br>1.12<br>1.32<br>1.50<br>1.87<br>1.87<br>1.87<br>1.87<br>1.87<br>1.87<br>1.87<br>1.87                                                                                                                                         |                                                                                                                                                                                                                                                                    | -59<br>-59<br>-68<br>-77<br>-87<br>-96<br>-250-499<br>Each<br>-32<br>-38<br>-44<br>-53<br>-59<br>-65<br>-72<br>-85<br>-72<br>-85<br>-72<br>-85<br>-72<br>-85<br>-72<br>-85<br>-72<br>-85<br>-72<br>-85<br>-72<br>-85<br>-72<br>-85<br>-72<br>-85<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-96<br>-77<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-85<br>-72<br>-72<br>-72<br>-72<br>-72<br>-72<br>-72<br>-72<br>-72<br>-72 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| Stock<br>No.<br>12A2250<br>12A2251<br>12A2251<br>12A2253<br>12A2253<br>12A2255<br>12A2255<br>12A2256<br>12A2256<br>12A2258<br>12A2258<br>12A2250<br>12A2260<br>12A2260<br>12A2261<br>12A2263<br>① SERIES 1<br>centers, Has<br>Stock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 12-141<br>14-141<br>16-141<br>16-141<br>18-141<br>20-141<br>41-Y. 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | O CONN<br>(3)<br>plated bras<br>black wrinkle<br>Jones Type<br>PE WITH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | high powe<br>s. Plug por<br>with fibre<br>No. when<br>CLAMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)                                                                       | ns. Rated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>3<br>4<br>6<br>8<br>10<br>12<br>15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                                                                                                                                                                                                                                                                                                 | .88<br>1.10<br>1.34<br>1.77<br>2.02<br>- Stk. No. 12<br>\$0.26<br>.29<br>.32<br>.40<br>.40<br>.57<br>.67<br>.86<br>.98<br>1.22<br>1.44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .73<br>.92<br>1.11<br>1.49<br>1.68<br>*A180<br>\$0.22<br>.24<br>.24<br>.27<br>.34<br>.48<br>.57<br>.71<br>.82<br>1.01<br>1.21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | .59<br>.89<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.27<br>.27<br>.33<br>.38<br>.45<br>.57<br>.66<br>.80<br>.98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .56<br>.99<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.21<br>.26<br>.31<br>.35<br>.42<br>.54<br>.82<br>.77<br>.77<br>.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 400 Serie<br>1200 RMS<br>%" thick.<br>wt. 6 ozs<br>Cont.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (3)<br>s. Heavy duty<br>i volts at 15 an<br>. CCT rectangui<br>. Specify B-A S<br>Jones<br>No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RIES 40<br>polarized co<br>mps. Cadmiun<br>ar caps are 1<br>Stock No. and<br>CABLE TY<br>① PLUG -<br>1-24<br>Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | O CONN<br>3<br>mnectors for<br>plated bras<br>plated bras<br>plated wrinkle<br>Jones Type<br>PE WITH<br>- Stk. No. 1:<br>25-49<br>Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | high powe<br>s. Plug pror<br>with fibre<br>No. when<br>CLAMP<br>24176<br>50-99<br>Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | s<br>(100-249<br>Each                                                                                                           | ns. Rated<br>wide and<br>age shpg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>3<br>4<br>6<br>8<br>10<br>12<br>15<br>11<br>18<br>21<br>24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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P316A8<br>P321A8<br>P324A8<br>P327A8<br>P330A8<br>P330A8<br>P333A8<br>S302A8<br>S303A8<br>S303A8<br>S306A8<br>S306A8<br>S310A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.52<br>.36<br>.40<br>.51<br>.61<br>.61<br>.71<br>.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.09<br>2.40<br>2.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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No. 12<br>\$0.29<br>.29<br>.32<br>.40<br>.48<br>.67<br>.96<br>.98<br>1.22<br>1.67<br>1.67<br>1.67<br>1.67<br>2.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .56<br>.70<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.35<br>.42<br>.54<br>.82<br>.77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 400 Serie<br>1200 RMS<br>¼" thick.<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | s. Heavy duty<br>volts at 15 at<br>CCT rectangui<br>Specify B-A S<br>Jones<br>No.<br>P402CCT<br>P404CCT<br>P404CCT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | polarized co<br>mps. Cadmiun<br>ar caps are in<br>CCABLE TY<br>() PLUG-<br>1.24<br>Each<br>\$1.23<br>1.39<br>1.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0 CONN<br>3<br>nnectors for<br>plated bras<br>plated                                                                                                           | high powe<br>bigh powe<br>bigh powe<br>bight fibre<br>No. when<br>CLAMP<br>2A176<br>50-99<br>Each<br>\$0.81<br>.93<br>1.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S<br>(a)<br>er application<br>ngs are ¼ <sup>(r)</sup><br>lining. Avera<br>ordering.<br>100-249<br>Each<br>\$0.65<br>.74<br>.86 | ns. Rated<br>wide and<br>age shpg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>3<br>4<br>4<br>6<br>8<br>10<br>12<br>15<br>18<br>12<br>15<br>18<br>21<br>24<br>27<br>30<br>33<br>90jarized,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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P316A8<br>P321A8<br>P327A8<br>P327A8<br>P330A8<br>P330A8<br>P330A8<br>P330A8<br>S302A8<br>S303A8<br>S303A8<br>S303A8<br>S304A8<br>S306A8<br>S310A8<br>S312A8<br>S312A8<br>S315A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S3 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.06<br>.30<br>.40<br>.51<br>.61<br>.71<br>.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.09<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | .88<br>1.10<br>1.34<br>1.57<br>2.02<br>- Stk. No. 12<br>\$0.26<br>.29<br>.29<br>.40<br>.40<br>.57<br>.65<br>.98<br>1.22<br>1.44<br>1.67<br>1.92<br>2.14<br>UGS AND<br>ideal for a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .73<br>.92<br>1.11<br>1.31<br>1.49<br>1.68<br>%0.22<br>.24<br>.27<br>.34<br>.48<br>.57<br>.71<br>.82<br>1.21<br>1.21<br>1.39<br>1.60<br>1.78<br>SOCKET                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .56<br>.99<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.35<br>.42<br>.42<br>.42<br>.54<br>.82<br>.54<br>.82<br>.92<br>1.06<br>1.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 400 Serie<br>1200 RMS<br>34," thick,<br>wt. 6 ozs<br>Cont.<br>2<br>4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | s. Heavy duty<br>volts at 15 an<br>CCT rectangui<br>specify B-A S<br>No.<br>P402CCT<br>P406CCT<br>P406CCT<br>P408CCT<br>P408CCT<br>P408CCT<br>P408CCT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RIES 40<br>polarized co<br>mps. Cadmiun<br>ar caps are in<br>CABLE TY<br>0 PLUG -<br>1.24<br>Each<br>\$1.23<br>1.39<br>1.60<br>1.77<br>2.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0 CONN<br>3<br>nnectors for<br>plated bras<br>plated bras<br>plated bras<br>plated wrinkle<br>1 Jones Type<br>PE WITH<br>- Stk. No. 11<br>25-49<br>50.98<br>1.11<br>1.28<br>1.41<br>1.63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | high powe<br>s. Plug pror<br>with fibre<br>No. when<br>CLAMP<br>24176<br>50.99<br>Each<br>\$0.81<br>.93<br>1.07<br>1.18<br>1.36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S<br>(4)<br>(5)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4                                                          | 250-499<br>Each<br>\$0.62<br>.70<br>.81<br>.90<br>1.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>3<br>4<br>6<br>8<br>10<br>12<br>15<br>15<br>18<br>21<br>22<br>4<br>27<br>30<br>33<br>Polarized,<br>mike and<br>on to ma<br>tion, P202                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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P316A8<br>P321A8<br>P324A8<br>P327A8<br>P330A8<br>P330A8<br>P330A8<br>P330A8<br>S302A8<br>S302A8<br>S303A8<br>S304A8<br>S306A8<br>S306A8<br>S30A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S333A8<br>S33 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>2.52<br>3.00<br>50.32<br>.36<br>.40<br>.51<br>.61<br>.71<br>.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.09<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>tions, Knurled I<br>positive lockir<br>5202CFTHR a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .88<br>1.10<br>1.34<br>1.57<br>2.02<br>- Stk. No. 12<br>\$0.26<br>.29<br>.32<br>.40<br>.48<br>.67<br>.98<br>1.22<br>1.44<br>1.67<br>1.92<br>2.14<br>UGS AND<br>ideal for<br>.01<br>.21<br>.21<br>.21<br>.22<br>.24<br>.22<br>.24<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 59<br>.73<br>.89<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.27<br>.27<br>.33<br>.38<br>.45<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>1.42<br>S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .56<br>.70<br>.85<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.21<br>.26<br>.31<br>.35<br>.42<br>.77<br>.92<br>1.06<br>1.22<br>1.36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 400 Serie<br>1200 RMS<br>%4" thick.<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6<br>8<br>10<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | s. Heavy duty<br>volts at 15 an<br>CCT rectangui<br>specify B-A S<br>No.<br>P402CCT<br>P406CCT<br>P406CCT<br>P408CCT<br>P408CCT<br>P408CCT<br>P408CCT<br>P412CCT<br>S402CCT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RIES 40<br>polarized comps. Cadmiun<br>ar caps are of<br>CABLE TY<br>0 PLUG-<br>1.24<br>Each<br>\$1.23<br>1.39<br>1.60<br>1.77<br>2.04<br>2.23<br>8 SOCKET<br>\$1.38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                                      | high powe<br>s. Plug pror<br>with fibre<br>with fibre<br>No. when<br>CLAMP<br>24176<br>\$0.81<br>.93<br>1.07<br>1.18<br>1.48<br>124176<br>\$0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | S<br>(a)<br>(b)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c                                                          | 250-499<br>Each<br>\$0.62<br>.70<br>.90<br>1.03<br>1.12<br>\$0.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 18<br>21<br>24<br>27<br>33<br>33<br>2<br>33<br>4<br>6<br>8<br>8<br>10<br>12<br>15<br>18<br>21<br>24<br>27<br>30<br>33<br>9<br>Polarized,<br>mike and<br>on to ma<br>tion. P202<br>S202CCT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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P316AB<br>P321AB<br>P324AB<br>P327AB<br>P327AB<br>P330AB<br>P330AB<br>P330AB<br>S302AB<br>S303AB<br>S304AB<br>S304AB<br>S304AB<br>S304AB<br>S312AB<br>S315AB<br>S312AB<br>S315AB<br>S312AB<br>S315AB<br>S321AB<br>S321AB<br>S321AB<br>S324AB<br>S327AB<br>S330AB<br>S321AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S327AB<br>S330AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S317AB<br>S3 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.50<br>3.60<br>.40<br>.51<br>.71<br>.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.09<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>strongs, Knurled 1<br>positive lockin<br>S2020CT-THR a<br>2.81<br>1.81<br>1.82<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1.95<br>1 | .88<br>1.10<br>1.34<br>1.79<br>2.02<br>- Stk. No. 12<br>50.26<br>.29<br>.32<br>.40<br>.40<br>.57<br>.67<br>.67<br>.86<br>.98<br>1.22<br>1.44<br>1.92<br>2.14<br>UGS AND<br>ideal for<br>screws<br>g connec-<br>ind S2028.<br>n ordering.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .73<br>.92<br>1.11<br>1.31<br>1.49<br>1.68<br>\$0.22<br>\$0.22<br>.24<br>.34<br>.48<br>.57<br>.71<br>.82<br>1.21<br>1.21<br>1.39<br>1.60<br>1.78<br>SOCKET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 59<br>.73<br>.89<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.22<br>.27<br>.27<br>.33<br>.38<br>.45<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>1.42<br>S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | .56<br>.70<br>.85<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.22<br>1.22<br>1.22<br>1.22<br>1.36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 400 Serie<br>1200 RMS<br>X <sub>6</sub> " thick,<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6<br>8<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | s. Heavy duty<br>volts at 15 at<br>CCT rectangui<br>Specify B-A S<br>No.<br>P402CCT<br>P404CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P408CCT<br>P408CCT<br>P402CCT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RIES 40<br>polarized con<br>pos. Cadmiun<br>ar caps are<br>tock No. and<br>CABLE TY<br>() PLUG<br>1-24<br>Each<br>\$1.23<br>1.39<br>1.60<br>1.77<br>2.04<br>2.23<br>() SOCKET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Lach powe<br>high powe<br>s. Plug pror<br>with fibre<br>with fibre<br>No. when<br>CLAMP<br>24176<br>50.99<br>Each<br>\$0.81<br>.93<br>1.07<br>1.18<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | S<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a                                                              | 250-499<br>Each<br>\$0.62<br>.70<br>.81<br>.90<br>1.03<br>1.12<br>\$0.70<br>.83<br>.97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>3<br>4<br>6<br>8<br>10<br>12<br>15<br>18<br>21<br>24<br>27<br>30<br>33<br>Polarized,<br>mike and<br>on to ma<br>specify St<br>Jones No<br>① P202CC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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P316AB<br>P321AB<br>P324AB<br>P327AB<br>P327AB<br>P333AB<br>S302AB<br>S302AB<br>S303AB<br>S303AB<br>S304AB<br>S306AB<br>S306AB<br>S310AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S2 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.50<br>SOCKETS -<br>\$0.32<br>.36<br>.40<br>.51<br>.61<br>.71<br>1.23<br>1.51<br>1.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.40<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>Knurled -<br>positive lockir<br>s202CCT-THR a<br>209<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>tions, Knurled -<br>positive lockir<br>1.5202CT-THR a<br>208<br>2.68<br>ES 202 PLL<br>two-conductors,<br>tions, Knurled -<br>positive lockir<br>1.5202CT-THR a<br>208<br>2.68<br>1.520<br>1.51<br>1.51<br>1.80<br>2.69<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>tions, Knurled -<br>positive lockir<br>1.5202CT-THR a<br>2.28<br>1.520<br>1.520<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.551<br>1.520<br>1.551<br>1.520<br>1.551<br>1.551<br>1.520<br>1.551<br>1.551<br>1.520<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.551<br>1.5                                                                                                                        | .88<br>1.10<br>1.34<br>1.57<br>1.79<br>2.02<br>- Stk. No. 12<br>\$0.26<br>.29<br>.32<br>.40<br>.40<br>.57<br>.67<br>.85<br>.98<br>1.22<br>1.44<br>1.67<br>1.92<br>2.14<br>IGS AND<br>ideal for<br>nordering.<br>.24<br>.25.4<br>.24<br>.25.4<br>.24<br>.25.4<br>.24<br>.25.4<br>.24<br>.25.4<br>.24<br>.25.4<br>.24<br>.25.4<br>.25.4<br>.24<br>.25.4<br>.25.4<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .73<br>.92<br>1.11<br>1.31<br>1.49<br>1.68<br>\$0.22<br>.24<br>.24<br>.27<br>.34<br>.48<br>.57<br>.34<br>.48<br>.57<br>1.01<br>1.21<br>1.39<br>1.60<br>1.78<br>SOCKET<br>1.21<br>1.78<br>SOCKET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .59<br>.73<br>.69<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.22<br>.27<br>.33<br>.45<br>.57<br>.66<br>.96<br>1.11<br>1.28<br>1.42<br>S<br>2<br>100-249<br>Each<br>\$0.58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .56<br>.70<br>.85<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.21<br>.26<br>.31<br>.35<br>.42<br>.31<br>.35<br>.42<br>.54<br>.82<br>1.06<br>1.22<br>1.36<br>\$2<br>.31<br>.35<br>.42<br>.31<br>.35<br>.42<br>.31<br>.35<br>.42<br>.31<br>.35<br>.42<br>.31<br>.35<br>.42<br>.32<br>.34<br>.35<br>.33<br>.32<br>.34<br>.35<br>.34<br>.35<br>.35<br>.35<br>.35<br>.35<br>.35<br>.35<br>.35<br>.35<br>.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 400 Serie<br>1200 RMS<br>%(" thick.<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Is. Heavy duty<br>volts at 15 at<br>CCT rectangui<br>Specify B-A S<br>No.<br>P402CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>S402CCT<br>S406CCT<br>S408CCT<br>S408CCT<br>S402CCT<br>S402CCT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RIES 40<br>polarized con<br>pps. Cadmiun<br>ar caps are<br>tock No. and<br>CABLE TY<br>() PLUG<br>1-24<br>Each<br>1.23<br>1.39<br>1.60<br>1.77<br>2.04<br>2.23<br>() SOCKET<br>\$1.36<br>1.95<br>1.92<br>2.18<br>2.46<br>2.74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                                                 | high powe<br>s. Plug pror<br>with fibre<br>with fibre<br>with when<br>CLAMP<br>24176<br>50-99<br>Each<br>\$0.81<br>.93<br>1.07<br>1.18<br>1.36<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.46<br>1.46<br>1.45<br>1.82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | S<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5                                                   | 250-499<br>Each<br>\$0.62<br>.70<br>.90<br>1.03<br>1.12<br>\$0.70<br>.83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 18<br>21<br>24<br>27<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>4<br>6<br>8<br>8<br>10<br>12<br>15<br>18<br>21<br>24<br>27<br>30<br>33<br>Polarized,<br>mike and<br>on to ma<br>tion. P202<br>S202CCT<br>Specify St<br>Jones No<br>() S202CC<br>() S202CC<br>() S202CC<br>() S202CC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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P316AB<br>P321AB<br>P321AB<br>P324AB<br>P327AB<br>P330AB<br>P330AB<br>P333AB<br>S302AB<br>S302AB<br>S303AB<br>S303AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S324AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S330AB<br>S333AB<br>S21AB<br>S324AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S227AB<br>S327AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S27 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.52<br>3.60<br>.61<br>.61<br>.61<br>.61<br>.61<br>.61<br>.71<br>1.23<br>1.51<br>1.80<br>2.09<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>5202CCT-THR a<br>128<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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No. 12<br>\$0.26<br>.29<br>.32<br>.40<br>.40<br>.40<br>.57<br>.67<br>.86<br>.98<br>1.22<br>1.44<br>1.67<br>1.92<br>2.14<br>UGS ANDD<br>ideal for<br>ideal for<br>ideal for<br>ideal for<br>ideal for<br>ideal for<br>in ordering.<br>-24 25-4<br>ach Eacl<br>.09 \$0.8<br>.146 1.1<br>.32 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .73<br>.92<br>1.11<br>1.31<br>1.49<br>1.68<br>50.22<br>.24<br>.34<br>.418<br>57<br>.34<br>.418<br>.57<br>.34<br>.48<br>.57<br>.34<br>1.01<br>1.21<br>1.21<br>1.39<br>1.21<br>1.21<br>1.39<br>1.60<br>1.78<br>SOCKET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .59<br>.73<br>.89<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.27<br>.27<br>.33<br>.38<br>.45<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>1.42<br>S<br>\$<br>1.02-249<br>Each<br>\$0.58<br>.59<br>.77<br>.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .56<br>.70<br>.85<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.21<br>.26<br>.31<br>.35<br>.42<br>.77<br>.92<br>1.06<br>1.22<br>1.36<br>1.36<br>3<br>250-499<br>Each<br>\$0.54<br>.56<br>.74<br>.87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 400 Serie<br>1200 RMS<br>%4" thick.<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | s. Heavy duty<br>volts at 15 an<br>cCT rectangui<br>specify B-A S<br>No.<br>P402CCT<br>P406CCT<br>P408CCT<br>P408CCT<br>P408CCT<br>P408CCT<br>P408CCT<br>S402CCT<br>S402CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S404CCT<br>S | RIES 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LECTOR<br>high powe<br>bigh powe<br>s. Plug pror<br>with fibre<br>No. when<br>CLAMP<br>24176<br>50.99<br>Each<br>\$0.81<br>.03<br>1.07<br>1.18<br>1.36<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.28<br>1.45<br>1.82<br>GLE BRAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | S<br>(a)<br>(b)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c                                                          | 250-499<br>Each<br>\$0.62<br>.70<br>.81<br>.90<br>1.03<br>1.12<br>\$0.70<br>.83<br>.97<br>1.11<br>1.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>3<br>4<br>4<br>6<br>8<br>10<br>12<br>15<br>18<br>21<br>24<br>27<br>30<br>33<br>Polarized,<br>mike and<br>on to mation. P202<br>S202Cf St<br>10<br>P202Cf<br>()<br>S202Cf<br>3<br>S2022C<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S202Cf<br>()<br>S20<br>S20<br>S20<br>S20<br>S20<br>S20<br>S20<br>S20 | P316AB<br>P321AB<br>P321AB<br>P327AB<br>P327AB<br>P333AB<br>S302AB<br>S303AB<br>S303AB<br>S303AB<br>S303AB<br>S303AB<br>S303AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S324AB<br>S327AB<br>S324AB<br>S327AB<br>S333AB<br>S327AB<br>S333AB<br>S327AB<br>S333AB<br>S327AB<br>S333AB<br>S327AB<br>S333AB<br>S327AB<br>S333AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S3 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.50<br>SOCKETS -<br>\$0.32<br>.36<br>.40<br>.51<br>.61<br>.71<br>.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.40<br>2.40<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>titons, Knurled 1<br>positive lockin<br>S202CCT-THR 2<br>228.<br>I Jones No. whe<br>I Lug \$1<br>ocket 1<br>Type Plug 1<br>TERMINAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .88<br>1.10<br>1.34<br>1.57<br>2.02<br>- Stk. No. 12<br>\$0.26<br>.29<br>.29<br>.29<br>.40<br>.40<br>.57<br>.67<br>.67<br>.86<br>.98<br>1.22<br>1.44<br>1.67<br>1.22<br>2.14<br>IGS AND<br>ideal for<br>Nut screws<br>g connec-<br>nd \$2028.<br>n ordering.<br>.24<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.25.4<br>.2                       | 73<br>92<br>1.11<br>1.31<br>1.49<br>1.68<br>%0.22<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.27<br>.34<br>.48<br>.57<br>1.21<br>1.21<br>1.21<br>1.21<br>1.20<br>1.78<br>SOCKET<br>9<br>50-99<br>1.60<br>1.78<br>SOCKET<br>9<br>50-99<br>1.01<br>1.78<br>SOCKET<br>9<br>50-99<br>1.01<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>1.78<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET<br>SOCKET | .59<br>.73<br>.89<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.22<br>.27<br>.33<br>.38<br>.45<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>1.42<br>S<br>\$<br>2<br>2<br>2<br>2<br>7<br>.33<br>.38<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>1.28<br>.57<br>.66<br>.80<br>.96<br>.57<br>.66<br>.80<br>.96<br>.57<br>.77<br>.70<br>.77<br>.70<br>.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .56<br>.70<br>.85<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.22<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.37<br>1.22<br>1.31<br>1.28<br>1.28<br>1.21<br>1.28<br>1.21<br>1.28<br>1.21<br>1.28<br>1.21<br>1.28<br>1.21<br>1.28<br>1.21<br>1.28<br>1.21<br>1.28<br>1.21<br>1.28<br>1.21<br>1.28<br>1.21<br>1.28<br>1.21<br>1.21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 400 Serie<br>1200 RMS<br>½4" thick.<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Is. Heavy duty<br>volts at 15 at<br>CCT rectangui<br>Specify B-A S<br>No.<br>P402CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>P406CCT<br>S402CCT<br>S406CCT<br>S408CCT<br>S408CCT<br>S402CCT<br>S402CCT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RIES 40<br>polarized comps. Cadmiun<br>ar caps are of<br>CABLE TY<br>() PLUG -<br>1-24<br>Each<br>\$1.23<br>1.39<br>1.60<br>1.77<br>2.04<br>2.23<br>() SOCKET<br>\$1.38<br>1.65<br>2.46<br>2.74<br>IS TYPE N<br>() PLUG -<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.73<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75<br>\$0.75 | 0 CONN<br>3<br>nnectors for<br>plated bras<br>black wrinkle<br>Jones Type<br>PE WITH<br>- Stk. No. 11<br>25-49<br>E.<br>50.98<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.11<br>1.28<br>1.10<br>1.32<br>1.97<br>2.18<br>WITH ANC<br>- Stk. No. 12<br>\$<br>0.59<br>18<br>VITH ANC<br>- Stk. No. 12<br>\$<br>0.59<br>18<br>VITH ANC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | high powe<br>s. Plug pror<br>with fibre<br>with fibre<br>No. when<br>CLAMP<br>24176<br>50.99<br>Each<br>\$0.81<br>.93<br>1.07<br>1.18<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.28<br>1.46<br>1.65<br>1.82<br>30.49<br>.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | S<br>(a)<br>(b)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c                                                          | 250-499<br>Each<br>\$0.62<br>.70<br>.81<br>.90<br>1.03<br>1.12<br>\$0.70<br>.83<br>.97<br>1.11<br>1.25<br>1.39                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>3<br>4<br>6<br>8<br>10<br>12<br>15<br>18<br>21<br>24<br>27<br>30<br>33<br>Polarized,<br>mike and<br>on to ma<br>tion. P202<br>S202CCT<br>Specify St<br>Jones No<br>() P202CCT<br>() S202CC<br>() S2                                                                                                                                                                                                                                                                                                 | P316AB<br>P321AB<br>P321AB<br>P327AB<br>P327AB<br>P333AB<br>P333AB<br>S302AB<br>S303AB<br>S303AB<br>S303AB<br>S303AB<br>S303AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S333AB<br>S333AB<br>S333AB<br>S333AB<br>S312AB<br>S324AB<br>S327AB<br>S333AB<br>S321AB<br>S324AB<br>S333AB<br>S321AB<br>S324AB<br>S324AB<br>S333AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S3 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.50<br>SOCKETS -<br>\$0.32<br>.36<br>.40<br>.51<br>.61<br>.71<br>.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.09<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>trions, Knurled 1<br>positive lockin<br>S202CCT-THR a<br>128<br>100<br>2.68<br>ES 202 PLL<br>two-conductors,<br>trions, Knurled 1<br>positive lockin<br>S202CCT-THR a<br>128<br>151<br>152<br>100<br>2.68<br>ES 202 PLL<br>two-conductors,<br>trions, Knurled 1<br>positive lockin<br>S202CCT-THR a<br>128<br>151<br>150<br>151<br>151<br>1.80<br>2.09<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>trions, Knurled 1<br>positive lockin<br>S202CCT-THR a<br>128<br>151<br>151<br>151<br>151<br>151<br>151<br>151<br>15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .88<br>1.10<br>1.34<br>1.57<br>2.02<br>- Stk. No. 12<br>\$0.26<br>\$0.26<br>\$0.26<br>32<br>.40<br>.40<br>.57<br>.67<br>.67<br>.86<br>.98<br>1.22<br>1.44<br>1.67<br>1.92<br>2.14<br>IGS AND<br>ideal for<br>screws<br>g connec-<br>nd \$2028.<br>m ordering.<br>.24<br>.25<br>.40<br>.57<br>.67<br>.67<br>.67<br>.22<br>1.44<br>1.92<br>2.14<br>IGS AND<br>ideal for<br>screws<br>m ordering.<br>.24<br>.20<br>.39<br>.1.22<br>.1.44<br>1.92<br>2.14<br>ISS AND<br>.21<br>.22<br>.1.44<br>.57<br>.67<br>.22<br>.1.44<br>.57<br>.67<br>.24<br>.25<br>.1.22<br>.1.44<br>.57<br>.67<br>.24<br>.25<br>.1.22<br>.1.44<br>.57<br>.24<br>.1.44<br>.57<br>.67<br>.24<br>.1.92<br>.1.44<br>.57<br>.1.22<br>.1.44<br>.57<br>.24<br>.1.44<br>.57<br>.24<br>.1.44<br>.57<br>.24<br>.1.92<br>.1.44<br>.57<br>.24<br>.1.44<br>.1.92<br>.1.44<br>.1.92<br>.1.45<br>.20<br>.20<br>.1.22<br>.1.44<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.2<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.2<br>.2.16<br>.2.39<br>.1.15<br>.2.14<br>.2.57<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2. | 73<br>92<br>1.11<br>1.31<br>1.49<br>1.68<br>\$0.22<br>\$.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.34<br>.48<br>.57<br>1.21<br>1.21<br>1.21<br>1.21<br>1.60<br>1.78<br>SOCKET<br>\$\$0.99<br>h Each<br>6\$ .80<br>.73<br>8 .74<br>8 .74<br>\$\$0.22<br>.24<br>.24<br>.48<br>.57<br>1.21<br>1.21<br>1.21<br>1.60<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.50<br>\$\$0.50<br>\$\$0.50<br>\$\$0.50<br>\$\$0.50<br>\$\$0.50\$\$\$\$0.50\$\$\$0.50\$\$\$0.50\$\$\$\$0.50\$\$\$\$0.50\$\$\$\$0.50\$\$\$\$0.50\$\$\$\$\$0.50\$\$\$\$\$\$\$\$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .59<br>.73<br>.89<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.22<br>.27<br>.33<br>.38<br>.45<br>.57<br>.57<br>.66<br>.80<br>.98<br>1.11<br>1.28<br>1.42<br>S<br>2<br>100-249<br>Each<br>\$0.58<br>.59<br>.77<br>.70<br>.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | .56<br>.70<br>.85<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.35<br>.42<br>.31<br>.35<br>.42<br>.77<br>.92<br>1.06<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>250-499<br>Each<br>\$0.54<br>.56<br>.74<br>.56<br>.74<br>.57<br>.72<br>JGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 200 Serie<br>1200 RMS<br>%" thick.<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12                                                                                                                                                                                                                                                      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(3)<br>(3)<br>(4)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RIES 40<br>polarized comps. Cadmiun<br>ar caps are in<br>tock No. and<br>CABLE TY<br>() PLUG-<br>1.24<br>Each<br>\$1.23<br>1.39<br>1.60<br>1.77<br>\$1.38<br>1.65<br>1.27<br>\$1.38<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.04<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.08<br>2.03<br>3.03<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1.38<br>1. 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | high powe<br>high powe<br>s. Plug pror<br>with fibre<br>No. when<br>CLAMP<br>2A176<br>\$0.81<br>.93<br>1.07<br>1.18<br>1.28<br>1.48<br>124176<br>\$0.92<br>1.48<br>1.48<br>124176<br>\$0.92<br>1.48<br>1.46<br>1.65<br>1.82<br>GLE BRAC<br>2A177<br>\$0.49<br>.60<br>.71<br>.81<br>.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | S<br>(a)<br>(b)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c                                                          | 250-4999<br>Each<br>\$0.62<br>.70<br>.81<br>.90<br>1.03<br>1.12<br>\$0.70<br>.83<br>.97<br>1.11<br>1.25<br>1.39<br>\$0.37<br>.45<br>.54<br>.62<br>.70                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>33<br>4<br>6<br>8<br>10<br>12<br>15<br>18<br>21<br>24<br>27<br>30<br>33<br>Polarized,<br>mike and<br>on to ma<br>tion. P202<br>S202CCT<br>Specify St<br>Jones No<br>© P202CC<br>© S202CCT<br>Specify St<br>Solder co<br>with 1 t<br>mounted<br>vent remu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | P316A8<br>P324AB<br>P324AB<br>P327AB<br>P327AB<br>P333AB<br>S302AB<br>S303AB<br>S303AB<br>S303AB<br>S303AB<br>S303AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S324AB<br>S327AB<br>S333AB<br>S227AB<br>S333AB<br>S227AB<br>S333AB<br>S227AB<br>S333AB<br>S227AB<br>S333AB<br>S227AB<br>S333AB<br>S227AB<br>S333AB<br>S227AB<br>S333AB<br>S227AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S327AB<br>S227AB<br>S327AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S227AB<br>S2 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.50<br>SOCKETS -<br>\$0.32<br>.36<br>.40<br>.51<br>.61<br>.71<br>.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.09<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>trions, Knurled 1<br>positive lockin<br>S202CCT-THR a<br>228.<br>Ind Jones No. whe<br>Ind Jones No. whe<br>It ppe Socket<br>Type Plug<br>TERMINAL<br>minals. 136" d<br>0" 4" phenolic<br>C. Ends of scre<br>spaced on X"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | .88<br>1.10<br>1.34<br>1.57<br>2.02<br>- Stk. No. 12<br>9.26<br>.29<br>.32<br>.40<br>.48<br>.57<br>.67<br>.67<br>.86<br>.98<br>1.22<br>1.44<br>1.67<br>1.92<br>2.14<br><b>IGS AND</b><br>ideal for<br>1.92<br>2.14<br><b>IGS AND</b><br>ideal for<br>nut screws<br>g connec-<br>ind S2028.<br>nordering.<br>24 25-4<br>1.33<br>1.1<br><b>STRIPS</b><br>1.32<br>1.0<br>(s centers, A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 73<br>92<br>1.11<br>1.49<br>1.68<br>%0.22<br>.24<br>.24<br>.4180<br>%0.22<br>.24<br>.24<br>.48<br>.57<br>.71<br>.27<br>.34<br>.48<br>.57<br>.71<br>1.21<br>1.21<br>1.60<br>1.78<br>SOCKET<br>1<br>9<br>50-99<br>h Each<br>6<br>50-99<br>h Each<br>6<br>50-99<br>M Each<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>.73<br>8<br>50<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 59<br>73<br>.89<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.22<br>.27<br>.33<br>.38<br>.45<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>1.42<br>S<br>2<br>100-249<br>Each<br>\$0.58<br>.59<br>.77<br>.70<br>.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .56<br>.70<br>.85<br>.99<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.25<br>.42<br>.54<br>.82<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>3<br>2250.499<br>Each<br>\$0.54<br>.74<br>.56<br>.72<br>JGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 400 Serie<br>1200 RMS<br>%" thick.<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RIES 40<br>polarized comps. Cadmiun<br>ar caps are<br>1.24<br>Each<br>\$1.23<br>1.60<br>1.77<br>2.04<br>2.23<br>(*) SOCKET<br>\$1.88<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.62<br>2.18<br>2.18<br>2.18<br>2.18<br>2.18<br>2.18<br>2.18<br>1.92<br>2.18<br>2.74<br>IS TYPE N<br>*0.73<br>1.05<br>1.35<br>*0 SOCKET<br>\$0.73<br>1.35<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.55<br>*1.                                                                                                                                                                                                                                                                   | 0 CONN<br>3<br>nnectors for<br>plated bras<br>black wrinkle<br>Jones Type<br>PE WITH<br>- Stk. No. 11<br>25-49<br>EXC. 12<br>50.98<br>1.11<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.42<br>1.55<br>1.28<br>1.28<br>1.42<br>1.55<br>1.28<br>1.10<br>1.24<br>- Stk. No. 12<br>Stb. No. 12 | A CLAMP<br>24176<br>50.99<br>CLAMP<br>24176<br>50.99<br>Each<br>50.81<br>.93<br>1.07<br>1.18<br>1.48<br>124176<br>50.92<br>1.10<br>1.46<br>1.45<br>1.82<br>CLE BRAC<br>24177<br>50.49<br>.60<br>.71<br>.93<br>1.03<br>124177                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S<br>(a)<br>(b)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c                                                          | 250-499<br>Each<br>\$0.62<br>.70<br>.90<br>1.12<br>\$0.70<br>.83<br>1.12<br>\$0.70<br>.83<br>1.12<br>\$0.70<br>.83<br>1.12<br>\$0.70<br>.83<br>1.25<br>1.39<br>\$0.37<br>.45<br>.54<br>.62<br>.70<br>.78                                                                                                                                                                                                                                                                                                                                                                     |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>33<br>4<br>6<br>8<br>10<br>12<br>15<br>18<br>21<br>24<br>27<br>30<br>33<br>Polarized,<br>mike and<br>on to mation. P202<br>S202CCT<br>Specify St<br>Jones No<br>0<br>P2022CG<br>5202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT 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P316AB<br>P321AB<br>P324AB<br>P327AB<br>P327AB<br>P333AB<br>S302AB<br>S303AB<br>S303AB<br>S303AB<br>S303AB<br>S303AB<br>S310AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S3 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.50<br>SOCKETS -<br>\$0.32<br>.36<br>.40<br>.51<br>.71<br>.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>trions, Knurled -<br>positive lockin<br>S202CCT-THR a<br>128.<br>dones No. whe<br>lug \$<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .88<br>1.10<br>1.34<br>1.57<br>2.02<br>- Stk. No. 12<br>\$0.26<br>\$0.26<br>\$0.26<br>32<br>.40<br>.40<br>.57<br>.67<br>.67<br>.86<br>.98<br>1.22<br>1.44<br>1.67<br>1.92<br>2.14<br>IGS AND<br>ideal for<br>screws<br>g connec-<br>nd \$2028.<br>m ordering.<br>.24<br>.25<br>.40<br>.57<br>.67<br>.67<br>.67<br>.22<br>1.44<br>1.92<br>2.14<br>IGS AND<br>ideal for<br>screws<br>m ordering.<br>.24<br>.20<br>.39<br>.1.22<br>.1.44<br>1.92<br>2.14<br>ISS AND<br>.21<br>.22<br>.1.44<br>.57<br>.67<br>.22<br>.1.44<br>.57<br>.67<br>.24<br>.25<br>.1.22<br>.1.44<br>.57<br>.67<br>.24<br>.25<br>.1.22<br>.1.44<br>.57<br>.24<br>.1.44<br>.57<br>.67<br>.24<br>.1.92<br>.1.44<br>.57<br>.1.22<br>.1.44<br>.57<br>.24<br>.1.44<br>.57<br>.24<br>.1.44<br>.57<br>.24<br>.1.92<br>.1.44<br>.57<br>.24<br>.1.44<br>.1.92<br>.1.44<br>.1.92<br>.1.45<br>.20<br>.20<br>.1.22<br>.1.44<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.2<br>.2.14<br>.2.14<br>.2.14<br>.2.14<br>.2.2<br>.2.16<br>.2.39<br>.1.15<br>.2.14<br>.2.57<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2.45<br>.2. | 73<br>92<br>1.11<br>1.31<br>1.49<br>1.68<br>\$0.22<br>\$.24<br>.24<br>.24<br>.24<br>.24<br>.24<br>.34<br>.48<br>.57<br>1.21<br>1.21<br>1.21<br>1.21<br>1.60<br>1.78<br>SOCKET<br>\$\$0.99<br>h Each<br>6\$ .80<br>.73<br>8 .74<br>8 .74<br>\$\$0.22<br>.24<br>.24<br>.48<br>.57<br>1.21<br>1.21<br>1.21<br>1.60<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>1.78<br>\$\$0.50<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.59<br>\$\$0.50<br>\$\$0.50<br>\$\$0.50<br>\$\$0.50<br>\$\$0.50<br>\$\$0.50\$\$\$\$0.50\$\$\$0.50\$\$\$0.50\$\$\$\$0.50\$\$\$\$0.50\$\$\$\$0.50\$\$\$\$0.50\$\$\$\$\$0.50\$\$\$\$\$\$\$\$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .59<br>.73<br>.89<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.22<br>.27<br>.33<br>.38<br>.45<br>.57<br>.57<br>.66<br>.80<br>.98<br>1.11<br>1.28<br>1.42<br>S<br>2<br>100-249<br>Each<br>\$0.58<br>.59<br>.77<br>.70<br>.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | .56<br>.70<br>.85<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.35<br>.42<br>.31<br>.35<br>.42<br>.77<br>.92<br>1.06<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>250-499<br>Each<br>\$0.54<br>.56<br>.74<br>.56<br>.74<br>.57<br>.72<br>JGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 200 Serie<br>1200 RMS<br>%" thick.<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (3)     (3)     (3)     (3) 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  (3)     (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RIES 40<br>polarized comps. Cadmiun<br>ar caps are of<br>tock No. and<br>CABLE TY<br>() PLUG-<br>1-24<br>Each<br>\$1.23<br>1.39<br>1.39<br>1.65<br>1.77<br>2.04<br>2.23<br>() SOCKET<br>\$1.38<br>1.65<br>1.92<br>2.18<br>2.46<br>2.74<br>IS TYPE N<br>() PLUG-<br>\$0.73<br>.09<br>1.06<br>1.23<br>1.38<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>() SOCKET<br>\$0.86<br>() SOCKET<br>\$0.85<br>() SOCK                                                                                                                                                                                                                                                                    | 0 CONN<br>3<br>0 CONN<br>3<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IECTOR<br>high powe<br>s. Plug pror<br>with fibre<br>CLAMP<br>24176<br>50.99<br>Each<br>\$0.81<br>.93<br>1.07<br>1.18<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.48<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.48<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.48<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.48<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.48<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.65<br>1.82<br>31<br>1.03<br>1.43<br>1.43<br>1.45<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.77<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.49<br>\$0.57<br>.73<br>.91 | S<br>(a)<br>(b)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c                                                          | 250-499<br>Each<br>\$0.62<br>.70<br>.81<br>.90<br>1.12<br>\$0.70<br>.83<br>1.12<br>\$0.70<br>.83<br>1.12<br>\$0.70<br>.83<br>.97<br>1.11<br>1.25<br>1.39<br>\$0.37<br>.45<br>.54<br>.62<br>.70<br>.78<br>\$0.43<br>.56<br>.69                                                                                                                                                                                                                                                                                                                                                |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>33<br>2<br>2<br>33<br>33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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P316AB<br>P321AB<br>P321AB<br>P324AB<br>P327AB<br>P333AB<br>P333AB<br>S302AB<br>S303AB<br>S303AB<br>S303AB<br>S303AB<br>S303AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S312AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S333AB<br>S321AB<br>S324AB<br>S333AB<br>S321AB<br>S324AB<br>S333AB<br>S321AB<br>S324AB<br>S333AB<br>S321AB<br>S324AB<br>S333AB<br>S321AB<br>S324AB<br>S324AB<br>S333AB<br>S321AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S324AB<br>S3 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.50<br>SOCKETS -<br>\$0.32<br>.36<br>.40<br>.51<br>.61<br>.71<br>.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.09<br>2.40<br>2.40<br>2.40<br>2.68<br>ES 202 PLL<br>two-conductors,<br>trions, Knurled 1<br>positive lockin<br>S202CCT-THR 2<br>228.<br>I SOCKET<br>Type Plug 1<br>TERMINAL<br>minals, 1.36" d<br>Jocket 1<br>Type Plug 1<br>TERMINAL<br>minals, 1.36" d<br>Jocket 1<br>Type Plug 1<br>TERMINAL<br>minals, 1.36" d<br>Jocket 1<br>Type Plug 1<br>TERMINAL<br>minals, 1.36" d<br>Jocket 2<br>Cket 3<br>Cket 3                                                                                                                                                                            | .88<br>1.10<br>1.34<br>1.57<br>1.79<br>2.02<br>- Stk. No. 12<br>\$0.26<br>.32<br>.40<br>.40<br>.57<br>.67<br>.67<br>.67<br>.67<br>.67<br>.67<br>.67<br>1.92<br>2.14<br>UGS AND<br>ideal for<br>screws<br>mordering.<br>.24<br>2.14<br>UGS AND<br>ideal for<br>sut screws<br>.10<br>STRIPS N<br>a.mtg. hol<br>.39<br>1.1<br>STRIPS N<br>a.mtg. hol<br>.39<br>.1<br>.39<br>.1<br>.39<br>.1<br>.39<br>.1<br>.39<br>.1<br>.22<br>.44<br>.57<br>.67<br>.67<br>.67<br>.67<br>.67<br>.67<br>.67<br>.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 73<br>92<br>1.11<br>1.31<br>1.49<br>1.68<br>\$0.22<br>\$.24<br>.24<br>.24<br>.24<br>.34<br>.48<br>.57<br>.71<br>.82<br>1.21<br>1.21<br>1.39<br>1.60<br>1.78<br>SOCKET<br>\$0.99<br>b Each<br>50.99<br>b Each<br>50.99<br>b Each<br>50.99<br>b Each<br>50.99<br>b Each<br>50.99<br>b Each<br>50.99<br>b Each<br>50.99<br>Each<br>\$0.07<br>.08<br>.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .59<br>.73<br>.89<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.22<br>.27<br>.33<br>.38<br>.45<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>1.42<br>S<br>2<br>100-249<br>Each<br>\$0.59<br>.77<br>.70<br>.76<br>LDER LU<br>100-249<br>Each<br>\$0.063<br>.074<br>.084                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .56<br>.70<br>.85<br>.99<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.31<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.42<br>.35<br>.54<br>.35<br>.42<br>.35<br>.25<br>.42<br>.35<br>.25<br>.42<br>.35<br>.35<br>.42<br>.35<br>.35<br>.42<br>.35<br>.35<br>.42<br>.35<br>.35<br>.42<br>.35<br>.35<br>.42<br>.35<br>.35<br>.42<br>.35<br>.35<br>.22<br>.35<br>.35<br>.22<br>.35<br>.35<br>.22<br>.35<br>.35<br>.22<br>.35<br>.35<br>.22<br>.35<br>.35<br>.22<br>.35<br>.35<br>.35<br>.22<br>.35<br>.35<br>.35<br>.35<br>.35<br>.35<br>.35<br>.35<br>.35<br>.35 | 400 Serie<br>1200 RMS<br>%4" thick.<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>4<br>6<br>8<br>10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                     | RIES 40<br>polarized comps. Cadmiun<br>ar caps are 1<br>() PLUG -<br>1-24<br>Each<br>\$1.23<br>1.60<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65                                                                                                                                                                             | 0 CONN<br>3<br>mnectors for<br>1 plated bras<br>black wrinkbe<br>PE WITH<br>- Stk. No. 11<br>25-49<br>EXC NO. 11<br>25-49<br>EXC NO. 12<br>25-49<br>EXC NO. 12<br>25-9<br>EXC NO. 12<br>EXC NO. 12                                             | LECTOR<br>high powe<br>s. Plug pror<br>with fibre<br>two when<br>CLAMP<br>24176<br>50.99<br>Each<br>\$0.81<br>.93<br>1.07<br>1.18<br>1.36<br>1.48<br>124176<br>\$0.92<br>1.16<br>1.28<br>1.46<br>1.28<br>1.45<br>1.82<br>SLE BRAC<br>24177<br>\$0.49<br>.60<br>.71<br>.93<br>1.03<br>124177<br>\$0.57<br>.73                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S<br>(4)<br>(5)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4                                                          | 250-499<br>Each<br>\$0.62<br>.70<br>.81<br>.90<br>1.03<br>1.12<br>\$0.70<br>.83<br>.90<br>1.03<br>1.12<br>\$0.70<br>.83<br>.90<br>1.11<br>1.25<br>1.39<br>\$0.37<br>.45<br>.54<br>.54<br>.62<br>.70<br>.78<br>\$0.43<br>.56                                                                                                                                                                                                                                                                                                                                                  |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>3<br>4<br>6<br>8<br>10<br>12<br>15<br>18<br>21<br>24<br>27<br>30<br>33<br>Polarized,<br>mike and<br>tion. P202<br>S202CCT<br>Specify St<br>Jones No<br>0<br>P202CC<br>S202CCT<br>Source fy St<br>Jones No<br>0<br>P202CC<br>Scock<br>No.<br>12A1509<br>12A1510<br>12A1511<br>12A1512<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A1514<br>12A15                                                                                                                                                                                                                 | P316A8<br>P321A8<br>P321A8<br>P324A8<br>P327A8<br>P333A8<br>P333A8<br>S302A8<br>S302A8<br>S303A8<br>S303A8<br>S305A8<br>S305A8<br>S305A8<br>S310A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S324A8<br>S3 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.50<br>SOCKETS -<br>\$0.32<br>.36<br>.61<br>.71<br>.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.09<br>2.40<br>2.68<br>ES 202 PLU<br>two-conductors,<br>titions, Knurled -<br>positive lockir<br>positive lockir<br>1.22<br>1.50<br>2.40<br>2.68<br>ES 202 PLU<br>two-conductors,<br>titions, Knurled -<br>positive lockir<br>1.22<br>1.50<br>2.40<br>2.68<br>ES 202 PLU<br>thore, Socket -<br>Type Plug -<br>1<br>Type Plug -<br>1<br>tress Each<br>minals, 136" d<br>of ¼" phenolic<br>cket -<br>Type Plug -<br>1<br>tress Each<br>Mitg. 1-24<br>tress Each<br>1<br>34" .17<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.10<br>50.                                                                                                                    | .88<br>1.10<br>1.34<br>1.57<br>1.79<br>2.02<br>- Stk. No. 12<br>\$0.26<br>.29<br>.29<br>.29<br>.32<br>.40<br>.57<br>.67<br>.86<br>.98<br>1.22<br>1.44<br>1.67<br>1.92<br>2.14<br>IGS AND<br>ideal for<br>nordering.<br>.24<br>.25.4<br>1.32<br>1.44<br>1.67<br>1.92<br>2.14<br>IGS AND<br>ideal for<br>nordering.<br>.24<br>.25.4<br>.39<br>.11<br>.39<br>.11<br>.39<br>.11<br>.39<br>.11<br>.39<br>.12<br>.24<br>.39<br>.22<br>.14<br>IGS AND<br>.39<br>.11<br>.32<br>.10<br>.39<br>.11<br>.32<br>.24<br>.25.4<br>.39<br>.12<br>.24<br>.32<br>.40<br>.57<br>.67<br>.86<br>.98<br>.98<br>.32<br>.40<br>.44<br>.67<br>.57<br>.67<br>.85<br>.98<br>.44<br>1.67<br>1.92<br>2.14<br>IGS AND<br>.39<br>.11<br>.32<br>.10<br>.39<br>.11<br>.32<br>.10<br>.39<br>.11<br>.39<br>.11<br>.32<br>.00<br>.39<br>.11<br>.32<br>.00<br>.39<br>.11<br>.39<br>.11<br>.32<br>.00<br>.39<br>.11<br>.32<br>.10<br>.39<br>.11<br>.32<br>.10<br>.39<br>.11<br>.32<br>.10<br>.39<br>.11<br>.39<br>.11<br>.32<br>.10<br>.39<br>.11<br>.12<br>.10<br>.39<br>.11<br>.32<br>.10<br>.39<br>.11<br>.12<br>.10<br>.39<br>.11<br>.13<br>.10<br>.39<br>.11<br>.13<br>.10<br>.39<br>.11<br>.13<br>.10<br>.39<br>.11<br>.13<br>.10<br>.39<br>.11<br>.13<br>.10<br>.13<br>.10<br>.11<br>.13<br>.10<br>.11<br>.13<br>.10<br>.11<br>.13<br>.10<br>.11<br>.13<br>.10<br>.11<br>.13<br>.10<br>.11<br>.13<br>.10<br>.11<br>.13<br>.10<br>.11<br>.13<br>.10<br>.11<br>.11<br>.13<br>.10<br>.11<br>.11<br>.13<br>.10<br>.11<br>.11<br>.11<br>.11<br>.11<br>.11<br>.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .73<br>.92<br>1.11<br>1.31<br>1.49<br>1.68<br>%0.22<br>.24<br>.24<br>.24<br>.27<br>.34<br>.48<br>.57<br>.34<br>.48<br>.57<br>1.01<br>1.21<br>1.39<br>1.60<br>1.78<br>SOCKET<br>\$\$0.99<br>6 \$0.99<br>bh Each<br>6 \$0.73<br>8 .74<br>8 .96<br>6 \$0.73<br>8 .74<br>8 .96<br>6 \$0.73<br>8 .74<br>8 .96<br>50.99<br>Each<br>\$0.07<br>.08<br>.10<br>1.12<br>1.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 59<br>.73<br>.89<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.27<br>.33<br>.45<br>.57<br>.66<br>.96<br>1.11<br>1.28<br>1.42<br>S<br>.57<br>.60<br>.96<br>1.11<br>1.28<br>1.42<br>S<br>.59<br>.59<br>.59<br>.59<br>.59<br>.57<br>.60<br>.96<br>1.11<br>1.28<br>1.42<br>S<br>.59<br>.59<br>.59<br>.59<br>.59<br>.59<br>.59<br>.59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .56<br>.70<br>.85<br>.99<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.35<br>.42<br>1.06<br>1.22<br>1.36<br>77<br>.92<br>1.06<br>1.22<br>1.36<br>3<br>250-499<br>Each<br>.56<br>.74<br>.87<br>.74<br>.87<br>.72<br>JGS<br>250-499<br>Each<br>\$0.053<br>.0053<br>.0053<br>.105<br>.126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 400 Serie<br>1200 RMS<br>%" thick.<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RIES 40<br>polarized comps. Cadmiun<br>ar caps are 1<br>() PLUG -<br>1-24<br>Each<br>\$1.23<br>1.60<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65<br>1.65                                                                                                                                                                             | 0 CONN<br>annectors for<br>1 plated bras<br>black wrinkpe<br>PE WITH<br>- Stk. No. 11<br>25-49<br>EXC 12<br>50-98<br>1.11<br>1.28<br>1.41<br>1.32<br>1.75<br>1.32<br>1.75<br>2.18<br>WITH ANC<br>- Stk. No. 1<br>\$0.98<br>1.10<br>1.32<br>1.75<br>.10<br>1.32<br>1.75<br>.10<br>1.32<br>1.75<br>.218<br>WITH ANC<br>- Stk. No. 1<br>\$0.98<br>1.10<br>1.32<br>1.75<br>.218<br>WITH ANC<br>- Stk. No. 1<br>\$0.98<br>1.12<br>1.32<br>1.75<br>.218<br>WITH ANC<br>- Stk. No. 1<br>\$0.98<br>1.12<br>1.32<br>1.75<br>.218<br>WITH ANC<br>- Stk. No. 1<br>\$0.98<br>1.28<br>1.10<br>1.24<br>- Stk. No. 1<br>\$0.98<br>1.10<br>1.32<br>.28<br>.85<br>.85<br>.85<br>.85<br>.85<br>.88<br>1.08<br>1.28<br>1.47<br>1.67<br>DF ELE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LECTOR<br>high powe<br>s. Plug pror<br>with fibre<br>two when<br>CLAMP<br>24176<br>50.99<br>Each<br>\$0.81<br>.93<br>1.07<br>1.18<br>1.48<br>124176<br>\$0.92<br>1.10<br>1.36<br>1.48<br>124177<br>\$0.92<br>1.46<br>1.45<br>1.82<br>SLE BRAC<br>24177<br>\$0.49<br>.60<br>.71<br>.93<br>1.03<br>124177<br>\$0.57<br>.73<br>.91<br>1.23<br>1.39<br>CTRON                                                                                                                                                                                                                                                                                                                                                                                                                                  | S<br>(a)<br>(b)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c                                                          | 250-499<br>Each<br>\$0.62<br>.70<br>.81<br>.90<br>1.03<br>1.12<br>\$0.70<br>.83<br>.90<br>1.03<br>1.12<br>\$0.70<br>.83<br>.90<br>1.03<br>1.12<br>\$0.70<br>.83<br>.97<br>1.11<br>1.25<br>1.39<br>\$0.37<br>.45<br>.54<br>.62<br>.70<br>.54<br>.54<br>.62<br>.70<br>.53<br>1.06<br>\$0.43<br>.56<br>.69<br>.53<br>1.06<br>\$0.43<br>.56<br>.69<br>.53<br>1.06<br>\$0.43<br>.56<br>.69<br>.53<br>1.06<br>\$0.43<br>.56<br>.69<br>.53<br>1.06<br>\$0.43<br>.56<br>.69<br>.53<br>.56<br>.55<br>.54<br>.56<br>.55<br>.54<br>.55<br>.55<br>.55<br>.55<br>.55<br>.55<br>.55<br>.55 |
| 18<br>21<br>24<br>27<br>30<br>33<br>2<br>33<br>4<br>6<br>8<br>10<br>12<br>15<br>18<br>21<br>24<br>27<br>30<br>33<br>Polarized,<br>mike and<br>on to ma<br>tion. P202<br>S202CCT<br>Specify St<br>Jones No<br>•<br>P2022CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CCT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT<br>S202CT                                                                                                                                                                                                        | P316A8<br>P324A8<br>P327A8<br>P327A8<br>P327A8<br>P333A8<br>P333A8<br>S302A8<br>S302A8<br>S303A8<br>S303A8<br>S304A8<br>S305A8<br>S305A8<br>S310A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S312A8<br>S324A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S327A8<br>S3 | 1.10<br>1.38<br>1.67<br>1.96<br>2.25<br>2.52<br>3.50<br>SOCKETS -<br>\$0.32<br>.36<br>.40<br>.51<br>.61<br>.71<br>.85<br>1.07<br>1.23<br>1.51<br>1.80<br>2.09<br>2.40<br>2.68<br>ES 202 PLU<br>two-conductors,<br>trions, Knurled -<br>positive lockir<br>1.223<br>1.51<br>1.80<br>2.09<br>2.40<br>2.68<br>ES 202 PLU<br>two-conductors,<br>trions, Knurled -<br>positive lockir<br>1.5202CCT-THR a<br>228.<br>Id Jones No. whe<br>1<br>EEMINAL<br>minals, 1.36" d<br>of ¼", phenolic,<br>Escket -<br>type Plug -<br>TERMINAL<br>minals, 1.36" d<br>of ¼", 1.134"<br>1.24<br>1.24<br>1.24<br>1.25<br>1.26<br>1.26<br>1.27<br>1.27<br>1.28<br>1.30<br>1.28<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.25<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.25<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24<br>1.24                                        | .88<br>1.10<br>1.34<br>1.57<br>1.79<br>2.02<br>- Stk. No. 12<br>9.26<br>.29<br>.32<br>.40<br>.40<br>.57<br>.67<br>.67<br>.86<br>.98<br>1.22<br>1.44<br>1.67<br>1.92<br>2.14<br>IGS AND<br>ideal for<br>nut screws<br>ideal for<br>nut screws<br>1.32<br>1.1<br>STRIPS Na<br>.33<br>1.1<br>STRIPS Na<br>.35<br>.46<br>.10<br>.12<br>.25<br>.49<br>.24<br>.25<br>.24<br>.20<br>.32<br>.40<br>.48<br>.57<br>.86<br>.99<br>1.22<br>.14<br>IGS AND<br>.22<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.24<br>.25<br>.25<br>.25<br>.25<br>.20<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25<br>.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 73<br>92<br>1.11<br>1.31<br>1.49<br>1.68<br>%0.22<br>.24<br>.24<br>.24<br>.24<br>.24<br>.27<br>.34<br>.48<br>.57<br>.71<br>.82<br>1.01<br>1.21<br>1.60<br>1.78<br>SOCKET<br>1<br>9<br>50-99<br>h Each<br>6<br>50-99<br>h Each<br>6<br>50-99<br>MITH SO<br>es. Strips<br>ed to pre-<br>terminals<br>ed to pre-<br>terminals<br>ed to pre-<br>ty. Shog.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 59<br>.59<br>.89<br>1.04<br>1.20<br>1.34<br>\$0.18<br>.20<br>.22<br>.27<br>.38<br>.45<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>1.42<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>1.42<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>1.42<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>.57<br>.66<br>.80<br>.96<br>1.11<br>1.28<br>.57<br>.66<br>.80<br>.96<br>.111<br>1.28<br>.57<br>.66<br>.80<br>.96<br>.111<br>1.28<br>.57<br>.66<br>.80<br>.96<br>.111<br>1.28<br>.57<br>.66<br>.80<br>.96<br>.111<br>1.28<br>.57<br>.66<br>.80<br>.96<br>.57<br>.66<br>.80<br>.96<br>.111<br>1.28<br>.57<br>.66<br>.80<br>.96<br>.111<br>1.28<br>.57<br>.66<br>.80<br>.96<br>.57<br>.66<br>.80<br>.96<br>.57<br>.66<br>.80<br>.96<br>.57<br>.66<br>.80<br>.96<br>.57<br>.66<br>.80<br>.96<br>.57<br>.66<br>.80<br>.96<br>.57<br>.70<br>.70<br>.70<br>.70<br>.70<br>.70<br>.70<br>.7 | .56<br>.70<br>.85<br>.99<br>.99<br>1.13<br>1.28<br>\$0.17<br>.19<br>.21<br>.26<br>.31<br>.26<br>.35<br>.42<br>.54<br>.82<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>1.22<br>1.36<br>250.499<br>Each<br>\$0.54<br>.74<br>.87<br>.72<br>JGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 400 Serie<br>1200 RMS<br>%(" thick.<br>wt. 6 ozs<br>Cont.<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>2<br>4<br>6<br>8<br>10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (3)     (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RIES 40<br>polarized comps. Cadmiun<br>ar caps are of<br>CABLE TY<br>() PLUG-<br>1-24<br>Each<br>\$1.23<br>1.39<br>1.60<br>1.77<br>2.04<br>2.23<br>() SOCKET<br>\$1.38<br>1.65<br>2.46<br>2.46<br>2.46<br>2.46<br>2.46<br>2.46<br>2.46<br>2.46<br>2.46<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>1.60<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>1.60<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>1.60<br>1.35<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>1.60<br>1.35<br>1.65<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>1.60<br>1.13<br>1.35<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>1.60<br>1.15<br>1.60<br>1.35<br>1.60<br>1.38<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>1.60<br>1.13<br>1.38<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>1.60<br>1.13<br>1.35<br>1.65<br>1.10<br>1.35<br>1.60<br>1.13<br>1.38<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>1.60<br>1.10<br>1.35<br>1.60<br>1.10<br>1.35<br>1.60<br>1.10<br>1.35<br>1.60<br>1.13<br>1.38<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>1.60<br>1.13<br>1.38<br>1.55<br>() SOCKET<br>\$0.86<br>1.10<br>1.35<br>1.60<br>1.10<br>1.35<br>1.60<br>1.10<br>1.35<br>1.60<br>1.64<br>2.09<br>STOCK ()                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0 CONN<br>annectors for<br>plated bras<br>black wrinkle<br>lones Type<br>PE WITH<br>- Stk. No. 11<br>25:49<br>Each<br>\$0,98<br>1.11<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.41<br>1.28<br>1.55<br>2.18<br>WITH ANC<br>- Stk. No. 11<br>\$0.59<br>.72<br>.85<br>.85<br>.85<br>.85<br>.85<br>.88<br>1.28<br>1.24<br>- Stk. No. 12<br>.05<br>.85<br>.85<br>.85<br>.85<br>.85<br>.85<br>.85<br>.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | IECTOR<br>high powe<br>bis. Plug pror<br>with fibre<br>No. where<br>No. where<br>No. where<br>So.99<br>Each<br>\$0.93<br>1.07<br>1.18<br>1.48<br>1.48<br>1.48<br>1.48<br>1.45<br>1.82<br>SLE BRAC<br>24177<br>\$0.57<br>.93<br>1.03<br>124177<br>\$0.57<br>.91<br>1.06<br>1.23<br>1.39<br>CTRON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S<br>(a)<br>(b)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c)<br>(c                                                          | 250-499<br>Each<br>\$0.62<br>.70<br>.90<br>1.12<br>\$0.70<br>.83<br>.90<br>1.12<br>\$0.70<br>.83<br>.97<br>1.11<br>1.25<br>1.39<br>\$0.37<br>.45<br>.54<br>.62<br>.70<br>.78<br>\$0.43<br>.56<br>.69<br>.93<br>1.06                                                                                                                                                                                                                                                                                                                                                          |

# **Mueller CLIPS, SOLDERLESS TERMINALS**

### MUELLER CLIPS AND INSULATORS SCREW OR LUG CONNECTIONS—NO SOLDER NEEDED. TYPES MARKED WITH ASTERISKS (\*) ARE COPPER. OTHERS ARE OF STEEL (Codmium-Ploted). "S" AFTER TYPE NUMBER INDICATES SCREW CONNECTORS. **†SOLDER TYPE. Standard Packages of 10 and 100 Clips.** Shpg. wt. 2 oz. 3 1 (2) ① 34 SERIES MICRO-GATOR CLIPS Has microscopic tip, no larger than a pin head. Makes firm connection on pr circuits, transistors and other tiny terminals. use No. 36 Insulators listed b Stock Prices Each 10-99 100-499 Туре Lgth. Open 1-9 5 No. 12A1069 12A1070 .06 .041 +34 \*+34C 1×2" 1×2" 1/2" 1/2" .036 .046 "MINI-GATOR" CLIP For testing miniature and sub-miniature equipment. 12B1035 12B1036 1½6″ 1½6″ +30 \*+30C ₹6″ \*6″ \$0.07 \$0.05 \$0.043 \$ .09 .061 .053 ③ ALLIGATOR CLIPS (Fit Banana Plugs) 12B1026 **†60** 2" 2" 2" X6" X6" X6" .08 .054 .047 12A1006 60S \*60CS .09 .054 1241007 14 .096 082 ● INSULATED ALLIGATOR CLIPS Red or Black shank. Fits banana plugs. 211/32" 211/32" .089 12A1008 60HS .076 ×6" .13 12A1009 \*60CHS .118 () ALL-INSULATED ALLIGATOR CLIPS Protects against shocks and shorts in compact equipment. Red or black 2" .19 .11 .13 12A1638 63 \*63C 1/4 " .13 1/4" 12A1639 .15 .22 7 (9) (6) "70" SERIES ALLIGATOR CLIPS Utilizes cord strain relief ears to prevent breakage of lead wire. Stock No. Prices Each 199 100-499 Lgth. Open 1-9 10-99 Type 5 †70 70**S** \*70CS 12A923 12A924 X." X." \$0.045 1%" 1%" 1%" \$0.07 \$0.038 .08 .046 11/1 12A925 .085 .073 1 CROCOOILE CLIP 21/8" 21/8" 25/8" \*Copper. ד \*" .076 12A1010 12B1041 85 \*850 .11 .065 148 127 12A1011 ‡85T .27 .16 .187 **27** ,27 ,27 Phone Tip on One Jaw **(8) GENERAL PURPOSE TEST CLIPS** Needle type makes a quick temporary contact through insulation. Type 50-C 51-C No. Lgth. Oescription 1.9 10.99 100-499 5 1281022 \$0.32 21/4" 21/4" Needle Type Less Needle \$0.22 .153 \$0.188 \$ 12B1023 .131 • BATTERY CLIPS WITH GRIP TEETH-LEAD PLATEO Lgth. 27⁄8″ No. Type Amps. Open 1.9 10.99 100-499 . 12A671 25 3⁄4″ 1⁄⁄16″ \$0.26 \$0,177 \$0,152 24A 5 124672 21A 50 4" .46 .32 .276 **③ TEST CLIPS WITH MESH TEETH** .052 12A1000 45 11/2" 11/2" 2" .061 ×14" 1/2" 1/2" 5/8" 5/8" 3/4" .09 .15 12A1001 \*450 107 .092 12A1002 12A1079 1488 1486 .09 .078 2" 2%6" 2%6" 3" .20 127 127C 127C 12A1003 20 107 092 40 75 .27 .49 1241004 187 16 34 .29 12A1078 1 1 Meshing Teeth on All 3 Sides of Jaws. \*Solid Copper **M FLEXIBLE VINYL INSULATORS ONLY** Red or black, specify colors wanted. Stk. No. Туре For Clip 1-9 10-99 100-499 . For Clip 21A \$ 24A \$ 27, 27C 30, 30C 34, 34C 45, 45C 45, 45C 45, 45C 51C 605, 60C, 51C 605, 60, 705, 70CS, 70 70, 70-S, 70-CS 85, 85T, 85C \$ \$0.41 .23 .17 124674 23 26 29 32 36 47 \$0.287 \$0,246 \$ 12A673 12A1016 .16 .138 1281037 .05 .033 .029 .05 .05 .07 .10 .033 .029 1241071 12A1014 12A1015 12B1064 49 .069 .059 62 06 .04 033 .06 .04 1241074 .033 12A1017 87 .042 **GRAYHILL INSULATED TEST CLIP**



Completely insulated (including hinge pin), may be p side-by-side without shorting. Terminal and tip of plated brass, No. 12C517. Red or Black Your



134





### SOLDERLESS CRIMP-ON TERMINALS

Choice of Flared vinyl insulated for easy wire insertion and to accommodate wire insulation or non-insulated type. Electrolytically pure copper. Multiple barrel serrations guarantee full contact with wire. Electro-annealed for extra life. Average wt. 8 ounces per 100.

|                                                           | 8 ounce                                                                                | s per 100.                                                      | æ                                                                                                 | RING                                         | TONGUE                                               | TERMIN                                                      | ALS                                                                       |                                                      |                                                      |                                                             |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|
|                                                           | Wire<br>Size                                                                           | Stud<br>Size                                                    | Non-<br>insulated<br>Stock No.                                                                    | 20<br>For                                    | 100<br>For                                           | 1000<br>For                                                 | Insulated<br>Stock No.                                                    | 20<br>For                                            | 100<br>For                                           | 1000<br>For                                                 |
| nted<br>low.                                              | 22-18<br>22-18<br>22-18<br>22-18<br>22-18<br>22-18                                     | 4<br>6<br>8<br>10<br>1/4                                        | 12A2312<br>12A1804<br>12A2313<br>12A1805<br>12A1805                                               | \$.50<br>.50<br>.50<br>.50<br>.72            | \$2.16<br>2.16<br>2.16<br>2.16<br>2.96               | \$15.55<br>15.55<br>15.55<br>15.55<br>21.30                 | 12A2316<br>12A1811<br>12A2317<br>12A1812<br>12A1813                       | \$1.08<br>1.08<br>1.08<br>1.08<br>1.40               | \$4.47<br>4.47<br>4.47<br>4.47<br>5.79               | \$33.05<br>33.05<br>33.05<br>33.05<br>42.80                 |
| ) up<br>034<br>043                                        | 22-18<br>16-14<br>16-14<br>16-14<br>12-10<br>12-10                                     | 3/8<br>6<br>8<br>10<br>8<br>10                                  | 12A1807<br>12A1808<br>12A2314<br>12A2314<br>12A1809<br>12A2315<br>12A1810                         | .72<br>.54<br>.54<br>.54<br>.75<br>.75       | 2.96<br>2.26<br>2.26<br>2.26<br>3.14<br>3.14         | 21.30<br>16.25<br>16.25<br>16.25<br>22.55<br>22.55          | 12A1814<br>12A1815<br>12A2318<br>12A1816<br>12A2319<br>12A1817            | 1.40<br>1.08<br>1.08<br>1.08<br>1.40<br>1.40         | 5.79<br>4.47<br>4.47<br>4.47<br>5.79<br>5.79         | 42.80<br>33.05<br>33.05<br>33.05<br>42.80<br>42.80          |
| 041  <br>05                                               | 12-10                                                                                  | 10                                                              |                                                                                                   |                                              |                                                      | TERMIN                                                      |                                                                           | 1.40                                                 | 0.70                                                 | 42.00                                                       |
| 044<br>051<br>078                                         | 22-18<br>22-18<br>22-18<br>16-14<br>16-14<br>16-14<br>16-14<br>12-10                   | 4-6<br>8<br>10<br>4-6<br>8<br>10<br>8                           | 12A1818<br>12A2320<br>12A1819<br>12A1820<br>12A2321<br>18A1821<br>12A2322                         | .50<br>.50<br>.53<br>.53<br>.53<br>.75       | 2.16<br>2.16<br>2.26<br>2.26<br>2.26<br>2.26<br>3.14 | 15.55<br>15.55<br>15.55<br>16.25<br>15.55<br>16.25<br>22.55 | 12A1823<br>12A2323<br>12A1824<br>12A1825<br>12A2324<br>12A1826<br>12A2325 | 1.08<br>1.08<br>1.08<br>1.08<br>1.08<br>1.08<br>1.08 | 4.47<br>4.47<br>4.47<br>4.47<br>4.47<br>4.47<br>5.79 | 33.05<br>33.05<br>33.05<br>33.05<br>33.05<br>33.05<br>42.80 |
| 072                                                       | 12-10                                                                                  | 10                                                              | 12A1822                                                                                           | .75                                          | 3.14                                                 | 22.55                                                       | 12A1827                                                                   | 1.40                                                 | 5.79                                                 | 42.80                                                       |
| 0.20                                                      | 22-18                                                                                  | 4-6                                                             | 3 F                                                                                               | LANGE                                        | 0 SPA0<br>2.16                                       | E TERMII<br>15,55                                           | IALS                                                                      | 1.08                                                 | 4.47                                                 | 33.05                                                       |
| 105<br>124                                                | 22-18<br>22-18<br>16-14<br>16-14<br>16-14                                              | 8<br>10<br>6<br>8<br>10                                         | 12A2326<br>12A1829<br>12A1830<br>12A2327<br>12A1831                                               | .50<br>.50<br>.54<br>.54<br>.54              | 2.16<br>2.16<br>2.26<br>2.26<br>2.26<br>2.26         | 15.55<br>15.55<br>16.25<br>16.25<br>16.25                   | 12A2328<br>12A1833<br>12A1834<br>12A2329<br>12A1835                       | 1.08<br>1.08<br>1.08<br>1.08<br>1.08                 | 4.47<br>4.47<br>4.47<br>4.47<br>4.47                 | 33.05<br>33.05<br>33.05<br>33.05<br>33.05<br>33.05          |
|                                                           | 10.14                                                                                  | 10                                                              | TENTOST                                                                                           |                                              |                                                      | NECTORS                                                     | 1241000                                                                   | 1.00                                                 |                                                      | 33.03                                                       |
|                                                           | 22-18<br>16-14<br>12-10                                                                |                                                                 | 12A1836<br>12A1837<br>12A1838                                                                     | .56<br>.56<br>1.01                           | 2.38<br>2.38<br>4.22                                 | 17.10<br>17.10<br>30.40                                     | 12A1839<br>12A1840<br>12A1841                                             | 1.28<br>1.28<br>1.72                                 | 5.28<br>5.28<br>7.21                                 | 39.05<br>39.05<br>53.35                                     |
|                                                           | 18-14                                                                                  | .187                                                            | MALE QU<br>12A1842                                                                                | .58                                          | 2.48                                                 | 17.85                                                       | USM-UN 111                                                                | 'E<br>1,15                                           | 4.80                                                 | 35,50                                                       |
|                                                           | 18-14                                                                                  | .250                                                            | 1241843                                                                                           | .58                                          | 2.48                                                 | 17.85                                                       | 12A1845                                                                   | 1.15                                                 | 4.80                                                 | 35.50                                                       |
|                                                           | 18-14<br>18-14                                                                         | .187<br>.250                                                    | FEMALE Q<br>12A1846<br>12A1847                                                                    | .63<br>.63                                   | 2.64<br>2.64<br>2.64                                 | 21.65<br>21.65                                              | PUSH-ON T<br>12A1848<br>12A1849                                           | /PE<br>1.15<br>1.15                                  | 4.79<br>4.79                                         | 35.50<br>35.50                                              |
|                                                           |                                                                                        |                                                                 | D NYLON IN                                                                                        |                                              |                                                      |                                                             |                                                                           |                                                      |                                                      |                                                             |
| up<br>036<br>044                                          | 20-14<br>16-10                                                                         |                                                                 |                                                                                                   |                                              |                                                      |                                                             | 12A1850<br>12A1851                                                        | .89<br>1.28                                          | 3.70<br>5.41                                         | 26.60<br>38.95                                              |
| 069                                                       |                                                                                        | TAP-                                                            | OFF TE                                                                                            | RM                                           | INAL                                                 |                                                             |                                                                           |                                                      |                                                      | K                                                           |
| 062<br>121<br>152                                         | for solic<br>tool, Pl<br>Simplest                                                      | l electrical<br>ug in term<br>way to co<br>where to r           | sulation of<br>contact. In<br>inal supplie<br>onnect trail<br>nake a con                          | stalls<br>d to f<br>er ligh                  | with pli<br>it top-c<br>its to y                     | ers or cri<br>off termin<br>our auto                        | imp<br>nal.<br>, or                                                       |                                                      |                                                      |                                                             |
| ) up                                                      | Comple<br>No. 12/<br>100 Set                                                           | tely insulat<br>A1852.6 Se<br>Is For                            | ed. Shpg. v<br>ets For                                                                            |                                              |                                                      |                                                             | 9.90                                                                      | •                                                    | ¥.                                                   | •                                                           |
| 179<br>124                                                |                                                                                        |                                                                 | n a                                                                                               | BINE<br>Fil                                  | DING                                                 | POS'                                                        | TS<br>F                                                                   |                                                      | ſ                                                    |                                                             |
| ) up<br>145<br>26                                         |                                                                                        | 1                                                               | 2                                                                                                 |                                              |                                                      |                                                             | •                                                                         | <b>F</b> I                                           |                                                      |                                                             |
| 05<br>087<br>074<br>113<br>087<br>152                     | Red or                                                                                 | Black.<br>A619 Fac                                              | h266. 1/2<br>h24c<br>No. 386. 5<br>punts in 1/4<br>hoice                                          | 100<br>For                                   | \$20                                                 | 40 10                                                       | 0, Per<br>0 \$18 (                                                        | 10                                                   | 000, Pe                                              | 97<br>\$16.00                                               |
| 276                                                       | 12B743                                                                                 | 3-Red Ea                                                        | hoice<br>ach2<br>HV, Bake<br>fully enclo<br>lack. Each.                                           | 5c Fo                                        | or\$                                                 | 521.25 1                                                    | 00\$18                                                                    | .75 10                                               | 00                                                   | \$16.67                                                     |
| up<br>234<br>131<br>098<br>027<br>027<br>027<br>04<br>056 | <ul> <li>3 5-W</li> <li>Mounts</li> <li>No. 12</li> <li>Each</li> <li>S Eby</li> </ul> | Ay Combisin two 1<br>B744.<br>Binding                           | lack. Each.<br>nation Pos<br>/2" holes,<br>100<br>c For<br>Post. Ensig<br>n. 1%6" H.              | t. Sm<br>3/4″ c<br>\$6<br>2n No              | ith No<br>enters.<br>3.75                            | 5. 269<br>15 amp<br>500, Per<br>100<br>Non-rer              | Dual, Mol<br>, rating,<br><b>\$56.25</b><br>novable to                    | ded bl<br>1000,<br>100                               | ack si<br>, Per<br>// dia.                           | tyrene.<br>\$50.63<br>head                                  |
| 031<br>031<br>04                                          | No. 1.<br>Each                                                                         | 2A1030.                                                         | 66c F                                                                                             |                                              |                                                      | \$56.                                                       |                                                                           |                                                      |                                                      |                                                             |
| ed<br>/er                                                 | (6) Sup<br>jack in<br>wire to<br>connect<br>parts (1)                                  | erior DF30<br>top; (2)<br>o 12 gaug<br>tion, plus<br>GOLD-plate | 5-Way B<br>clip lead<br>ge clamped<br>new solder<br>d. Rating<br>threaded<br>threaded<br>threaded | inding<br>to sha<br>t thro<br>tip o<br>30 am | Posts.<br>aft; (3<br>augh co<br>n botto<br>aps 100   | Five w<br>) wire a<br>enter ho<br>om—nylo<br>0 volts.       | ays to co<br>around sha<br>ble; (5)<br>ph plastic<br>Mounts in            | nnect:<br>ft_and<br>clampe<br>insulat<br>panel       | (1) t<br>I clamp<br>d space<br>ion, al               | banana<br>b; (4)<br>de lug<br>l brass<br>to 1/4"            |
| 0                                                         | thick,<br>dia, Sp                                                                      | Has 10-32<br>ecify color                                        | threaded<br>Red, Blac                                                                             | stem<br>k, Gro                               | with 2<br>een, Ye                                    | hex nullow, W                                               | its. Overal<br>hite, or Bl                                                | l lengt<br>ue.                                       | h í¹¾í                                               | ", 5/8"                                                     |

**STA-KON TERMINALS & TY-RAPS** 

17.30

G

### THOMAS SNAP ON TERMINALS BETTS

| 1                  | 2 3               |             |              | 5               | [       | 6                       | 7      |
|--------------------|-------------------|-------------|--------------|-----------------|---------|-------------------------|--------|
| Stock<br>Fig. No.  | T & B Numbers     | Tab<br>Size | Wire<br>Size | Insu-<br>lation | 100-999 | Prices Per<br>1000-4999 |        |
| ① 12A2120          | RB14-250F(RB250)  | .25x.032    | 16-14        | Nylon           | \$8.50  | \$5.76                  | \$4.42 |
| © 12A2121          | 81RA-250F(RA257)  | 25X.032     | 22.18        | Vinyl           | 7.25    | 4.99                    | 3.83   |
| D 12A2122          |                   |             | 16-14        | Vinyl           | 7.25    | 4.99                    | 3.83   |
| 0 12A2123          | 10RC-250F(RC257)  | .25X.032    | 12.10        | Vinyl           | 9.00    | 6.36                    | 4.88   |
| 3 12A2124          | A18-250(A250)     | .25X.032    | 22-18        | None            | 4.63    | 4.05                    | 3.11   |
| 3 12A212           | B14-250(B250)     | .25X.032    | 16-14        | None            | 4.63    | 4.05                    | 3.11   |
| 3 12A2126          | C10-250F(C250)    | .25X.032    | 12-10        | None            | 8.38    | 8,11                    | 6.22   |
| (4) 12A2123        | 7 B14-250A(B252G) | .25X.032    | 20-14        | None            | 5.38    | 4.13                    | 3.17   |
| S 12A2128          | A18-205(A205)     | .205X.02    | 22-18        | None            | 6.63    | 5.41                    | 4.15   |
| <b>(6)</b> 12A2129 | B14-205(B205)     | .205X.02    | 16-14        | None            | 6.63    | 5.41                    | 4.15   |
| (5) 12A2130        | A18-187(A187)     | .187X.032   | 22-18        | None            | 6.63    | 5.41                    | 4.15   |
| (5) 12A2131        | B14-187(B187)     | .187X.032   | 16-14        | None            | 6.63    | 5.41                    | 4.15   |
| @ 12A2132          |                   | .110X.032   | 22-18        | None            | 7.25    | 5.80                    | 4.45   |
| (i) 12A213:        | B14-110F(810)     | ,110X.032   | 16-14        | None            | 7.25    | 5.80                    | 4.45   |
| 12A213             |                   | .25X.032    | 16-14        | Vinyl           | 7.50    | 6.00                    | ****** |





STA-KON KIT Contains 100 each A18-10, B14-10, 50 type C10-10 ring terminals and one WT111M installing tool. A practical universal combination. Wt. 3 lb. **T&B** #20. 37A3209. Each

N KIT 18-10, B14-10, 50 perminals and one 1. A practical uni-1. A p

STA-KON CRIMP TOOL

THOMAS & BETTS TY-RAPS



TY-RAP SELF-LOCKING Max. Prices Per 100 Stock 100-999 1000-4999 5000 Up \$3.88 \$2.45 \$2.32 Fig. No. 12A2135 12A2136 **T & B** Numbers Dia. TY523M(TY23M) TY525M(TY25M) \$2.32 3.15 5⁄8″ 1 3/4" 5.38 3.50 🗵 12A2137 TY535M(TY35M) 13/4" 6.13 4.00 3.60 TY-RAP TWIST TYPE TY503(TY3) 3,13 1.70 1.65 ③ 12A2138
③ 12A2139
④ 12A2139 12A2138 5⁄8″ 13⁄4″ TY505(TY5) 4.50 2.80 2.66 TY515(TY15) 13/4" 5.13 3.10 2.95

25.13 17.90 WALDOM CRIMP TOOL &

### TERMINAL KITS

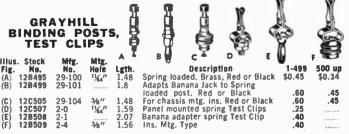
Non-Insulated Terminal Kit contains 214 assorted reminals—flanged spade, ring tongue, hook ton-gue, quick disconnects, spade tongue, but con-nectors. With crimp tool in compartmented plastic box, Wt. 3 lbs. 

**DOES 5 JOBS!** CRIMPS TERMINALS! SHEARS BOLTS! STRIPS, CUTS AND GAUGES WIRE!

AMP HAND TOOL

The ideal tool for TV, Radia and electrical work. Crimps terminals to wire ends for clean and true connections—no solder needed. Shears screws, bolts sizes 10-24, 10-32, 8-32, 6-32, 4-40 to desired length without thread damage. Strips and cuts wire sizes 22 to 10 fast, clean. Stripper notches also serve as Wire gauge. Wt. 1 lb.

37A3028. Type 49835-1. For Non-insulated Terminals. Each... 37A3029. Type 47100-1. For Insulated Terminals. Each....



|                               | 1 1                                                    |                         |                | 96                   | 11                          | 1                    |
|-------------------------------|--------------------------------------------------------|-------------------------|----------------|----------------------|-----------------------------|----------------------|
| 6.01                          | N 17                                                   |                         | O              | 0                    | II H A                      |                      |
|                               | 2 3                                                    | (1)                     | ()             | (6)                  | () (B) (D                   | ) 🏷 🕕                |
|                               | () LOCKING SI                                          | PAOE TERMI              | NALS-F         | T BARRIER            | STRIPS                      |                      |
| Stock<br>No.                  | T & B Number                                           | Wire<br>Size            | Stud<br>Size   | 100-999              | Prices Per 100<br>1000-4999 | 5000 Up              |
| 12A2357<br>12A2358            | A18-6FL(A221)<br>A18-8FL(A224)                         | 22-18<br>22-18          | 6<br>8         | \$ 4.13<br>4.13      | \$ 3.34<br>3.34             | \$ 2.56<br>2.56      |
| 12A2359<br>12A2360            | A18-10FL(A225)<br>B14-6FL(B221)                        | 22-18<br>16-14          | 10<br>6        | 4.13<br>4.13         | 3.34<br>3.34                | 2.56<br>2.56         |
| 12A2361<br>12A2362            | 814-8FL(8223)<br>814-10FL(8225)                        | 16-14<br>16-14          | 8<br>10        | 4,13<br>4,13         | 3,34<br>3,34                | 2.56<br>2.56         |
| 12A2176                       |                                                        | SELF INSUL<br>22-18     | ATING FO       | RK—MS25<br>7.63      | 036<br>5.33                 | 4.09                 |
| 12A2177<br>12A2177<br>12A2178 | RA18-6F(RA1103)<br>RA18-8F(RA1123)<br>RA18-10F(RA1153) | 22-18<br>22-18<br>22-18 | 8<br>10        | 7.63<br>7.63         | 5.33<br>5.33<br>5.33        | 4.09                 |
| 12A2179<br>12A2180            | RB14-6F(RB1113)<br>RB14-8F(RB1123)                     | 16-14<br>16-14          | 6 8            | 7.63<br>7.63         | 5.33<br>5.33                | 4.09                 |
| 12A2181                       | RB14-10F(RB1153)                                       | 16-14<br>3) VINYL INS   | 10             | 7.63                 | 5.33                        | 4.09                 |
| 12A2182                       | 18RA-6F(RA1167)                                        | 22.18                   | 6              | 5.50                 | 3.66                        | 2.81                 |
| 12A2183<br>12A2184<br>12A2185 | 18RA-8F(RA1147)<br>18RA-10F(RA1157)                    | 22-18<br>22-18<br>16-14 | 8<br>10<br>6   | 5.50<br>5.50<br>5.50 | 3.66<br>3.66<br>3.66        | 2.81<br>2.81<br>2.61 |
| 12A2185<br>12A2186<br>12A2187 | 14RB-6F(RB647)<br>14RB-8F(RB657)<br>14RB-10F(RB297)    | 16-14<br>16-14<br>16-14 | 8<br>10        | 5.50<br>5.50         | 3.66<br>3.66                | 2.81                 |
| 12A2188<br>12A2189            | 10RC-8F(RC1147)<br>10RC-10F(RC1157)                    | 10-12<br>10-12          | 8<br>10        | 7.13                 | 4.69<br>4.69                | 3.60<br>3.60         |
| 12A2190                       | 10RC-14F(RC1167)                                       | 10-12                   | 1/4            | 8.50                 | 5.23                        | 4.01                 |
| 12A2191                       | A18-6F(A116)                                           | 22.18                   | 6              | 3.38                 | 2.35                        | 1.81                 |
| 12A2192<br>12A2193            | A18-8F(A114)<br>A18-10F(A29)                           | 22-18<br>22-18          | 8<br>10        | 3.38<br>3.38<br>4.50 | 2.35                        | 1.81                 |
| 12A2194<br>12A2195<br>12A2197 | A18-14F(A71F)<br>B14-6F(B64)<br>B14-8F(B65)            | 22-18<br>20-16<br>20-16 | 1/4<br>6<br>8  | 4,50<br>3.38<br>3.38 | 3.18<br>2.35<br>2.35        | 2.44<br>1.81<br>1.81 |
| 12A2198<br>12A2198<br>12A2199 | B14-10F(B115)<br>C10-6F(C33F)                          | 20-16<br>16-10          | 10<br>6        | 3.38<br>4.75         | 2.35<br>3.42                | 1.81<br>2.62         |
| 12A2200<br>12A2201            | C10-8F(C114)<br>C10-10F(C115)                          | 16-10<br>16-10          | 8<br>10        | 4.75<br>4.75         | 3.42<br>3.42                | 2.62                 |
| 12A2202                       | C10-14F(C116)                                          | 16-10<br>N-INSULATE     | 1/4            | 5.38<br>ERMINALS     | 3.90                        | 2.99                 |
| 12A2141                       | A18-4(A7)                                              | 22-18                   | 4              | 3.38                 | 2.35                        | 1.81<br>1.81         |
| 12A2142<br>12A2143<br>12A2144 | A18-6(A85)<br>A18-8(A86)<br>A18-10(A87)                | 22-18<br>22-18<br>22-18 | 6<br>8<br>10   | 3.38<br>3.38<br>3.38 | 2.35<br>2.35<br>2.35        | 1.81<br>1,81         |
| 12A2145<br>12A2145<br>12A2146 | A18-10(A37)<br>A18-14(A71)<br>B14-4(B132)              | 22-18<br>22-18<br>20-14 | 1/4            | 4.50<br>3.38         | 3.18<br>2.35                | 2,44<br>1,81         |
| 12A2147<br>12A2148            | B14-6(B133)<br>B14-8(B86)                              | 20-14<br>20-14          | 6              | 3.38<br>3.38         | 2.35<br>2.35                | 1.81                 |
| 12A2149<br>12A2150            | 814-10(887)<br>C10-6(C33)                              | 20-14<br>16-10          | 10<br>6        | 3.38<br>4.75         | 2.35<br>3.42                | 1.81<br>2.62         |
| 12A2151<br>12A2152            | C10-8(C77)<br>C10-10(C26)                              | 16-10<br>16-10          | 8<br>10        | 4.75<br>4.75         | 3.42<br>3.42                | 2.62<br>2.62         |
| 12A2153                       | C10-14(C71)                                            | 16-10<br>SULATED RI     | 1/4<br>NG TERM | 5.38<br>IINALS—MS    | 3.90<br>25036               | 2.99                 |
| 12A2155<br>12A2156            | RZ22-4(RZ43)<br>RZ22-6(RZ63)                           | 26-22<br>26-22          | 4              | 7.63<br>7.63         | 5.29<br>5.29                | 4.06                 |
| 12A2157<br>12A2159            | RZ22-8(RZ83)<br>RA18-4(RA323)                          | 26-22<br>22-16          | 8<br>4         | 7.63<br>7.63         | 5.29<br>5.33                | 4.06                 |
| 12A2160<br>12A2161            | RA18-6(RA853)<br>RA18-8(RA863)                         | 22-16<br>22-16          | 6<br>8         | 7.63<br>7.63         | 5.33<br>5.33                | 4.09                 |
| 12A2164<br>12A2165            | R814-4(R81323)<br>R814-6(R8853)                        | 16-14<br>16-14          | 4              | 7.63                 | 5.33<br>5.33                | 4,09<br>4,09<br>4,09 |
| 12A2166<br>12A2167            | RB14-8(RB863)<br>RB14-10(RB873)                        | 16-14<br>16-14          | 8<br>10        | 7.63<br>7.63         | 5.33<br>5.33                | 4.09                 |
| 12A2168                       | ④ VIN<br>18RA-4(RA77)                                  | 22-18                   | 4              | TERMINALS<br>5.50    | 3.66                        | 2.81                 |
| 12A2169<br>12A2170            | 18RA-6(RA857)<br>18RA-8(RA867)                         | 22-18<br>22-18          | 6<br>8         | 5.50<br>5.50         | 3.66<br>3.66                | 2.81<br>2.81         |
| 12A2171<br>12A2172            | 18RA-10(RA877)<br>14RB-4(RB1327)                       | 22-18<br>16-14          | 10             | 5.50<br>5.50         | 3.66<br>3.66<br>3.68        | 2.81<br>2.81<br>2.81 |
| 12A2173<br>12A2174<br>12A2175 | 14RB-6(RB857)<br>14RB-8(RB867)                         | 16-14<br>16-14<br>16-14 | 6<br>8<br>10   | 5.5D<br>5.50<br>5.50 | 3.66                        | 2.81                 |
| 1242175                       | 14RB-10(RB877)<br>⑦ NOI                                | N-INSULATED             |                | ONNECTORS            | 6                           |                      |
| 12A2203<br>12A2204            | 2A18(AA2)<br>2B14(BB2)                                 | 22-18<br>20-14          |                | 4.13<br>4.13         | 2.80<br>2.80                | 2.15                 |
| 12A2205                       | 2C10(CC2)                                              | 16-10<br>NSULATEO B     | UTT CON        | 5.63<br>NECTORS      | 4.05                        | 3.11                 |
| 12A2206<br>12A2207            | 2RA-18(RAA21)<br>2RB-14(RBB21)                         | 22-18<br>16-14          |                | 6.75<br>6.75         | 4.93                        | 3.78<br>3.78         |
| 12A2208                       | 2RC-10(RCC21)                                          | 12-10                   | CDI ICE        | 9.63                 | 6.44                        | 4.94                 |
| 1242483                       | 2RA(RAA23)                                             | 22-18                   | JELICE-        | 29.50                | 21.50<br>21.50              | 16.49<br>16.49       |
| 12A2484<br>12A2485            | 2RBB(RBB23)<br>2RCC(RCC23)                             | 16-14<br>12-10          |                | 29.50<br>41.38       | 33.23                       | 25,50                |
| 12A2330                       | ()<br>B14·D(B23)                                       | 20-14                   | K DISCON       | 6.00                 | 5.49                        | 4.21                 |
| 12A2331                       | T209W                                                  | Insulator               | WIRE IN        | 3.63                 | 2.90                        | *****                |
| 12A2332                       | RB44(RB4)                                              | 2 #20                   | WINE JU        | 3.25                 | 2.62<br>4.45                | 2.01                 |
| 12A2333                       | RC55(RC6)                                              | 3 #16                   |                | 5.25                 | 4.43                        | 9.42                 |

THOMAS & BETTS STA-KON TERMINALS

- 14

# **KNOBS AND DIALS**

| INTODO INTO DITILO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Stock         Alco         Flutted         Stide         Stock         Alco         Alco         Stock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dres<br>gloss<br>Figur                                                                                                   |
| Stock         Alco         Size         Solid         machined         aluminum         with         diamond           No.         No.         Dia.         High         Color         Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Fig.                                                                                                                     |
| Knob covers Entire Reducer.06.05.045.042Image: Constraint of the section of the sectio | Set<br>Fig.<br>(1)<br>(1)<br>(2)<br>(3)<br>(4)                                                                           |
| High quality American made 1/4" shaft accessories. "M" items are Millen; "J"<br>Fig. Stk. No. Description NetEa. Fig. Stk. No. Description NetEa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Lust<br>Red.<br>Fig.<br>1<br>9<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 |
| 1       12A1910       M10021 Marker       \$0.35       0       12A10       Bearing W/6" Shaft       \$0.61         1       12A1911       M10050 Dial Lock       69       12A1360       12A1361       12A1360       12A1360 <t< td=""><td>Stor<br/>12A2<br/>12A2</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Stor<br>12A2<br>12A2                                                                                                     |
| TYPE RAD No. 12A1919. Net Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HI<br>Sing<br>Alle<br>Sto<br>NH<br>12A2<br>12A2<br>12A2                                                                  |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                          |

136

### DAVIES INSTRUMENT AND CONTROL KNOBS 5 4 2 3 1 ss up knobs for panels and equipment. Precision molded of tough black plastic, is finished. All have 44'' hole and set screw. Figure () has spun silver inlay, are () for dual shaft concentric controls. Has white filled pointer line. **Type No.** 1913 1925 1930 1-24 Each 25-99 Each 100-499 Stock Each \$0.37 No. 12A1216 12A1217 12A1218 Size \$0.49 .37 .52 \$0.43 .33 .45 .55 .17 .26 .21 .22 .39 .39 .23 .28 .39 .48 .14 .22 .18 .19 .33 .33 12A1229 12A1222 12B60 1940 1910 1913D .63 .30 .24 .26 .44 12A1224 12A1226 12B61 1920 1930 1940D Dual 1919 .45 12A1228 .20 12B62 DAVIES MOLDED KNOBS ر بعه 1 3 2 screw knobs for ¼" shaft. Fig. ① has brass insert. . Fig. () has Size 1½" x 5%" H 15%" x 3%" H 23%" x 7%" H 1½" x 1½2" H 1½" x 1½2" H 1½" Lever 100-499 \$0.21 .25 .35 .07 .07 .18 Davies No. 1-24 25-99 Stk. No. 12A34 12A35 12A36 4100 4102 4103 \$0.28 \$0.24 .29 .41 .09 .09 .21 .33 .47 .10 1400 1450 2110 12A1227 12A1236 .10 .24 12B433 Simpl. Tripel line . C# 5 7 8 3 4 2 6 trous black molded bakelite with white filled pointer line. †Except 12A44 is 5. For 1/4" shaft. \*Indicates brass bushing insert. All are set screw type. Stk. No. 12A1203 12B26 12B27 12A919 Size 1-24 25-99 100-499 3/4" 11/8" 11/2" 2%2" 13/14" 1" 1" \$0.13 .10 .13 .12 \$0.18 \$0.16 .14 .17 .16 .12 .15 .14 12A920 12A692 12A693 .13 .12 .10 .10 .12 .08 .09 .12 .15 .18 .16 .11 .13 .16 .14 12A45 12A45 12A44† 12B1033\* 11/4" 11/4" 11/4" .10 .10 .14 .17 .21

12443

1281034\*

**BLACK CONTROL KNOBS** WITH WHITE POINTER LINE PLASTIC HOLE WITH SET SCREW

FIND EXACT DUPLICATES

| Stock<br>No.<br>2A2397<br>2A2398<br>2A2398<br>2A2399 | <b>Description</b><br>1½2″ Dia. Black—¼″ Shaft. Ohmite 5150<br>1″ Dia. Black—¼″ Shaft<br>¾″ Dia. Black—¼″ Shaft. Ohmite 5151 | 1-4<br>Each<br>30c<br>30c<br>30c | 5 <b>-9</b><br>Each<br>26c<br>26c<br>26c | 10-24<br>Each<br>20c<br>20c<br>20c |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|------------------------------------|
|                                                      |                                                                                                                              | NA'                              | TIONAL                                   |                                    |

.19 .24

21

2"

ÐĬ

SOLID ALUMINUM ±" SHAFTS IRM HRB HG HGF ngle 6-32 slotted head set screw in types HG and HGF; 8-32 in type HRB; 2–4-40 en head screws at 90° in type HRM. Shp. wt. 1 oz. 1-49 50-99

 
 Mfg.
 Description

 HRM Satin Chrome black arrow, ½x5%"

 HRB Polished 1¼" Lg. x ½" H.

 HG Polished ½" x 5%" H., 1¼" flange, Red Line

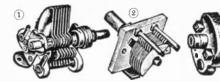
 HGF Like HG, with flat sides, red dot
 100-499 Each tock Each Each No. A2393 A2394 A2395 A2395 \$0.86 .59 .54 .68 \$0.91 \$0.96 .65 .62 .57 .71 .60

### CLOCK-RADIO KNOB KIT SAVES TIME TRYING TO .



For Large Quantities Request Quotation From B-A's Industrial Department

### VARIABLE CAPACITORS, ELECTRONIC HARDWARE



1 HAMMARLUND MC Steatite insulated midget condenser,  $\frac{1}{4}$ " shaft extends  $\frac{3}{23}$ " to the front and also  $\frac{3}{4}$ " to rear for ganging. Mounts on base or with single hole through the panel. Air gap .024". \*Semicircular panel. Air gap .024". \*Semi-circular plates (straight line capacity) all others are mid line plates, Avg. shpg. wt. 7 oz. Stock Mfr's Max. Min. Net No. No. Mmf, Mmf. Each 20 50 100 \$2.40 2.66 2,95 1241920 \*MC20S 5.5 6.5 \*MC20S \*MC50S \*MC100S \*MC140S MC250M MC325M 12A1921 12A1922 8.3 10 12 140 250 320 12A1923 3.15 3.70 12A1924 12A1925 13.5 4.20

(2) HAMMARLUNO HF MICROS Very efficient in critical high frequency circuits. Steatite insulation. Equipped with special wide front bearing. Plate spacing .015. \*Have .045 spacing. Shg, wt. 6 oz.

| Stock<br>No.                  | Mfr's<br>No.              | Max.<br>Mmf,     | Min,<br>Mmf,      | Net<br>Each          |                       |           | TWO & THRE<br>MFO. PER SEC                           |                           |
|-------------------------------|---------------------------|------------------|-------------------|----------------------|-----------------------|-----------|------------------------------------------------------|---------------------------|
| 12A1926<br>12A1927<br>12A1928 | HF-15<br>HF-35            | 17.5             | 2.8<br>3.2        | \$1.30<br>1,40       | With bal<br>rotor cor |           | iring rotors, I<br>springs and 1/47                  | neavy brass<br>′dia.shaft |
| 12A1929<br>12A1930            | HF-50<br>HF-100<br>HF-140 | 52<br>102<br>142 | 3.7<br>5.3<br>6.3 | 1,60<br>1,80<br>1,95 | Stk. No.<br>12A1941   | Sec.<br>1 | \$ize<br>1½x1⅔₄x1%8″                                 | Net Each<br>\$1.20        |
| 12A1931<br>12A1932            | *HF-15-X<br>*HF-30-X      |                  | 3.6<br>5.2        | 1.30<br>1.70         | 12A1942<br>12A1943    | 2<br>3    | 2%4×1 <sup>1</sup> %4×1%<br>3%4×1 <sup>1</sup> %4×1% |                           |

### JOHNSON SUB-MIDGETS

Type M. Steatite end plate only  $\frac{5}{2}$  x  $\frac{3}{4}$  ",  $\frac{3}{4}$ " dia, slotted shaft extending  $\frac{1}{4}$ " from bushing and mount in  $\frac{1}{4}$ " hole. Rigidly soldered rotor and stator assemblies. Plate spacing .017, rating 750 volt RMS. Avg. wt. 6 oz.

40 44 45

For 1/2" mtg. hole. 6-32 hdwe.

Type Fig. 55 (3)

11/4"

5%' 13%'

Hgt. 1/4″

STEATITE FEED-THRU BUSHINGS

12A262

2A266

Stk. No. 12A248

12A267



22 65 66

Hgt. 5∕8″

14/2" 2"

1

**ype** 500

501 17

502 503

13⁄8″ 23⁄4″

Bot,

5/8" 3/4" 1"

14/8"

STEATITE CONES

12A251 12A256

12A258

Stk. No. 12A271

124272

12A274

12A276

55c 39c

74c

NET

37c

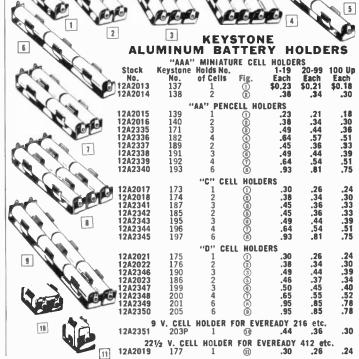
10-32 6-32 10-32

Dia. 3⁄4″

|                    | DUTTER             | LY-TYPE M                    |             | D SINGLE SECTION-TYPE M |                        |         |                     |  |  |
|--------------------|--------------------|------------------------------|-------------|-------------------------|------------------------|---------|---------------------|--|--|
| 3)<br>Stock<br>No. | Mfg.               | Cop. Mmf.<br>MinMax          | Net<br>Eoch | Stock<br>No.            | Mfg.<br>No.<br>160-102 | MinMax. | Each                |  |  |
|                    | 160-205<br>160-208 | 1.8 5.1<br>2.2 8<br>2.7 10.8 |             |                         | 160-104<br>160-107     |         | .95<br>1.00<br>1.10 |  |  |

|                                                                                                                                                                                                                                                                                                                                                                                                           | RS AND PADDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| With low loss ceramic base and clear mi           No.           12A195           12A195 | ARCO         MMFD. Fig.         Each         10 Ea.         100 Ea.           1         461         3-30         A         \$0.33         \$0.29         \$0.20           2         463         9-180         A         .42         .38         .26           3         464         25-280         A         .45         .40         .27           4         466         80-480         A         .57         .51         .34           5         303         65-340         8         .69         62         .41 |
| HIGH VOLTAGE GRI<br>For TV replacement. With 10" wire lead<br>No. 12A2352 3/6" Cap. Choice<br>No. 12A2353 1/4" Cap. Eoch                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| GRID         & PLATE         CAPS           12A1349         %" National         1         10c           12A1356         %" Ins. Millen         3         49c           12A2354         %" Ins. Millen         3         49c           12A1357         Comb. %-1/4"         4         25c                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| JOHNSON I                                                                                                                                                                                                                                                                                                                                                                                                 | A SULATORS S S S S S S S S S S S S S S S S S S                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| THRU-PANEL TYPE                                                                                                                                                                                                                                                                                                                                                                                           | STAND-OFF TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Furnished with nickeled brass hardware<br>for mounting in panels up to $\frac{1}{2}$ " thick.<br>Dimension shown is height above panel.                                                                                                                                                                                                                                                                   | Types 65, 66, have Cadmium steel bases.<br>"J" after Type Number indicates Jack<br>Type. Average wt. 12 oz.                                                                                                                                                                                                                                                                                                                                                                                                       |
| Average weight 12 ozs. Steatite except type 45, Porcelain.                                                                                                                                                                                                                                                                                                                                                | Stk. No. Type Fig. Hgt. Hdwe. NET<br>12A249 20 (4) 1%/ 10-32 43c                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Stk. No. Type Fig. Top Hdwe. NET                                                                                                                                                                                                                                                                                                                                                                          | 12A250 20J S 1%" 74J 48c<br>12A251 22 4 1" 8-32 26c                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| E CAFACITURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5, ELECTRUNIC HARDWAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ľ                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 3 4 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GROMMETS, PLUGS AND BUMPERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                                                         |
| HAMMARLUNO APC MICROS     Particularly adaptable to S.W. Steatite     base. Air gap .015". Screwdriver adjust-     ment. Shpg. wt. 4 oz.     Stock Mfr's Max. Min. Net     No. No. Mmf. Mmf. Each     12A1933 APC-25 25 3.0 \$1.20                                                                                                                                                                                                                                                                                                                                                         | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 000<br>67<br>5.75<br>1.21<br>3.59<br>3.86<br>7.02<br>5.07<br>0.18<br>5.64 |
| 12A1934 APC-50 50 3.9 1.35<br>12A1935 APC-100 100 5.5 1.60<br>12A1936 APC-140 140 6.7 1.80<br>SHAFT TYPE APC                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ③         SCREEN         PLUG           Bright zinc plate. Screen Ventilator plug snaps in 1" diameter hole.         Stk. No.         Cinch         1.24         25.49         50.99         100-249         250-128200           128200         41V         \$0.17         \$0.13         \$0.11         \$0.10         \$0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                           |
| APC-8 has ¼ inch shaft, otherwise exact<br>same size as APC illustrated above. Shaft<br>length ½".<br>12A1937 APC-25B 25 3 \$1.30<br>12A1938 APC-50B 50 3.9 1.40<br>12A1939 APC-100B 100 5.5 1.70<br>12A1940 APC-140B 140 6.7 1.90                                                                                                                                                                                                                                                                                                                                                         | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 000<br>r M<br>3.44<br>0.40<br>1.30<br>2.18<br>3.27                        |
| ONE, TWO & THREE GANG<br>365 MMFO. PER SECTION     With ball bearing rotors, heavy brass<br>rotor contact springs and ¼" dia. shaft.     Stk. No. Sec. Size Net Each                                                                                                                                                                                                                                                                                                                                                                                                                       | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.21<br>1.59<br>5.25<br>7.38<br>5.33                                      |
| 12A1941         1         1/2x13%*X17%"         \$1.20           12A1942         2         2%x113%*X15%"         2.79           12A1943         3         3%x13%*X15%"         3.90           UB-MIDGETS         3         3         3                                                                                                                                                                                                                                                                                                                                                     | No.         No.         O.D.         Hole         High         For         For         For         For         For         So         12A1449         7596         3%"         34.2"         \$0.50         \$2.70         \$11.86         \$21           12A14450         7597         3/2"         \$4"         34.2"         \$0.50         \$2.70         \$11.86         \$21           12A1450         7597         3/2"         \$4"         34.2"         \$0.50         \$2.70         \$11.86         \$21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 00<br>or<br>1.56<br>1.56<br>1.56                                          |
| 1 SINGLE SECTION-TYPE M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ③ RUBBER FEET           With recessed cavity for screws, nails, etc.           Stock         G-C           No.         No.           No.         No.           Yata         Or 6           Yata         Yata           With recessed cavity for screws, nails, etc.         10           Stock         G-C           Takes         10           No.         No.           Screw         High           For         For           F12A1447         1075B           Ye''         #4 or 6           Ya''         \$0.33           \$1.68         \$7.39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 00<br>or<br>3.43<br>3.86                                                  |
| Stock         Mfg.<br>No.         Cop. Mmf.<br>MinMax.         Net<br>Each           12A1947         160-102         1.5         5.0         \$0.90           12A1948         160-102         1.8         8.7         \$95           12A1949         160-107         2.3         14.2         1.00           12A1950         160-110         2.7         19.6         1.10                                                                                                                                                                                                                 | RUBBER GROMMETS<br>High quality, tough black rubber. Ap-<br>prox. 50 pieces in popular sizes to<br>fit hales from ¼ ta %" dia, in metal<br>panels. Big Sovings! 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | という                                                                       |
| ERS AND PADDERS           nica dielectric.           ARC0 MMFD. Fig. Each         10 Ea. 100 Ea.           51 461         3·30         A         \$0.33         \$0.29         \$0.20           52 463         9·180         A         .42         .38         .26           53 464         25-280         A         .45         .40         .27           54 466         80-480         A         .57         .51         .34           55 303         65-340         B         .69         .62         .41           55 303         67-347         B         .87         .78         .52 | No. 18A509.<br>Per Assortment, Special                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                                                                         |
| ID CAPS<br>ads.<br>49 c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 2 3 KEYSTONE<br>ALUMINUM BATTERY HOLDERS<br>"AAA" MINIATURE CELL HOLDERS<br>Stock Keystone Holds No. 1-19 20-99 100<br>No. No. Cells Fig. Each Each Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Up                                                                        |
| 0 R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12A2013         137         1         ©         \$0.23         \$0.21         \$0.21           12A2014         138         2         1         38         34         38         34         38         34         38         34         38         34         38         34         38         34         38         34         38         34         38         34         38         34         38         34         38         34         38         34         38         34         38         34         34         38         34         34         38         34         34         38         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34 |                                                                           |



137

Burstein-Applebee Co., 3199 Mercier St., Kansas City, Mo. 64111

44c 99c

NET

26c 35c

65c

96c

10-32 1/4-20

Hdwe

6-32

8-32

8-32 10-32

## THE FINEST ELECTRONIC HARDWARE



Magnetic.



3 Oval Head

STEEL NICKEL PLATED Bright finish --- Rust-proof. Greater strength.

Please indicate B-A Stock No. and Quantity desired when ordering. Weights, average per 100: 4-36, 4-40-3 oz.; 6-32-4 oz.; 8-32-6 oz.; 10-32-9 oz.; ¼"-2 lbs.

### **(1) BINDER HEAD**

|                                                                | 4-36 Nickel Plated BRASS |                                     |                      |                         |                                           |                         |                                                                | 4-40 Nickel Plated STEEL      |                                 |                                    |                                      |                                       |                                      |
|----------------------------------------------------------------|--------------------------|-------------------------------------|----------------------|-------------------------|-------------------------------------------|-------------------------|----------------------------------------------------------------|-------------------------------|---------------------------------|------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|
| Brass<br>Stock<br>No.                                          | Lgth.<br>Inch.           |                                     | 100<br>For           | 500<br>For              | 1000<br>For                               | 5000<br>Per<br>M        | Steel<br>Stock<br>No.                                          | Lgth.<br>Inch.                |                                 | 100<br>For                         | 500<br>For                           | 1000<br>For                           | 5000<br>Per<br>M                     |
| 12A2070<br>12A2071<br>12A2072                                  | 1/4<br>3/8<br>1/2        | .65<br>.71<br>.80                   | 1.45<br>1.58<br>1.77 | 6.95                    | 11,16<br>12,08<br>13,57                   |                         | 12A1859<br>12A1860<br>12A1861                                  | 1/4<br>3/8<br>1/2             | .30<br>.31<br>.35               | .66<br>.69<br>.77                  | 2.89<br>3.01<br>3.40                 | 5.01<br>5.24<br>5.91                  | 4.36<br>4.56<br>5.14                 |
|                                                                | 6-32 Nickel Plated BRASS |                                     |                      |                         |                                           |                         |                                                                | 6-32                          | Nicke                           | l Plat                             | ed ST                                | EEL                                   |                                      |
| 12A2073<br>12A2074<br>12A2075<br>12A2075<br>12A2076<br>12A2077 |                          | .72<br>.78<br>.86<br>1.05<br>1.14   |                      | 7.57<br>8.46<br>10.28   | 12.26<br>13.18<br>14.72<br>17.88<br>19.46 | 11.46<br>12.80<br>15.55 | 12A1862<br>12A1863<br>12A1864<br>12A1865<br>12A1865            | 1/4<br>3/8<br>1/2<br>3/4<br>1 | .31<br>.32<br>.35<br>.36<br>.40 | .66<br>.71<br>.78<br>.81<br>.89    | 3.01<br>3.12<br>3.43<br>3.60<br>3.91 | 5.24<br>5.41<br>5.95<br>6.26<br>6.80  | 4.56<br>4.70<br>5.17<br>5.44<br>5.91 |
|                                                                | 8-32                     | Nicke                               | l Plat               | ed BR                   | RASS                                      |                         |                                                                | 8-32                          | Nicke                           | l Plat                             | ed ST                                | EEL                                   |                                      |
| 12A2078<br>12A2079<br>12A2080<br>12A2081<br>12A2082            | 1/2<br>3/4               | .96<br>1.04<br>1.19<br>1.38<br>1.59 | 2.64 3.06            | 10.19<br>11.64<br>13.48 | 16.33<br>17.71<br>20.24<br>23.44<br>27.14 | 15.40<br>17.60<br>20.38 | 12A1867<br>12A1868<br>12A1869<br>12A1870<br>12A1870<br>12A1871 | 1/4<br>3/8<br>1/2<br>3/4<br>1 | .37<br>.39<br>.51<br>.54<br>.59 | .83<br>.86<br>1.13<br>1.20<br>1.32 | 3.67<br>3.77<br>4.97<br>5.29<br>5.82 | 6.37<br>6.56<br>8.63<br>9.20<br>10.12 | 5.54<br>5.70<br>7.50<br>8.00<br>8.80 |

② ROUND HEAD

|                                                                           |                          |                                          |                              |                                        | <u>ا</u>                |                                           |                                                                |                                                      |                                 |                                  |                                      |                                       |                                       |
|---------------------------------------------------------------------------|--------------------------|------------------------------------------|------------------------------|----------------------------------------|-------------------------|-------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|---------------------------------|----------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|
|                                                                           | 2.56                     | Nicke                                    | l Plat                       | ed BF                                  | ASS                     |                                           |                                                                | 2-56                                                 | Nickei                          | Plat                             | ed ST                                | EEL                                   |                                       |
| Brass<br>Stock<br>No.                                                     | Lgth<br>Inch             | . For                                    | 100<br>For                   | 500<br>For                             | 1000<br>For             | 5000<br>Per<br>M                          | Steel<br>Stock<br>No.                                          | Lgth.<br>Inch.                                       |                                 | 100<br>For                       | 500<br>For                           | 1000<br>For                           | 5000<br>Per<br>M                      |
| 12A2083<br>12A2084<br>12A2085                                             | ¥6<br>1∕4<br>3∕8         | .41<br>.43<br>.56                        | .90<br>.96<br>1.25           | 3.97<br>4.23<br>5.46                   | 6.90<br>7.36<br>9.49    | 6.00<br>6.40<br>8.25                      | 12A2106<br>12A2107<br>12A2108                                  | ¥i6<br>1∕4<br>3∕8                                    | .30<br>.30<br>.31               | .66<br>.66<br>.69                | 2.89<br>2.89<br>3.01                 | 5.01<br>5.01<br>5.24                  | 4.36<br>4.36<br>4.56                  |
|                                                                           | 4-36                     | Nicke                                    | l Plat                       | ed BF                                  | ASS                     |                                           |                                                                | 4-40                                                 | Nicke                           | Plat                             | ed ST                                | EEL                                   |                                       |
| 12A2086<br>12A2087<br>12A2088<br>12A2088<br>12A2089                       | 1/2                      | .65<br>.71<br>.80<br>.84                 | 1.45<br>1.58<br>1.77<br>1.86 | 6.95<br>7.81                           |                         | 10.50                                     | 12A2109<br>12A2110<br>12A2111<br>12A2111<br>12A2112            | 1/4<br>3/8<br>1/2<br>1                               | .30<br>.31<br>.35<br>.41        | .66<br>.69<br>.77<br>.92         | 2.89<br>3.01<br>3.40<br>4.04         | 5.01<br>5.24<br>5.91<br>7.02          | 4.36<br>4.54<br>5.14<br>6.10          |
| 6-32 Nickel Plated BRASS                                                  |                          |                                          |                              |                                        |                         |                                           | 12A2112 1 .41 .92 4.04 7.02 6.10<br>6-32 Nickel Plated STEEL   |                                                      |                                 |                                  |                                      |                                       |                                       |
| 12A2090<br>12A2091<br>12A2092<br>12A2093<br>12A2093<br>12A2094<br>12A2095 | 1/4<br>3/8<br>1/2<br>3/4 | .62<br>.72<br>.78<br>.86<br>1.05<br>1.14 | 2,54                         | 7.05<br>7.57<br>8.46<br>10,28<br>11.19 | 14.72<br>17.88<br>19.46 | 10.66<br>11.46<br>12.80<br>15.55<br>16.92 | 12A1873<br>12A1874<br>12A1875<br>12A1875<br>12A1877<br>12A1878 | 1/2<br>3/8<br>1/2<br>1<br>2                          | .31<br>.32<br>.35<br>.40<br>.87 | .69<br>.71<br>.78<br>.89<br>1.93 | 3.05<br>3.12<br>3.43<br>3.91<br>8.46 | 5.29<br>5.41<br>5.95<br>6.80<br>15.39 | 4.60<br>4.70<br>5.17<br>5.91<br>13.90 |
| 12A2096                                                                   | 2                        | 1.66                                     | 3.69                         | 16.27                                  | 28.29                   | 24.60                                     |                                                                | 8·32                                                 | Nickel                          | Plat                             | ed ST                                | EEL                                   |                                       |
| Brass                                                                     | 8-32                     | Nicke                                    | i Piat                       | ted BF                                 | RASS                    | 5000                                      | Steel<br>Stock<br>No.                                          | Lgth.<br>(nch.                                       |                                 | 100<br>For                       | 500<br>For                           | 1000<br>For                           | 5000<br>Per<br>M                      |
| Stock<br>No.                                                              | Lgth                     | . For                                    | 100<br>For                   | 500<br>For                             | 1000<br>For             | Per<br>M                                  | 12A1879<br>12A1880                                             | 3/B<br>1/2                                           | .39<br>.51                      | .86<br>1.13                      | 3.77                                 | 6.56<br>8.63                          | 5.70                                  |
| 12A2097<br>12A2098<br>12A2099                                             |                          | 1.04<br>1.19<br>1.59                     | 2.64                         | 11.64                                  | 20.24                   | 15.40<br>17.60<br>23.60                   | 12A1881<br>12A1882<br>12A1883                                  | Ī1⁄2                                                 | .59<br>.82<br>.97               | 1.32<br>1.83<br>2.15             | 8.10                                 | 14.08                                 | 12,24                                 |
|                                                                           |                          | Nicke                                    | I Pla                        | ted B                                  | RASS                    |                                           |                                                                | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |                                 |                                  |                                      |                                       |                                       |
| 12A2100<br>12A2101<br>12A2102                                             |                          | 1.16<br>1.22<br>1.71                     | 2.70                         | 11.90                                  | 19.78<br>20.70<br>29.18 | 18.00                                     | 12A2113<br>12A2114<br>12A2115<br>12A2115                       | 1/2<br>3/4                                           | .56                             | 1.25                             | 5.50<br>6.14                         | 9.55                                  | 8.30<br>9.28                          |
|                                                                           |                          |                                          |                              |                                        | 1/4-20                  | Nickel                                    | Plated ST                                                      | TEEL                                                 |                                 |                                  |                                      |                                       |                                       |
|                                                                           |                          |                                          |                              |                                        |                         |                                           |                                                                |                                                      |                                 |                                  |                                      |                                       |                                       |

12A2103 1 1.16 2.59 12.19 21.20 18.15 12A2117 2 1.48 3.30 14.55 25.30 22.00 (s) Oval Head (Rack Screws) N.P. Steel 12A2104 6-32-1/2 .35 .77 .3.38 5.87 5.10 12A2118 10-32-1/2 .47 1.05 4.66 8.10 7.04 12A2105 8-32-1/2 .43 .96 4.23 7.36 6.40 12A2119 10-32-1/2 .54 1.20 5.30 9.22 8.02



**BRASS CADMIUM PLATED MOUNTING SPACERS** 

| Ideal for formers,                                             |                                    | -                                 | -                                 |                                        | THREADED FOR 6-32 SCREW<br>① Round ¼4" 0.0.                    |                                    |                                   |                                     |                                         |
|----------------------------------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|----------------------------------------------------------------|------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------------|
| sockets a                                                      |                                    |                                   |                                   |                                        | Stk. No.                                                       | Lgth.                              | Each                              | 10 For                              | 100 For                                 |
|                                                                |                                    | THREAD                            | ED                                |                                        | 12A1469<br>12A1470<br>12A1471<br>12A1471<br>12A1472<br>12A1473 | 1/4"<br>3/8"<br>1/2"<br>3/4"<br>1" | \$.07<br>.08<br>.09<br>.11<br>.13 | \$.43<br>.54<br>.66<br>.92<br>1.14  | \$3.90<br>4.95<br>6.00<br>8.40<br>10.40 |
| Stk. No.                                                       | Lgth.                              | Each                              | 10 For                            | 100 For                                | 1                                                              | <li>2 1/4</li>                     | " Hexag                           | onal                                |                                         |
| 12A1173<br>12A1174<br>12A1175<br>12A1175<br>12A1176<br>12A1177 | 1/4"<br>3/8"<br>1/2"<br>3/4"<br>1" | \$.05<br>.07<br>.08<br>.09<br>.10 | \$.37<br>.49<br>.58<br>.69<br>.79 | \$3.30<br>4.35<br>5.28<br>6.30<br>7.20 | 12A1386<br>12A1387<br>12A1388<br>12A1388<br>12A1389<br>12A1390 | 1/4"<br>3/8"<br>1/2"<br>3/4"<br>1" | \$.07<br>.08<br>.09<br>.12<br>.14 | \$.46<br>.58<br>.69<br>1.01<br>1.23 | \$4.20<br>5.25<br>6.30<br>9.20<br>11.20 |





Rustproof-greater strength

A

5000

BRASS NICKEL PLATED Rustproof, Non-Magnetic. Avg. Wt. Pkg. 100, 6 oz.

2

| 100, 6 oz.                                                                                                                                                                                 | 5000                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5000<br>Stock Size 20 100 500 1000 Per                                                                                                                                                     | Stock Size 20 100 500 1000 Per<br>No. Inches For For For M                                                                                                     |
| No.         Inches         For         For         M           12A2027         2·56·¾, 57         1.26         5.55         9.86         8.40                                              | 12A2049 2-56-X, .36 .81 3.60 6.26 5.44<br>12A1884 4-40-1/4 .34 .75 3.30 5.73 4.98                                                                              |
| 12A2028 4-36-1/4 .67 1,49 6.56 11.39 9.90                                                                                                                                                  | 1241885 6-32-1/4 .34 .75 3.30 5.73 4.98                                                                                                                        |
| 12A2030 6-32-34 .74 1.65 7.28 12.65 11.00                                                                                                                                                  | 12A1887 8-32-% .39 .86 3,77 6.56 5.70                                                                                                                          |
| 12A2031 8-32-34 .67 1.49 6.56 11.39 9.90<br>12A2032 10-32-34 .74 1.65 7.28 12.65 11.00                                                                                                     | 12A2050 10-32-36 .51 1.13 4.95 8.60 7.48<br>12A2051 14-20-36 .54 1.20 5.29 9.20 8.00                                                                           |
| <b>③ MOUNTING NUTS</b>                                                                                                                                                                     | 3 KNURLED NUT                                                                                                                                                  |
| <b>NICKEL PLATED STEEL</b><br>Rotary switch type is $\mathcal{H}_6''$ wide. All others<br>are $\mathcal{H}_6''$ wide.                                                                      | BRASS NICKEL PLATED                                                                                                                                            |
| Stock 20 100 500 1000                                                                                                                                                                      | ACORN NUTS<br>BRASS NICKEL PLATED, Wt. 100, 1 Ib.                                                                                                              |
| 12A1888 Rot.S. +1-32 1.12 2.49 10.98 19.88                                                                                                                                                 | Stock 20 100 500 1000                                                                                                                                          |
| 12A1889 Vol.C. 36-32 .84 1.87 8.23 14.97<br>12A1890 Pil.L. 36-27 1.89 4.20 18.46 33.59                                                                                                     | No.         Size         For         For         For           12A2052         6-32         1.58         3.52         15.48         28.13                      |
| 12A1891 Tog.S. 10-32 1.03 2.29 10.09 18.33                                                                                                                                                 | 12A2053 8-32 1.68 3.73 16.41 29.81                                                                                                                             |
| NO NO.                                                                                                                                                                                     |                                                                                                                                                                |
| and the second                                                                                                                                                                             |                                                                                                                                                                |
| The the second                                                                                                                                                                             |                                                                                                                                                                |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                      |                                                                                                                                                                |
|                                                                                                                                                                                            | METAL SCREWS (3) HEX HEAD (SLOTTED)                                                                                                                            |
| STEEL Cadmium Plated. Average shpg.<br>wt. per 100, 6 oz.<br>(1) ROUND HEAD GIMLET POINT                                                                                                   | BLUNT POINT                                                                                                                                                    |
| Stock Size 20 100 500 1000 5000                                                                                                                                                            | Stock Size 20 100 500 1000 5000<br>No. Inches For For For For PerM                                                                                             |
| No.         Inches         For         For         For         For         Per M           12A2033         6x1/4         L.         .28         .64         2.84         4.94         4.30 | 12A2054 6x1/4 L28 .64 2.84 4.94 4.30<br>12A2055 6x1/2 L34 .76 3.44 5.98 5.20                                                                                   |
| 12A2034 6x <sup>1</sup> / <sub>2</sub> L33 .75 3.30 5.75 5.00<br>12A2035 8x <sup>1</sup> / <sub>2</sub> L42 .93 4.09 7.13 6.20                                                             | 12A2056 8x1/4 L34 .76 3.44 5.98 5.20<br>12A2057 8x3/6 L36 .81 3.58 6.25 5.44                                                                                   |
| 12A2036 8x3/4 L46 1.02 4.55 7.93 6.90                                                                                                                                                      | <b>O PHILLIPS ROUND HEAD</b>                                                                                                                                   |
| ② ROUND HEAD BLUNT POINT<br>12A2037 6x¼ L30 .67 2.97 5.17 4.50                                                                                                                             | GIMLET POINT<br>12A2058 6x1/4 .38 .80 3.51 6.10 5.30                                                                                                           |
| 12A2038 6x <sup>1</sup> / <sub>2</sub> L34 .76 3.37 5.86 5.10<br>12A2039 8x <sup>1</sup> / <sub>4</sub> L38 .84 3.63 6.32 5.50                                                             | 12A2059 6x1/2 .44 .90 3.98 6.92 6.02<br>12A2060 6x3/4 .47 .98 4.30 7.48 6.50                                                                                   |
| 12A2040 8x1/2 L42 .93 4.09 7.13 6.20<br>12A2041 8x3/4 L45 .99 4.35 7.59 6.60                                                                                                               | 12A2061 8x <sup>1/2</sup> .51 1.06 4.66 8.10 7.04<br>12A2062 8x <sup>3/4</sup> .57 1.18 5.20 9.04 7.86                                                         |
|                                                                                                                                                                                            | lickel Plated ROUND HEAD                                                                                                                                       |
| Stock Size 20 100 500 1000 5000<br>No. Inches For For For For PerM                                                                                                                         | Stock Size 20 100 500 1000 5000<br>No. Inches For For For PerM                                                                                                 |
| 12A2042 4×1/4 L36 .81 3.58 6.25 5.44<br>12A2043 4×1/2 L38 .85 3.77 6.57 5.72                                                                                                               | 12A2063 6x1 L55 1.13 5.00 8.69 7.56<br>12A2064 8x11/2L, .79 1.83 7.38 13.42 12.08                                                                              |
|                                                                                                                                                                                            |                                                                                                                                                                |
|                                                                                                                                                                                            |                                                                                                                                                                |
|                                                                                                                                                                                            |                                                                                                                                                                |
| (1) FLAT BRASS N.P. WASHERS                                                                                                                                                                | BRE WASHERS<br>SHAKEPROOF WASHERS                                                                                                                              |
| Stock 0.D. 100 1000 5000                                                                                                                                                                   | (3) EXTERNAL TYPE                                                                                                                                              |
| No.         Size         in.         Thk.         For         For         perM           12A1892         2         3/2         .018         .48         3.68         3.20                  | Stock Fits 20 100 500 1000 5000                                                                                                                                |
| 12A1893 4 32 .025 .51 3.91 3.45<br>12A1894 6 36 .028 .65 4.95 4.30                                                                                                                         | No.         Screw         For         For         For         perM           12A1897         #4         .22         .48         2.01         3.65         2.90 |
| 12A1895 8 3/6 .032 .65 4.95 4.30<br>12A1896 10 3/6 .036 .72 5.46 4.75                                                                                                                      | 12A1898 #6 .22 .48 2.01 3.65 2.90<br>12A1899 #8 .24 .53 2.15 3.90 3.10                                                                                         |
| ② CUP TYPE WASHERS, Nickel Plated                                                                                                                                                          | () INTERNAL TYPE                                                                                                                                               |
| Stock 20 100 500 1000 5000<br>No. Size For For For For perM                                                                                                                                | 12A1900 #4 .21 .48 2.01 3.65 2.90<br>12A1901 #6 .21 .48 2.01 3.65 2.90                                                                                         |
| 12A1905 6 .27 .60 2.62 4.76 4.28                                                                                                                                                           | 12A1902 #8 .24 .53 2.15 3.90 3.10                                                                                                                              |
| 12A1906 8 .28 .63 2.77 5.04 4.34<br>12A1907 10 .32 .71 3.16 5.73 5.16                                                                                                                      | 12A1903 #10 .24 .53 2.15 3.90 3.10<br>12A1904 3/8" .56 1.25 6.05 10.05 8.05                                                                                    |
| 3 FLAT FIBRE WASHERS                                                                                                                                                                       | • FIBRE EXTRUDED WASHERS                                                                                                                                       |
| Stock Screw 20 100 1000<br>No. O.D. Size Thk. For For For                                                                                                                                  | Stock Screw Extr. 20 100 1000<br>No. 0.D. Size 0.D. For For For                                                                                                |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                       | 12A2065 3/4" 6 .219 .43 .96 7.60<br>12A2066 3/8" 8 .250 .43 .96 7.60                                                                                           |
| 12A2046 36" 10 32" .23 .52 4.25<br>12A2047 1/2" 1/4" 34" .26 .57 4.45                                                                                                                      | 12A2067 K <sub>4</sub> " 10 .281 .47 1.05 8.30<br>12A2068 1/2" 1/4" 375 .47 1.05 8.30                                                                          |
| 12A2048 5/8" 3/8" 3/4" .38 .85 6.75                                                                                                                                                        | 12A2069 5%" 3%" .437 .49 1.08 8.55                                                                                                                             |
|                                                                                                                                                                                            | DDWARE ACCORTAENT                                                                                                                                              |

### RADIO HARDWARE ASSORTMENT

MINIATURE JAPANESE HARDWARE ASSORTMENTS 

 Metric
 hardware
 for
 replacement
 in
 Japanese
 radios,
 recorders
 and
 other
 imports.

 Shog, wt. 4 ozs.
 volume
 assorted.
 Your
 Your
 CHOICE

 No. 12A2488.
 2.6 X 6 MM. 50 Assorted.
 PER
 PACKAGE
 Soc

 No. 12A2489.
 3 X 8 MM. 50 Assorted.
 PACKAGE
 Soc

|    | 2 | Х | 4 | MM. | 50 | Assorted. |         | YOUR | CHOICE |
|----|---|---|---|-----|----|-----------|---------|------|--------|
|    |   |   |   |     |    | Assorted. | PER     |      |        |
| 9. | 3 | X | 8 | MM. | 50 | Assorted. | PACKAGE |      | 6      |

Request Quotation On Larger Quantities From Our Industrial Department

5

# **ELECTRONIC HARDWARE & ALPHA TUBING**

### M.N. NEWMAN HELI-TUBE Spiral cut clear polyethylene tubing for cabing of harness wiring. Allows taps or lead off at any point. Retains original form and may be reused if desired. 44" 0.D. expands for cables up to 2" in dia. Not affected by solvents, acids or alkalies. Operating temp.--105° to 215° F. Cables Bundles From 36" to 2" Diameter. 14" 0.D. Wall Thickness .045". Wt. 100' Ib. \$45.00 100 Ft. 2W301, Per Ft. 14c .\$12.00 1000 Ft. .....\$112.00 PRESSURE SENSITIVE LABELS Codes wires, leads, circuits, relays, and other parts fast and cheap. Easy to use, they stik-quik without moistening. No. 2A8033. Card of numbers 1 to 33, O+IDENTIFY O>PEEI 6 of each. No. 2A8034. Card of Letters—A to E, 7 strips of each letter, 6 letters per strip. 22c Lots of 25 Each Choice 20c Lots of 16c Per Card, Each, 100 Each E e 1 目 4 5 3 CABLE CLAMPS 1 Heavy gauge steel, nickel plated. wide with No. 6 mounting hole. Fits 6 mountaine shown. 0 For 100 For 1000 For \$12.26 cable up to size show No. I.D. 10 For 12A1303 1/2" \$0.24 12A1304 1/4" .22 2.00 \$16.00 \$1.54 1.43 \$12.26 11.46 4.00 \$23.00 NYLON CABLE CLAMPS (2) NTLUM CABLE CLAMPS Hold their shape under severest stress. Stands temp. of —60 to 300 degrees F., do not support combustion. All are 3%" wide except %(" and larger are 4/2" wide —white color. ( **G-C BRASS** EYELETS Specify B-A No. 12A2355 & G-C No. G.C. Shank Length 100 G.C. No. Length Under Head 100 For 1000 Dia. For 1/8" 32" 32" 32" 32" 32" 32" \$0.37 7251 087 \$2.94 10 For 100 For 1000 For .49 3.92 No. ID. 087 \$0.36 .38 .42 \$2.44 2.58 2.83 12A1098 \$19.53 7253 1/8 .087 12A1081 12A1099 20.63 ×16' .123 68 5.46 7260 7 5.73 24.89 26.22 27.80 12A1255 12A1345 3.11 3.28 .45 .48 .51 .54 .82 %6″ 3∕8″ 5.73 .123 .71 ‰″ .145″ 7269 .182 42 3.36 χε" 1/2" χε" 5/8" 1241082 3.47 SPADE MTG. 3.69 5.54 5.82 $\bigcirc$ BOLTS 12A1346 12A1083 29.53 44.34 Cadmium Plated. 6-32 screw end. No. 12A1302, 10 For..40c 100 for..\$2.40 46.62 1241347 87 1000 For 1241084 3/4' 99 6.61 54.87 \$20.00 WALDOM PHENOLIC WIRE NUTS Solderless screw-on connectors for securely joining stripped ends of wire together. All are UL approved except (\*). Rated 300 volts except (†) 300-600 V. (1000 V. enclosed in fixtures). ures). Wire Combinations Maximum 100 For Stock 25 For 1000 Minimum For \$7.30 13.85 14.40 No. 12A1853\* No. Minimum Maximum 12A1853\* 2-#124 2-#18 12A1855\* 2-#18 3-#16 12A1855\* 1-#18 & 1-#16 5-#16 12A1855\* 1-#14 & 1-#18 2-#12 & 1-#18 12A1856 1-#14 & 1-#18 2-#12 & 1-#18 12A1857 1-#14 & 1-#18 3-#10 KIT 0F 169 WIRE NUTS above in compartmented plastic box. No. 12A1858. No. 12A1858. Waldom K210. Shpg. wt. 1 Ib. Per Kit..... \$0.85 1.65 1.65 27c 50c 51c 15.25 55c 1.75 3 20 27.70 96c \$2.74 S 0 $\bigcirc$ Ŀ 0 6 6 0 (D) (H) (B) (C) (E) (F) (C) (1)(J) (A) 100 Stk. No. 100 Stk. No. Type Lgth, Hole 1000 Type Lgth, Hole 1000 12A1286 12A1287 \$1.36 \$9.75 9.62 9.62 12A1294 12A1296 12A1297 \$1.20 2.00 \$9.60 16.00 88 Ĥ 10 10 1/4 4 B יאי 1% 12A1288 Ċ 8 1.34 2.50 20.00 1241289 ñ ă 1.20 9.60 7.50 12A1298 12A1299 1.28 1.28 1.28 10.20 17/ // 19/ 1/ 19/ 1/ 19/ 1/ 11/ 6/ 6 10.20 12A1290 Rivet 8.25 12A1293 1.16 12A1300 7/8 10.20 -8 1241291 1.16 8 25 FAHNESTOCK CONNECTORS 0 Con log Π 3 2 3 0 4 Positive contact clips, \*Bronze, All others are Brass, Avg. shpg. wt. 5 oz., per 100. Illus. Mfg 100 1000 Stock Max 10 No. Type Wd. Wire Hole Fig Lng. For For For 12A1089 12A1090 12A1091 12A927 #10 #14 #16 #16 #14 #12 2.00 1.80 3.40 \$18.00 3∕8″ #8 #6 \$0.25 \$ 3/4" 1 ½16" 1/2" ıó 3/8" .20 .36 .20 (2) (2) (3) \*15 18 #8 1/2" 1/2" 1/2" "X" 3/8" #4 #6 1.84 16.60 1.50 12A1093 12A1095 2.00 45 27.00 3/

### For all electronic, electrical and aircraft applications. Conforms to MiL-1-631D. ASIM-D876 and D922 specs. High delectric strength, non-flammable and resistant to oils and corrosion. Flexible from -20°C to + 105°C. Stocked in clear only. Available on special order in Black, White, Yellow, Red, Green colors. Minimum special order amount \$25.00. Wt. of Size 1 is 1.2 lb.

ALPHA PVC-105 PLASTIC TUBING



| Stock<br>No. | Size | I.D. | 25'<br>For | 50'<br>For | 100'<br>For | 250'<br>For    | 500'<br>For | 1000'<br>For |
|--------------|------|------|------------|------------|-------------|----------------|-------------|--------------|
| 2A8002       | 24   | .022 | \$0.81     |            | \$2.43      |                | \$8,80      | \$13.00      |
| 2A8003       | 22   | .027 | .81        |            | 2.44        |                | 8,85        | 13.10        |
| 2A8004       | 20   | .034 | .83        |            | 2.49        |                | 9.05        | 13.50        |
| 2A8005       | 19   | .038 | .85        |            | 2.55        |                | 9,30        | 13.50        |
| 2A8006       | 18   | .042 | .86        |            | 2.58        |                | 9,40        | 13.80        |
| 2A8007       | 17   | .047 | .87        |            | 2.61        | *******        | 9.55        | 14.00        |
| 248008       | 16   | .053 | .91        |            | 2.72        |                | 10.00       | 14.60        |
| 248009       | 15   | .059 | .93        |            | 2.80        |                | 10.35       | 14,90        |
| 248010       | 14   | .066 | .96        |            | 2.89        |                | 9.95        |              |
| 2A8011       | 13   | .076 | .98        |            | 2.94        |                | 10.20       |              |
| 2A8012       | 12   | .085 | 1.02       | ********   | 3.07        | *******        | 10.70       |              |
| 2A8013       | 11   | .095 | 1.05       |            | 3.15        |                | 11.05       |              |
| 2A8014       | 10   | .106 | 1.09       |            | 3.13        | *******        |             |              |
| 248015       | 9    |      |            |            |             | ********       | 11,55       |              |
| 248015       | 3    | .118 | 1.42       |            | 4.27        | ** - *** * * * | 15.70       |              |
| 2A8010       | 87   | .133 | 1.52       |            | 4.57        | *******        | 16.95       |              |
| 2A6017       |      | .148 | 1.61       |            | 4.84        |                | 18.10       |              |
|              | 6    | .166 | 1.73       |            | 5.19        |                | 19,55       |              |
| 2A8019       | 5    | .186 | 1.86       |            | 5.58        | ********       | 21,15       |              |
| 248020       | 4    | .208 | 2.00       |            | 6.00        | 13.75          |             |              |
| 2A8021       | 3    | .234 | 2.13       |            | 6.38        | 14.70          |             |              |
| 2A8022       | 2    | .263 | 2.30       |            | 6,91        | 16.03          | *           |              |
| 2A8023       | 1    | .294 | 2.43       |            | 7.42        | 17.32          | *           | *            |
| 2A8024       | %"   | .312 | 2.48       |            | 9.42        | 22.30          | *           | +            |
| 2A8025       | 0    | .330 | 2.66       |            | 7.96        | 18.70          | *           | +            |
| 2A8026       | 3/8″ | .375 | 2,83       |            | 10.81       | 25.78          | *           |              |
| 2A8027       | ×4″  | .438 | 3.15       |            | 11.58       | *              | *           | *            |
| 2A8028       | 1/2" | .500 | 3.44       |            | 12.77       | +              |             | *            |
| 2A8029       | ×."  | .562 | 4.50       |            | 17.00       | *              | +           |              |
| 2A8030       | 5/8" | .625 | 4.85       |            | 18.38       | +              | +           |              |
| 2A8031       | 3/4" | .750 | 6.95       | 12.67      | *           | +              |             |              |
| 2A8032       | 7/8" | .875 | 7.38       | 14.25      | *           |                |             |              |

### ALPHA HEAT SHRINK TUBING FIT-221 IRRADIATED POLYEFIN TUBING

Application of 225° to 255° F, heat shrinks tubing 50% In diameter, only 5% in length within 7 seconds. Use heat gun below for fastest shrinkage. Insulates conbectors, splices, terminal lugs, tool handles. Excellent resistance to oil, solvent and flame. 4 Ft. standard factory length. We cut to 1 Ft. length for shipping unless you specify 4 Ft.

|                                                                                                                                                              | Spec             | ify Stock No.         | 2A8001 and        | Size when ord  | lering            |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------|-------------------|----------------|-------------------|---------|
| Size                                                                                                                                                         | Original<br>1.D. | J.D. After<br>Heating | Wall<br>Thickness | Per<br>Foot    | Net per<br>20 Ft. | 100 Ft. |
| X4"<br>X4"<br>X2"<br>X8"<br>X6"<br>X6"<br>X6"<br>X6"<br>X6"<br>X6"<br>X6"<br>X6"<br>X6"<br>X4"<br>X4"<br>X4"<br>X4"<br>X4"<br>X4"<br>X4"<br>X4"<br>X4"<br>X4 | .046             | .023                  | .016              | \$0.18         | \$3.04            | \$13,80 |
| X."                                                                                                                                                          | .063             | .031                  | .017              | .20            | 3.21              | 14.60   |
| 3."                                                                                                                                                          | .093             | .046                  | .020              | .21            | 3.72              | 16.90   |
| 1/8"                                                                                                                                                         | .125             | .062                  | .020              | .22            | 3.94              | 17.90   |
| X4"                                                                                                                                                          | .187             | .093                  | .020              | .30            | 4.82              | 21.90   |
| 1/4"                                                                                                                                                         | .250             | .125                  | .025              | .36            | 6.07              | 27.60   |
| 3/8/1                                                                                                                                                        | .375             | .187                  | .025              | .45            | 6.73              | 30.60   |
| 1/2"                                                                                                                                                         | .500             | .250                  | .025              | .51            | 6.90              |         |
| 3/4"                                                                                                                                                         | .750             | .375                  | .030              | .60            | 9.25              |         |
| 1″                                                                                                                                                           | 1.00             | .500                  | .035              | .90            | 13.00             |         |
| No. 16                                                                                                                                                       | A1152 Catalog    | of Alpha Tubi         |                   | sories FREE on |                   |         |
|                                                                                                                                                              |                  |                       |                   | UR INDUSTRIAL  |                   |         |

6-INCH FIT-221 SHRINK TUBING ASSORTMENTS

| Stock<br>No. | Alpha<br>No. | Tubing Size<br>Range | Lengths in<br>Package | Per<br>Package |
|--------------|--------------|----------------------|-----------------------|----------------|
| 2A8035       | FIT221 MS-1  | ‰" thru ‰"           | 30                    | \$4,00         |
| 2A8036       | FIT221 MS-2  | 1/4" thru 3/4"       | 16                    | 8.00           |
| 2A8037       | FIT221 MS-3  | 1" thru #4           | 10                    | 7.00           |

### MASTER APPLIANCE HEAT GUN



See Page 137 For Additional Mounting Hardware

## BELDEN WIRE AND CABLE

|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  | _                                                                                                                                                |                                                                                 | ••                                                                                                                   |                                                                              |                                                                                             |                                                                                                             | 12                                                                  |                                                                                                                       |                                                                                               |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| M                                                                                                        | 11L-W-                                                                                                                                                                                                                                                                                                                                                           | 76 TY                                                                                                                                            |                                                                                 |                                                                                                                      |                                                                              |                                                                                             |                                                                                                             |                                                                     |                                                                                                                       |                                                                                               |
|                                                                                                          | and the second second                                                                                                                                                                                                                                                                                                                                            | (                                                                                                                                                | easi<br>Yello                                                                   | ly and clow, Green                                                                                                   | :-80°C.<br>Iean. Spe<br>, Light Bl<br>Red, Greei                             | cify Color<br>lue, Violet                                                                   | : Brown<br>, Gray,                                                                                          | n <b>, Red,</b><br>White of                                         | Orange,                                                                                                               | - [8]e                                                                                        |
| Stock<br>No.<br>2 B13<br>2 B14<br>2 A32<br>2 B7<br>2 B15<br>2 B67*<br>2 B68*<br>2 B69*<br>2 B34<br>2 A36 | No.         St           8525         24           8525         24           8524         22           8523         20           8522         18           8521         10           8520         14           8520         14           8520         14           8523         20           8538         24           8530         22           8529         20 | AWG &<br>randing<br>4 (7X32)<br>2 (7X30)<br>0 (16X30)<br>3 (16X30)<br>5 (26X30)<br>4 (41X30)<br>2 (65X20)<br>4 (Solid)<br>2 (Solid)<br>3 (Solid) | 0.0.                                                                            | Insulation<br>Thickness<br>.017<br>.017<br>.017<br>.017<br>.019<br>.02<br>.02<br>.02<br>.017<br>.017<br>.017<br>.017 | Wt.                                                                          | 25 Ft.                                                                                      | 100 Ft.<br>Length<br>\$1.41<br>1.54<br>1.75<br>2.21<br>2.95<br>4.20<br>5.99<br>1.34<br>1.29<br>1.54<br>1.95 |                                                                     | 1000 Ft.<br>Length<br>\$ 8,98<br>10.55<br>11.92<br>16.38<br>23.00<br>35.44<br>49.61<br>7.25<br>8.19<br>10.24<br>13.97 | Stock B<br>No.<br>2A101<br>2A102<br>2A104<br>2C197<br>2A78<br>2A79<br>2A105<br>2A105<br>2A106 |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  | 16878                                                                                                                                            | TY                                                                              |                                                                                                                      |                                                                              |                                                                                             |                                                                                                             | 105°                                                                | <b>C.</b>                                                                                                             | NE                                                                                            |
| green,<br>Stock<br>No.<br>2C151<br>2C152<br>2C153<br>2C154<br>2C155                                      | yellow, b<br>Beiden<br>No. Si<br>8500 10<br>8501 12<br>8502 20<br>8503 22<br>8503 22<br>8504 24<br>tocked in                                                                                                                                                                                                                                                     | stranded.<br>lue, brown<br>AWG &<br>tranding<br>6 (19x29)<br>8 (7x26)<br>0 (7x28)<br>2 (7x30)<br>4 (7x32)<br>solid cotor<br>6 (7x34)             | 0.0.<br>0.0.<br>1nch<br>.077<br>.068<br>.058<br>.050<br>.044                    | Solid w<br>ge, gray<br>Insulation<br>Thickness<br>.01<br>.01<br>.01<br>.01<br>.01<br>.01<br>.01<br>.01               | or violet.<br>Wt.<br>1000'<br>10<br>8<br>5<br>4<br>3                         | white st<br>Please s<br>100 Ft.<br>Length<br>\$2.51<br>2.08<br>1.92<br>1.72<br>1.60<br>1.47 | pecify (<br>50<br>Lei<br><br>6<br>5                                                                         | vith blac<br>color.<br>0 Ft.<br>ngth<br><br>.46<br>.67<br>.51       | ck, red,<br>Length<br>\$19.64<br>15.86<br>12.86<br>11.60<br>10.76<br>10.24                                            | Stock<br>No.<br>28422<br>28423                                                                |
| Т                                                                                                        | YPE E                                                                                                                                                                                                                                                                                                                                                            | -MIL-1                                                                                                                                           | N-16                                                                            | 5878                                                                                                                 | TEFLO                                                                        | ON 60                                                                                       | o v.                                                                                                        | 200                                                                 | ° C                                                                                                                   | BI                                                                                            |
| Stock                                                                                                    | Belde                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  | duc<br>.010<br>Grei<br>WG                                                       | )". Spec<br>en, Light<br>0.0                                                                                         | ruded TF<br>ify Color:<br>Blue, Gr<br>). Wt.                                 | E Teflor<br>Brown,<br>ay, White<br>100                                                      | n insul<br>Red,<br>or Blac<br>5                                                                             | ation ti<br>Orange,<br>:k.<br>i <b>00</b>                           | er con-<br>hickness<br>Yellow,<br>1000<br>Ft.                                                                         | STATE OF                                                                                      |
| No.<br>2A409<br>2A410<br>2A411<br>2A412<br>2A413<br>2A414<br>2A415<br>2A416                              | No.<br>8300<br>8300<br>8300<br>8300<br>8300<br>8300<br>8300<br>830                                                                                                                                                                                                                                                                                               | 0 30 (<br>1 28 (<br>2 26 (<br>3 24 (<br>4 24 (<br>5 22 (<br>6 22 (                                                                               | (7x38)<br>(7x36)<br>(7x36)<br>(19x36)<br>(7x32)<br>(7x30)<br>(19x34)<br>(19x32) | Inc<br>.03<br>.03<br>.04<br>.04<br>.04<br>.04<br>.05<br>.05<br>.05                                                   | 3 1<br>6 2<br>6 3<br>5 3<br>1 4<br>2 4                                       | Ft. Ft.<br>\$3.78<br>3.94<br>4.36<br>5.46<br>4.57<br>5.46<br>5.99<br>7.25                   | \$1<br>1<br>2<br>1<br>2<br>2                                                                                | Ft.<br>3.16<br>3.86<br>5.68<br>0.61<br>6.54<br>0.09<br>2.58<br>6.78 | \$24.73<br>26.15<br>29.77<br>40.16<br>31.50<br>38.59<br>43.58<br>51.98                                                | retracts<br>29B249<br>4 CONI<br>strande<br>29B251                                             |
|                                                                                                          | PRII                                                                                                                                                                                                                                                                                                                                                             | MARY                                                                                                                                             | WIF                                                                             |                                                                                                                      | MARI                                                                         |                                                                                             | ND A                                                                                                        | UTO                                                                 |                                                                                                                       | Spade 1<br>Size 23                                                                            |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  | Stra<br>16 (1<br>14 (1<br>12 (1<br>10 (1                                                                                                         |                                                                                 | voltage                                                                                                              |                                                                              | mobile e<br>r 11<br>k<br>n<br>e                                                             | Wt.<br>DO Ft.                                                                                               | 25<br>Ft.<br>\$0.79<br>1.05<br>1.58<br>2.10<br>4.20                 | 100<br>Ft.<br>\$ 2.73<br>3.57<br>5.04<br>7.09<br>14.49                                                                | 1/2 lb.<br>2A401.<br>2A402.<br>BEI<br>No. 2B<br>Stocked<br>25 Ft.                             |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  | SHI                                                                                                                                              | ELD                                                                             | ED H                                                                                                                 | DOK-U                                                                        | I <mark>P WI</mark><br>brissi                                                               |                                                                                                             | tinned                                                              | copper                                                                                                                | No. 2A1<br>Stocked                                                                            |
| 100 F<br>500 F                                                                                           | t. Coil<br>t. Spool                                                                                                                                                                                                                                                                                                                                              | t. Coil                                                                                                                                          |                                                                                 | 8685<br>\$ 1.58<br>4.73<br>22.05                                                                                     | stranded<br>coated<br>tinned                                                 | tor 15 Si<br>10/30; r<br>cellulose<br>copper br<br>D. Wt. 10                                | ubber in<br>acetate<br>aid shi<br>D', 2 Ibs                                                                 | yarn b<br>eld are                                                   | Lacquer<br>raid and<br>over-all.                                                                                      | 25 Ft.                                                                                        |
| tinned<br>cellula<br>copper<br>vinyl j                                                                   | copper a<br>r polyeth<br>spiral                                                                                                                                                                                                                                                                                                                                  | 25<br>nd 4 tinn<br>hylee ins<br>wrapped<br>10" O.D. 1                                                                                            | den 84<br>(7x33)3<br>ed Cop<br>ulated,<br>shield,<br>Vt. 100                    | 21. Size<br>strands<br>perweld.<br>tinned<br>chrome                                                                  | copper,<br>per brai<br>or hooku<br>2A137.                                    | or is size<br>black vin<br>d shield<br>ip105"                                               | BE<br>18 (16x<br>yl insula<br>overall.<br>0.D. Wt.                                                          | ited, tin<br>Ideal fo<br>100' 2 I                                   | 8882<br>e tinned<br>ned cop-                                                                                          | Strande<br>Vinyl ii<br>Stk. No<br>2A186<br>2A187<br>2A191                                     |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  | )                                                                                                                                                | Extre                                                                           |                                                                                                                      | OD W                                                                         | /IRE                                                                                        | wire.                                                                                                       | Conduct                                                             | tors are                                                                                                              |                                                                                               |
| No.<br>2864<br>2077<br>2880                                                                              | No.<br>8899 1<br>8898 1<br>8890 2                                                                                                                                                                                                                                                                                                                                | tocked in<br>Cond.<br>Size<br>8 (65x36)<br>8 (65x36)<br>4 (45x40)<br>ach of Red                                                                  | tinner<br>tion<br>red ar<br>0.0.<br>.144<br>.230<br>.066                        | d copper<br>overall,<br>nd black<br>Brkdwn,<br>Vitg,<br>20 KV<br>29 KV<br>10 KV                                      | stranded<br>8899 sto<br>only. Spe<br>Wrkg.<br>Vitg.<br>5 KV<br>10 KV<br>1 KV | cotton v<br>cked in                                                                         | vrap an<br>red, bl                                                                                          | d rubber<br>ack, gre<br>Ft.<br>\$4.10<br>5.67                       | r insula∙                                                                                                             | Stk. No<br>2A28<br>2A408                                                                      |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  | HIG                                                                                                                                              | ΗV                                                                              |                                                                                                                      | GE CF                                                                        |                                                                                             |                                                                                                             |                                                                     |                                                                                                                       |                                                                                               |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  | 60                                                                                                                                               |                                                                                 | ex                                                                                                                   | r replacer<br>perimenta<br>sulated. R                                        | I projects                                                                                  | s, Tinne                                                                                                    | d coppe                                                             |                                                                                                                       | Stock<br>No.<br>2A26                                                                          |
| Stock<br>No.<br>2A261<br>2A406                                                                           | Belden<br>No.<br>8868<br>8866                                                                                                                                                                                                                                                                                                                                    | AWG<br>Stran<br>22 (7x<br>18 (41                                                                                                                 | ding<br>(30)                                                                    | <b>0.0.</b><br>.150<br>.208                                                                                          | Working<br>Voltage<br>25,000<br>40,000                                       | g Breakt                                                                                    | lown<br>Ige<br>100                                                                                          | 25<br>Ft.<br>\$1.25<br>2.05                                         | 100<br>Ft.<br>\$3.08<br>5.83                                                                                          | 2A404<br>2A407<br>2A27<br>2A112<br>2A91                                                       |
|                                                                                                          | 5                                                                                                                                                                                                                                                                                                                                                                | Tank Tank                                                                                                                                        | ر<br>ددن                                                                        |                                                                                                                      | SOUN<br>OR SF                                                                | D SYS                                                                                       |                                                                                                             |                                                                     |                                                                                                                       |                                                                                               |
| Stock<br>No.<br>2C192<br>2B54<br>2B55                                                                    | Beide<br>No.<br>8492<br>8483                                                                                                                                                                                                                                                                                                                                     | Size<br>22<br>19                                                                                                                                 | Cond<br>2<br>2<br>3                                                             | Solid                                                                                                                | l conducto<br>Wt. Per<br>100'<br>1 Lb.<br>2 Lbs.<br>2 Lbs.<br>2 Lbs.         | or wire, tv<br>2<br>F<br>\$0.<br>1.                                                         | visted, (<br>5<br>t.                                                                                        |                                                                     |                                                                                                                       | C                                                                                             |
| 140                                                                                                      | 5.00                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                  | Ŧ                                                                               |                                                                                                                      |                                                                              | tein-An                                                                                     |                                                                                                             |                                                                     | 3100 M                                                                                                                | lercier                                                                                       |

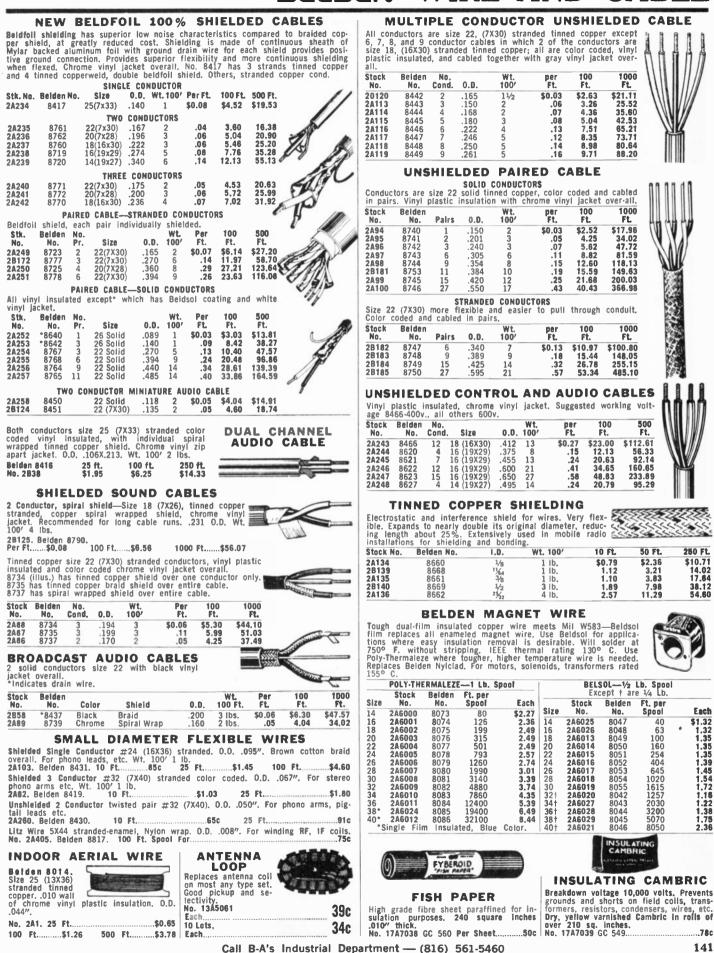
140

### MICDODHONE CARLES

| Designed to withstand the floring and normal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Designed to withstand the flexing and normal<br>abuse of studio, lab and home usage. Plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Belden finter jacket cables have polyethylene insulated con-<br>ductors, rubber jacket cables have rubber in-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| sulated conductors.<br>CHROME VINYL PLASTIC JACKET OVERALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Stock         Belden         No.         AWG & Cap.         Lbs.         25         100         1000           No.         No.         Cond.         0.0.         Use         Stranding         Per Ft.         100'         Ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2A102 8411 1 .144 Lapel Mike 25 (7x33) 37 Pf. 2 1.48 4.41 37.59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2A104         8422         2         .231         Low Imp.         22 (16x34)         32 Pf.         4         2.55         8.24         73.08           2C197         8404         4         .255         Low Imp.         20 (26x34)         45 Pf.         6         3.99         11.97         110.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| BLACK RUBBER JACKET OVERALL<br>2A78 8410 1 .245 Hi Imp. 25 (7x33) 33 Pf. 4 3.15 10.24 95.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>2A79</b> 8412 2 .268 Low Imp. 20 (26x34) 68 Pf. 5 <b>3.26 11.29 103.79 2A105</b> 8423 3 .277 Low Imp. 20 (26x34) 85 Pf. 6 <b>4.39 13.18 122.54</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2A106 8424 4 .295 Low Imp. 20 (26x34) 95 Pf. 7 4.94 14.81 139.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| NEW BELDEN HYPALON JACKET MIKE CABLES<br>For Extra heavy duty service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Especially designed for studio applications. Highly resistant to heat impact abrasion Extra resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| to sunlight, ozone, water, oil and chemicals, makes<br>it suitable for outdoor applications. Brown color<br>DuPont Hypalon jacket blends readily with back-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| DuPont Hypalon jacket blends readily with back-<br>grounds. Useful for shielded power cables up to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 600V.<br>Stock Belden No. AWG & Cap. Per 100 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| No. No. Cond. 0.0. Stranding Per Ft. Ft. Ft. Ft. Ft. 24422 8402 2 .268 20 (26x30) 68 Pf. \$0.15 \$12.76 \$29.77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>2A423</b> 8408 2 .385 16 (65x34) 56 Pf26 21.89 51.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| BELDEN RECTRACTILE (COILED) MIKE CORDS<br>BLACK NEOPRENE JACKET WITH RUBBER INSULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SINGLE CONOUCTOR with spiral tinned copper shield.<br>Size 24 (45x40) stranded for extra flexibility. Length-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4 ft., retracts to 7½ inches. Dia160". Wt. ½ ibs.<br>298247. Belden 8499. Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3 CONOUCTOR with Beldfoil shield with drain wire on<br>one conductor. Size 23 (21x36) stranded. Length-6 ft.,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| retracts to 111/2 inches. Dia. 250". Wt. 1/2 lb.<br>298249. Belden 8497. Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4 CONDUCTOR unshielded. Length—6 ft., retracts to 11½ inches. Size 23 (21x36) stranded. Dia250". Wt. $\frac{1}{2}$ lbs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 29B251. Belden 8415. Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| BELOEN RETRACTILE (COILEO) TELEPHONE CORDS<br>Spade terminals each end, strain relief one end. Vinyl insulated. Black vinyl jacket.<br>Size 23 (21x36) stranded. Unshielded. Length—4½ ft., retracts to 10 inches. Wt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1/2 lb.<br>2A401. Belden 8495. 3 Conductor: Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2A402. Belden 8494. 4 Conductor. Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| BELDEN 2-WIRE SPEAKER & INTERCOM CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Stranded copper parallel conductor, coded, 1-tinned, 1-copper.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Zip apart vinyl insulation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Zip apart vinyl insulation.<br>No. 2B19. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs.<br>Stocked in Chrome, Sand, White and Clear—Specify Choice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| No. 2B19. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs.           Stocked in Chrome, Sand, White and Clear—Specify Choice.           25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| No. 2B19. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs.           Stocked in Chrome, Sand, White and Clear—Specify Choice.           25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| No. 2B19. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs.<br>Stocked in Chrome, Sand, White and Clear—Specify Choice.<br>25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| No. 2B19. Belden 8782. Size 24 (7X32)058 x .115 0.D. Wt. per 1000 ft. 6 lbs.           Stocked in Chrome, Sand, White and Clear—Specify Choice.           25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| No. 2819. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs.         Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| No. 2819. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs.         Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| No. 2B19. Belden 8782. Size 24 (7X32)058 x .115 0.D. Wt. per 1000 ft. 6 lbs.           Stocked in Chrome, Sand, White and Clear—Specify Choice.           25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| No. 2819. Belden 8782. Size 24 (7X32)058 x .115 0.D. Wt. per 1000 ft. 6 lbs.         Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Standed copper jaraner conductor, coded, Frinked, Federer, 210 apart vinyl insulation.         No. 2819. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs. Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Standed copper javalier conductor, coded, Frinked, Fedeper, zip apart vinyl insulation.         No. 2819. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs. Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standed copper jaraner conductor, coded, Frinked, Fedeper, zip apart vinyl insulation.         No. 2B19. Belden 8782. Size 24 (7X32)058 x .115 0.D. Wt. per 1000 ft. 6 lbs. Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Xiandee Coupler javaler conductor, coded, Frinked, Federer, Sinandee Coupler, Junked, Federer, Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Standed copper jaraner conductor, coded, Frinked, Federer, Sinaker Conductor, coded, Frinked, Federer, Federer, Stocked in Chrome, Sand, White and Clear—Specify Choice.         No. 2819. Belden 8782. Size 24 (7X32)058 x .115 0.D. Wt. per 1000 ft. 6 lbs.         Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Standed copper javalier conductor, coded, Frinklad, Federper zip apart vinyl insulation.         No. 2819. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs. Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Stranded copper paraller conductor, coded, Frinkla, Fedeper, zip apart vinyl insulation.         No. 2B19. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs. Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Standed copper paraller conductor, coded, Frinkla, Fedeper, zip apart vinyl insulation.         No. 2B19. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs. Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standed copper parallel conductor, coded, Frinked, Fedeper Zip apart vinyl insulation.         No. 2B19. Belden 8782. Size 24 (7X32)058 x .115 0.D. Wt. per 1000 ft. 6 lbs. Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standed copper parallel conductor, coded, frimmed, recorper zip apart vinyl insulation.         No. 2B19. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs. Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standed copper parallel conductor, coded, Frinkla, Fedeper, zip apart vinyl insulation.         No. 2B19. Beiden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs. Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standed copper paraller conductor, coded, Frinked, Fedeper zip apart vinyl insulation.         No. 2819. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs. Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sinaloge Cyper paraller conductive, coded, remited, redsperivity         Xip apart vinyl insulation.         No. 2B19. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs.<br>Stocked in Chrome, Sand, White and Clear—Specify Choice.         25 Ft. For       .76c 100 Ft.       \$11.30         No. 2A16. Belden 8649. Size 20 (17x28)073 x.146 0.D. Wt. per 1000 ft. 11 lbs.<br>Stocked in Chrome and Clear—Specify Choice.       \$1.31         25 Ft. For       \$1.04       100 Ft.       \$1.843 <b>CONDUCTOR UNSHIELDED</b><br>AUDIO CABLE         Stranded, color coded and cabled. Ideal for most audio or speaker installations.<br>Vinyl insulated with chrome vinyl jacket overall.         Stk. No. Belden AWG & Stranding 0.0. Wt. 100' Per Ft. 100 Ft.<br>2A186 8205 20 (10x30) .190 2 lbs. \$0.04 \$3.26         Colspan="2">Standed RVG & Stranding 0.0. Wt. 100' Per Ft. 100 Ft.<br>2A187 8461 18 (7x26) .226 4 lbs06 \$1.15         BELDEN PARALLEL LAMP CORD         Two fiexible stranded 18 (41x34) copper con-<br>ductors. Brown color, U.L. listed. Wt. 3 lbs.<br>per 100', Maximum spool size 250 ft.         Stk. No. Belden No. AWG & Stranding 0.0. 25' 100' 250' 1000'<br>2A28 18112 Rubber 18 SP-1(41x34) .110x.213 \$1.47 \$4.48 \$9.979 \$366.42<br>2A408 1B122 Plastic 18 SP-1(41x34) .110x.213 \$1.47 \$4.48 \$9.979 \$366.42<br>2A408 1B122 Plastic 18 SP-1(41x34) .110x.213 \$1.47 \$4.48 \$9.979 \$366.42<br>2A408 1B122 Plastic 18 SP-1(41x34) .110x.213 \$1.47 \$4.48 \$4.56 \$31.11         Stranded Cond. Type 0.0. 100' Ft. Ft. Ft. Ft.<br>Pi. 0. No. Stranded Cond. Type 0.0.                                                                                                                                                                                                                                                                                                                                           |
| Sinalode Conductor, Coded, Felder, Federer, Federer, Sinalode Conductor, Coded, Felder, Federer, Sinalode Conductor, Coded, Felder, Federer, Sinalode Conductor, Coded, Felder, Sederer, Sinalode, Color Coded, White and Clear-Specify Choice.         25 Ft. For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Signaded cyper parallel conductor, coded, remited, redsperi-<br>zip apart vinyl insulation.       Non, 2819. Belden 8782. Size 24 (7X32)058 x.115 0.D. Wt. per 1000 ft. 6 lbs.<br>Stocked in Chrome, Sand, White and Clear—Specify Choice.       \$1.73       1000 Ft.       \$11.50         No. 2A16. Belden 8649. Size 20 (17x28)073 x.146 0.D. Wt. per 1000 ft. 11 lbs.<br>Stocked in Chrome and Clear—Specify Choice.       \$1.75       1000 Ft.       \$18.43         Image: Comparison of the |

Burstein-Applebee Co., 3199 Mercier, Kansas City, Mo. 64111

## BELDEN WIRE AND CABLE



# **COAXIAL CABLE & CONNECTORS**

### ESSEX INTERNATIONAL COAX CABLE Highest quality coax cable used for com-FORMERLY AMPHENOL

Ingliest duality coar calle used for children mercial, amateur, military or citizens band transmitting or receiving. Eliminates "stray" fields and confines signal within cable. Vinyl jacket overall for temperatures from -40° C to +80° C, but remains flexible and is impervious to most acids, oils, alkalis and gasoline. Polyethylene insulation over center conductor provides low loss and mechanical stability. Mfg. to MIL C-17 Spec.

| Stock<br>No. | Military<br>AN No. | imp.<br>Ohms | 0.D. | Cap.<br>Pf Ft. |          | Lb. W<br>C Ft. |        | 100<br>Ft. | 1000<br>Ft. |
|--------------|--------------------|--------------|------|----------------|----------|----------------|--------|------------|-------------|
| 2W21-004     | RGBU               | 52           | .405 | 29.5           | 7X21     | 11             | \$0.14 | \$12.75    | \$108.08    |
| 2W21-290     | RG8A/U             | 50           | .405 | 29.5           | 7X21     | 11             | .14    | 13.20      | 127.50      |
| 2W21-007     | RG11Ú              | 75           | .405 | 20.5           | 7X26     | 10             | .13    | 11.93      | 95.03       |
| 2W21-024     | RG58U              | 53.5         | .195 | 28.5           | #20      | 3              | .05    | 4.65       | 34.50       |
| 2W21-199     | RG58A/U            | 50           | .195 | 30             | 19X.007" | 3              | .06    | 5.40       | 41.25       |
| 2W21-316     | RG58C/U            | 50           | .195 | 30             | 19X.007" | 3              | .06    | 5.55       | 44.25       |
| 2W21-025     | RG59U              | 73           | .242 | 21.5           | #22      | 4              | .06    | 5.48       | 39.98       |
| 2W21-794     | RG59B/U            | 75           | .242 | 21             | .023"    | 4              | .06    | 5.87       | 50.18       |
| 2W21-026     | RG62U              | 93           | .242 | 13.5           | #22      | 4              | .06    | 5.85       | 45.00       |
| 2W21-598     | RG174U             | 50           | .100 | 30             | 7X34     | 1              | .04    | 3.30       | 26.95       |
| 2W21-597     | Sub Minax          | 75           | .150 | 20             | 7X.0056  | 2              | .05    | 4.58       | 36.75       |

### ESSEX CATV POLYFOAM CABLE

ESSEA CATY FOLLIFORM Control C

.\$4.60 Ft. ... No. 2C123. Per Ft..... ...\$43.00

"BLITZ BUG" COAX CABLE LIGHTNING ARRESTOR

Added lightning protection for receiving and transmitting equipment, ham gear, citizens band transceivers etc. using 52 ohm or 72 ohm coaxial ontenna lead.

Threaded for standard PL259 and SO239 fittings. Shpg. wt. 1 lb. No. 10A3001.

Cush Croft LAC-1. Net Each .... \$3.95

### **COPPERWELD ANTENNA WIRE**

Tensile strength 3 times that of ordinary copper. Minimum stretch or sag. Electrical properties are the same as copper at high frequencies. Enameled type is non-corrosive. All are solid conductors.

| 0.0 00.0 |       |         | B        | ARE        |         |           |         |
|----------|-------|---------|----------|------------|---------|-----------|---------|
| Stk.     | Size  | 100     | / Coil   | 250/       | Coil    |           | Coil    |
| No.      | (AWG) | Wt.     | Each     | Wt.        | Each    | Wt.       | Each    |
| 2844     | 10    | 3 lbs.  | \$4,41   | 7 Ibs,     | \$10.49 | 14 lbs.   | \$20.86 |
| 2845     | 12    | 2 lbs.  | 3.39     | 5 lbs.     | 8.03    | 9 lbs.    | 13.86   |
| 2848     | 14    | 1 lb.   | 2.92     | 3 lbs.     | 6.30    | 6 lbs.    | 10.32   |
| 2847     | 18    | 4⁄2 ib. | 1.07     | 11⁄2 lbs.  | 2.21    | 3 lbs.    | 4.02    |
|          |       |         | ENAMELED | COPPERWELD |         |           |         |
| 2850     | 12    | 2 lbs.  | 4.41     | 44/2 lbs.  | 10.71   | 9 lbs.    | 20.40   |
| 2851     | 14    | 1¼ lbs. | 3.23     | 3 lbs.     | 6.86    | 53/4 lbs. | 13.63   |

### **COPPER ANTENNA WIRE**

Excellent for antenna requirements; as bus bar hookup wire; for winding colls, etc. Poly-Thermaleze type is non-corrosive.

| SOLID COPPER                |                    |                                     |                                           |                                   |                            |                                              | SOLID BRIGHT TINNED                          |                                  |      |                                       |                                           |      |
|-----------------------------|--------------------|-------------------------------------|-------------------------------------------|-----------------------------------|----------------------------|----------------------------------------------|----------------------------------------------|----------------------------------|------|---------------------------------------|-------------------------------------------|------|
|                             | POLY-TH            | ERM/                                | LEZE                                      | INSULATI                          | ON                         | Stock                                        | Belden                                       | 1                                | Wt.  | 25                                    | 100                                       | 1000 |
| Stoc                        | k Belder           | 1                                   | Wt.                                       | 100                               | 500                        | No.                                          | No.                                          | Size                             | 100/ | Ft.                                   | Ft.                                       | Ft.  |
| No.                         | No.                | Size                                | 100/                                      | Ft                                | FL                         | 2A10                                         | 8011                                         | 12                               | 2    | \$1.34                                | \$4.04                                    | \$   |
| 2A12                        | 8008               | 12                                  | 2 lbs.                                    | \$4.73                            | \$20,79                    | 2A37                                         | 8012                                         | 14                               | 2    | .89                                   | 2.68                                      |      |
| 2842                        | 8009               | 14                                  | 2 lbs.                                    | 2.99                              | 12.13                      | 2A39                                         | 8013                                         | 16                               | 1    | .56                                   | 1.82                                      |      |
|                             |                    |                                     |                                           |                                   |                            | 2A41                                         | 8019                                         | 18                               | 1    | .42                                   | 1.26                                      | 9.45 |
|                             |                    | STRAI                               | NDED                                      | BARE                              |                            | 2B52                                         | 8020                                         | 20                               | 1    | .33                                   | .98                                       | 6.72 |
| No.                         | 2A43. B            | elden                               | 8002                                      | Size 16                           | (7X24)                     | 2B53                                         | 8021                                         | 22                               | 1    | .27                                   | .82                                       | 4.88 |
| Stra                        | nded. W            | t. 10                               | 0'1                                       | lb.                               | . ,                        | 2B73                                         | 8022                                         | 24                               | 1    | 27                                    | .81                                       | 4.16 |
| 100                         | Ft                 |                                     |                                           |                                   | \$1.73                     | 2875                                         | 8023                                         | 26                               | 1    | .26                                   | .79                                       | 3.73 |
| 2A12<br>2A42<br>No.<br>Stra | 2A43. B<br>nded. W | 12<br>14<br>STRAI<br>elden<br>t. 10 | 2 lbs.<br>2 lbs.<br>NDED<br>8002.<br>0' 1 | \$4.73<br>2.99<br>BARE<br>Size 16 | \$20,79<br>12,13<br>(7X24) | 2A37<br>2A39<br>2A41<br>2B52<br>2B53<br>2B73 | 8012<br>8013<br>8019<br>8020<br>8021<br>8022 | 14<br>16<br>18<br>20<br>22<br>24 |      | .89<br>.56<br>.42<br>.33<br>.27<br>27 | 2.68<br>1.82<br>1.26<br>.98<br>.82<br>.81 | 4.16 |

### ANTENNA KIT

5-9 Each ... 25-49 Each





.62c



UHF SINGLE CONTACT CONNECTORS (8) Most popular screw-on coaxial connector series. Used extensively for RF power transmission lines in amateur, CB and commercial services. Items with \* are female connectors mating with all plugs in same series, Fig. 2 reducers are for use with Fig. 1 plug. Fig. 4 hoods provide fully shielded line connection to rear of Fig. 3 socket.

| Fig.       | Stock<br>No.       | Amphenol<br>No.  | Military<br>No.   | Description                         | For<br>RG<br>Cable | 1-<br>24<br>Each | 25-<br>99<br>Each | 100-<br>499<br>Each |
|------------|--------------------|------------------|-------------------|-------------------------------------|--------------------|------------------|-------------------|---------------------|
| 9          | 12A1914<br>12A1915 | 83-ISP<br>83-776 | PL-259<br>UG-203U | Cable Plug<br>Cable Plug            | 8, 11<br>58        | \$0.59<br>1.53   | \$0.49            | \$0.41<br>1.05      |
| ũ          | 12A2307            | 83-750           | UG111U            | Cable Plug                          | 59, 62             | .96              | .79               | .66                 |
| 2          | 12A1916<br>12A1917 | 83-168<br>83-185 | UG176U<br>UG175U  | .257" I.D. Reducer                  | 59, 62<br>58       | .18<br>.18       | .15<br>.15        | .12<br>.12          |
| ğ          | 12A1918            | 83-1R            | SO-239*           | Panel Receptacle                    | 8, 11              | .55<br>.45       | .46<br>.37        | .38<br>.31          |
| (4)<br>(4) | 12A1957<br>12A1958 | 83-1H<br>83-765  | UG106U<br>UG177U  | .345" I.D. Hood<br>.155" I.D. Hood  | 58                 | .41              | .33               | .28                 |
| Š          | 12A1959<br>12A1962 | 83-1AP<br>83-1J  | UG646U<br>PL-258* | Right Angle<br>Double Female Adapt. |                    | 1.68             | 1.38              | 1.15                |
|            | 12A1963<br>12A1964 | 83-1F<br>83-1T   | UG363             | Feed Thru<br>Tee                    |                    | 2.65<br>2.95     | 2.18<br>2.42      | 1.83<br>2.03        |
|            |                    |                  |                   | TA .                                | Í                  |                  | 1                 | Aller -             |
| ۲          | (10)               | (12              |                   |                                     | 15                 | 16               | (17)              | 1                   |

TYPE "BNC" CONNECTORS Fast Bayonet style especially suited for smaller RG58 and RG59 coax cables. Fig. 16 and 17 are "between series" adapters providing greater convenience where small coax is used with equipment having UHF or N style receptacles. (\*) Female connectors mating with all plugs in same series.

| Fig.         | Stock<br>No. | Amphenol<br>No. | Military<br>No. | Description               | For RG<br>Cable | 1-24<br>Each | 2 <b>5-99</b><br>Each | 499<br>Each |
|--------------|--------------|-----------------|-----------------|---------------------------|-----------------|--------------|-----------------------|-------------|
| _            | 12A1965      | 31-002          | UG88U           | Cable Plug                | 58              | \$0.70       | \$0.58                | \$0.49      |
| 382224882266 | 12A1966      | 31-018          | ŪG88B/U         | Cable Plug                | 58              | .81 *        | .67                   | .56         |
| ă            | 12A1967      | 31-202          | UG88C/U         | Cable Plug                | 58              | .75          | .61                   | .52         |
| ă            | 12A1968      | 31-012          | ŬG260Ú          | Cable Plug                | 59, 62          | .75          | .61                   | .52         |
| ă            | 12A1969      | 31-212          | UG260B/U        | Cable Plug                | 59, 62          | .85          | .70                   | .59         |
| ň            | 12A1970      | 31-005          | UG89U*          | Cable Receptacle          | 58              | 1.09         | .89                   | .75         |
| ň.           | 12A1971      | 31-015          | ŪG261U          | Cable Receptacle          | 59, 62          | 1.23         | 1.01                  | .85         |
| 6            | 12A1972      | 31-003          | ŪG290U*         | Panel Receptacle          |                 | .79          | .65                   | .54         |
| ñ            | 12A1973      | 31-203          | UG290A/U*       | Panel Receptacle          |                 | .85          | .70                   | .59         |
| 5            | 12A1974      | 31-102          | UG657U*         | Recept, 1-Hole Mtg.       |                 | 1.25         | 1.03                  | .87         |
| S .          | 12A1975      | 31-001          | ŬG291Ŭ*         | Recept. Rear Clamp        | 58              | 1.21         | 1.00                  | .84         |
| 5            | 12A2308      | 31-011          | ŬG262Ŭ          | Recept, Rear Clamp        | 59, 62          | 1.36         | 1.12                  | .94         |
| 8            | 12A1976      | 31-219          | ŬG914U*         | Dbl. Female Junct.        |                 | 1.28         | 1.05                  | .88         |
| 8            | 12A1977      | 31-008          | UG274U*         | Tee                       |                 | 2.29         | 1.88                  | 1.58        |
| 8            | 12A1978      | 31-830          | UG201U          | BNC Jack to N Plug        |                 | 2.53         | 2.07                  | 1.74        |
| 6            | 12A1979      | 31-028          | ŬG273U          | BNC Jack to UHF Plu       | g               | 1.40         | 1.15                  | .97         |
| ii)<br>ii)   | 12A1980      | 31-217          | UG349A/U        | <b>BNC Plug to N Jack</b> | -               | 2.57         | 2.11                  | 1.77        |



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20

M-42

"N" SERIES CONNECTORS

(22)

2

M-46

Highest quality, 50 ohm constant impedance style connectors. Generally specified for more critical applications because of lower SWR and weatherproof construction. Recommended where coax line will be supported by the connector. \*Female connectors mating with all others in same series.

| Fig.    | Stock<br>No. | Amphéno<br>No. | Military<br>No. | Oescription               | For RG<br>Cable | 1-24<br>Each | 25-99<br>Each | 999<br>Each |
|---------|--------------|----------------|-----------------|---------------------------|-----------------|--------------|---------------|-------------|
| 0       | 12A1981      | 82-61          | UG21B/U         | Mate Cable Plug           | 8               | \$1.32       | \$1.08        | \$0.91      |
| Ä       | 12A1982      | 82-63          | UG23B/U*        | Female Cable Jack         | 8               | 1.49         | 1.22          | 1.03        |
| X       | 12A1983      | 82-24          | UG58U*          | Panel Recept.             | -               | 1.00         | .82           | .69         |
| 8       | 12A1984      | 82-101         | UG29B/U*        | Dbl, Recept. Junctio      | n               | 1.68         | 1.38          | 1.16        |
| X       | 12A1985      | 82-100         | UG57B/U         | <b>Dbl. Plug Junction</b> |                 | 2.15         | 1.76          | 1.48        |
| X       | 12A1986      | 82-213         | UG27C/U*        | Right Angle               |                 | 2.76         | 2.27          | 1.90        |
| 3886388 | 12A1987      | 82-99          | UG28A/U*        | Tee                       |                 | 3.31         | 2.72          | 2.28        |
| 4       | ).           | 1              | M-41 6          | M-43                      | <b>C</b>        |              | )—            | M-45        |
|         |              |                |                 |                           | A . 3m          | 0000         |               |             |

### ANTENNA SPECIALISTS COAX CABLE CONNECTOR ADAPTORS

For connecting PL-259, SO-239 plugs to Motorola pin plug and RCA phono plug type sockets and cable plugs. Designed for RF transmitter-receiver cables, test equipment for fast conversion without altering original connectors.

| No. 12A1988. Net Each                                                                         | \$1.35 |
|-----------------------------------------------------------------------------------------------|--------|
| M-42. Converts phono plug on lead to SO-239 on set.                                           | \$1.35 |
| No. 12A1989. Net Each.<br>M-43. Converts Motorola type pin plug on lead to phono plug on set. | 69c    |
| No. 12A1990. Net Each                                                                         |        |
| M-44. Converts PL-259 on lead to phono plug on set.<br>No. 12A1991. Net Each                  | \$1.35 |
| M-45. Converts phono plug on lead to Motorola type pin plug on set.<br>No. 12A1992. Net Each  | 69c    |
| M-46. Converts PL-259 on lead to Motorola type pin plug on set.                               | \$1.35 |
| No. 12A1993. Net Each                                                                         |        |

**Call or Write B-A for Larger Quantity Prices** 

.54c

10-24 Each

# CHASSIS, MINIBOXES AND CABINETS

BUD ALUMINUM CHASSIS BASES

|                |                  |                      |            |                    |         |        |                |                   |                        | ••••        |              | _             |               |                  |                    |                    |              |              |                 |                |
|----------------|------------------|----------------------|------------|--------------------|---------|--------|----------------|-------------------|------------------------|-------------|--------------|---------------|---------------|------------------|--------------------|--------------------|--------------|--------------|-----------------|----------------|
|                |                  | inforc               | ed ar      | luminun<br>ıd spot | t weld  | led. 4 | Stock<br>No.   | Bud<br>No.        | Size<br>Inches         | Wt.<br>Lbs. | 1-24<br>Each | 25-49<br>Each | 50-99<br>Each | Stock<br>No.     | Bud<br>No.         | Size<br>Inches     | Wt.<br>Lbs.  | 1-24<br>Each | Each            | 50-99<br>Each  |
|                |                  | sides                | folde      | d in at            | t botto | m for  | 5A314          | AC403             | 5x91/2x2               | 1/2         | \$1.80       | \$1.70        | \$1.50        | 5A219            |                    | 8x17x3             | 13⁄4         | \$3.80       |                 | \$3.00         |
|                | 1                | 📃 🚬 added            | stre       | ngth a             | nd att  | aching | 5A202          | AC421             | 5x91/2x3               | 3/4         | 2.20         | 2.00          | 1.70          | 5A366            |                    | 84⁄2x15x3          | 11/2         | 3.50         | 3.20            | 2.80           |
| · · ·          |                  | bottor               | m plat     | e (liste           | d belo  | w), 18 | 5B169          | AC404             | 5x10x3                 | 3/4         | 2.20         |               | 1.70          | 5A367            |                    | 9x15x3             | 11/2         | 4.00         | 3.60            | 3.20           |
|                | ~~               |                      | , exce     |                    | which a |        | 5A203          | AC422             | 5x13x3                 | 3/4         | 2.50         | 2.30          |               | 5A210            |                    | 10x12x3            | 11/2         | 3.80         | 3.40            | 3.00           |
|                |                  |                      |            |                    | hich a  |        | 5A356          | AC1410            | 5x131/2x21/2           | 3/4         | 2.10         |               |               | 5A263            |                    | 10x14x3            | 13/4         | 3.80         | 3.40            | 3.00           |
|                | -                | gauge                |            |                    |         | 16 14  | 5A357          | AC1411            | 5¼2x5¼2x1              | 1/4         | 1.50         | 1.35          |               | 5A318            |                    | 10x17x2            | 11/4         | 3.70         | 3.30            | 2.90           |
|                |                  | gauge                | . Nat      | ural fi            | nisn.   |        | 5A358          | AC1412            | 51/2×91/2×11/2         | 1/2         | 1.70         | 1.50          |               | 5A211            |                    | 10x17x3            | 2            | 4.30         | 3.80            | 3.40           |
| C to all       | Bud              | fine                 | MA         | 4.04               | 05.40   | 60.00  | 5A359          | AC1413            | 6x8x2                  | 1/2         | 1.80         | 1.60          | 1.45          | 5B172            |                    | 10x17x4            | 31/2         | 6.00         | 5.40            | 4.80           |
| Stock          | Bud<br>No.       | Size                 | Wt.        | 1-24               |         | 50-99  | 5A360          | AC1414*           | 6x14x3                 | 1           | 3.30         | 2.90          |               | 5A368            | AC1422†            |                    | 21/2         | 8.70         | 7.80            | 6.90           |
| No.            |                  | Inches               | Lbs.       | Each               |         |        | 5B170          | AC433*            | 6×17×3                 | 11/4        | 3.70         | 3.30          |               | 5A369            | AC1423†            |                    | 3            | 6.30         | 5.60            |                |
| 5A347          |                  | 21/2×41/2×1          | 1/B        |                    | \$1.15  |        | 5A204          | AC405             | 7x7x2                  | 1/2         | 1.80         | 1.65          |               | 5A155            |                    | 11x17x2            | 21/4         | 4.60         | 4.10            | 3.70<br>4.25   |
| 5A348          | AC1402           | 31/2×41/2×1          | 1/B        | 1.30               |         |        | 5A205          | AC406             | 7x9x2                  | 1/2         | 1.90         | 1.70          |               | 5A319            |                    | 11x17x3            | 23/4<br>13/4 | 3.80         | 3.50            | 3.10           |
| 5A349          | AC1403           | 34/2×54/2×1          | 1/4        | 1.30               |         |        | 5A315          | AC407             | 7×11×2                 | 3/4         | 2.20         | 2.00          | 1.70          | 5A370            |                    | 12x12x3<br>12x17x2 | 14/2         | 4.80         | 4.40            | 3.90           |
| 5A350          | AC1404           | 4x5x2                | 1/4        | 1.60               |         |        | 5A206          | AC408             | 7x12x3                 | 1           | 2.70         | 2.40          |               | 5A371<br>5A212   |                    | 12x17x3            | 23/4         | 5.40         | 4.90            |                |
| 5A351          | AC1405           | 4x6x14/2             | - 1/4      | 1.40               |         |        | 5A316          | AC409             | 7x13x2                 | 3/4         | 2.30         | 2.00          |               | 5A163            |                    | 13x17x2            | 24/2         | 4.80         | 4.30            | 3.80           |
| 5B160          | AC431            | 4x6x2                | 1/2        | 1.60               |         |        | 5A361          | AC1415*           | 7x15x2                 | 14/2        | 2.90         | 2.60          | 2.30<br>2.90  | 5A103            |                    | 13x17x3            | 23/4         | 5.70         | 5.10            |                |
| 5B154          | AC430            | 4x6x3                | 1/2        | 1.80               |         |        | 5A207          | AC411*            | 7x15x3                 | 1 42        | 3.70<br>3.30 | 3.30<br>3.00  |               | 5B173            |                    | 13x17x4            | 33/4         | 7.00         | 6.30            | 5.60           |
| 5A352          |                  | 4x8x2                | 3/8        | 1.80               |         |        | 5A362          | AC1416*           | 7x17x2<br>7x17x24⁄2    | 14/2        | 3.40         | 3.10          |               | 5A372            | AC1426†            |                    | 31/2         | 9.50         | 8.60            | 7.60           |
| 5B164<br>5A353 | AC432*<br>AC1407 | 4x17x3               | 11/4       | 3.10               |         |        | 5A363<br>5A208 | AC1417*<br>AC423* | 7x17x3                 | 13/4        | 3.70         | 3.30          |               | 5A373            | AC1427†            |                    | 3 1          | 6.80         | 6.10            | 5.40           |
| 5A353<br>5A313 | AC1407<br>AC402  | 41/2x8x11/2<br>5x7x2 | 3/8<br>1/2 | 1.60               |         |        | 5A364          | AC1418            | 8x10x24/2              | 1 74        | 2.80         | 2.50          |               | 5A374            | AC1428†            |                    | 31/2         | 9.50         | 8.60            | 7.60           |
| 5B168          | AC402            | 5x7x3                | 42<br>3/4  | 1.90               |         | 1.50   | 5A365          | AC1418            | 8x12x2 <sup>1</sup> /2 | 11/2        | 3.30         | 2.90          |               | 5A375            | AC1429†            |                    | 33/4         | 13.00        |                 |                |
| 5A354          |                  | 5x9x14/2             | 3/4        | 1.60               |         |        | 5A209          | AC424*            | 8x12x3                 | 11/2        | 3.20         | 2.90          | 2.50          | 5A376            | AC1430+            |                    | 31/4         | 8.00         |                 | 6.40           |
| 5A355          |                  | 5x94/2x14/2          | 74<br>3/4  | 1.70               |         |        | 5A317          | AC425*            | 8x17x2                 | 11/2        | 3.30         | 3.00          |               | 5A377            | AC1431†            |                    | 4            |              | 10.10           | 9.00           |
| 011000         | 101103           | 545724272            | -746       | 1170               | 1.00    | 1.00   |                | 110 12 0          | UN 27 NE               | - / -       |              |               |               |                  |                    |                    |              |              |                 |                |
|                |                  |                      |            |                    |         | N/     | TURA           | L AL              | UMINUN                 | 1 B(        | отто         | M             | PLA1          | ES               |                    |                    |              |              |                 |                |
| Stock          | Bud              | Size                 | Wt.        |                    | 50-99 1 |        | Stock          | Bud               | Size                   | Wt.         | 1-49 5       |               |               | Stock<br>No.     | Bud<br>No.         | Size               | Wt.<br>Lbs.  |              | 50-99 1<br>Each | 00-149<br>Each |
| NO.            | No.              | Inches               | Lbs.       | Each               | Each    | Each   | No.            | No.               | Inches                 | Lbs.        | Each         |               | Each          |                  |                    |                    |              |              |                 |                |
| 5A5509         | BPA1501          |                      | K6         |                    | \$0.65  |        | 5A5522         | BPA151            |                        | 1/B         |              |               | \$0.70        | 5A5535           | BPA1520            |                    |              |              | \$1.70          |                |
| 5A5510         |                  |                      | 16         | .80                | .70     | .65    | 5A5523         | BPA151:           |                        | 1/4         | 1.00         | .90           | .80           | 5A5536           |                    |                    | 1/2          | 2.20         | 2.00            | 1.70           |
| 5A5511         | BPA1503          |                      | 1/B        | .80                | .70     | .65    | 5A5524         | BPA151            |                        | 3/16        | 1.10         | 1.00          | .90           | 5A5537           | BPA1522            |                    | 1/2          | 2.30         | 2.00            | 1.80           |
| 5A5512         |                  |                      | 1/8        | .80                | .70     | .65    | 5A5525         | BPA151            |                        | 3/8         | 1.40         | 1.25          | 1.10          | 5A5538           | BPA1523            |                    | 1/2          | 1.80         | 1.60            | 1.45           |
| 5A5513         | BPA1505          |                      | 1/8        | .80                | .70     | .65    | 5A5526         | BPA151            |                        | 36          | 1.80         | 1.60          | 1.45          | 5A5539           | BPA1524            |                    | 5/8          | 1.80         | 1.60<br>1.60    | 1.45           |
| 5A5514         |                  |                      | 1/B        | 1.00               | .90     | .80    | 5A5527         | BPA159            |                        | 1/3         | .90          | .80           | .70           | 5A5540           | BPA1597            |                    | 3/4          | 2.70         | 2.40            | 2.10           |
| 5A5549         | BPA1532          |                      | 1/4        | 1.00               | .90     | .80    | 5A5528         | BPA159            |                        | 1/2 1/2     | 1.00         | .90           | .80           | 5A5541           | BPA1525<br>BPA1526 |                    | 15/6         | 2.00         | 1.80            | 1.60           |
| 5A5515         | BPA1507          |                      | 1/B        | 1.10               | 1.00    | .90    | 5A5529         | BPA159            |                        | 13          | 1.10         | 1.00          | .90           | 5A5542           |                    |                    | 54           | 2.00         | 1.80            | 1.60           |
| 5A5516         |                  |                      | 1/8        | .90                | .80     | .70    | 5A5530         | BPA159            |                        |             | 1.30         | 1.15          | 1.05          | 5A5543<br>5A5544 | BPA1527<br>BPA1528 |                    | 5/8<br>3/4   | 2.40         | 2.20            | 1.90           |
| 5A5517         | BPA1508          |                      | - X6       | .90                | .80     | .70    | 5A5586         | BPA159            |                        | 1/2         | 1.40<br>1.60 | 1.25          | 1.10<br>1.30  | 5A5545           | BPA1528<br>BPA1598 |                    | -74<br>3/4   | 2.60         | 2.30            | 2.10           |
| 5A5518         |                  |                      | 1/4        | .90                | .80     | .70    | 5A5531         | BPA151            |                        | 36          | 1.60         | 1.45          | 1.30          | 5A5546           |                    |                    | 15%          | 2.60         | 2.30            | 2.10           |
| 5A5519         |                  |                      | 1/4        | .90                | .60     | .70    | 5A5532         | BPA151            |                        | 36          | 1.50         | 1.35          | 1.20          | 5A5540           | BPA152             |                    | 1716         | 3.50         | 3.20            | 2.80           |
| 5A5520         | BPA1509          |                      | 1/4        | 1.40               | 1.25    | 1.10   | 5A5533         | BPA151            |                        | 3/8<br>3/8  | 1.80         | 1.60          | 1.45          | 5A5548           |                    |                    | 11/14        | 3.60         | 3.20            | 2.90           |
| 5A5521         | BPA1510          | ) · 5x134/2          | 1/4        | 1.40               | 1.25    | 1.10   | 535534         | BPA151            | 9 8×12                 | -78         | 1.00         | 1.00          | 1140          | 383340           | DEWI331            | 1//1/              | +/16         | 0.00         | 312.3           |                |



Open end chassis are perfect for miniature tube appli-cation or sub-assemblies. Made of aluminum alloy 5005H-14 with 1/4'' flange on bottom permitting chassis to be fastened down or a bottom plate attached. Ends folded over 3/6'' for added strength on all except 1600 Series. Natural finish.

This Minibox has both snap-lock and screw-type fastening. The design permits the installation of more components than is possible in other conventionally de-signed boxes of the same size. Two-piece construction, each piece forming three sides. The two sections are held together by the engagement of four circular pro-



jections into four matching holes. A unique mechanical principle enables these projections to be easily quickly knocked out if screw type assembly is and desired, Flange assures proper shielding. Four self-tapping screws furnished. Made of .040 aluminum, except 7" and longer are .050". Available in natural finish or light gray Hammertone. Please specify when ordering.



6

| Projecting cover reduces glare fi<br>overhead lighting, protects contri-<br>Top and side assembly slips of<br>bottom section forming a rigid to<br>with excellent accessibility. M<br>of 040° aluminum | 0<br> \ |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| of .040" aluminum.                                                                                                                                                                                     |         |

| Stock<br>No. | Bud<br>No. | Size<br>Inches | Wt.<br>Lbs. | 1-24<br>Each | 25-49<br>Each | 50-99<br>Each | Stock<br>No. | Bud<br>No. | Size<br>Inches | Wt.<br>Lbs. | 1-24<br>Each | 25-49<br>Each |
|--------------|------------|----------------|-------------|--------------|---------------|---------------|--------------|------------|----------------|-------------|--------------|---------------|
| 5A501        | CB1624     | 13/4 x31/8x1   | 1/4         | \$0.60       | \$0.55        | \$0.50        | 5A232        | CB996      | 51/2×9×11/2    | 1/4         | \$1.50       | \$1.35        |
| 5A500        | CB1623     | 25/8×23/4×11/4 | 1/4         | .50          | .45           | .40           | 5A506        | CB1629     | 53/4×47/8×11/2 | 1/4         | .80          | .70           |
| 5A503        | CB1626     | 23/4x41/8x1    | 1/4         | .70          | .65           | .55           | 5A220        | CB38       | 7x6x2          | 1/4         | 1.30         | 1.20          |
| 5A505        | CB1628     | 3x61/8x11/4    | 1/4         | .80          | .70           | .65           | 5A223        | CB41       | 7x7x14/2       | 1/4         | 1.60         | 1.40          |
| 5A502        | CB1625     | 31/4×41/2×2    | 1/4         | .70          | .65           | .55           | 5A221        | CB39       | 7x8x2          | 1/2         | 1.60         | 1.40          |
| 5A504        | CB1627     | 33/4×41/8×11/2 | 1/4         | .70          |               | .55           |              |            | 7x10x2         | 1/2         | 1.80         | 1.60          |
| 5A507        | CB1617     | 4x31/sx1       | 1/2         | .60          | .55           | .50           | 5A222        | CB40       |                |             |              |               |
| 5A236        | CB1618     | 4x41/ax1       | 1/2         | .70          | .65           | .55           | 5A234        | CB997      | 7x11x14/2      | 1/2         | 1.80         | 1.60          |
| 5A508        | CB1619     | 4x51/ax1       | 1/2         | .80          | .70           | .65           | 5A510        | CB998      | 7x13x14⁄2      | 1/2         | 2.20         | 2.00          |
| 5A509        | CB1620     | 4x61/ax1       | 1/2         | .80          | .70           | .65           | 5A233        | CB976      | 74/2x9x14/2    | 1/2         | 1.80         | 1.70          |

9 50-99

0 1.50

Each

\$1.20

.65 1.10

1.30

1.30 1.40 1.45 1.70

| BUD | ALUMI | NUM | MINI | BOXES |
|-----|-------|-----|------|-------|
|     |       |     |      |       |

| Size I                  | Inch   | 29  | N | Vt.        | Natural                       | Finish                  | 1-49                 | 50-99                | 100-149              | Hamm                          | ertone   | 1-49   | 50-99  | 100-149 |
|-------------------------|--------|-----|---|------------|-------------------------------|-------------------------|----------------------|----------------------|----------------------|-------------------------------|----------|--------|--------|---------|
|                         | Η.     | W.  |   | bs.        | Bud No.                       | Stk. No.                | Each                 | Each                 | Each                 | Bud No.                       | Stk. No. | Each   | Each   | Each    |
| 2 3⁄4 x 2               | )1/s x | 156 | 1 | /4         | CU3000A                       | 5A3005                  | \$0.80               | \$0.70               | \$0.65               | CU2100A                       | 5A3018   | \$0.90 | \$0.80 | \$0.70  |
| 31/4×2                  |        |     |   | 14         | CU3017A                       | 5A3014                  | .80                  | .70                  | .65                  | CU2117A                       | 5A3025   | 1.10   | 1.00   | .90     |
| 31/4×2                  |        |     |   | 4          | CU3001A                       | 5A3006                  | .80                  | .70                  | .65                  | CU2101A                       | 5A3019   | .90    | .80    | .70     |
| 4x2x2                   |        | 170 |   | 4          | CU3015A                       | 5A3012                  | 1.00                 | .90                  | .80                  | CU2115A                       | 5A3023   | 1.10   | 1.00   | .90     |
| 4x21/8                  |        | 6   |   | 10         | CU3002A                       | 5A3007                  | .80                  | .70                  | .65                  | CU2102A                       | 5A3020   | 1.00   | .90    | .80     |
| 4x21/a                  |        |     |   | 14         | CU3003A                       | 5A3008                  | 1.10                 | 1.00                 | .90                  | CU2103A                       | 5A3021   | 1.10   | 1,00   | .90     |
| 41/4×2                  |        |     |   | 14         | CU3016A                       | 5A3013                  | 1.00                 | .90                  | .80                  | CU2116A                       | 5A3024   | 1.10   | 1.00   | .90     |
| 5x21/4                  |        |     |   | ÍA -       | CU3004A                       | 5A3009                  | 1.10                 | 1.00                 | .90                  | CU2104A                       | 5A3022   | 1.20   | 1.10   | .95     |
| 5x4x3                   |        | -   |   | 1/2        | CU3005A                       | 5A3010                  | 1.10                 | 1.00                 | .90                  | CU2105A                       | 5A333    | 1.50   | 1.35   | 1.20    |
| 51/4×3                  |        | 10  |   | ÍA.        | CU3006A                       | 5A3011                  | 1.10                 | 1.00                 | .90                  | CU2106A                       | 5A334    | 1.30   | 1.15   | 1.05    |
| 6x5x4                   |        |     |   | 4          | CU3007A                       | 5A271                   | 1.40                 | 1.25                 | 1.10                 | CU2107A                       | 5A335    | 1.90   | 1.70   | 1.50    |
| 7x5x3                   |        |     |   | 74.<br>Ya  | CU3008A                       | 5A272                   | 1.80                 | 1.60                 | 1.45                 | CU2108A                       | 5A336    | 2.20   | 2.00   | 1.70    |
| 8x6x3                   |        |     | 1 | 74         | CU3009A                       | 5A273                   | 2.30                 | 2.10                 | 1.90                 | CU2109A                       | 5A337    | 2.80   | 2.60   | 2.30    |
| 10x2x                   |        |     |   | 12         | CU3013A                       | 5A277                   | 1.30                 | 1.15                 | 1.05                 | CU2113A                       | 5A282    | 1.60   | 1.45   | 1.30    |
| 10x6x                   |        |     |   | 1/4        | CU3010A                       | 5A274                   | 2.50                 | 2.30                 | 2.00                 | CU2110A                       | 5A279    | 3.10   | 2.80   | 2.50    |
|                         |        |     |   |            |                               |                         | 1.80                 | 1.60                 | 1.45                 | CU2114A                       | 5A283    | 2.10   | 1.90   | 1.70    |
|                         |        | -74 |   |            |                               |                         |                      |                      |                      | CU2111A                       | 5A280    | 4.20   | 3.80   | 3.30    |
|                         |        |     |   |            |                               |                         |                      |                      |                      |                               | 5A281    | 4.20   | 3.80   | 3.30    |
| 12x23<br>12x7x<br>17x5x | ί4     | 1/4 | 1 | 1/4<br>1/4 | CU3014A<br>CU3011A<br>CU3012A | 5A278<br>5A275<br>5A276 | 1.80<br>3.50<br>3.50 | 1.60<br>3.20<br>3.20 | 1.45<br>2.80<br>2.80 | CU2114A<br>CU2111A<br>CU2112A | 5A280    | 4.20   | 3.80   | D       |

#### **BUD COWL-TYPE MINIBOX**

| educes glare from protects controls. | Siz<br>H. | e Inc<br>W. | hes<br>D. | Wt.<br>Lbs.                                                                                                 | Hammert<br>Bud No. | one grey<br>Stk. No. | 1-49<br>Each | 50-99<br>Each | 100-149<br>Each | Natural<br>Bud No. |       | 1-49<br>Each | 50-99<br>Each | 100-149<br>Each |
|--------------------------------------|-----------|-------------|-----------|-------------------------------------------------------------------------------------------------------------|--------------------|----------------------|--------------|---------------|-----------------|--------------------|-------|--------------|---------------|-----------------|
| sembly slips over                    | 3         | 8           | 5         | $     \begin{array}{c}       1 \\       1 \\       1 \frac{11}{4} \\       1 \frac{11}{2}     \end{array} $ | SC2132             | 5A257                | \$4.30       | \$3.80        | \$3.40          | SC3032             | 5A261 | \$3.00       | \$2.70        | \$2.40          |
| orming a rigid unit                  | 5         | 5           | 5         |                                                                                                             | SC2133             | 5A258                | 4.30         | 3.90          | 3.50            | SC3033             | 5A262 | 3.20         | 2.90          | 2.50            |
| ccessibility. Made                   | 6         | 10          | 7         |                                                                                                             | SC2130             | 2A255                | 7.30         | 6.60          | 5.90            | SC3030             | 5A259 | 5.30         | 4.80          | 4.30            |
| im.                                  | 7         | 12          | 8         |                                                                                                             | SC2131             | 5A256                | 8.00         | 7.20          | 6.40            | SC3031             | 5A260 | 5.80         | 5.20          | 4.60            |

#### BUD MINIATURE UTILITY CABINETS STEEL TYPE ALUMINUM TYPE Built-in chassis attached front panel. Removable f and rear panels. Steel black wrinkle finish. to A highly useful housing for all types of electronic equipment. Both front and back panels are removable for easy accessibility. Aluminum alloy 5005 H-14 and are available with natural or light gray hammertone (HG) finish. front with Size Inches H. W. D. Bud No. Stock Wt Natural Finish Size Inches Wt. Lbs. **Grev Hammertone** No. 100-199 Stk. No. 1-49 Ea. 50-99 Ea. 100-199 Bud No. Stk. No. 1-49 Ea. 50-99 Ea. D. H. W. 4 4 \$1.60 5A3015 5A3016 \$1.60 \$1.45 1.45 5A3032 5A3033 \$2.00 AU1083 \$1.80 \$1.80 4 4 4 54 1.80 4 1.80 1.60 2.30 2.00 5 3 AU1028 5 669

1-49 50-99 100-149 Lbs Each Each Each 5A3035 5A3036 5A3037 5A3039 5A3038 5A3038 5A268 C1793 C1794 C1795 C1795 C1797 C1796 C1798 
 \$1.70
 \$1.50
 \$1.35

 1.90
 1.70
 1.50

 2.10
 1.90
 1.70

 2.50
 2.30
 2.00

 2.20
 2.00
 1.75

 3.00
 2.70
 2.40
 233446 3⁄4 1/4 1/2 1/2 3/4 55 5A3034 5A266 5A267 656 13/4 13/4 23/4 4 6 AU1029 5A3017 2.00 1.80 1.60 2.30 2.40 3.20 2.20 2.90 1.90 2.50 6 AU1039 5A264 2.90 2.60 2.70 AU1040 5A265 3.30 3.00 4.00 3.60 3.20

Call B-A's Industrial Department (816) 561-5460



#### MARK-T CABINETS

MARK-T CABINETS Distinctively designed enclosure for controls, meters, indicators, etc. 16 gauge steel with hinged door and removable front panel provide visibility of entire con-tents. Panel angle permits easy operation and viewing. Recessed and safety shielded carrying han-dles. With 4 rubber feet. Charcoal grey vinyl texture with light grey enamel panel and door. Stock Bud Panel Wt. 1-14 15-24 25-34



Panel Stock Bud Wt. 1-14 15-24 25-34 
 Stock
 Bud
 Panel
 Wt.
 1-14
 15-24
 25-34

 No.
 No.
 A frea
 Lbs.
 Each
 Each
 Each
 Each
 53026
 MT214
 16"
 534x14"
 9
 \$30.40
 \$27.40
 \$24.30
 54x12"
 54x12"
 12
 33.30
 30.00
 26.70
 \$3026
 MT224
 26"
 54x24"
 14½
 39.20
 35.30
 31.40

#### **NEW TRANSICASES**

NEW TRANSIC Handsome aluminum portable in-strument case. Contoured design with chrome plated fittings. .040" aluminum with flush mounted .050 aluminum panels. Slip hinge, foam lined lid protects knobs, dials, etc. Clearance lid to panel 1"54". Rub-ber feet on both back and bottom. Textured vinyl gray finish. Blue tex-tured vinyl on special order. Stock Bud Size Inches Wt. No. No. W. D. H. Lbs. E 5B132 TC-300 10% 7 6 344 \$27 5B138 TC-302 13 9 7½ 6 22 5B148 TC-302 16½ 9 7½ 8 21 5B149 TC-304 20% 8 9 10 3



15-19 10-14 1-9 Wi, 1-3 10-14 13-13 Lbs. Each Each Each Each 33/4 \$27.80 \$25.00 \$22.20 41/2 28.50 25.60 22.80 6 29.10 26.20 23.20 8 29.60 26.60 23.60 28.10 31.20 25.00

#### **BUD FUTURA CABINETS**

Modern rectangular modular cabinets. One-piece top 'and sides removable for easy access to interior, 20 gauge steel with 18 gauge front panel held in place by body flanges eliminating panel mounting screws. Available with inclined (see illustration) or straight panel. Choice of light grey Hammertone body with smooth light grey panel or smooth dark blue body with smooth light blue panel. Add HG to stock number for Hammertone Gray or SB for Smooth Blue.

| 31100(11 | 0106.  |            |        | VE | RTICAL PA  | NEL  |        |        |        |
|----------|--------|------------|--------|----|------------|------|--------|--------|--------|
| Stock    | Bud    | <b>Siz</b> | e Inch | es | Use        | Wt.  | 1-24   | 25-49  | 50-99  |
| No.      | No.    | H.         | W.     | D. | Chassis    | Lbs. | Each   | Each   | Each   |
| 5832     | MD1960 | 7          | 13     | 8  | CB40       | 63⁄4 | \$9.00 | \$8.10 | \$7.20 |
| 5837     | MD1961 | 8          | 14     | 9  | CB997      | 73⁄4 | 9.70   | 8.70   | 7.70   |
| 5842     | MD1962 | 8          | 16     | 9  | CB998      | 81⁄2 | 10.00  | 9.00   | 8.00   |
|          |        |            |        | IN | CLINED PAI | NEL  |        |        |        |
| 5843     | MD1963 | 7          | 13     | 8  | CB40       | 7    | 10.50  | 9.50   | 8.40   |
| 5844     | MD1964 | 8          | 14     | 9  | CB997      | 8    | 11.30  | 10.10  | 9.00   |
| 5845     | MD1965 | 8          | 16     | 9  | CB998      | 83⁄4 | 12.00  | 10.80  | 9.60   |

#### **SLOPING FRONT CABINETS**

Provided with a hinged top for easy access to tubes and other components mounted on the chassis without remov-ing the front panel. The front panel, however, may be removed if necessary. Stocked in light gray Hammertone ing th remove finish.

|       |       |      |         |       |         |      |        | No. of Concession, Name |        |
|-------|-------|------|---------|-------|---------|------|--------|-------------------------|--------|
| Stock | Bud   |      | ze Inch |       | Use     | Wt.  | 1-24   | 25-49                   | 50-99  |
| No.   | No.   | Н.   | - W.    | D.    | Chassis | Lbs. | Each   | Each                    | Each   |
| 5B135 | C1584 | 61/2 | 7%      | 7%    | CB38    | 21/2 | \$4.30 | \$3.80                  | \$3.40 |
| 5B136 | C1585 | 61/2 | 91%     | 7%    | CB39    | 3    | 4.70   | 4.20                    | 3.70   |
| 58139 | C1586 | 61/2 | 11%     | 7%    | CB40    | 31/2 | 5.40   | 4.90                    | 4.30   |
| 5A326 | C1587 | 8    | 81/1    | 8     | CB41    | 23/4 | 5.70   | 5.10                    | 4.50   |
| 5A134 | C1588 | 8    | 10%     | 8     | CB976   | 31/4 | 6.30   | 5.60                    | 5.00   |
| 58142 | C1892 | 8    | 1314    | 81/2  | AC407   | 51/4 | 7.40   | 6.70                    | 5.90   |
| 5A130 | C1894 | 8    | 14%     | 8     | AC409   | 4    | 6.70   | 6.00                    | 5.30   |
| 5A131 | C1896 | ğ.   | 18%     | 81/B  | AC425   | ż    | 9.40   | 8.50                    | 7.50   |
| 58144 | C1893 | 10   | 18%     | 101/2 | AC415   | 81/2 | 9.80   | 8.80                    | 7.80   |
|       |       |      |         |       |         |      | 2100   |                         | 2.00   |

#### **BUD SHADOW CABINET**

Front panel bevelled and recessed 1". Front and back panel as well as the bottom are removable. 18 gauge steel with 16 gauge panels. Rubber feet. Light gray Hammertone.

| Stock | Bud     |      | e Inche |    | Use     | Wt.   | 1-24   | 25-49  | 50-99  |
|-------|---------|------|---------|----|---------|-------|--------|--------|--------|
| No.   | No.     | Н.   | W       | D. | Chassis | Lbs.  | Each   | Each   | Each   |
| 5A246 | \$B2143 | 6    | 151/2   | 9  | AC409   | 91/2  | \$6.80 | \$6.10 | \$5.40 |
| 5A244 | \$B2141 | 74/2 | 131/4   | 9  | AC407   | 93/4  | 7.10   | 6.40   | 5.70   |
| 5A243 | \$B2140 | 8    | 141/4   | 10 | AC424   | 111/2 | 8.90   | 8.00   | 7.10   |
| 5A245 | SB2142  | 91⁄2 | 17      | 11 | AC411   | 151/4 | 11.90  | 10.70  | 9.60   |

#### **BUD QUALITY HANDLES WITH MOUNTING HARDWARE**

|                                              | 2               |                           |                               | 5                           | 2      |
|----------------------------------------------|-----------------|---------------------------|-------------------------------|-----------------------------|--------|
| ① Made of 3/6" steel<br>Hand clearance 1%4". | rod, chrome pla | ted. ③ Tubula<br>Stk. No. |                               | tched finish.<br>Mtg. Ctrs. | Each   |
| Stk. No. Mfg. No.                            |                 | ach 5A5571                | UH70A                         | 45/8"                       | \$0.60 |
| 5A5567 H9115B                                |                 | .60 5A5572                | UH71A                         | 31/4″                       | .50    |
| 5A5581 H9116B                                | 6″ 1            | .80 ④ Sturdy<br>aluminum  | drawer pull,<br>with 3/4" han |                             | odized |
| ③ Made of ¼" brass                           | rod, chrome pla |                           | H9140B                        | 31/2"                       | 1.60   |
| Hand clearance 1".                           |                 |                           | lient hinged ty               | pe silver and               | dized  |
| 5A5569 H9166B                                | 12%2"           |                           | , hand clearan                | ce 1½".                     |        |
| 5A5570 H9168B                                | 3"              | .90 5A5576                | H9122B                        | 61/2"                       | 4.80   |
| 144                                          |                 | Burstei                   | n-Applebee                    | Co., 319                    | 9 Me   |

#### TILT-A-VIEW CABINET

Slanted front face and vertical rear face, may be used with or without detachable legs to change panel angle. Two piece 16 gauge permits easy access to interior. Top and bottom sec-tions interiock for strength and rigidity. No fasteners show on front or rear panels. Charcoal grey vinyl texture cabinet with light sand panels.

Stock Bud Size Inches 
 No.
 No.
 H.
 W.
 D.
 Ll

 5A3029
 TV2155
 4½
 15
 10
 8

 5A3030
 TV2156
 6½
 16
 12
 13

 5A3031
 TV2157
 8½
 17
 14
 17

#### **BUD PORTACAB**

High styled housings for in-strumentation or other equip-ment. Body is one piece .050 aluminum. Removable panel is .062. Flexible recessed han-dle, detachable rubber feet. Gray Hammertone finish only. Bud Size Inches

Use Stock 
 Stock
 Bud
 Steel inclues
 Ose
 No.
 5A7518 WA1544 12 141/8 18 AC420



Wt. Lbs. Each 84⁄2 13

Lbs. 21/2 31/2

3 6½ 7¾



1-24

Each

\$11.30

13.10 14.70 18.20

21.00



Unique styling accessibility. Top and bottom separate for complete access. Made of 20 gauge steel, aluminum extru-sions serve as handles. Choice of light Hammertone Grey with matching panel or smooth dark grey with smooth light grey panel. Add HG to stock number for Hammertone Gray or SG for Smooth Grey.



Size Inches Wt. 25-49 50-99 Stock Bud 1-24 No. MD-3 MD-1 H. W. D. 4% 121% 834 4% 191% 101/2 7% 191% 101/2 Lbs. Each Each 7 \$13.50 \$12.20 2 7¼ 16.70 15.00 2 7¾ 17.50 15.80 No. 5851 Each \$10.80 **5846** 13.40 5B50 MD-2 14.00



Each

\$10.10

11.80 13.20 16.40

18.90

#### BUD CONVERTA-BOXES

Consists of a welded base and two sided cover. 20 gauge steel assures rigidity and protection. Cadmium plated finish. Pine Lookes WA 4.04 -

| 510                             | 16.15                           | Bua                                                | 2116                                                                  | INCN                | 6.9              | WT.                              | 1-24                                   | Z3-49                                  | 20-22              |
|---------------------------------|---------------------------------|----------------------------------------------------|-----------------------------------------------------------------------|---------------------|------------------|----------------------------------|----------------------------------------|----------------------------------------|--------------------|
| No                              | 0.                              | No.                                                | Н.                                                                    | W.                  | D.               | Lbs.                             | Each                                   | Each                                   | Each               |
| 5A3                             | 340                             | CU341                                              | 11/2                                                                  | 4                   | 3                | 1/2                              | \$2.40                                 | \$2.20                                 | \$1.90             |
| 5A3                             | 341                             | CU452                                              | 2                                                                     | 5                   | 4                | 1                                | 2.30                                   | 2.10                                   | 1.90               |
| 5A3                             | 342                             | CU482                                              | 2                                                                     | 8                   | 4                | 11/4                             | 2.50                                   | 2.30                                   | 2.00               |
| 5A3                             | 343                             | CU592                                              | 21/2                                                                  | 91/2                | 5                | 13/4                             | 2.70                                   | 2.40                                   | 2.10               |
| 5A3                             | 344                             | CU622                                              | 21/2                                                                  | 12                  | 6                | 23/4                             | 2.90                                   | 2.60                                   | 2.30               |
| 5A3                             | 345                             | CU712                                              | 21/2                                                                  | 15                  | 7                | 31/2                             | 3.90                                   | 3.50                                   | 3.10               |
| 5A3<br>5A3<br>5A3<br>5A3<br>5A3 | 340<br>341<br>342<br>343<br>343 | CU341<br>CU452<br>CU482<br>CU592<br>CU592<br>CU622 | 1 <sup>1</sup> /2<br>2<br>2<br>2 <sup>1</sup> /2<br>2 <sup>1</sup> /2 | 5<br>8<br>9¼2<br>12 | 3<br>4<br>4<br>5 | 1/2<br>1<br>11/4<br>13/4<br>23/4 | \$2.40<br>2.30<br>2.50<br>2.70<br>2.90 | \$2.20<br>2.10<br>2.30<br>2.40<br>2.60 | \$1<br>2<br>2<br>2 |

| Sturdy spot welded steel. Removable front and back covers<br>for complete accessibility. Stocked in Hammertone gray<br>only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Stock         Bud         Size In.         Wt.         1-49         50-99         100-149           No.         No.         H.         W.         D.         Lbs.         Each         Each         Each           5A78         CU-883         4         2         34         \$1.40         \$1.25         \$1.10           5A78         CU-728         4         5         3         76         1.60         1.45         1.30           5A7         CU-1098         6         6         24/2         2.80         2.50         2.20           5A8         CU-1099         9         6         5         3         3.00         2.70         2.40           5A9         CU-879         10         8         7         5         4.30         3.90         3.50           5A10         CU-880         10         10         8         5/2         5.20         4.70         4.10 |                                                                                  |
| 5A11       CU-881       12       11       8       6       5.70       5.10       4.50         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                                                                                |
| MIDGET SIZE CABINETS<br>D BUD SLOPING FRONT CABINETS for miniaturized equipment<br>Size 44/2" deep x 44/2" high. One-piece detachable back and sid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |
| Stock         Bud         STEEL CABINETS           No.         No.         Uses         Wt.         1-24           Stock         Bud         Chassis         Lbs.         Each           SB145         C1606         4"         CB1617         3/4         \$1.90           SA19         C1607         5"         CB1618         3/4         2.00           SA20         C1608         6"         CB1619         1/½         2.20           SA14         C1609         7"         CB1620         1/½         2.50                                                                                                                                                                                                                                                                                                                                                                 | 25-49 50-99<br>Each Each<br>\$1.70 \$1.50<br>1.80 1.60<br>2.00 1.70<br>2.30 2.00 |
| ALUMINUM CABINETS           5A224         AC1610         4"         CB1617         ½         \$2.40           5A225         AC1611         5"         CB1618         ½         2.30           5A226         AC1612         6"         CB1619         ¾         2.50           5A228         AC1613         7"         CB1620         ¾         2.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | \$2.20 \$1.90<br>2.10 1.90<br>2.30 2.00<br>2.60 2.30                             |
| ③ BUD MIDGET WALL TYPE STEEL SPEAKER CA           For wall or table. Brown wrinkle finish. Both are 7½" H, 6½"           Ib.           5A48         CS1948           For 4 Inch Speaker         \$3.60           5A49         CS1939           For 5 Inch Speaker         3.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SES<br>W, 5¼4″ D. Wt. 1¾<br>\$3.20 \$2.90<br>3.40 3.00                           |
| 3 BUD UNIVERSAL CASES FOR 2 AND 3 INCH MI<br>Punches for 2" meter with easily removable knock-out ring to<br>for 3" meter. One-piece removable sides and bottom. Two 3%<br>for installing insulators, etc. Gray hammertone. 4x4x44"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FTFRS                                                                            |
| 5A40 CM1935 Steel 1 Lb, \$1.70 \$<br>5A40 CMA1936 Aluminum %4 Lb, 1.90<br>LARGER SIZE CASE, 444" H. x 6" W. x 4" D. Aluminum, Hamme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0-99 Ea. 100-149 Ea.<br>1.50 \$1.35<br>1.70 1.50<br>rtone Gray.<br>52.90 \$2.60  |
| B-A IS YOUR DISTRIBUTOR FOR ALL BUD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                                                                                |
| SERIES BURTY ZEDAVR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MLOK                                                                             |

Hundreds of other Bud stock items as well as special fabrications are available. Place your orders with B-A for prompt delivery. Request Bud Catalog No. 16A1150 For Complete Information..... FREE LARGER QUANTITY PRICES AVAILABLE-CALL OR WRITE FOR QUOTATION

lercier St., Kansas City, Mo. 64111

IMLOK

UTILITY TYPE CABINETS









| RELAY R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ACKS—DATAK TRANSFERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>BUD DELUXE RELAY RACKS</b><br>Attractive rounded corner design with red filled chrome trim and recessed panel<br>supports for flush panel mounting. Racks of 16 gauge steel, %," panel supports.<br>Drilled and tapped for 10-32 screws, spacing for all standard 19" panels. Well venti-<br>lated, louvers side and rear. Hinged rear door with snap catches. All are 22" wide,<br>174" deep. Supports for mounting free-rolling casters listed below. Shipped<br>knocked down. Hammertone Gray finish.                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Features greater air displacement for given area and panel space. Exhaust or intake, operates in any position. 110 volt 2 speed motor, rubber mounted. Has ollite bearings. Has thermal overload protection and automatic reset. Mounted on 19" rack panels with 18" 3-wire cord. Complete with disposable air filter and chrome grille. Stock Bud Panel Depth Air Displacement Motor Wt. Prices Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Stock         Bud         Hgt.         Panel         Wt.         Prices Each           No.         No.         Ins.         Space         Lbs.         1-9         10-14         15-19           5A7514         CR1774         42½,         36¾"         82         \$61.50         \$55.40         \$49.20           5A7510         CR1771         47¾,         42"         92         69.70         62.80         55.80           5A7515         CR1772         65¾,         61¼"         115         87.20         78.50         69.70           5A7516         CR1773         82¾,         77"         135         100.40         90.30         60.30           BUD         RC7756,         2¾"         CASTERS         FOR         BUD         DELUXE         RELAY         RACKS                                                                                                                                                                          | No.         No.         Space         Ins.         High         Low         Size         Lbs.         1-9         10-14           5A200         B23         3½"         12         200 CFM         100 CFM         1/20 HP         17¼         \$74.20         \$66.80           5A214         B25         5¼"         14½         500 CFM         250 CFM         1/6 HP         33         84.80         76.30           5A215         B27         7"         14½         750 CFM         350 CFM         1/4 HP         35¼         95.30         85.80           AIR FILTERS FOR ABOVE           Stk. No.         Mfg. No.         Descriptions         1-24 Ea.         25-49 Ea.         50-99 Ea.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| No. 5A310. Wt. 6 ors. (Requires 4)         1-49 Each         1-49 Each         2         BUD TELEPHONE TYPE RELAY RACKS         Uprights ½// steel channels, 3" deep. Chassis type base. Stocked in Hammertone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5A5578         BF24         For B23 Blower         \$1.80         \$1.70         \$1.50           5A5579         BF26         For B25 Blower         2.00         1.80         1.60           5A5580         BF28         For B27 Blower         2.30         2.00         1.80           (*)         ADJUSTABLE         BUD         TEM-STAT         1.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gray.         Bud         Hgt.         Panel         Wt.         Prices Each           No.         No.         Ins.         Space         Lbs.         1-9         10-14         15-19           5A7509         RR1264         70 <sup>3</sup> %4         66 <sup>1</sup> / <sub>2</sub> <sup>''</sup> 46         \$31.10         \$28.00         \$24.80           5A7510         RR1364         75 <sup>5</sup> %4         71 <sup>3</sup> / <sub>4</sub> <sup>''</sup> 48         32.60         29.40         26.10           5A7511         RR1366         81 <sup>7</sup> / <sub>64</sub> 77 <sup>''</sup> 50         35.70         32.20         28.60                                                                                                                                                                                                                                                                                                    | Tem-stat thermostat mounted in an enclosure. Responds quickly to gradual or sudden temperature changes, Actuates warning devices or turns Blowers on and off. Adjustable temp. range. $2^{15}\kappa_{1}x_{1}x_{2}x''$ . UL listed.<br>Stock Bud Adjustable Prices Each<br>No, No. Temp. Range 1-9 10-14 15-19<br>5C146 TS-15 80 to 170° F. \$5.60 \$5.00 \$4.40<br>SC147 TS-16 150 to 240° F. 5.60 5.00 4.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| (3) TABLE MOUNT TELEPHONE RACKSFor desk or bench mtg. of equipment, permitting easy access for building or oper-<br>ating, Panel supports are recessed for flush panel mounting. Hammertone grav.StockBudHgt.PanelWt.Prices Each<br>Prices EachNo.No.Ins.SpaceLbs.1-1415-2425-345A7519RR12482421"15\$12.20\$11.00\$ 9.805A7520RR12493128"1814.4012.9011.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BUD PANEL CHASSIS For vertical chassis installation on relay rack panels where space in depth is limited. Provides easy access to circuitry. Horizontal design permits easier access for testing and maintenance. All have 17" chassis length and 5%2" depth. Notched for mounting with 19" relay rack panels. Made of .052" natural aluminum. Stock Bud Height Wt. Prices Each No. Inches Lbs. 1-24 25-49 50-99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| BUD DELUXE CABINET RACKS Professional quality and appearance for equipment builders. All have hinged top with recessed snap lock and the five larger sizes also have hinged rear door. "No scratch" metal feet embosed on bottom. Red lined chrome trim. For use with standard relay rack panels. Overall O.D. is 22" wide, 1434" deep. Aluminum relay rack panel covering entire panel space now supplied at no extra cost. Stocked in Hammertone Gray.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5A321       CBI371       3½       1¼       \$3.30       \$2.70         5A322       CBI372       5¼       1½       3.80       3.40       3.00         5A323       CBI373       7       2       4.30       3.80       3.40         5A324       CBI374       834       2¼       5.10       4.60       4.10         Image: Bub Chassis BRACKETS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Essential         for         proper         chassis         support.         Heavy         gauge         steel,         black         finish.         Cut out to           mount         chassis         fully         fully |
| ALUMINUM RELAY RACK PANELS     All panels are 19" wide, Vs" thick. Notched to RMA specifications which fits all     standard racks. Hammertone Gray finish.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DATAK INSTANT LETTERING DRY TRANSFERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Stock         Bud         Height         Wt.         Prices Factor           No.         No.         Inches         Lbs.         1-49         50-99         100-149           5A5550         PA1101         134         14         \$1.40         \$1.25         \$1.10           5A5551         PA1102         34/2         34         \$2.00         1.80         1.60           5A5552         PA1103         514         1         2.60         2.30         2.10           5A5553         PA1104         7         134         3.30         3.00         2.70           5A5554         PA1105         83%         2         3.60         3.50         3.10           5A5555         PA1106         101/2         21/2         4.80         4.40         3.90           5A5555         PA1107         121/4         23/4         5.70         5.10         4.50           5A5557         PA1108         14         3         6.40         5.80         5.10 | looks like printing. Transfers dry to prac-<br>tically any surface—metal, wood, glass,<br>plastic, paper. Lettering is clean, crisp<br>and opaque, with no background film.<br>Applies to panels, chassis, meter faces,<br>etc., by rubbing over lettering as it ap-<br>pears on see-thru backing sheet, giving<br>professional appearance to equipment.<br>Each kit contains hundreds of markings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SA5558         PA1109         15¾         3¼2         7.20         6.50         5.70           5A298         PA110         17½         4         7.80         7.10         6.30           5A299         PA111         19¼         4½2         8.60         7.70         6.90           5A300         PA1112         21         5         9.50         8.60         7.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Type used (Shown actual size)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ALUMINUM SURFACE SHIELD RACK PANELS<br>Bright aluminum with blemish-free Mill finish. Covered both sides with pressure<br>sensitive white paper for layout and drilling; paper is removed when ready to<br>install. Standard notching, 19" width, 1/a" thick.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SPECIFY COLOR.<br>No. 12A2471. Titles for Electronic Equipment. Specify Black or White. Contains 22<br>3x5" sheets with hundreds of titles plus one Alphabet and 1 numeral sheet.<br>For                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No. 12A2472. Refill Alphabet. 12 sheets 3x5". Specify Black or White                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| BUD PAN-L-LITE<br>Bright, glare-free lighting for racks, cabinets, desks, tables and other areas re-<br>quiring a concentrated source of light. Better illumination for more accurate read-<br>ing of dials. recorders. circuit designs, etc. Mounted on standard Bud 134x19" steel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ELECTRONIC SYMBOL DRAFTING KIT<br>Precision drawn schematic symbols save<br>time and effort. Line widths and symbol<br>sizes fit in with standard military and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

auring a concentrated source of light. Better illumination for more accurate reading of dials, recorders, circuit designs, etc. Mounted on standard Bud 13/x19" steel rack panel with gray Hammertone finish. Bronzetone aluminum frame. Translucent plastic light diffuser. Push button starter switch, convenience outlet. Heavy duty 6-ft. cord with plug. Uses 15-watt Fluorescent tube (not supplied). U.L. listed. Size 5x18x1/2". No. 5A5582. Bud PL-5. Wt. 2 lbs. 1-9 Each........\$9.70 15-19 Each.......\$8.60

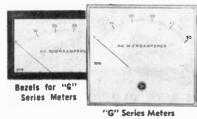
ELECTRONIC SYMBO drafting se



Quantity Discounts for All Triplett Panel Meters: 10 to 24 deduct 10%; 25 and over deduct 20%

from each price.

# "G" SERIES TRIPLETT PANEL METERS Modern design that features a greater degree of flexibility and interchange-ability. Two types of mountings are available—conventional flush type or behind-the-panel with a bezel for modern picture window appearance. Triplett's famous self-shielded BAR-RING magnet and one-piece diecast frame standard on all DC types. Plvot and jewel D'Arsonval type movements.



21/2" DC Meters Are Model 220 G, 21/2" AC Meters Are Model 230 G. Both are 2.77X2.39" high, mount in 2.2" dia. hole. DC scale length 2.48", AC scale length 2.11".

2.11". 3½" DC Meters Are Model 320 G, 3½" AC Meters Are Model 330 G. Both are 3.5" X3.00" h. Mount in 2.75" dia. hole. DC scale length 3.16", AC scale length 3.16", 4½" DC Meters Are Model 420 G, 4½" AC Meters Are Model 430 G. Both are 4.55 X4.07" high. DC scale length 4.03", AC scale length 3.43".

|                                                                     | 21/2" M                   | ETERS         | 31/z" N      | IETERS        | 41/2" M                     | ETERS             |
|---------------------------------------------------------------------|---------------------------|---------------|--------------|---------------|-----------------------------|-------------------|
| Range                                                               | Stock<br>No.              | Price<br>Each | Stock<br>No. | Price<br>Each | Stock<br>No.                | Price<br>Each     |
| 0-50 DC Volts                                                       | 35A6191                   | \$18.00       | 35A6142      | \$19.00       | 35A6057                     | \$20.00           |
| 0-300 DC Volts                                                      | 35A6192                   | 18.00         | 35A6143      | 19.00         | 35A6058                     | 20.00             |
| 0-50 DC MV                                                          | 35A6190                   | 17.00         | 35A6054      | 18.00         | 35A6059                     | 19.00             |
| 0-1 DC MA                                                           | 35A6185                   | 16.50         | 3586144      | 17.50         | 35A6060                     | 18.50             |
| 0-10 DC MA                                                          | 35A6186                   | 16.50         | 35A6055      | 17.50         | 35A6061                     | 18.50             |
| 0-50 DC MA                                                          | 3546187                   | 16.50         | 35A6145      | 17.50         | 35A8062                     | 18.50             |
| 0-100 DC MA                                                         | 3546188                   | 16.50         | 35A6146      | 17.50         | 35A6063                     | 18.50             |
| 0-500 DC MA                                                         | 35A6189                   | 16.50         | 35A6147      | 17.50         | 35A6064                     | 18.50             |
| 0-50 DC uA                                                          | 35A6193                   | 21.50         | 35A6148      | 22.50         | 35A6065                     | 23.50             |
| 0-100 DC uA                                                         | 35A6199                   | 20.00         | 35A6149      | 21.00         | 35A6066                     | 22.00             |
| 0-150 AC Volts                                                      | 35A6197                   | 17.00         | 35A6150      | 18.00         | 35A6067                     | 19.00             |
| 0-300 AC Volts                                                      | 35A6198                   | 17.00         | 35A6151      | 18.00         | 35A6068                     | 19.00             |
| 0-5 AC Amp                                                          | 35A6194                   | 16.00         | 35A6152      | 17.00         | 3546069                     | 18.00             |
| 0-10 AC Amp                                                         | 35A6195                   | 16.00         | 35A6056      | 17.00         | 35A6070                     | 18.00             |
| 0-50 AC Amp                                                         | 35A6196                   | 16.00         | 35A6153      | 17.00         | 35A6071                     | 18.00             |
| Bezels for "G" Series<br>meter, 3.09 X 1.69"<br>4.92" W. X 2.85" H. | Meters. Me<br>H.; for 31/ |               |              |               | erall size fi<br>H.; for 4" | or 2½2″<br>meter, |
| No. 35A6203. For 21/2"<br>No. 35A6155. For 31/2"                    |                           |               |              |               |                             |                   |

No. 35A6167. For 4" Meters, 13A-235. Each... 1.70

#### TRIPLETT NULL METERS G SERIES

Sensitivity at Null Point is 0.3 ua per degree. End scale value is 40-0-40  $\pm$  20%. Center spot mirrored for elimination of parallax in reading.

Center spot mirrored for elimination of parallax in reading. Suspension type movements. 40-0-40 320 G 31/2" meter. With 1700 ohms resistance. Triplett 8069752. 40-0-40 420 G 41/2" meter. With 1700 ohms resistance. Triplett 8069852. No. 35A6201 Each. \$39.00

\$40.40

#### POPULAR PRICED SHURITE PANEL METERS

|      | P.L | NO.   | - je |    |
|------|-----|-------|------|----|
|      | 1.0 | P ISY |      |    |
| Ante |     |       | X    | 17 |
| -    |     |       |      |    |

Attractive new design. For sturdy dependable service. Wide selection of ranges. Calibrated for non-magnetic panels. Accurate within 5%. White, metal scale, black calibra-tions. DC meters polarized-vane solenoid type, AC meters double vane repulsion type, jeweled bearings. All mount in 2%27 round hole. Extend 1%7 behind panel. MODEL 850

| Concession in which the |             |              |        | Mode 21%2" | ₩. x 2%  | lear Plastic | Case. Cas<br>wt. 8 oz. | e front |
|-------------------------|-------------|--------------|--------|------------|----------|--------------|------------------------|---------|
| DC                      | MICROAMMETI | R-Clear P    | iastic |            |          | DC VOLTS-C   | lear Plastic           | :       |
| Range                   | Stk. No.    | Mfg. No.     | Each   |            | Range    | Stk. No.     | Mfg. No.               | Each    |
| 0-500                   | 35A6000     | 8902         | \$4.50 |            | 0-3      | 35A6023      | 8102                   | \$2.85  |
| DC                      | MILLIAMMETE | R-Clear Pl   | astic  |            | 0-5      | 35A6024      | 8104                   | 2.85    |
| 0-1                     | 35A6165     | 8336         | \$4.25 |            | 0-10     | 35A6025      | 8107                   | 2.85    |
| 0-3                     | 35A6166     | 8301         | 3.45   |            | 0-15     | 35A6026      | 8108                   | 2.85    |
| 0-5                     | 35A6003     | 8302         | 3.15   |            | 0-25     |              | 8109                   | 3.00    |
| 0-10                    | 35A6004     | 8303         | 3.05   |            | 0-50     |              | 8122                   | 2.95    |
| 0-15                    | 35A6005     | 6304         | 2.85   |            | 0-150    | 35A6029      | 8115                   | 3.15    |
| 0-25                    | 35A6006     | 8305         | 2.85   |            |          | AC VOLTS-C   | lear Disette           |         |
| 0-50                    | 35A6007     | 8306         | 2.85   |            | 0-10     | 35A6030      | 8403                   | \$4.05  |
| 0-100                   | 35A6008     | 8307         | 2.85   |            | 0.25     | 35A6031      |                        | 4.05    |
| 0-150                   | 35A6009     | 8308         | 2.85   |            | 0-150    | 35A6033      | 8406                   | 4.65    |
| 0-200                   | 35A6010     | 8309         | 2.85   |            | 0-300    | 3546034      | 8407                   | 5.05    |
| 0-300                   | 35A8011     | 8310         | 2.85   |            |          |              |                        |         |
| 0-500                   | 35A6012     | 8312         | 2.85   |            | AC       | AMMETER-     | <b>Clear</b> Plast     | ic      |
|                         | DC AMPS-C   | Inor Disetic |        |            | 0-3      | 35A6035      | 8502                   | \$4.00  |
| 0-3                     | 35A6013     | 8202         | \$2.85 |            | 0-5      | 35A6036      | 8503                   | 4.00    |
| 0-5                     | 35A6014     | 8203         | 2.85   |            | 0-10     | 35A6037      | 8504                   | 4.00    |
| 0-10                    | 35A6015     | 8205         | 2.85   |            | 0-15     | 35A6038      | 8508                   | 4.00    |
| 0-15                    | 35A6016     | 8206         | 2.85   |            | 0-30     | 35A6039      | 8505                   | 4,25    |
| 0-25                    | 35A6017     | 8207         | 3,15   |            |          | OHMM         | TED                    |         |
| 0-50                    | 35A6018     | 8208         | 3.15   |            | Measures | resistance   |                        |         |
| 10-0-10                 |             | 8213         | 3.15   |            | Stk. No. |              |                        | Net Es. |
| 20-0-20                 |             | 8214         | 3.15   |            | 35A6020  |              | Plastic                | \$3.35  |

#### LIGHTING LEVEL INDICATOR

A handy pocket-size meter (3¼"x2¼"x1¼") for checking the lighting level of various working areas. Simply place the meter on bench, desk, or other working surface, and it quickly shows whether the light level is adequate for efficient operation, or whether eye strain or fatigue may result because the level is too high or too low. Shielded to minimize the effect of external magnetic influences. No. 35A6202. Shurite 7902 FC. Each. \$9.75





## SIMPSON PANEL METERS

O MODERN "WIDE-VUE" 3½" METER MODELS 1327, 1357 with 3.14" scale length. One piece molded clear plastic wrap around cover. Black case 3¼x3¼". All DC movements are self shielded core magnet movement eliminating calibration prob-lems in metal panels or in magnetic fields. AC meters are moving vane type. Mount in 2¾" hole. Average shpg. wt. 12 ozs.

(a) 41/2" RECTANGULAR MODEL 29 and 59. Large, accurate, open face instruments with long easy-to-read scale. Black bakelite case 4,66" W., 4.20" H. Mount in 23/4" hole. Scale length 3.9". Calibrated  $\pm 2$ %. Average shpg. wt. 1 lb.

QUANTITY PRICES: 10 to 24 deduct 10% from "Each" price; 25 up deduct 15% from "Each" price. -----

|                                                                                                                                         |                                                                                      | D                                                                                                                                                                                                                 | •                                                                                                                                            |                                                                                 |                                                                                                                                                         |                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Range<br>MA                                                                                                                             | Modet<br>No.                                                                         | Stock<br>No.                                                                                                                                                                                                      | Net<br>Each                                                                                                                                  | Model<br>No.                                                                    | Stock<br>No.                                                                                                                                            | Nei<br>Eacl                                                    |
| 0-1                                                                                                                                     | 1327                                                                                 | 35A6072                                                                                                                                                                                                           | \$19,50                                                                                                                                      | 29                                                                              | 35A6113                                                                                                                                                 | \$20.8                                                         |
| 0-5<br>0-10                                                                                                                             | 1327<br>1327                                                                         | 35A6073<br>35A6074                                                                                                                                                                                                | 19.50<br>19.50                                                                                                                               | 29                                                                              | 0540444                                                                                                                                                 |                                                                |
| 0-15                                                                                                                                    | 1327                                                                                 | 3546075                                                                                                                                                                                                           | 19.50                                                                                                                                        |                                                                                 | 35A6114                                                                                                                                                 | 20.8                                                           |
| 0-50                                                                                                                                    | 1327                                                                                 | 3546076                                                                                                                                                                                                           | 20.10                                                                                                                                        | 29                                                                              | 35A6115                                                                                                                                                 | 21.7                                                           |
| 0-100                                                                                                                                   | 1327                                                                                 | 35A6077                                                                                                                                                                                                           | 20.10                                                                                                                                        |                                                                                 |                                                                                                                                                         |                                                                |
| 0-150                                                                                                                                   | 1327                                                                                 | 35A6078                                                                                                                                                                                                           | 20.10                                                                                                                                        |                                                                                 | ************                                                                                                                                            |                                                                |
| 0-300<br>0-500                                                                                                                          | 1327<br>1327                                                                         | 35A6079                                                                                                                                                                                                           | 20.10                                                                                                                                        |                                                                                 |                                                                                                                                                         |                                                                |
| 0-500                                                                                                                                   | 1327                                                                                 | 35A6080<br>DC                                                                                                                                                                                                     | 20.10                                                                                                                                        | 29                                                                              | 3546116                                                                                                                                                 | 21.7                                                           |
| UA                                                                                                                                      | Model                                                                                | Stk. No.                                                                                                                                                                                                          | MICROAMMET<br>Each                                                                                                                           | Model                                                                           | Stk. No.                                                                                                                                                | Each                                                           |
| 0-50                                                                                                                                    | 1327                                                                                 | 35A6082                                                                                                                                                                                                           | 24.75                                                                                                                                        | 29                                                                              | 3546118                                                                                                                                                 | 26.8                                                           |
| 0-100                                                                                                                                   | 1327                                                                                 | 3546083                                                                                                                                                                                                           | 22.80                                                                                                                                        | 29                                                                              | 3546119                                                                                                                                                 | 25.3                                                           |
| 0.200                                                                                                                                   | 1327                                                                                 | 35A6084                                                                                                                                                                                                           | 20.85                                                                                                                                        | 29                                                                              | 35A6120                                                                                                                                                 | 22.8                                                           |
| 0-500                                                                                                                                   | 1327                                                                                 | 35A6085                                                                                                                                                                                                           | 20.55                                                                                                                                        | 29                                                                              | 35A6121                                                                                                                                                 | 22.2                                                           |
| 500-0-500                                                                                                                               | 1327                                                                                 | 35A6086                                                                                                                                                                                                           | 19.80                                                                                                                                        | 29                                                                              | 35A6122                                                                                                                                                 | 21.0                                                           |
| Amps                                                                                                                                    | Model                                                                                | Stk. No.                                                                                                                                                                                                          | DC AMMETER                                                                                                                                   | •                                                                               | Cal- at-                                                                                                                                                |                                                                |
| 0-1                                                                                                                                     | 1327                                                                                 |                                                                                                                                                                                                                   | Each                                                                                                                                         | Model                                                                           | Stk. No.                                                                                                                                                | Each                                                           |
| 0-3                                                                                                                                     | 1327                                                                                 | 35A6087<br>35A6088                                                                                                                                                                                                | \$20.10<br>20.10                                                                                                                             | 29                                                                              | 35A6123                                                                                                                                                 | \$21.7                                                         |
| 0-5                                                                                                                                     | 1327                                                                                 | 3546089                                                                                                                                                                                                           | 20.10                                                                                                                                        | 29                                                                              | 3546124                                                                                                                                                 | 21.7                                                           |
| 0.10                                                                                                                                    | 1327                                                                                 | 35A6090                                                                                                                                                                                                           | 20.10                                                                                                                                        |                                                                                 | 33M0124                                                                                                                                                 | 21.7                                                           |
| 0-25                                                                                                                                    | 1327                                                                                 | 35A6091                                                                                                                                                                                                           | 20.10                                                                                                                                        | 29                                                                              | 35A6125                                                                                                                                                 | 21.7                                                           |
| 0-50                                                                                                                                    | 1327                                                                                 | 35A6092                                                                                                                                                                                                           | 20.10                                                                                                                                        | 29                                                                              | 35A6126                                                                                                                                                 | 21.7                                                           |
| Range V.                                                                                                                                | DC \<br>Model                                                                        | OLTMETERS (10                                                                                                                                                                                                     |                                                                                                                                              | VOLTS is 200                                                                    |                                                                                                                                                         |                                                                |
| 0-5                                                                                                                                     | 1327                                                                                 | Stk. No.                                                                                                                                                                                                          | Each                                                                                                                                         | Model                                                                           | Stk. No.                                                                                                                                                | Each                                                           |
| 0-5                                                                                                                                     | 1327                                                                                 | 35A6093<br>35A6094                                                                                                                                                                                                | \$20.85                                                                                                                                      | 29                                                                              | 0514407                                                                                                                                                 |                                                                |
| 0-25                                                                                                                                    | 1327                                                                                 | 3546095                                                                                                                                                                                                           | 20.85<br>20.85                                                                                                                               | 29                                                                              | 35A6127<br>35A6128                                                                                                                                      | \$22.8                                                         |
| 0.50                                                                                                                                    | 1327                                                                                 | 3546096                                                                                                                                                                                                           | 20.85                                                                                                                                        | 29                                                                              | 3546128                                                                                                                                                 | 22.8<br>22.8                                                   |
| 0-100                                                                                                                                   | 1327                                                                                 | 35A6097                                                                                                                                                                                                           | 20.85                                                                                                                                        | 29                                                                              | 35A6130                                                                                                                                                 | 22.8                                                           |
| 0-150                                                                                                                                   | 1327                                                                                 | 35A6098                                                                                                                                                                                                           | 20.85                                                                                                                                        | 29                                                                              | 35A6131                                                                                                                                                 | 22.8                                                           |
| 0-300                                                                                                                                   | 1327                                                                                 | 35A6099                                                                                                                                                                                                           | 20.85                                                                                                                                        | 29                                                                              | 35A6132                                                                                                                                                 | 22.8                                                           |
| 0-500                                                                                                                                   | 1327                                                                                 | 35A6100                                                                                                                                                                                                           | 21.75                                                                                                                                        | 29                                                                              | 35A6133                                                                                                                                                 | 23.5                                                           |
|                                                                                                                                         |                                                                                      |                                                                                                                                                                                                                   |                                                                                                                                              |                                                                                 |                                                                                                                                                         |                                                                |
| 0.5                                                                                                                                     | 1257                                                                                 |                                                                                                                                                                                                                   | AC VOLTMETER                                                                                                                                 |                                                                                 |                                                                                                                                                         |                                                                |
| 0-5                                                                                                                                     | 1357                                                                                 | 35A6101                                                                                                                                                                                                           | \$19.05                                                                                                                                      | ł\$                                                                             |                                                                                                                                                         |                                                                |
| 0-5<br>0-10<br>0-15                                                                                                                     | 1357<br>1357<br>1357                                                                 |                                                                                                                                                                                                                   |                                                                                                                                              |                                                                                 | 35A6134                                                                                                                                                 | \$21.3                                                         |
| 0-10<br>0-15<br>0-100                                                                                                                   | 1357<br>1357<br>1357                                                                 | 35A6101<br>35A6102<br>35A6103<br>35A6104                                                                                                                                                                          | \$19.05<br>19.05                                                                                                                             |                                                                                 | 3546134                                                                                                                                                 | \$21.3                                                         |
| 0-10<br>0-15<br>0-100<br>0-150                                                                                                          | 1357<br>1357<br>1357<br>1357                                                         | 35A6101<br>35A6102<br>35A6103<br>35A6104<br>35A6104                                                                                                                                                               | \$19.05<br>19.05<br>19.05<br>19.80<br>19.80                                                                                                  | 59                                                                              | 35A6135                                                                                                                                                 | 21.7                                                           |
| 0-10<br>0-15<br>0-100<br>0-150                                                                                                          | 1357<br>1357<br>1357                                                                 | 35A6101<br>35A6102<br>35A6103<br>35A6104                                                                                                                                                                          | \$19.05<br>19.05<br>19.05<br>19.80<br>19.80<br>20.55                                                                                         | 59<br>59<br>59                                                                  | ** **** *********                                                                                                                                       | 21.7                                                           |
| 0-10<br>0-15<br>0-100<br>0-150<br>0-300                                                                                                 | 1357<br>1357<br>1357<br>1357<br>1357<br>1357                                         | 35A6101<br>35A6102<br>35A6103<br>35A6104<br>35A6105<br>35A6106                                                                                                                                                    | \$19.05<br>19.05<br>19.05<br>19.80<br>19.80<br>20.55<br>AC AMMETERS                                                                          | 59<br>59<br>59<br>59                                                            | 35A6135<br>35A6136                                                                                                                                      | 21.7<br>21.7                                                   |
| 0-10<br>0-15<br>0-100<br>0-150<br>0-300<br>Range                                                                                        | 1357<br>1357<br>1357<br>1357<br>1357<br>1357<br><b>Model</b>                         | 35A6101<br>35A6102<br>35A6103<br>35A6104<br>35A6105<br>35A6106<br>\$tk. No.                                                                                                                                       | \$19.05<br>19.05<br>19.05<br>19.80<br>20.55<br>AC AMMETERS<br>Each                                                                           | 59<br>59<br>59<br>59<br>59<br>59                                                | 35A6135<br>35A6136<br>Stk. No.                                                                                                                          | 21.7<br>21.7<br>Each                                           |
| 0-10<br>0-15<br>0-100<br>0-150<br>0-300<br><b>Range</b><br>0-1 A.<br>0-3 A.                                                             | 1357<br>1357<br>1357<br>1357<br>1357<br>1357                                         | 35A6101<br>35A6102<br>35A6103<br>35A6104<br>35A6105<br>35A6106                                                                                                                                                    | \$19.05<br>19.05<br>19.05<br>19.80<br>19.80<br>20.55<br>AC AMMETERS                                                                          | 59<br>59<br>59<br>59                                                            | 35A6135<br>35A6136                                                                                                                                      | 21.7<br>21.7<br>Each                                           |
| 0-10<br>0-15<br>0-100<br>0-150<br>0-300<br><b>Range</b><br>0-1 A.<br>0-3 A.<br>0-5 A.                                                   | 1357<br>1357<br>1357<br>1357<br>1357<br>1357<br><b>Model</b><br>1357<br>1357<br>1357 | 35A6101<br>35A6102<br>35A6103<br>35A6105<br>35A6105<br>35A6106<br>\$tk. No.<br>35A6107                                                                                                                            | \$19.05<br>19.05<br>19.05<br>19.80<br>20.55<br>AC AMMETERS<br>Each<br>\$18.15<br>18.15<br>18.15                                              | 59<br>59<br>59<br>59<br>59<br>59<br>59                                          | 35A6135<br>35A6136<br>Stk. No.                                                                                                                          | 21.7<br>21.7<br>Each<br>\$19.3                                 |
| 0-10<br>0-15<br>0-100<br>0-150<br>0-300<br><b>Range</b><br>0-1 A.<br>0-3 A.<br>0-5 A.<br>0-10 A.                                        | 1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357                         | 35A6101<br>35A6102<br>35A6103<br>35A6104<br>35A6105<br>35A6106<br>Stk. No.<br>35A6107<br>35A6107<br>35A6109<br>35A6110                                                                                            | \$19.05<br>19.05<br>19.05<br>19.80<br>20.55<br>AC AMMETERS<br>Each<br>\$18.15<br>18.15<br>18.15<br>18.15                                     | 59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59                              | 35A6135<br>35A6136<br>Stk. No.<br>35A6137<br>35A6138<br>35A6139                                                                                         | 21.7<br>21.7<br>Each<br>\$19.3<br>19.3                         |
| 0-10<br>0-15<br>0-100<br>0-150<br>0-300<br><b>Range</b><br>0-1 A.<br>0-3 A.<br>0-5 A.<br>0-10 A.<br>0-25 A.                             | 1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357                         | 35A6101<br>35A6102<br>35A6103<br>35A6103<br>35A6105<br>35A6106<br>\$tk. No.<br>35A6107<br>35A6108<br>35A6109<br>35A6110<br>35A6110                                                                                | \$19.05<br>19.05<br>19.05<br>19.80<br>20.55<br>AC AMMETERS<br>Each<br>\$18.15<br>18.15<br>18.15<br>18.15<br>18.15<br>18.15                   | 59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59                  | 35A6135<br>35A6136<br>Stk. No.<br>35A6137<br>35A6138<br>35A6139<br>35A6140                                                                              | 21.7<br>21.7<br>Each<br>\$19.3<br>19.3<br>19.3<br>21.7         |
| 0-10<br>0-15<br>0-100<br>0-150<br>0-300<br><b>Range</b><br>0-1 A.<br>0-3 A.<br>0-5 A.<br>0-10 A.<br>0-25 A.                             | 1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357                         | 35A6101<br>35A6102<br>35A6103<br>35A6104<br>35A6105<br>35A6106<br>Stk. No.<br>35A6107<br>35A6107<br>35A6109<br>35A6110                                                                                            | \$19.05<br>19.05<br>19.05<br>19.80<br>20.55<br>AC AMMETERS<br>Each<br>\$18.15<br>18.15<br>18.15<br>18.15                                     | 59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59                              | 35A6135<br>35A6136<br>Stk. No.<br>35A6137<br>35A6138<br>35A6139                                                                                         | 21.7<br>21.7<br>Each<br>\$19.3<br>19.3<br>19.3<br>21.7         |
| 0-10<br>0-15<br>0-100<br>0-150<br>0-300<br>0-1 A.<br>0-3 A.<br>0-5 A.<br>0-10 A.<br>0-25 A.<br>0-50 A.<br>0-50 A.                       | 1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357                         | 35A6101<br>35A6102<br>35A6103<br>35A6103<br>35A6105<br>35A6105<br>35A6105<br>35A6105<br>35A6107<br>35A6109<br>35A6109<br>35A6109<br>35A6111<br>35A6112<br>MILLIAMMETEF                                            | \$19.05<br>19.05<br>19.05<br>19.80<br>20.55<br>AC AMMETER:<br>Each<br>\$18.15<br>18.15<br>18.15<br>18.15<br>18.30<br>18.90                   | 59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59      | 35A6135<br>35A6136<br>Stk. No.<br>35A6137<br>35A6138<br>35A6139<br>35A6139<br>35A6141                                                                   | 21.7<br>21.7<br>Each<br>\$19.3<br>19.3<br>19.3<br>21.7<br>21.7 |
| 0-10<br>0-15<br>0-100<br>0-100<br>0-300<br><b>Range</b><br>0-1 A.<br>0-3 A.<br>0-5 A.<br>0-10 A.<br>0-25 A.<br>0-50 A.<br>() MOD<br>No. | 1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357                         | 35A6101<br>35A6102<br>35A6103<br>35A6103<br>35A6105<br>35A6105<br>35A6106<br>35A6107<br>35A6107<br>35A6109<br>35A6109<br>35A6109<br>35A6110<br>35A6110<br>35A6111<br>35A6111<br>35A6112<br>MILLIAMMETER<br>Ohms E | \$19.05<br>19.05<br>19.05<br>19.80<br>20.55<br>AC AMMETERS<br>Each<br>\$18.15<br>18.15<br>18.15<br>18.90<br>18.90                            | 59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>5 | 35A6135<br>35A6136<br>Stk. No.<br>35A6137<br>35A6138<br>35A6138<br>35A6139<br>35A6140<br>35A6141                                                        | Each                                                           |
| 0-10<br>0-15<br>0-100<br>0-150<br>0-300<br>0-1 A.<br>0-3 A.<br>0-10 A.<br>0-25 A.<br>0-25 A.<br>0-50 A.<br>① MOD                        | 1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357<br>1357                         | 35A6101<br>35A6102<br>35A6103<br>35A6104<br>35A6105<br>35A6106<br>35A6106<br>35A6106<br>35A6108<br>35A6109<br>35A6110<br>35A6110<br>35A6110<br>35A6112<br>MILLIAMMETEFF<br>0hms E<br>875 \$1                      | \$19.05<br>19.05<br>19.05<br>19.80<br>20.55<br>AC AMMETERS<br>Each<br>\$18.15<br>18.15<br>18.15<br>18.15<br>18.15<br>18.30<br>18.90<br>18.90 | 59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59      | 35A6135<br>35A6136<br>Stk. No.<br>35A6137<br>35A6138<br>35A6139<br>35A6139<br>35A6139<br>35A6140<br>35A6141<br>35A6141<br>9<br>TR.F. AMMET<br>e Thermo. | 21.7<br>21.7<br>Each<br>\$19.3<br>19.3<br>21.7<br>21.7         |

#### **② SIMPSON TAUT BAND MICROAMMETERS**

Taut band movement offers increased reliability, higher sensitivity, lower resistance and greater ruggedness. No. 35A6178. Model 1327T. 3½ Inch 0-10 Microamp No. 35A6081. Model 1327T. 3½ Inch 0-25 Microamp No. 35A6179. Model 1327T. 3½ Inch 0-50 Microamp No. 35A6180. Model 1327T. 3½ Inch 0-100 Microamp Microamp DC. Microamp DC. Microamp DC. Microamp DC. Net Ea. \$40.65 Net Ea. Net Ea. \$35.26 \$27.00 Net Ea. \$24.75

#### DC GALVANOMETERS-SELF SHIELDING 31 IN.

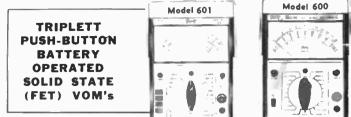
| Stk. No. | Mfg. No. | Size Ins. | Scale Range | Sensitvity<br>Microamp | Net Each |
|----------|----------|-----------|-------------|------------------------|----------|
| 35A6181  | 1327     | 31/2      | 50-0-50     | 500-0-500              | \$19.80  |
| 35A6182  | 1327     | 31/2      | 50-0-50     | 75-0-75                | 22.20    |

#### SIMPSON VOLUME LEVEL INDICATORS

#### All Simpson and Triplett Meters Are Available From B-A

# TRIPLETT TESTERS AND JED METERS





Field effect transistorized circuitry provides 11 megohm input on all AC and DC volt ranges, low power ohms feature to prevent damage to integrated circuits. In-circuit resistance measurements can be made without usual diode or transistor loading. Push-button switches select: DC volts (-) ohms; DC volts (-) ohms; AC volts and low power ohms. **53 Test Ranges Include: DC Volts:** 0 - .1 - .3 - 1 - 3 - 10 - 30 - 100 - 300 - 1000 at 11 megohms. AC Volts: 0 - .01 - .03 - .1 - .3 - 1 - 3 - 10 - 30 - 100 - 300. 1000 at 11 megohms.

11 megohms

11 megohms. Ohms: 0-1K-10K, 100K, 1 meg, 10 meg, 100 meg, 1000 meg with 10 ohm center scale. Both conventional and low power. **AC-DC Current Ranges:** 0 - 10 - 100 - 1000 - 10,000 microamperes. **DB (Decibel):** -40 db to +60 db. Off and battery check. Accuracy  $\pm 2\%$  full scale on DC and  $\pm 3\%$  on AC. 5" meter. Uses 10 AA penlight cells (included). With slim shielded probe and instructions. Size  $3\sqrt{k} \times 5\sqrt{k} \times 6\sqrt{2}$ ". Shog. wt. 5 lbs. Use 639-05 Carrying Case listed at bottom of page. **\$150.00** 

| No. 35A3011  | 601 Solid State VOM. | Net Each           |
|--------------|----------------------|--------------------|
| No. 35A8026. | T-79-270. Hi-Voltage | Probe. Each\$25.20 |
| No. 35A8027. | T-79-271. RF Probe.  | Each\$ 9.00        |

TRIPLETT MODEL 600 TRANSISTORIZED VOLT-OHMETER

Has Field-Effect-Tranistor (FET) amplifier.  $\pm$  3% accuracy on all ranges. Internal battery powered (batteries included). Easy to read 5 inch meter. Input 11 megohms all DC ranges except 2.75 meg at 0.4 volts, 5.5 meg at Input 11 0.8 volts.

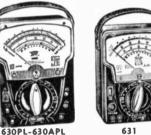
23 Ranges in All: DC volts, 0.4, 0.8, 1.6, 4, 8, 16, 40, 160, 400, 1600. AC volts, 4, 8, 16, 40, 160, 400, 800. Ohms, 1000, 10,000, 100,000, 1 Meg, 10 Meg, 100 Meg.

Case  $3r_3 \times 51/8 \times 61/2$ ". With probe, 48" leads. Shpg. wt. 3 lbs. Use 639-OS Carrying Case listed at bottom of page. \$82.00 No. 35A666. Model 600. Net Each

| No. | 35A8028. | T-79-265. | Hi-Vo | oltage | Probe. | Each | 5.20 |
|-----|----------|-----------|-------|--------|--------|------|------|
| No. | 35A8029. | T-79-264. | RF F  | Probe. | Each   |      | 9.00 |

#### **TRIPLETT MULTIMETERS - TESTERS**





630

630 ALL-TIME FAVORITE MULTIMETER

**630** ALL-TIME FAVORITE MULTIMETER Proven dependability over a long period of time 20,000 ohm per volt sensi-tivity DC and 5000 ohms AC. Accuracy 2% DC and 3% AC voltage ranges 0 - 3 - 12 - 60 - 300 - 1200 - 6000. Ohms 0 - 10000. Megs 0 - 1 - 100. DC microamps 0 - 60. DC milliamps 0 - 1.2 - 12 - 120 at 250 millivolts. DC amperes 0 - 12. DB --20 to +77. Output volts 0 - 3 -12 - 60 - 300 - 1200. Size  $3\frac{1}{32} \times 5\frac{1}{2} \times 7\frac{1}{2}$ ", Wt. 4 lbs. No. 35A170. Model 630. Complete with leads. Net Each.

No. 35B67. Model 630PL V.O.M.A. Net.

SUPER-PRECISION MODEL 630APL TYPE 3 Model 630APL is identical to 630PL above except has  $\frac{1}{2}$ % resistors an mirrored scale. Accuracy  $\pm 1\frac{1}{2}$ % DC,  $\pm 3$ % AC. Has suspension type meter resistors and overload protected. \$71.00 35A149. Model 630APL. Net.....

BURNOUT PROOF 630PLK TYPE 3

No expensive repair and down-time because of accidental miss-use or over-load. Transistorized electronic switching circuit guards against accidental burn-out. See 630 for other specs. Great for schools, labs and maintenance shops. \$93.00 No. 35B46. Model 630PLK. Net Each ...

BLACK LEATHER CARRYING CASES No. 639-05 for all 630 and 631 series Triplett testers. Permits use of instru-ment in case. Protects and cushions. Has built-in stand. \$14 70 \$14.70 No. 35868. Net Each.

 
 REPLACEMENT
 LEADS

 Leads for Models
 630A, 630PL, 630APL, 630PLK, 630APLK, 631, 666-R, 620NA, 630M, 630NS, 800. Wf. 10 ozs.

 No. 35A8010. T99-127. Net Each.
 \$3.20
 \$3.20

Burstein-Applebee, 3199 Mercier St., Kansas City, Mo. 64111, Phone (816) 531-5614

# Simpson and RCA TEST EQUIPMENT



**RUGGED AND DEPENDABLE MODEL 260-5** High sensitivity (20,000 o.p.v. DC volts; 5000 o.p.v. AC volts) Varistor protects the movement from even 200,000% overloads. Self shielding and shockproof 50 microampere movement. DC volts ranges 0-25, 2.5, 10, 50, 250, 1000, 5000 volts; AC volts ranges 0-25, 10, 50, 250, 1000, 5000; DC current ranges 0-50 microamps, 0-1, 10, 100, 500 M.A.; 0-10 Amps; 4 DB ranges from -20 to +50 db; Resistance readings 1/5 ohm to 20 meg. 5" meter. 1 mfd capacitor in series with all AC voltage ranges through 250 volts. Accuracy 2% full scale, most DC ranges; 3% full scale AC. With test leads, manual and built in stand. 51/4x7x31/6". Wt. 5 lbs. \$65.00 \$65.00 No. 35A60. Simpson Model 260-5. Net Each .... No. 35B61. Model 260-5M. With Mirrored Scale, knife edge pointer. Net \$67.00 No. 35851. Model 260-5RT. In Protective Roll Top Case. Wt, 9 lbs. Net \$71.00

#### "GOOF-PROOF" PROTECTED MODEL 260-5P

All of the features of the 260-5M plus 260-5. Built-in meter protection makes this VOM "goof-proof." Ideal for students, apprentices, for exploring unfamiliar equipment. Combined protection includes: reset button pops out to indicate overload, cannot reset circuits while overload is present. Protective circuit does not require massive overloads, all ranges protected except 1000 and 5000 volts DC and AC, 10 amps DC. \$97.00 \$97.00 No. 35C24. Model 260-5P. Net Each.

#### HIGH ACCURACY MODEL 261-2

All of the features of the 260-5M plus special calibration, mirror scale, knife edge pointer, burn-out protected, input protected by internal fuse. Accuracy 1.5% full scale, most DC ranges, 3% full scale AC. Wt. 5 lbs. **\$73.00** fuse. Accuracy s. \$73.00 No. 35850, Model 261-2, Net Each .....

## MODEL 270-3 MULTIMETER NOW HAS TAUT BAND SELF SHIELDING ANNULAR MOVEMENT

The Extra Quality Laboratory Instrument featuring: ● Creater accuracy. ● special calibration circuit for greater accuracy, overload protected ● DC accuracy 1/4 % full scale 20,000 ohms per volt. ● AC accuracy 2% full scale 5,000 ohms per volt.

 Mirrored scale.
 Knife-edge pointer.
 Ranges: 7 DC volts from 250 MV to 5000 volts.
 AC volts from 2.5 to 5000 volts.
 AC volts (output) 4 ranges 2.5 to 250 volts.
 DC current 50 ua to 10 amps in 6 ranges.
 DC current 50 ua to 10 amps in 3 ranges. MV to put) 4

Black molded case 51/4×7×31/8". Wt. 51/2 lbs. No. 35A41. Model 270-3. Net Each. \$78.00

CARRYING CASE FOR 260-270 No. 35A165. Model 0805. Ever-redy vinyl. Wt. 1 lb. Net Each........\$13.00



#### AMP-CLAMP PLUG-IN ADAPTER FOR AC AMPERE MEASUREMENTS

Allows measurement to be made without breaking circuit being tested. Simply plugs into 260, 261, 270, 250 or 255 VOM. Ranges: 0-5, 10, 25, 50, 100, 250 AC Amperes. Readout is on VOM's 0-2.5 VAC scale. May be used with any VOM having 0-2.5, or 0-3 VAC range. (When used with 0-3 VAC adapter ranges are from 0-6 to 0-300 AC amperes). Rugged construction, and easy to use. Wt 1 lb. Wt. 1

No. 35A3019. Model 150. Net Each \$30.00 Carrying Case for amp. clamp. No. 35A8023. 0548

# SIMPSON 160 HANDI-VOM FULL FEATURED, YET PALM SIZED

FULL FEATURED, YET PALM SIZED All the time saving conveniences and the sensitivity of a full-sized VOM, yet only  $4\frac{1}{6}$ ,  $x = 3\frac{1}{3}$ ,  $x = 13\frac{4}{3}$ and weighs only 12 oz. Features self-shielding taut, band movement, diode overload protection to pre-vent burnout. Accuracy  $\pm 29$ , FS DC,  $\pm 4\%$  FS AC. Ranges DC volts: 0-0.25, 1.0, 2.5, 10, 50, 250, 500, 1000 at 20,000 ohms per volt. AC volts 0-2.5, 10, 50, 250, 500, 1000 at 5000 ohms per volt, DC microamps 0-50, DC MA 0-1, 10, 100, 500. Re-sistance RX1, RX100, RX1000, RX1000, RX10K 30 ohm center scale. DB -20 to  $\pm 50$  in 4 ranges. Shog, wt. 1 lb. \$55.00 No. 35A664. Model 160. Net Each ...

2225 Leather Carrying Case No. 35A665. Shpg. wt. 1 lb. Net Each. \$10.00 SIMPSON 313 SOLID STATE VOM VTVM FEATURES...WITH VOM CONVENIENCE



ES...WITH VOM CONVENIENCE Operates for over 300 hours on a single 9 volt battery. Battery condition checked instantly. Self-shielding movement is shockproof and over-load protected. All voltage range inputs are fully protected, too, Even AC line voltage can be applied on ohms ranges without damage to the Field Effect Transistor input. 7" Scale. Voltage Ranges: DC: 0-0.3, 1, 3, 10, 30, 100, 300, 1000 volts (11 meg input impedance); AC: input impedance); Current ranges: DC: 0-0.1, 1, 10, 1000 milliamperes; Resistance ranges; RX1 (10 ohm center), RX10, RX100, RX1K, RX10K, RX100K, RX1M, Frequency response: ±0.5 db from 20 Hz to 100K Hz on 0-0.3, 1, 3 volt ranges; ±0.5 db from 20 Hz to 20K Hz on 0-10, 30, 100 volt ranges. Accuracy: DC ±3% of full scale; AC: ±3% of full scale. Resistance: ±3°

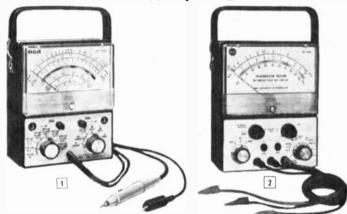
of arc.

Complete with test leads, isolating probe and No. 35A3021. 0577 Carrying Case for above. Vinyl with lead storage space. \$16.00 \$10.75 \$18.00 Net Lach No. 35A8024. 00191 RF PROBE No. 35A8025. 00192 Hi Voltage Probe

SIMPSON 312 VTVM

SIMPSON 312 VTVM 16 Meg input. 40% less circuit loading than most VTVM's. Specially designed circuit protects meter against burnout, Large easy to read 7" scale.  $\frac{1}{2}$  volt range for solid state circuitry. Ranges: DC volts 0-0.5, 1.5, 5, 15, 50, 150, 500, 1500. AC volts (RMS 1 meg input) 0-1.5, 5, 15, 50, 150, 500, 1500. AC volts (peak-to-peak) 0-4, 14, 40, 140, 1400, 1400, 4000. Resistance ranges RX1, RX10, RX100, RX1K, RX10K, RX100K, RX1M. Freq. resp.,  $\pm 3\%$ , 15 Hz to 3 MHz on AC ranges through 150 volts. Accuracy: DC and AC  $\pm 3\%$  full scale. resistance  $\pm 3^{\circ}$  of arc. (105-125 V. 50/60 Hz. With 3 wire cord and plug. Size  $7^{3}(x63/x33/4"$ . Wt. 43/4 lbs. No. 35C27. Model 312 VTVM. Net Each. No. 35D34. RF Probe  $\pm 0152$ . Net Each. No. 35B37. High Voltage Probe  $\pm 0155$ . Net Each. Sectored and State Storage. State and Storage Storag

RCA TEST EQUIPMENT



#### () RCA WV500B SOLID STATE VOLTOHMYST

Stable, drift-free operation. Completely portable. Solid state design eliminates warm-up time and reduces zero-shift. Measures DC voltages from .01 to 1500 V in 8 ranges; AC rms voltages from .1 to 1500 volts in 7 ranges; AC P-P voltages from .5 to 4200 volts in 6 ranges; and resistances to 1000 megohms in 7 ranges. 11 meg. input on all DC ranges prevents overloading the circuit under test. Burn-out proof meter,  $\pm$  3% of full scale accuracy on DC and AC rms functions.

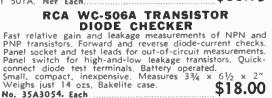
Size: 67/8×51 4×31/8". \ No. 35A3006 WV500B. With batteries and AC/DC ohms probe. Wt. 5 Ibs. \$79.00 Net Each

No. 35A3007 WC411A Hi-Volt Probe. Extends reading to 50KV. Each \$16.25

#### **C** RCA WT501A TRANSISTOR TESTER

Accurately tests transistors both in-circuit and out-of-circuit, both high and low power types. NPN and PNP sockets, three color coded leads for in-circuit testing. Tests transistors for DC beta from 1 to 1000, collector-to-base (1CBO) as low as two microamperes, collector-to-emitter leakage (1CEO) from 20 microamperes to one ampere. Collector current adjustable in 4 ranges Low impedance circuitry for reliable in-circuit testing. Mirrored scale. Size 67%x51%x31%", With instructions, batteries and RCA transistor manual, Wt, 3 lbs. No 3543008 WT 501A Not Each \$66.75 manual, Wt, 3 lbs. No. 35A3008 WT 501A, Net Each..... \$66.75





No. 35A3054. Each 

Burstein-Applebee Co., 3199 Mercier, Kansas City, Mo. 64111



#### **B&W MODEL 1077 TELEVISION ANALYST**

B&W MUDEL 1077 TELEVIS Service BGW and color, VHF and UHF, tube type and transistorized TV receivers. Supplies test signal for each separate stage, you watch results on T.V. set itself. No oscilloscope needed. By test pattern signal injection you can signal trace each stage from the antenna input to the last video amplifier grid. Also provides audio tone generator, sync and sweep circuit pulses, yoke and flyback tests. Supplied with standard test pattern, white dot and white line crosshatch and color bar pattern slide transparencies. Oper-ates on 105-125 VAC. Size 17"x101/4"x10". Wt. 29 Ibs. 29 lbs



\$379.95

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\$94.95

No. 35A302. Model 1077. Each

## B & K MODEL 465 CRT REJUVENATOR & CHECKER TESTS AND REPAIRS COLOR AND BLACK & WHITE PICTURE TUBES WITHOUT REMOVING TUBE FROM THE TV SET

TUBES WITHOUT REMOVINC Recognized standard of the industry! Checks for leakage, shorts, open circuits and emission. Removes inter-element shorts and leakage with adjustable voltage and controlled time. Con-tinuously variable element voltages provide obsolescence protection. Repairs open circuits. Restores emission and brightness. Life test checks condition of cathode emissive coating and pre-dicts remaining useful life of picture tube tube

Neon bulb indicators and a large  $41/2^{"}$ meter provide quick, easy reading. Op-erates on 117 V. 60 cps. Vinył covered carrying case. Size:  $101/2^{"}$  H. x  $111/2^{"}$ W. x  $41/2^{"}$  D. Shpg. wt. 8 lbs. No. **35A229. Model 465. Net Each**.....



Output voltage continuously adjustable. Meter indicates output voltage or current level. Panel switch selects meter function, circuit automatically limits overload current to prevent damage to the supply. Maintains constant output voltage regardless of varying line voltage or load resistance. .0005 rms volt max. ripple. Electronic short circuit protection. Three output terminals, DC+ DC-, Cnd. to obtain positive or negative output. Three wire cord. Operate on 105-135 VAC, 50-60 Hz. **WP-700A** Zero to 20 volts at current levels up to 200MA. Size  $4x6V_2x3''$ .

| Char M/A 3 lbs                          |                      |                        |                  |
|-----------------------------------------|----------------------|------------------------|------------------|
| Shpg. Wt. 3 lbs.                        |                      |                        |                  |
| No 3543039.                             | ¢ 4 0 0 0            | 5 or more<br>Each      | \$40.00          |
|                                         | 348.00               |                        | 340.00           |
| Each                                    | <b></b>              | Each                   |                  |
| No. 35A3039.<br>Each<br>WP-703A Zero to |                      |                        | Size 51/4×81/4×  |
| 31/4". Front panel si                   |                      |                        |                  |
| No. 35A3052.<br>Each                    | \$58 50              | 5 or more<br>Each      | \$49.00          |
| Fach                                    | φ, υ, υ, υ           | Each                   | φ12.00           |
| NUD TOAA Terry A.                       | 40 wells of everyons | levels up to 250MA.    | Size 51/ x81/x   |
| WP-/U4A Zero to                         | 40 voits at current  | ievers up to zoolvin.  | 3126 37440744    |
| 31/4". Front panel si                   | milar to WP-700A.    | Shpg. Wt. 5 lbs.       |                  |
| No. 35A3053.                            | ¢50 50               | 5 or more              | \$49.00          |
| No. 35A3053.                            | φ.ο.ου               | Each                   |                  |
| DIIAL UNIT Separa                       | te controls output f | terminals and meters f | or each section. |

 DUAL UNIT. Separate controls, output terminals and meters for each section.

 Sections isolated from each other otherwise identical to WP-700A above.

 6" x 12" x 3". Shpg. wt. 5 lbs.

 No. 35A3040. WP-702A.

 \$87.00
 5 or more each

 PUAL BANANA PLUC & LEADS Includes alligator clip connectors.

 No. 35A8021. WC-413A. Net Each

#### RCA WV-120A POWER LINE MONITOR

Provides a continuous, accurate indication of AC line voltage. Expanded 2-color scale—from 100 to 140 volts for easy reading. Input 100 to 140 volts @ 25 to 400 cps. High accuracy  $\pm 2\%$  at 120 volts,  $\pm 3\%$  at 100 and 140 volts. Moving vane meter gives accurate RMS readings. Fast meter action reveals "bounces" and fluc-tuations in line voltage. Large numerals, large pointer, large scale for easy reading. With AC outlet. Holes for wall mtg. 3<sup>1</sup>%<sub>4</sub>" High, 5" wide, 3%<sub>4</sub>" deep. No, 35A3051. Shpg. Wt. 1½ lbs. **\$18.50** \$18.50 Each



#### OTHER RCA TESTERS IN STOCK FOR OFF-SHELF DELIVERY RCA WV38A VOLT-OHM MILLIAMETER

| No. 35A90. WV38AK Kit. Each                                                                             | \$38.00 |
|---------------------------------------------------------------------------------------------------------|---------|
| No. 35A89. WV38A Factory Wired. Each                                                                    | \$52.00 |
| PCA WV77F VOLTOHMYSTS                                                                                   |         |
| No. 35A289. WV77EK Kit. Each                                                                            | \$38.00 |
| No. 35A71. WV77E Factory Wired. Each                                                                    | \$52.00 |
| RCA WV98C SENIOR VOLTOHMYST                                                                             |         |
| No. 35A355. WV98CK Kit. Each                                                                            | \$57.95 |
| No. 35A367. WV98C Factory Wired, Each                                                                   | \$88.50 |
| No. 35A367. WV98C Factory Wired. Each<br>No. 35A395. WC301A Crystal Probe. 30 cps to 250 MC. For WV98C. |         |
| Each                                                                                                    | \$8.25  |
| No. 35A263. WG289 Hi-Voltage (50K) Probe, For WV98C. Each                                               | \$17.00 |
|                                                                                                         |         |





3.58 mc. burst signal in color IV receivers. Double scale calibrated screen for easy voltage calibration. Vectorscope inputs and controls on front panel. SPECIFICATIONS: Intermittent Analyzer: Sensi-tivity: Proportionate to amplitude of signal. Variable from ± 10 to 50% of signal. Analyzer bandwidth 5Hz to 5MHz. Vertical Amplifier: (3-Stage, Push-Pull). Sensitivity 25 Millivolts rms/inch. 70 millivolts peak-to-peak/inch. Undistorted Deflection: Greater than 6 inches. Positioning: ± 2 inches, mini-mum. Bandwidth: 5 Hz to 5MHz (Down I db at 4.5 MHz). Rise Time: 120 nanoseconds or better. Overshoot: Less than 10%, Input Impedance: 3 meg-ohms shunted by 47 mmf maximum. Vertical-Input Step Attenuator: Fre-quency compensated, 7-step. Horizontal Amplifier: (Push-Pull). Sensitivity: 0,5 volts rms/inch or better. Bandwidth: Within 3 db, 2 Hz to 750 KHz. Input impedance: 5 megohms minimum shunted by 30 mmf. Inputs: Internal linear time base; Phased 60 Hz; and External. Trace Expansion: 2 times screen diameter. Positioning: Any portion of trace can be placed on screen. Frequency Range: 5 Hz to 500 KHz sawtooth in 5 overlapping ranges, TV-Vertical and TV-Horizontal positions have automatic sync separator. Synchron-ization: (Automatic in all modes). + Internal and — Internal; Phased 60 Hz; External. Dimensions: 171/4" D. x 133/6" H. x 83/4" W. Operates on 117 VAC 60 Hz. PR 14 Direct/Low Capacity 10 to 1 Probe Included. No. 35A3033. S279.95 No. 35A3033. \$279.95

For viewing RF and IF modulation waveforms, Each ......

NEW B&K 415

SOLID STATE

SWEEP/MARKER ALIGNMENT GENERATOR



\$9.95

Markers are clearly indicated by lights on the panel and by tilting markers on the serviceman's scope. The unit is so complete—all that is needed to complete the alignment job is a scope and an alignment tool. Even the instruction book is different—showing a simplified, new easy method to align all TV receivers. Specifications: Completely solid state (with field effect transistors) 3 Bias supplies (low impedance), 2 ADJ to  $\pm$  25 VDC, and 1 ADJ to  $\pm$  50 VDC. Xtal controlled RF output on Channel 4 and 10. Xtal controlled IF markers. Sweep width up to 12 MHZ. As many Xtal markers may be used together as needed. Post injection marker (Xtal controlled). All cables supplied. 115 VAC 50/60 HZ (with 3 wire cord). **\$349.95** 

No. 35A3050. Shpg. Wt. 20 lbs. Each ....



No. 358349. Net Each. 2 MODEL 606 TUBE TESTER Compact, portable, low cost tester, Fast—only 4 settings required. Tests the newest miniature and color T.V. tube types as well as the older types. Tests Nuvistors, 10 and 12 pin Compactrons, Novars, voltage regulators, European hi-fi and many industrial types. Checks for all shorts, grid emission, leakage and gas. Highly dependable results obtained by testing tubes under actual operating conditions. For 105-results 50-60 cycle AC. Tube reference charts clip in cover. Leatherette case 81/2x11x41/2". Wt. 8 lbs. No. 358513. Net Each. \$84.95

\$84.95 No. 358513. Net Each.



# SENCORE ELECTRONIC TEST EQUIPMENT



All solid state. The SM152 can completely sweep align the UHF tuner, the complete VHF tuner, the IF, and the chroma bandpass. Each stage can be aligned individually, or the entire signal system can be aligned for a correct overall response. Sound, video, color, and all trap markers "pop" singly or simultaneously on the response waveform. Only 3 hook-up cables are required; one for RF signal in, one for detected signal out, and one for the

quireq; one for KF signal in, one for detected signal out, and one for the scope. RF Sweep Output is calibrated and variable from 10 microvolts to .1 volts. Ultra Linear Sweep Width is calibrated from 0.3 to 15 MHz. VHF and IF output is virtually flat ( $\pm$  0.3 db). 6 Bands cover all frequencies VHF, UHF, IF, including chroma for bandpass alignment. Crystal Controlled IF Markers at 39.75, 41.25, 41.67, 42.17, 42.67, 44.25, 45.75 and 47.25 MHz. True post-injection system used for all push-button markers. Two Preset Chroma Outputs Available: (1) A 3.58 MHz sweep chroma signal of 0 to 2 volts peak to peak at the chroma output jack; (2) A 3.58 MHz sweep signal at IF frequencies for direct injection into the IF. Crystal Controlled Chroma Markers at 3.08, 3.58 and 4.08 MHz. RF Video Carrier Markers for channel 4.5, 10 and 13. Also crystal reference markers for sound and color on these four VHF channels. Crystal controlled FM IF Marker at 10.7. MHz plus 10.6 and 10.8 MHz bandwidth markers. External Marker input at 75 ohms for a 25 millivolt or greater signal input. Sweep direction and response curve polarity fully controlled so you can duplicate the response curve in any alignment procedure. 10" Tuning Dial — VHF and UHF channels and other special check points are indicated along with the frequency. Unit is complete with all leads, matching pad and detector probes. 135% x \$9/2 x 53%". Wt. 15 lbs.



#### **PSI48 DELUXE WIDE BAND SCOPE AND VECTORSCOPE**

PS148 DELUXE WIDE BAND SCOPE AND VECTORSCOPE Now, you can have both in one instrument: A conventional Wide Band Oscil-loscope, and a professional 5-Inch Vectorscope! Provides a vectorscope for complete simplified troubleshooting and align-ment of color TV chroma circuits. View the vector patterns as recommended by Zenith or display the standard "S" pattern as recommended by RCA. Switch on rear panel converts from a professional wide band scope to a 5-inch vector scope. All vectorscope connections and controls are located on rear. Special vectorgraph screen shows exact degree of chroma demodulation. Use with any standard 10 bar color generator, such as all Sencore, RCA, etc. Vertical amplifier frequency response from 10HZ to 5.2 megahertz, ± 1 db. Vertical amplifier sensitivity of .017 volts rms per inch deflection. Horizontal sweep ranges 5 Hertz to 500K HZ in five overlapping ranges. Outstanding stability is due to precise control over sync signals. Minimum circuit loading is assured with input Z of 27 megohms. Built-in low capacity probe to view waveforms in TV horizontal and vertical output circuits. Hori-zontal frequency response (3 db, from 10 Hertz to 650K HZ) guarantees linear sweep and positive sync. Inputs for horizontal sweep ranges. Cuts to half power when unit is not in use and provides instant warm-up when needed. All steel case with brushed chrome front panel. 11" × 9" × 1516". Wt. 22 lbs. 100 watts, 60 cy. AC, 47 watts on standby. No. 35A3018. PS148. Net Each. No. 35A3018. PS148. Net Each. No. 35A3018. PS148. Net Each. No. 35A3009. 39C3. Demodulation Probe. Each. No. 35A3018. PS148. Net Each. No. 35A3018. PS148. Net Each. No. 35A3018. PS148. Net Each. No. 35A3019. S9C3. Demodulation Probe. Each. No. 35A3018. PS148. Net Each. No.

**FS134 UHF-YHF-FM SOLID STATE FIELD STRENGTH METER** Built-in attenuators of 0, 20, and 40 db (X1, X10, and X100) enable you to measure signal strength from the amplifier to the last tap-off in the sys-tem. Portable, requires no AC cord. Highly sensitive: 30 Microvolts ± 3 db on VHF-FM and 30 Microvolts ± 6 db UHF. Separate built-in UHF tuner for greater accuracy in critical antenna work and translator checking. 4" 2% meter calibrated in microvolts and db. Uses industrial standard for 0 db. Check db loss in cables, compare antennas and amplifiers for db gain, field intensity surveys, and show a customer why he needs new antenna. The audio amplifier and speaker let you monitor the TV or FM sound signal and aid in tracking down noise. Jerrold connector for 75 ohm cable, built-in balun to match 300 ohm twin-lead. Powered by 9 "C" cells. 10 x 9 x 5". Wt. 9 lbs. S220 50 \$229.50

No. 35A3013. FS134. Each. No 21A2 "C" Battery (9 required) Each.....

150

**B-A Supplies All Sencore Test Equipment** 

17c



NO DOWN PAYMENT WITH B-A's E-Z PAY REVOLVING CHARGE

The TF151 checks them all! New black and white TV, color TV, and Hi-Fi are loaded with field effect transistors in front ends, IF's etc. Other testers are limited when a technician or engineer runs across a field effect tran-sistor; but not if he owns a TF151. Just flip the large elaborate control knob to the right side of the unit and the tester is ready to test FET's. Check these added features and you'll see why the TF151 obsoletes others on the market on the market.

- Checks transistors in or out of circuit for AC Beta and out of circuit for ICBO leakage.
- Increased current check for Hi power transistors makes test more accurate. Special test for critical RF transistors like GE9's that often slipped through . before.
- True Gm mutual conductance test made on all field effect transistors; in or out of circuit, Truly revolutionary. .
- IGSS leakage checked out of a circuit on FET's.
- Special Gate 2 check provided for FET's with two gates. ۰
- Special IDSS (Zero bias) current checks provided for matching FET's or for industrial "culling." .

Special reference book clearly shows all information necessary for testing a transistor or FET, if it is a transistor or FET, and results to expect. Vinyl covered steel case,  $9\frac{1}{2} \times 7\frac{1}{2} \times 6^{"}$ . 6" meter. No. 35A3036. Sencore TF151. Shpg. wt. 9 lbs. Each.......\$129.50

#### **TF17 IN-OR-OUT OF CIRCUIT TRANSISTOR & FET TESTER**



Tests all transistors and FET's in or out of circuit. Makes field servicing of transistor and FET's a snap. Tests FET's and transistors in or out of circuit for Gm and Beta gains. Tests leakage of FET's and transistors in actual micro-amps. Separate test for Hi power transistors and for special RF transistors, current check for matching FET's. Ref-erence book lists over 12,000 different transistors and FET's. Vinyl covered steel case with removable lid.  $9\frac{1}{2} \times 7\frac{3}{4} \times 3\frac{3}{4}$ ". Wt. 7 lbs. No. 35A3046. TF17. \$109.50 Each

#### **BE124 BATTERY ELMINATOR**

Power supply replaces batteries during transistor radio repair. Tapped voltages at 1.5 volt DC intervals from 0 to 12 volts on front panel, connects simply for center tap and bias voltages as re-quired. Function switch converts meter to trouble-shooting 0 to 50 MA current reading device to monitor transistor radio current drain. Charges nickel-cadmium batteries. Guaranteed accu-rate. 5 x 41/2 x 21/2". Wt. 3 Ibs. No. 35A3022 \$29.95

#### Each

#### RC144 HANDY "36" SUBSTITUTOR

36 different, most often needed resistors and capacitors for experimenting, substituting and testing — 24-1/, and 1 watt resistors from 10 ohms to 5.6 megohms, 10 capacitors from 100 mmfd, to .5 mfd., at 600 volts. 2 electrolytics at 10 mfd. and 40 mfd. at 450 volts DC, 4 x 3 x 2". Wt. 2 lbs. \$17.95 No. 35A3015. Each.

#### BEI13 DUAL TV BIAS SUPPLY

Save time in AGC trouble shooting and TV alignment. A single or two separate 0 to 20 volts DC bias supplies—without interaction. Provides all recommended TV alignment biases. Well filtered; ef-fectively pure DC with less than 1/10th of 1% ripple. 4 x 3 x 2". Wt. 1 lb. No. 35A3016. \$14.95 BE113. Each ...





CC-18 CC-19 CC-153 MODEL CC-18. Has the 5 standard convergence patterns. All solid state MODEL CC-18. Has the 5 standard convergence patterns. All solid state design and battery operation for maximum portability. Zener regulated power supply for greatest stability. Snap tuning for channels 2 through 6—just like a standard TV tuner, Interlace control stops dot bounce and pairing of horizontal lines. Automatic shut-off — just shut the lid. Crystal controlled sound carriers — modulated 4.5 megahertz signal for adjusting fine tuning in accord with manufacturer's procedures. Color gun interrupters on front panel

**MODEL CC-19.** Compactness — its palm size portability makes the CC-19 an ideal service companion on every color TV call, All standard patterns. 10-keyed color bars, vertical lines, horizontal lines, crosshatch and adjustable dots. Interlace control to stop dot bounce. Channels 2 through 6 are available with a simple external trimmer adjustment. Battery operated,  $5\frac{1}{2} \times 2\frac{1}{4} \times 8\frac{1}{4}$ , Wt.  $2\frac{1}{2}$  lbs. No. 35A043. Fach **\$84.50** 

No. 35A3043. Each No. 21A5035. TR164 Battery for above (requires 2). Each. ....\$1.91

MODEL CC-153. Solid state circuitry. Temperature controlled circuits—abso-lute pattern stability in any weather with Sencore's exclusive "Temp-Con-trol". Has all five standard patterns plus two movable patterns. A single dot and a single cross can be moved to any spot on the screen, simplifying both static and dynamic convergence. Interlace control to stop dot bounce found on some sets. Snap tune channels 2 through 6, Eliminates troublesome tuning between channels. Works like tuning on your TV. Crystal controlled circuits— color bars, 4.5 megahertz modulated sound carrier and timers all crystal controlled for added stability and solid patterns. Color gun interrupters with switches on front panel. Vinyl covered steel case with plate glass mirror in lid. Operates on 115 V. AC 60 Hz, 10 x 9 x 31/2". Wt. 9 lbs. No. 35A3044. Each

No. 35A3044. Each



#### **0 MU150 THE CONTINENTAL TUBE CHECKER**

A "must" for modern servicing ... production line testing ... quality control ... and laboratory. The Continental checks tubes accurately and from every possible angle. Tubes that don't perform are found fast. Full rated cathode current drawn from every tube. 100 Megohm grid leakage test to find the tough grid contamination defects that other testers miss. Stethoscopic shorts test that checks each element against all others for shorts. True Cm using 5000 Hertz square wave. Life test to find intermittents and temper-ature sensitive failures. Plastic coated tube chart. New setups can be made from tube manual, Labora-

arure sensitive failures. Plastic coated tube chart. New setups can be made from tube manual. Labora-tory accuracy; meter readings for Cm are in actual micromhos. Checks over 3000 foreign and domestic tubes. Vinyl clad steel attache case with all-chrome front panel. 17x11x4". Wt.

ïь \$229.50 No. 35A3038. MU150. Each

## **③ TC154 SOLID STATE TUBE TESTER**

The first all solid state tube tester with FET circuitry for greater reliability, stability and instantion action.

no more waiting for your tube tester to warm up, the TC-154 Solid State -Solid State — no more wairing for your tube rester to warm up, the IC-154 is instant-on. Reliability — Accurately checks each tube at full rated cathode current for emission. Extra Sensitivity — Measures grid leakage with 100 megohm sensitivity. Push-Button Operation — With the push of a button you can check for emission, shorts and grid leakage. Checks latest tubes. Vinyl clad steel case with chrome panel. Removable lid. 10 x 9 x  $3\frac{1}{2}^{\prime\prime}$ . Wt. 9 lbs. \$89.50

#### No. 35A3047. TC154. Each

CR143 CRT CHAMPION TUBE TESTER

**CR143 CRT CHAMI** Test CRT color guns for color track-ing automatically. No more time-con-suming logging of each color gun reading at every setting of the C2 control like other testers. Color track-ing scale right on the meter. Impor-tant when claiming credit for a de-fective color CRT. Has short test, emission test with pure DC, and life test. Easy to use. Rejuvenation and shorts removal is accomplished with the exclusive Auto-matic Controlled Rejuvenation circuit. Equipped with plug-in sockets for fast testing and easy updating. Controls, calibrated in actual DC volts. Chrome panel and steel vinyl case with lead compartment. 10 x 9 x  $3/2^{"}$ . Wt. 11 lbs.

No. 35A3048. CR143. \$119.50 Each





Faster, more accurate, more complete circuit testing simplified push-button operation. Large deluxe 7 inch meter with easy to read mirrored scale. Minimum circuit loading—15 megohm input resistance on both AC and DC. Surpasses any VTVM. Unmatched accuracy—1.5% on DC, 3% on AC. 3-way power—rechargeable batteries, AC or AC with batteries plugged in (batteries not supplied). Use it anywhere, anytime. 99 Ranges—16 DC voltage, 16 AC voltage, 8 resistance ranges, 18 DC current ranges, 9 AC current ranges, 8 decibel ranges, 6 hi-voltage ranges, 10 very high impedance ranges of 1500 megohms, 8 zero center scale ranges, 2.5% zero center scale primit transistor bias measurements to less than 0.10v, measures either polarity without switching ranges or interchanging leads. Special ohm scale of 6 ohms center scale for maximum linear accuracy on low ohm measurements. A special high ohms range for measurements to 6000 megohms.

Complete meter and circuit protection. Zero warm-up time—instant stability. it's all solid state. Completely portable—vinyl-clad steel case and chrome panel. Shpg. wt .7 lbs. \$149.50 \$149.50

panel. Shpg. wt // IDS. No. 35A3034, FE149. Each. No. 35A8020. 39A21. High Voltage Probe. Extends ranges to 5KV, 15KV and 50KV. Increases DC input impedance to 1500 megohm on all DC ranges. \$14.95 Fach. 17c 

#### SENCORE FIELD EFFECT MULTIMETER

SENCORE FIELD EF Has all the advantages of a VTVM with instant warm-up and stability. Portable, goof-proof design, provides greater accuracy. 15 megohm DC in-put, 10 megohm AC input. Loads cir-cuit less than a VTVM, superior for checking low voltage ranges. Less than 2 MA battery drain with built-in battery check protection. DC Voltage Ranges: 0 to 1, 3, 10, 30, 100, 300 and 1000 full scale, ± .5, 1.5, 5, 15, 50, 150 and 500 zero center scales. AC Voltage Ranges (Rms): 0 to 1, 3, 10, 30, 100, 300 and 1000 full scale. (Peak to Peak) 0-2.8, 8.4, 28, 84, 280, 840 and 2800 full scale, fre-quency compensated. Frequency re-sponse: 10 Hz to 10M Hz. Ranges: 0 to 1000, 10K, 100K ohms, 100 megohms. DC current Ranges: 0 to 100 microamps, 1 MA, 10 MA, 100 MA, and 1 ampere. 5" W. x 7.½" H x 31,6" D. Wt. 4 lbs. No. 35A3000. FE14 FET Meter. Accuracy DC 2.5%, AC 4.5%. AC 4.5%. \$69.95 Each



Each No.35A3049. FE16 Hi-Accuracy FET Meter. Accuracy DC 1.5%, AC 3%. Each No. 35A8008, 39A19, High Voltage Probe. Extends 300 V. range to 30KIV Each No. 21A2, 1.5 Volt "C" Cell Ohms Battery. Each \$9.95



No. 35A3032. \$\$137. Each



Any Of These Testers Can Be Purchased On B-A's E-Z Pay Revolving Charge Plan

# AND THE TEST INSTRUMENTS

#### WIDEBAND DIRECT-COUPLED 5" SCOPE EICO 460



 EICO 460 WIDEBAND DIRECT-COUPLED 5" SCOPE
 For color and B&W TV servicing and production line testing, excellent for audio and industrial work. Push-pull (3 stages) and direct-coupled vertical amplifier. Internal calibration voltage and frequency - compensated decade attenuator, DC or peak-to-peak AC measurements from 25 MV to 500V. Drift-free positioning centers any part of an expanded trace. 60 Hz output jack, and external capacitor jack for very low frequency sweeps on the rand amplifier eliminates sync voltage adjustment. Full retra ce blanking. Edge-lit calibration grid.
 Specifications: Vertical Amplifier: Frequency response: DC to 4.5 MHz (useful to 10 MHz); sensitivity 5 MV; input impedance 3 M ohm/35pf. Horizontal Amplifier: Frequency response 1 Hz to 400 KHz, sensitivity 0.24 v rms/cm; input impedance 5 M ohm/35pf. Sweep Ranges: 10-100, 100-1K K.10K, 10K-100K Hz; jus EXT-CAP position for very low frequency sweeps with external capacitor, TV-V position for very low frequency sweeps with external capacitor. TV-V position for very low frequency sweeps with external capacitor. TV-V position for very low frequency sweeps with external capacitor. TV-V position for very low frequency sweeps with external capacitor. TV-V position for very low frequency sweeps with external capacitor. TV-V position for very low frequency sweeps sites 117 VAC, approx. 95 watts. Size: 13" x 81/2" x 16". Weight: 25 lbs. 25 \$99.95 Ibs

No. 35A335, Model 460K Build-It-Yourself Kit. No. 35A336. Model 460 \$149.95 Factory Wired and Tested. Net Each ...

> SCOPE PROBE KITS

35A119. PSDK Demodulator probe use for signal tracing. Range: 250 MHz \$4.50 35A287. PDK Direct tracing in low Z circuits eliminates stray pickup \$3.50 35A288. PLCK Low capacity for waveform tracing in wide-band circuits \$4.50



**DELUXE SIGNAL TRACER** Has both visual and aural signal monitors.

 monitors.
 RF channel gain permits tracing up to receiver input.
 For RF-IF and audio signal tracing in TV, RF and AM receivers. Visual (tun-ing eye tube), and aural (speaker), indication of the signal. High RF sen-sitivity. Noise locator detects noisy resistors, condensers, cold solder joints. Two probes and ground leads with in-dividual panel receptacles for easy change-over from RF to audio. Size 8" x 10" x 43/4". Wt. 10 lbs. 35A275. Model 147K. \$34.95 Complete Kit.

Complete Kit. No. 35A276. Model 147. \$49.95 **Factory Wired** 



#### MODEL 324 RF SIGNAL GENERATOR

A low priced, high quality generator, with frequency range for servicing color and BGW TV, FM and AM radio. Covers 150 KC to 435 MHz in 7 bands, to 145 MHz on fundamentals, with  $\pm$  1.5% accuracy. Has 400 Hz internal modulation; 6 to 1 vernier dial; coarse and fine RF attenuators; external modulator amplifier; Gray wrinkle finished cabinet, 8 x 10 x 434". For 117 VAC. Wt. 8 lbs. 35A331. 43/4". Fi 35A331. \$32.95 354330 \$44.95 Net Each

#### MODEL 377 AUDIO GENERATOR

For servicing, testing and designing amplifiers, speakers, etc., used in Hi-Fi and public address systems, Uses Wien Bridge oscillator circuit. Ranges; sine wave 20-200,000 Hz, square wave 60-50,000 Hz. Accuracy 3% or 1 Hz, output 10 volts across 1000 ohms, constant output over wide fre-quency range. For use on 117 V. AC 50-60 Hz. Gray wrinkle steel case. 71/g x 111/g x 75/g". Wt. 14 lbs.

35A586. Model 377 Kit. \$39.95 Net Each No. 35A587. Model 377. \$54.95 Factory Wired. Net Each....

950 R-C BRIDGE

**R-C-L COMPARATOR** 

R-C-L COMPARATOR A professional quality instrument for all resistance 0.5 ohms to 500 meg. and all types of condensers from 10 uuf. to 5000 uf. Built-in variable DC voltage source of 0-500 volts tests condensers for leaks, power factor, polarity. All resistance-capacity ranges calibrated on panel! Precision compar-ator range-Bridge type circuit! Magic eye indicator tube. Size 10 x 8 x 434". Wt. 8 lbs. 35A142. Model 950K. Parts KH. Net Model 950, Factory Wired. 35A144. \$39,95

354144

Net Each



#### EICO 667 DYNAMIC CONDUCTANCE TUBE & TRANSISTOR TESTER

Tests: 5 G 7-pin nuvistor, 7-pin miniature, 8-pin subminla-ture, octal, loctal, 9 and 10-pin miniature, novar and compac-tron. Tests many small trans-mitting and special purpose tubes and pnp transistors. Two-step test for both npn and pnp signal transistors. **Dynamic conductance tube test** is a composite indication of

\$139.95

\$39.95

No. 35B381. Model 667. Complete Kit ... No. 35B380. Model 667.

628 or 667 tube tester. No. 35B389. CRU Adapter. \$9.95



#### EICO 635 DELUXE PORTABLE TUBE TESTER

Fast check all standard tubes includ-Each



#### IN-CIRCUIT CAPACITOR TESTER

Eico 955. Accurate bridge type in-circuit or out-circuit capacitor tester. Function: tests capacitors for shorts or opens and measures capacity from .1 to 50 mfd.  $\pm$  10%, Has a two range RC balance dial range from .6 to 10.5, 7 to infinity. 60 Hz test voltage maximum 6.3 V. AC. Bar indicator provides sharp accurate readings. Operation 117 volt AC. Has line adjustment. Complete with leads, instructions.  $8\frac{1}{2} \times 5\frac{3}{4} \times 6^{\prime\prime}$ . Wt. plete 6 lbs Ibs. \$24.95

No. 35B324. Model 955K Kit. Net..... No. 35B323. Model 955 Wired. Net..

#### EICO 1140 RC NETWORK BOX

Switches permit selection of any resistance alone, any capacitance alone, or any combination of re-sistance and capacitance in series or parallel (1350 combinations). Open and short circuit positions are provided. Provides a provided. Provides a rapid selection of resistance values in decade multiples of 15, 22, 33, 47, 68 and 100 consider 15 phones to 10 mag variation with stand

| providing 15 ohms to 10 meg. variation<br>ard 1 watt 10% resistors. 18 capacitors        | from .0001 |
|------------------------------------------------------------------------------------------|------------|
| to .22 mfd. rated at 400 volts minimum<br>35A582. Model 1140K.<br>Complete Kit. Net Each | \$15.95    |
| 35A583. Model 1140.<br>Factory wired & Tested, Net Each                                  | \$24.95    |

#### EICO MODEL 540 READI-TESTER

ħ

Designed expressly for "do-it-yourself" home ap-pliance & auto repair-easily finds defects in irons, fans, heaters, TV & radio tubes, batterles, Ignition coils, etc. It is an all-in-one Multi-Range &C/DC voltmeter, ammeter, ohmmeter, wattmeter, leak-age checker. age checker.

age checker. Provides "Good-Bad" readings on 6 V and 12 V automobile storage batteries, and permits check-ing of individual cells. Specifications: Voltage Ranges: 0-7.5, 15, 150, 300 volts (AC/DC). Current Range: 0-15 amps. Resistance Range: 0-1000 ohms (direct reading). Leakage Test: Neon lamp circuit. Wt. 3 lbs. 61/2" × 33/6" × 31/2". Includes leads.

|     |       |        |     | 540K. | \$ | 1 | 5.95 |
|-----|-------|--------|-----|-------|----|---|------|
|     | 35A3  |        |     |       |    |   | 9.95 |
| act | ory W | 'ired. | Net |       | φ  | 1 | 1.13 |

\$39.95



# WIRED OR EASY TO ASSEMBLE KITS

EMC 116 SOLID STATE VOLT-OHMMETER

EMC 116 SOLID STATE VOLT Portable, battery operated, no warm up. With the features of a VTVM. Instant, accurate readings with up to 500 times the sensitivity of a 20,000 ohm per volt VOM. 4½" 200 microamp meter. Zero center position. Meter and transistors pro-tected against burnout, FET transistor, 4 silicon transistors and 2 diodes. DC Voltage: 0 to 1.2, 12, 120, 1200 volts. Input resistance 11 megohms. AC voltage: 0 to 1.2, 12, 120, 1200 volts. Input resistance—11 megohm. DC Voltage: 0 to 1.2, 12, 0-100 volts. Input resistance 11 megohms. AC voltage: 0 to 1.2, 12, 120, 1200 volts. Input resistance—11 megohm. DC Voltage: 0 to 1.2, 12, 0-100K, 0-10 meg, 0-1000 meg. 4 DB ranges: —24 to +56 DB. Vith batteries and leads. Bakelite case with handle. Shpg. wt. 3 lbs. No. 35A704. Model 116 Easy To Build Kit.

Each

\$29.95 \$39.95

EICO MODEL 232 PEAK-TO-PEAK VTVM

EICO MODEL 232 PEA
 For all TV/FM/AM electronic servicing with highest accuracy. High impedance input results in negligible circuit loading. 41/2" meter can't burn out—built-in protective circuit. Zero center for TV-FM discriminator alignment, one zero adjustment for all functions and ranges, 1 per cent precision ceramic multiplier resistors, uniform 3 to 1 range ratio for extreme wide range accuracy and a transformer for isolation and safety.
 Peak-To-Peak AC Ranges: 0-4, 14, 42, 140, 420, 1400, 4200 volts. RMS Sine Voltage Ranges: 0-1.5, 5, 15, 50, 150, 500, 1500 volts. Frequency Response: 30 Hz to 3 MHz (up to 250 MHz with PRF probe). Ohmmeter: 0.2 ohms to 1000 megs in 7 ranges. Tube Complement: 12AUT, 6AL5, selenium rectifier, Battery: 1.5 v. Power requirements: 117 VAC, 5 watts. Input Impedance: 11 megotms. Size: 81/2 x 5 x 5". Wt, 5 lbs.

No. 35A281. Model 232K. \$34.95 Build It Yourself Kit. No. 35A282. Model 232. \$49.95 Factory Wired and Tested.

#### ACCESSORY PROBES FOR EICO 232 VTVM

Amphenol 75-MCIF Connector. Probes supplied less connector. 

 Amphenol 75-MCIF Connector. Probes supplied less connector.
 64c

 No. 12A311. Each.
 64c

 PRF11K RF Probe for Models 232 and 249 VTVM. 11 meg. input.
 \$4.50

 No. 33B111. Kit. Accurate to 200 MHz. Each.
 \$4.50

 UP Uni-Probe. Selector type replacement probe for AC or DC function. Same as used on all Eico 232, 249, etc. VTVM testers.
 \$5.95

 No. 35C49. Kit. Each.
 \$4.50

 VP-2-4 High Voltage Probe with 1090 meg. resistor. Use with Models 232.
 \$4.9

 AVP-2 Kitends range to 30,000 volts. Wt. 1 lb.
 \$8.95

\$8.95 No. 35A329. Factory Wired, ready to use. Each

#### EICO MODEL 100A4 MILLIAMMETER LABORATORY ACCURACY AND PROFESSIONAL VERSATILITY AT LOWEST COST.

AT LOWEST COST. DC sensitivity of 100.000 ohms/volt and AC sensi-tivity of 12,500 ohms/volt. Combines minimal cir-cuit loading with wide functional utility in a battery-operated, portable volt-ohm-milliammeter. 2% D'Arsonval meter movement; 4-inch mirror-back two-color scale. Matched pair of silicon diodes prevents overload of meter movement. High-impact, custom-molded case; integral handle for convenient positioning and portability. Highest Quality Import.

 Quality Import.

 DC Voltage: 0 - 500 mV, 2.5, 10, 50, 250, 500 and 1000

 AC Voltage: 0 - 2.5, 10, 50, 250 and 1000

 DC Current: 0 - 10 uA, 250 uA; 2.5 mA, 250 mA and 10 Amp.

 Resistance: 0 - 20,000; 200 K; 2 meg; 20 meg

 Db: --20 to + 62 in 5 ranges

 Size: 71/2 H x 51/4 W x 31/4 D. Complete with batteries and test leads. Wt. 5 lbs.

 No 2563025 Eige 100A4

No. 35A3025. Eico 100A4.

\$34.95 

## EICO MODEL 565 MULTIMETER

e 20,000 ohms per volt sensitivity 9 31 range, 50-uv movement Specifications: DC Voltage: Ranges 0-2.5, 10, 50, 250, 1000, 5000 volts. Sensitivity 20,000 ohms/ volt. AC/Output Voltage: Ranges 0-2.5, 10, 50, 250, 1000, 5000 volts. Sensitivity 1000 ohms/volt. DC Current: 0-100 ua, 10 ma, 100 ma, 500 ma, 10 amp. Decibels: —12 to +55 db in 5 ranges. Resistance: Ranges: 0-2000 ohms, 0.2 megohms, 20 megohms (.2 ohms to 20 megohms). Meter: 41/2" size, 50 ua movement. Size: 63/4" x 51/4" x 3". Wt. 4 lbs.

| No. 35A203. Model 565K.                                                        | \$25.95   |
|--------------------------------------------------------------------------------|-----------|
| Complete Kit                                                                   |           |
| No. 35A204. Model 565.<br>Factory Wired<br>No. 37A3023. Test Leads for 565. P. | \$24 95   |
| Factory Wired                                                                  |           |
| No. 37A3023. Test Leads for 565. Pa                                            | air\$1.05 |





Up to date in every way. Checks all the new 12 prong (Compactron), Nu-vistor, Novar and 10 prong tubes in addition to octal, loctal, miniature and 9 prong tubes. Tests each tube for shorts, as well as for quality. Tube quality is indicated directly on a three color meter dial. Each section of a multipurpose tube is checked separately.

Magic eye, voltage regulator and Hi-Fi tubes are also tested. Unique switching arrangement makes the checker absolescence proof. Panel is etched for long wear. Complete with instructions and tube charts in ring

Complete kit in gray leatherett Shpg. wt. 5 lbs. No. 358417. Model 213P Kit. in gray leatherette covered wood carrying case, For 117VAC, \$74 00

| Net | Each     |       |      |         |        |     |      | <br> | ф <b>х</b> т, | . 70  |
|-----|----------|-------|------|---------|--------|-----|------|------|---------------|-------|
| No. | 35B418.  | Model | 213P | Factory | Wired. | Net | Each | <br> |               | 36.75 |
|     | as above |       |      |         |        |     |      |      |               |       |
| No. | 35B419.  | Net E | ach  |         |        |     |      | <br> |               | 21.90 |

**EMC 212 TRANSISTOR ANALYZER** 

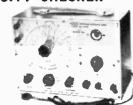
**Tests all transistors in or out of circuit.** Measures DC current gain (Beta) in 3 ranges to 200. Checks leakage on 3-color scale; good, weak, poor. Tests all transistors as AC current amplifiers (oscillator check) without removing them from circuit. Can be used as a signal tracer. Measures battery voltage 0-12 volts, and current 0-80 MA, also tests diodes. Comes with instruction manual. Size 334 x 614 x 2". Wt. 11/2 lbs. No. 358521. Model 212. \$14.50 Complete Kit

35B522. Model 212 Wired, Ready \$21.50

## EMC MODEL 801 COMPARATOR BRIDGE AND IN-CIRCUIT CAPACITY CHECKER

Measures capacity in four ranges 10 mmfd to 5000 mfd. Resistance in four ranges .5 ohm to 500 megs. Measures leakage at any voltage to 500 volts and power factor from 0 to 60%. Checks open or shorted con-densers above 50 pf in circuit if not shunted by excessively low resistance. Size 10 x 7 x 41/a. Wt. 7 lbs.

| - 174, WILL F 100.      |          |
|-------------------------|----------|
| No. 35A159. Model 801   | ¢ 10 / F |
|                         | \$28.45  |
| Complete Kit. Net Each  | *        |
| No. 35A158, Model 801   | ¢45 05   |
| Factory Wired. Net Each | \$45.95  |
| roctory wired, net Each |          |



#### EMC MODEL 502 RF SIGNAL GENERATOR

EMC MODEL 502 RF SI Covers frequency range for all tuning and aligning requirements of AM and FM radios, in 6 bands from 115 KHz to 108 MHz, second harmonic to 216 MHz, RF accuracy  $1\frac{1}{2}$ %. Includes 400 Hz internal modula-tion controlled with off-on switch and provision for external modulation. Uses in-dividual slug tuned coils for each band. Colpitts oscillator and a cathode follower output. Planetary drive permits fine, fre-ouvency adjustment. Size  $6\frac{5}{8} \times 4\frac{3}{4}$ . Complete with output lead and instructions, For 105 - 130 VAC. Wt. 4 lbs. No. 358424. Model 502.

| No. 358424.                                 | Model | 502. | \$19.95 |
|---------------------------------------------|-------|------|---------|
| Complete Kit<br>No. 358425.<br>Factory Wire | Model | 502. | \$28.95 |

## EMC MODEL 102A BURN-OUT PROOF MULTIMETERS

Has a built-in diode to prevent burn-outs caused by accidental overloads. No more expensive repairs and loss of time when accidentally misused. Has  $31/_2$  inch 20% 800 microamp D'Arsonval type plastic front meter. 5 AC voltage ranges: 0 to 12, 120, 600, 1200, 3000 volts. 3 AC current ranges: 0 to 6, 0, 300, 600, 3000 volts. 3 AC current ranges: 0 to 30, 150, 600 MA. DC current ranges: 0 to 6, 30, 130 MA and 0 to 1.2 amps. Resistance ranges: 0 to 100 ohms. 0 to 1 megohms. Size  $33/_4 \times 61/_4 \times 2''$ . Shog. wt. 2 lbs. \$14.40 No. 35B43. Model 102A. Factory Wired. \$16.95 No.37A3023. Test Leads for 102A. Pair......\$1.05

Burstein-Applebee Co., 3199 Mercier St., Kansas City, Mo. 64111

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AMPROBE LECTROTECH MENTS



Snap around type Volt-Ammeter, Close the probe jaws around conductor of the circuit under test and read current directly on meter scale. Voltage checks are made by the use of safety type leads. It is possible to safely and accurately determine load condition of equipment without shut down.

#### ① POPULAR PRICED AMPROBE JUNIOR

Measures current and voltage, is small in size, convenient to carry and use. Size 21/2x43/x1". Wt. 11 oz. Accuracy ± 3% full scale. Maximum conductor size for current measurements is 1/2 inch. With test leads. 35A3066. Model ¥550. For 0-50 Amps AC, 0-150-600 volts AC. 35A308. Model ¥500. For 0-100 Amps AC, 0-150-600 volts AC. \$24.50

\$24.50 YOUR CHOICE EACH

Two current ranges and two voltage ranges in one instrument. Change ranges by pressing a button.

No. 35A3023. Model YT1025. 0-10/25 Amps, 0-150/300 Volts AC. No. 35A3024. Model YT25100. 0-25/100 Amps, 0-100/300 Volts AC. Your Choice, \$28.50

## ③ AMPROBE JR. TESTMASTER KIT IN LEATHER CASE

Measures 0-150/600 AC volts, 0-100 AC Amps, and resistance instantly within 3% accuracy. 25 ohm mid-scale. Ohmmeter measures resistance with plug-in battery attachment. Complete kit includes Amprobe Jr., Energizer (described below), Battery Attachment, safety Test Leads and Leather Case. Wt. 1 lb. \$39.85

#### No. 35A346. TM-YO-500, 0-100 Amps, Net Each. () AMPROBES MOST POPULAR MODEL RS-3

Does 3 jobs, measures amperes, volts and ohms resistance. AC amp. ranges 0-6/15/40/100/300. AC volts 0-150/300/600. Ohms scale reads 25 ohms mid-scale, 2000 ohms full scale. Most complete tester available. With leather carrying case and test leads for voltage and resistance measurements. No. 35A581. Wt. 12 Oz. \$58.50

Net Each... 6 Model A45L Energizer divides Amprobe current reading by 5X and 10X for checking low current equipment. Also divides line cord so Amprobe may be used for current or voltage checks without having to split line cord. With weatherproof pouch. Wt. 3 oz. \$7.25

BAMPROBE VOLTPROBE VOLTACE TESTER Indicates 115, 220, 277, 440 and 550 volts AC and 115, 220, 400, 600 and 750 volts DC. Sliding probe pushes up through body and a retractable probe with coil cord allows measurement of points over 3 feet apart, Light indi-cates voltage. Indicates grounded side of line or DC polarity. Frequency 25 to 800 cycle range. Buzzer indicates frequency. 6x21/4x3/4'' with probes retracted. Wt. 5 ozs. retracted. Wt. 5 ozs. No. 35A8030. VT-100. Voltprobe, Each...... No. 35A8031. VC Case. Each \$9.50

Each...



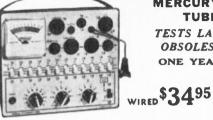
#### LECTROTECH V7 VECTORSCOPE COLOR BAR GENERATOR

LECTROTECH V7 VECTORSCOPE COLOR BAR GENERATOR Provides a visual display for measurement of the 30 degree angles produced by the keyed rainbow color signal. Accurately measures color demodulation to check R-Y, B-Y and all 10 color bars for color phase angles and ampli-tude. You can check color amplifier gain, adjust color sync circuits and properly center range of hue control. Timing circuits can be immediately adjusted without the use of external test equipment. Adjust horizontal lines to any width desired, from 1 to 4 lines wide. Provides ... All crosshatch, Dots, Vertical lines only, Horizontal lines only, and keyed rainbow patterns. Video output (pos. and neg. adjustable) for signal injection troubleshooting. Red-Blue-Green Cun Killer. Voltage-regulated transistor and timer circuits for operation under wide voltage ranges. All this PLUS—Solid State Reliability. Only two tubes are used in combina-tion with fully-transistorized diode-rectifier circuit. All cables permanently attached and stored in convenient, enclosed test Jead compartment. Only 8/4x71/2x127%". Includes Free book "Color TV Servicing Simplified with Vectorscope". Weight 13 lbs. No. 35A3062. Each

\$199.50 No. 35A3062. Each

#### LECTROTECH V5 VECTORSCOPE

**LECTROTECH V5 VECTORSCOPE** Check and align bandpass-amplifier circuits. Check and align demodulators to any angle ... 90°, 105°. ... accurately and quickly. Pinpoint troubles to a specific color circuit. Provides visual display for measurement of the 30 degree angles produced by the keyed rainbow color signal. Accurately measures color demodulation to check R-Y, B-Y and all 10 color bars for color phase angles and ampli-tude. Check color amplifier gain, adjust color sync circuits and properly center range of hue control. Steel case with enamel finish. Size  $73_{6}^{*}$  W. x  $41/4^{*}$  H. x  $75_{6}^{*}$  D. With all leads for connection to color V set and copy of Wayne Lemon's Book "Color TV Servicing with a Vectorscope." Weight 5 lbs. No 3533063 Fach \$79.50 No. 35A3063. Each



## **MERCURY MODEL 990** TUBE TESTER

TESTS LATEST TYPES .... **OBSOLESCENCE PROOF** ONE YEAR GUARANTEE

95

Full Cathode Conductance Test on all tubes. Complete complement of latest sockets: Magnoval, Novar, Decal, Compactron, Nuvistor, Octal, 9-10 pin, 7 pin. Special unique open-circuit slide switch Master Selection frees any and all multiple element terminations. Checks each section of multi-section tubes separately. Multi-selection of test voltages and loads. Tube set-up data shows latest tube releases.

latest tube releases. Complete and comprehensive test instructions included. Important Cathode to G1 and Cathode to filament leakage and/or shorts is quickly indicated. Complete element-to-all other-elements short tests can be quickly and easily accomplished on all tubes by 12 circuit slide-button Master switching system. 15 V. 50/60 Hz. Molded case,  $6J_2x7J_2x3J_2''$ . Weight  $4J_2$  lbs. No. 35A705. Model 990 XII With With Complete Instructions \$21.95

Kit With Complete Instructions No. 35A3029. Model 990 Factory Wired



ENGINEERED TO TEST ALL THE LATEST **TUBE TYPES ... PLUS TRANSISTORS** 

**•ONE YEAR GUARANTEE** 

Tests all tube types, old and new, including the new Magnovals, new 7-pin Nuvistors, new 10-pin Decals, Compactrons, Novars, 10-pin types, foreign and hi-fi tubes, voltage regulators, thyratrons and industrial tube types. Tests transistors. Tests tubes for true dynamic mutual conductance (Gm). Tests for shorts, leakage and gas. Lever switch test principle over-comes obsolescence. Automatic line voltage regulation. Long lasting phosphor bronze tube sockets. Two tone aluminum panel. Size: 181/4"x103/4"x43/4". Shipping Wt. 121/2 lbs. No. 35A3027. Model 2000, Wired. Each.



**MERCURY MODEL 1400 IN-CIRCUIT** CAPACITOR TESTER \$2995 KIT WIRED \$3995

#### **ONE YEAR GUARANTEE**

Exclusive—Special low test voltage of 2.9 volts provided to prevent damage to the new low voltage electrolytics used in transistorized equipment. Eliminates the time consuming method of unsoldering and resoldering when checking consciences and resoldering when

Eliminates the time consuming method of unsoldering and resoldering when checking capacitors. Shorts Test-Detects shorted capacitors of all types in-circuit with shunt resistance as low as 6 ohms. Opens Test-Detects open capacitors for all values in-circuit down to 7 mmfd, with shunt resistance as low as 15 ohms. Value Test-Indicates value of electrolytics in-circuit from 2 mfd to 450 mfd. Hi-Leak Test-Detects those hard-to-find leaky capacitors out-of-circuit: Sensitive to 150 megohms... Tests made at 300 volts DC. New, modern rectangular tuning-eye indicator shows all tests results... extremely sensitive and accurate. Large easy-to-read dial. One cable used to make all tests. Line isolated power supply... no short-circuit hazards. Two tone metal housing, 10" W. x 61/4" H. x 41/2" D. @One Year Cuarantee. No. 35A706.

| No. | 35 | A306 | 60. | Mod | lei | 1400 | Factory | 1 | Wired | <b>.</b> |   | <br> | <br>  | <br>\$ | 39.9 | 5  |
|-----|----|------|-----|-----|-----|------|---------|---|-------|----------|---|------|-------|--------|------|----|
| -   | -  |      | _   |     |     |      |         | - |       | _        | - |      | <br>- | <br>   |      | -1 |

\*ONE YEAR GUARANTEE on all Mercury Test Instruments. One year un-conditional guarantee from date of purchase on parts and workmanship under normal usage. Defective units will be repaired on return to factory.



LEADER MODEL LCG-388 COLOR BAR GENERATOR **15 PATTERNS** PERFECTLY STABLE THE INSTANT

YOU TURN THE POWER ON!

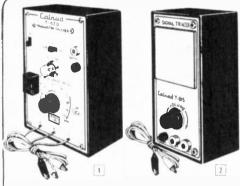
Flip the switch and you can select from 15 patterns including the single dot, single cross, single-horizontal and single vertical. The magic is in Leader's binary counters and gates not available in any other generator. Only one in-put connection to the receiver, channel 5 or 6 selective. Return trace blank-ing applied to horizontal and vertical signals. Chroma level control. Gun killers for convergance adjustments. Composite video signal for video circuit testing. Regulated DC supply. Operates on 105 to 125 volts, 50/60 Hz.  $31/_8 \times 73/_4 \times 73/_4 \times 73/_4$ . D. Wt.  $41/_2$  lbs. Engineered to the highest standards of performance. From Japan. No. 35A3061, Model LCC-388 \$149.00 No. 35A3061. Model LCC-388

Depend On B-A To Fill Your Order Fast

\$2.50

# SPECTACULAR TEST INSTRUMENT VALUES

FACTORY WIRED, CALIBRATED...READY TO USE



TRANSISTOR TESTER

TRANSISTOR TESTER Checks transistors in circuit or out of circuit under operating conditions. Plug transistor into front panel socket or connect with alligator clip test leads provided. Safely identifies low, medium and high power PNP and NPN transistors. Checks elec-trode open circuits, short circuits and current gain. Makes it simple to match transistors for critical circuits. Neon indicator gives a visual indication of circuit output. Output jacks for use with an AC voltmeter or oscilloscope to measure signal output as low as 5 MA, make sensitive noise tests study-ing dynamic leakage distribution and wave form inspection. Adjustable base current control allows you to test transistors over a broad range of you to test transistors over a broad range of current conditions

Black plastic case with aluminum panel. Size  $6\frac{1}{4}$  x 2 x  $3\frac{3}{4}$ " W. Full instructions supplied. Shpg. wt. 2 lbs. Imported at Big Savings! No. 35A667 Special Each

\$10.95

## [2] SIGNAL TRACER

Makes service problems easy to locate. Permits audible signal tracing of RF. IF and audio circuits Easy to operate stage-by-stage tracing of signal from antenna through audio Has solid state cir-cuit with 4 transistors. Built-in 2" speaker with volume control. Comes with 9 V battery, test leads and instructions and instructions.

| No.   | 35A668.   | Import  | Special  |       |        | ψ    |     |   |
|-------|-----------|---------|----------|-------|--------|------|-----|---|
|       | x 112"    |         |          | Ib.   |        | \$9  | 95  | 5 |
| Black | k plastic | case wi | th alumi | num j | pane!. | Size | 5 : | × |



100,000 OHMS PER VOLT MIRRORED SCALE MULTIMETER

MINRORED SCALE MULTIMETER Our lowest price ever for a Meter with these fea-tures, low current and voltage ranges necessary for solid state servicing. Overload protected by dual silicon diodes. Double lowelled 2% meter 1% temperature-stabilized re-sistors. Easy to read mirrored scale, single control range selection. Twenty seven ranges for current, voltage and resistance at your fingertips. Full meter protection includes diode protection for meter movements. DC volt sensitivity 100.000 ohms per volt. AC

meter movements. DC volt sensitivity 100,000 ohms per volt. AC volt sensitivity 12,500 ohms per volt. DC volts: 5, 2,5, 10, 50, 250, 500, 1000. AC volts: 2.5, 10, 50, 250, 1000. DC current; 10 uA, 250 uA, 2,5 MA, 25 MA, 250 MA. and 10 Amp. Resis-tance: 0-20K, 200K, 2 meg, 20 meg. Mid-Ranges resistance: reading at mid-scale: 160, 1600, 16,000, 160,000. Decibels -20 to +62 in 5 ranges. With instructions. Quality crafted import. No. 35A3059 No. 35A3059 \$34.95 Each



# DELUXE GRAND MASTER 20,000 OHMS/VOLT LESS THAN 1 THE COST OF COMPARABLE AMERICAN MADE TESTERS

- Mirrored scale.
- Ultra-sensitive. 44 microamp D'Arsonval move-
- Infa-sensitive: A matched precision resistors throughout.
  Diode overload prevention device.
  26 ranges, on "Easy-Read" 2-color scale.
  Accuracy ±3% full scale.

Test instrument of unusual quality, designed and built to precision standards. "Easy-read" multi-colored mirrored scale permits readings with hair-line accuracy. A network of safety diodes blocks off excess current, protects the movement from burning out.

Durning out. Specifications: Sensitivity: 20,000 ohms/volt DC; DC volts: 2.5, 10, 50, 250, 1000, 5000 volts; AC volts: 2.5, 10, 50, 250, 1000, 5000 volts (8000 ohms/volt); DC Amps: 50 ua, 2.5-25-250 MA, 10 amps: Ohms: 0 to 10K, Rx100, Rx100, Rx1000 (10 megohm maximum), DB: -20 to +10; -10 to +22, x5, x25, x100. Dimensioner, 7x51 val/4", Instantion 4, 14

Dimensions: 7x51/4x31/2". Instruction folder and schematic included. Shipping wt. 5 lbs. **\$29.95** No. 35A3026. Model 80-M. Each No. 35A3065. Carrying Case, Each ..... ....\$7.95



1,000 ohms per volt. A complete multi-tester at less than the usual price of just the meter alone. Clearly readable and accurate. Reads AC or DC volts in 3 ranges of 0-15, 0-150 and 0-1,000 volts; DC current 0-150 MA; Resistance 0-100,000 ohms. Has convenient thumb-operated ohms zero adjust and pin jacks for all 5 ranges. 1% precision resistars assure accuracy. Bokelite case 4x2/4x. That leads, self-contained battery and instructions included. Shop, wt. 5 ranges. 1% precision resistars assure accuracy. Bokelite co Test leads, self-contained battery and instructions included. 34g' Ib \$6.95

No. 35A573. Quality Import, Each

#### POCKET-SIZE MULTIMETERS WITH LONG SCALE

WITH LONG SCALE 4000 Ohms Per Volt DC Sensitivity. DC volts ranges 0-5-25-125-500-2500. AC volts ranges 0-10-50-250-1000 1,2000 ohms per volt ACI. DC current 0-250 ua, 0-250 MA. Resistance 0-10,000 and 0-1 meg. Decibel range -20 to +22db. Uses 250 ua D'Arsonval meter movement. Molded black plastic case  $4/2^{\circ}$ H.x 314<sup>°</sup> W.x 1<sup>°</sup> deep With test leads, instructions and battery. No. 35A515. Shpg wt. 2 lbs. Special Each 20000 Ohms Per Volt DC Sensitivity. DC volts ranges 0-10-50-250-1000. AC volts ranges 0-10-50-250-1000 DC current 0-50 ua, 0-250 MA. Resist-ance 0-6000 and 0-6 meg Decibel --20 to +22. Features 50 microamp D'Arsonval meter movement and precision resistors throughout. Readability is superior on all low ranges making this an excellent instrument for servicing transistor equipment. Molded black case  $41_2^{\circ}$  H.x  $31/4^{\circ}$  W.x 1<sup>°</sup> deep. With test leads, instructions and battery. Shpg. wt 2 lbs. No. 35A618. Special Each

No. 35A618, Special Each



155

\$1795



495

Built-in overload protection circuit—Burnout Proof! 20,000 ohms per volt DC. Pocket multimeter designed for accuracy in the field or on the® technician's bench. Easy-to-read heavy black numbers carefully scaled for quick<sup>®</sup> exact reading. Crystal clear high impact plastic front takes rough treat-ment and gives full scale view. Popular swinging-lever range-selector allows easy selection of ranges. DC valts ranges: 0-5-25-100-500-1000. AC volts ranges: 0-5-25-100-500-1000. DC current ranges: 0-50 ua, 5 MA, 50 MA, 500 MA. Ohms: 0-6,000, 600,000; 6 Meg, 60 Meg. Expanded low end scale. Decibels: 20 db to +62 db (5 ranges). Size, 43,4" H. x 3" W. x 11/4" D. Heavy duty bakelite case, precision 250 ua D'Arsonval movement, pin jacks. With batteries, test leads, leather case, instruction manual. No. 358569. Shpg. wt. 2 lbs. Giant Import Savings. Each

#### **() SUPER SENSITIVE MULTIMETER**

New eye-appealing design, compact size, full view type meter, clear uncom-plicated scales, easy to read for greater accuracy. Compares with meters selling for more than double our low price.

selling for more than double our low price. **30,000 ohm per volt model.** 22 Ranges: DC volts 0 to 3, 12, 60, 300, 600, 1200; AC volts 0 to 6, 30, 120, 1200 DC current 0-30 ua, 3 MA and 300 MA. Ohms up to 16 meg. in 4 ranges with expanded low end scale, 100 ohms at center. Decihels —20 db to + 63 db in 5 ranges. Has knife-edge pointer, clear uncluttered scales, recessed flush type range selector, ohms adjust and four meter jacks. Overall size  $51_2$ " H. x  $31_2$ " maximum width and  $13_4$ " D. Wt.  $31_2$  lbs. Complete with test leads and batteries. No. 358568. Big Import Value, Each

# PAINT AND EPOXIES



PARAS IRONO TA EPOXIES **EPOXIES** \$200 PER ARMSTRONG ART KIT ADHESIVE 2

ARMSTRONG

20

Bond almost all rigid or semi-flexible materials. Use for potting electronic components. Non critical mixing ratios.
Each kit contains sufficient resin and activator to make 2 to 4 ounces of adhesive, mixing cups, mixing paddles and instruction sheet.
No. 17A 1376. A-34 EPOXY. Most universal general purpose adhesive. White color. Thixotropic (paste) viscosity. Minimum working life 20 minutes. Develops handling strength overnight at room temperature or in 5 minutes at 300° F. Optimum cure, 3 days at room temperature or minutes at 200° F. Bond strength 1500 psi.
No. 17A 1375. A-12 EPOXY. Two color system (grey & brown) gives visual control of complete mixing. Medium viscosity material. Minimum working life 3 hours. Develops handling strength 020° F. Bond strength 2500 psi.
No. 17A 1377. A-36 EPOXY. Two color. Thixotropic (paste) with easy workability system. Minimum working life 2 minutes. at 200° F. Bond strength 2500 psi.
No. 17A 1377. A-36 EPOXY. Clear amber color. Thixotropic (paste) with easy workability system. Minimum working life 45 minutes. Develops handling strength overnight at room temperature. Bond strength 2100 psi.
No. 17A 1374. CT/H-20 EPOXY. Clear amber color. Low viscosity (pourable). Best for encapsulating. Minimum working life 45 minutes. Develops handling strength overnight at room temperature or in 5 minutes at 200° F. Optimum cure or in 5 minutes at 200° F. Optimum cure or 18 hours at 200° F. Optimum cure 18 hours at 200° F. Optimum strength 0.00° psi.

1000 psi.



-----**MIRA KLEER** YOU MUST **ALL PURPOSE CLEANER** BE SATISFIED 12 OZ. SPRAY 98° OR CONTAINER YOUR MONEY BACK

Greatest Cleaner And Protective Treat-ment For All Hard, Smooth Surfaces We've Ever Seen! No common detergents can remove Mira-Kleer. Ideal for cleaning radio and TV chassis. Also tends to reduce dust ac-cumulation. Contains no wax, will not build up. Big 12 oz. spray container. Shog. 1741359 Fach 98c Just return con-tainer for full refund. 98c No. 17A1359. Each ..... SPRAY ADHESIVE Pressure sensitive for permanent or tem-porary bonding of paper, glass, cardboard, fabrics, styrofoam, plastic films, and metal. Precise pin-point gluing with snorkel at-tachment. Clear and colorless. Clog proof No. 17A1381. 16 oz. can. Each. \$1.99 "SCOTCHGUARD" FABRIC PROTECTOR **STOPS STAINS BEFORE THEY HAPPEN** Handy spray-on protection for home furnishings and apparel,

Scotch both washable and dry cleanable. Easy to use ... sprays on, drys in minutes needs no ironing or heat setting. Sets up an invisible barrier that prevents stains and resists soil, keeps fabrics clean, bright, new-looking. Perfect for upholstered furniture, fabric auto interior, clothing, suits, dresses, table linens. Makes outer wear rain repellent. In 20 oz. pres-surized spray can. One can will treat an average upholstered chair. Mfg. suggested list. \$2.98 No. 17A1360. Net Each both washable and dry cleanable. gard PARAIC NOTECTOR

#### GENERAL ELECTRIC SILICONE SEAL

Super Glue. 100% rubber. Bonds securely to glass, ceramics, metal, wood, fabrics, masonry, painted surfaces, most plastics, and rubber. Permanent Caulk. Will not shrink, crack or dry out. Remains flexible and elastic and can stretch over 100%. Originally developed for sealing space vehicles. Guaranteed 10 years to perform as described on tube. Return tube to General Electric Co. for refund or replacement if not satisfied.

| 10.0     | 11 1101 30113 | streg.             |        |          |
|----------|---------------|--------------------|--------|----------|
| <b>S</b> | Stock No.     | 3 Ounce Tubes      | Each   | 5 Each   |
|          | 17A1345       | White Seal         | \$1.59 | \$1.49   |
|          | 17A1342       | Transparent Seal   | 1.59   | 1.49     |
| 22       | 17A1344       | Black Seal         | 1.59   | 1.49     |
| -        | 17A1341       | Aluminum Seal      | 1.59   | 1.49     |
| 12       | 12 ounce      | cartridges for use | with   | standard |
| -        | caulking g    | un,                |        |          |
|          | 17A1378       | White Seal         | \$3.59 | \$3.29   |
|          | 17A1379       | Transparent Seal   | 3.59   | 3.29     |

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\$1.19

# ELECTRONIC CHEMICALS AND LUBRICANTS



**G-C Contact Burnishing Kit.** For servicing relays, switches, etc. Removes de and corrosion from contact points without removing precious metal. ntains 2 oz. bottle contact cleaner and burnishing tool. oxide Contains No. 17A1324. G-C 9339. Each..... 970

(a) Insl-X Red Insulating Tool-Dip. Used by major utility companies for insula-ting power linemen's tools. Gives more than adequate protection against 110 to 220 volts exposure. Dielectric strength 1500 v/m. Resists acids, alkalies, and petroleum derivatives. No. 17A1368. 1 pint can. Each.....

Insl-X E-26 Clear Insulating Spray, Quick dry—3 to 5 minutes. Insulate everything in TV except moving parts and tubes. Prevents corona, arcing - keeps out moisture. No. 17A1327. 12 Ox. Can.....

#### PRINTED CIRCUIT SERVICE AIDS

No. 17A1349. GC 20-2. \$1.95 ....42c

Transistor Z5 Silicone Compound. Maintains efficient heat transfer from transistor to chassis, No. 17A1308. GC 8101. 1 Os. Tube..... 

E.I.A. COLOR CODING KIT

Kit contains jar each of red, grey, white, black, brown, orange, purple, blue, green and yellow high quality fast drying lacquer enamel. Complete with brush and color code chart. \$1.47 No. 17A1347. Per Kit.....

## KNOB-PLASTIC REPAIR KIT SETS ROCK-HARD IN 7 MINUTES

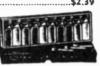
SETS ROCK-MARD IN 7 MINUTES New fast-setting material repairs anything of plastic. Ideal for joining broken or new parts, creating new plastic to match or fill repairs as needed. Completely moldable in setting stage, conforms to any shape. Once set, it may be sanded, sawed, drilled, tapped or pol-ished. Contains two mixing ingredients plus color kit. Shpg. wt. <sup>1</sup>/<sub>2</sub> lb. S1.65 \$1.65 No. 17A1346. Each ......

GENERAL CEMENT "EPOX" CEMENT KIT

Bond anything to anything. Provides super strength. Bonds to metal, ceramics, etc. Resis-tant to water, solvent, heat, cold and fungus. Has very good dielectric properties. Contains two mixing ingredients in 1½ oz. tubes. No. 17A1343 \$1.95 \$1.95



| ments, cemen | iting | loose         | tube | bases, | , etc |
|--------------|-------|---------------|------|--------|-------|
| Fast drying. |       |               |      |        |       |
| 17A1337-2    | OZ.   | <b>Bottle</b> |      |        |       |
| 17A13382     | OX.   | Tube          |      |        | .590  |
| 17A1339—8    | oz.   |               |      | \$     | 1.59  |
| 17A1340-1    | Pt.   |               |      | \$     | 2.75  |
|              |       |               |      |        |       |



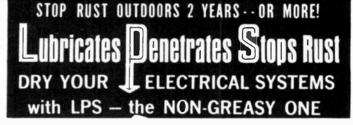
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\$1.29 SPECIAL MONEY SAVING OFFER Buy two 7 Lb. Cans at B-A's Regular Low Price of \$3.89 Each and get a high quality aluminum and steel dispenser for 97c. Dispenser costs \$4.95 when sold separately. No. 13A1367. \$8.75 Two 7 Lb. Cans Gent-L-Kleen with Dispenser

Burstein-Applebee Co., 3199 Mercier St., Kansas City, Mo. 64111

ANTI-CORONA LACQUER ---- Has high dielectric strength to prevent corona in TV high voltage, CC 47-2. 17A1336—2 oz. Bottle. Each.......78c

# SERVICE CHEMICALS AND ACCESSORIES



(1) B-A Tuner & Control Cleaner & Lubricant. Just spray tuner or control, leaves long-lasting protective coating against noise and oxidation. High quality ingredients will not harm plastic. Made for B-A by Chemtronics. An easy way

sensitive color tuners. Cleans and lubricates. Will not detune tuner—will not harm plastics. \$1.29 (3) B-A Super Freeze Aid. For Thermal Intermittent Components, Just spray on circuit, to locate intermittent component while circuit is in operation. Freezes immediately and leaves no liquid residue. Saves valuable time. May also be used to chill Martini glasses. No. 17A1303. 6 Oz. Spray Can......\$1.29



() Foaming Action Tun-O-Foam. Doesn't dry out. Foams away dirt and corrosion. Long lasting lubricant withstands extremes of temperature and maintains lubricity over thousands of channel changes. Non-abrasive. Will not contacts and cannot cause detuning. wear away



with felt applicator No. 17A1304. Each



# TEST AND ALIGNMENT AIDS



# SERVICE TOOLS, SOLDER

WALSCO COLOR



Just the thing for viewing the TV screen while adjusting controls or servicing in rear of set. Good quality 12x10" glass mirror does not distort image. Telescoping stand adjusts to the necessary height—collapses for eosy corrying when making service calls. Shpg. wt. 4 lbs. G-C 8390. No. 37A3195 \$6.95 NET EACH

MIRROR ONLY FOR BENCH USE 12x10" glass mirror in chrome frame ond with upright brocket. No. 37A3196G-C 8391. Eoch. \$3.47



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(2)

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#### **KESTER "44" RESIN** CORE SOLDER

Fast acting, instant wetting flux makes soldering rast acting, instant wetting flux makes soldering faster and provides a stronger longer-lasting bond. 100% non-corrosive and electrically non-conductive. Immune to fungus growth and resists oxidation or organic decomposition.

Small Box for the occasional user. 40% Tin-60% Lead. X4" dia. No. 17A7009. 1 0z. Net Wt. Ea. 30c

Prices Per Sneel

| Stock<br>No.       | 3/32"<br>1 Lb. | (.093) Dia.<br>5 Lbs. | Stock<br>No.       | 1/16"<br>1 Lb. | (.062) Dia.<br>5 Lbs. | Stock<br>No.       | 1/32"<br>1 Lb. | (.031) Dia.<br>5 Lbs. |
|--------------------|----------------|-----------------------|--------------------|----------------|-----------------------|--------------------|----------------|-----------------------|
| 17A7045<br>17A7046 | \$1.68         | \$8.18                | 17A7047<br>17A7048 | \$1.73         | \$8.40                | 17A7049<br>17A7050 | \$2.50         | \$9.75                |
|                    |                |                       | 50%                | TIN-50         | 0% LEAD               |                    |                |                       |
| 17A7051<br>17A7052 | \$2.03         | \$9.90                | 17A7053<br>17A7054 | \$2.07         | \$10.05               | 17A7055<br>17A7056 | \$2.82         | \$11.10               |
|                    |                |                       | 60 %               | TIN-40         | D% LEAD               |                    |                |                       |
| 17A7057<br>17A7058 | \$2.31         | \$11.33               | 17A7059<br>17A7060 | \$2.36         | \$11.55               | 17A7061<br>17A7062 | \$3.08         | \$12,50               |

|     | 40 /8 111-00 /8 22/00 |                                                                                                     |    |  |  |  |  |  |
|-----|-----------------------|-----------------------------------------------------------------------------------------------------|----|--|--|--|--|--|
|     | 3/3                   | 2" (.093) Diameter ( 1/16" (.062) Diameter                                                          |    |  |  |  |  |  |
| No. | 17A7010.              | 2″ (.093) Diameter 1/16″ (.062) Diameter<br>1 Lb. Spool. Ea\$1.68 No. 17A7012. 1 Lb. Spool. Ea\$1.7 | 3  |  |  |  |  |  |
| No. | 17A7011.              | 5 Lb. Spool. Ea 8.18 No. 17A7013. 5 Lb. Spool. Ea 8.4                                               | 0  |  |  |  |  |  |
|     | 50% TIN-50% LEAD      |                                                                                                     |    |  |  |  |  |  |
| No. | 17A7014.              | 1 Lb. Spool. Ea\$2.03   No. 17A7016. 1 Lb. Spool. Ea\$2.0                                           | 17 |  |  |  |  |  |
| No. | 17A7015.              | 5 Lb. Spool, Ea 9,90 No. 17A7017. 5 Lb. Spool. Ea10.0                                               | 5  |  |  |  |  |  |
|     |                       | 60% TIN-40% LEAD                                                                                    |    |  |  |  |  |  |
| No. | 17A7018.              | 1 Lb. Spool. Ea\$2.31   No. 17A7021. 1 Lb. Spool. Ea\$2.3                                           | 6  |  |  |  |  |  |
| No. | 17A7019.              | 5 Lb. Spool. Ea                                                                                     | 5  |  |  |  |  |  |
| No. | 17A7020.              | Soldering Paste, Per 2 Oz. Can                                                                      | C  |  |  |  |  |  |
| NO. | 1747025.              | 60-40% Fine Gauge Solder. 32" (.031) O.D. 1 Lb\$3.0                                                 | 0  |  |  |  |  |  |
| NO. | 17A7024.              | Liquid Solder Flux, 1 Pt\$2.2                                                                       | 3  |  |  |  |  |  |
|     |                       | KESTER SILVER SOLDER FOR PRINTED CIRCUITS                                                           |    |  |  |  |  |  |
| Con | tains 3%              | silver, 611/2 % tin, 351/2 % lead with an .062 diameter.                                            |    |  |  |  |  |  |

2% lead with an .062 diame No. 17A7023. 1 Lb. Spool. Net Each..... \$4.95

#### ERSIN MULTICORE SOLDER



Extra active, non-corrosive, 5 core construction assures flux continuity . . . prevents "dry" joints. Conforms to Govt. specs. QQS-571.

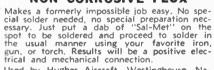
|          | 60% TIN-40% LEAD                                                                     |
|----------|--------------------------------------------------------------------------------------|
| NIL I    | KIT-PAK. Two solder gauges for the occasional user.<br>No. 17A7026, Approx. 67, Each |
| FITTER   | 17A7066, P.C. Pak, 21 Ft. of 22 Gauge                                                |
|          | 17A7027. Easy Dispenser Pak, 14 Ft. of 18 Gauge. Each                                |
|          | ONE POUND SPOOLS                                                                     |
| 10 10 00 | 62.24 28 Canada En 62.84                                                             |

| 17A7028. 16 Ga. | \$3.34         | 28 SPO | OIS, LA. |        |
|-----------------|----------------|--------|----------|--------|
| 17A7029, 18 Ga. | \$3.40         | 28 Spo | ols, Ea. | \$2.86 |
| 17A7063. 20 Ga. | (.032")\$3.67  | 28 Spo | ols, Ea. | \$3.19 |
| 17A7064. 22 Ga. | (.028")\$3.95  | 28 Spo | ols, Ea. | \$3.32 |
| 17A7065. 24 Ga. | (.022") \$5.64 | 28 Spo | ols, Ea. | \$4.75 |

#### "SAVBIT" COPPER-LOADED ALLOY SOLDER

Does not absorb metal from copper tips, reduces wear and prolongs tip life ten-fold. 28 Lbs. Ea. 28 Lbs. Ea. 17A7030. 16 Ga. 1 Lb. Spool...... 17A7031, 18 Ga. 1 Lb. Spool...... \$3.22

#### SENSATIONAL "SAL-MET" NON CORROSIVE FLUX



Ifficial and mechanical connection. Used by Hughes Aircraft, Westinghouse, Na-tional Advisory Council for Aeronautics, Erie Resistor Corp. and many others. Handy one oz. tubes sufficient for hundreds of jobs. \$1.19 No. 17A7008. Net Each .....

POCKET BLOW TORCH & SOLDERING KIT

SOLDER

ALL METALS EASILY!

FLUX and and a

HANDY 2-IN-1 TOOL WORKS FROM BUTANE GAS CARTRIDGE

And the set of the set

No. 37A3234. Extra Cartridge. Box of 4 Get Immediate Shipment From B-A's Large Stocks



| NUMBER OF TAXABLE PARTY |                                                                                                                                                        |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SOLDER                                                                                                                                                 |
| ONLY<br>\$649                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Heats in just 21/2<br>trigger is released<br>kit or pocket. Lig<br>less tiresome to u<br>narrow tip for ti<br>spotlight. Plastic t<br>heat and shock r |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60 cy, AC. Wt, 2<br>No, 37A329. Each                                                                                                                   |

## DERING GUN O WATTS

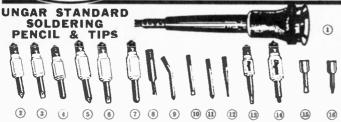
 $2 V_2$  seconds. Cools when leased. Small — fits tool t. Light—easy to handle, to use.  $3 V_4$  "extra long, for tight spots. Built-in sstic handle and case are ock resistant. 1.15 volts. Wt.  $2 V_2$  lbs. **\$6.49** 

|                | REPLACE |
|----------------|---------|
| Description    |         |
| Standard       |         |
| Fine Point     |         |
| Light Duty     |         |
| Medium Dut     | tv      |
| Heavy Duty     |         |
| Smoothing      |         |
| Cutting        |         |
| Long Reach     |         |
| Standard       |         |
| Long Life      |         |
| Plastic Tile ( | Cutting |
| Standard       |         |
| Flat Iron Tip  |         |
|                | -       |

| 75A7  | 75            | \$0.74 |
|-------|---------------|--------|
| 75B7  | 75            | .74    |
| 45F7  | 222, 450      | .98    |
| 45M7  | 222, 450      | .98    |
| 45A7  | 450           | .98    |
| 45P57 | 222, 450      | .45    |
| 4557  | 222, 450      | .45    |
| 19B4  | 199, 100      | .38    |
| 25A4  | 250           | .20    |
| 25×20 | 250           | .38    |
| 1901  | 199, 100      | .46    |
| 28C4  | 288           | .46    |
|       |               |        |
| 19F33 | 288, 199, 100 | .46    |
|       |               |        |

37A3318 37A3319 37A3320 37 A3168 37 A3169 37A3170 37A3171 37A3172 37A3172 37A3173 Ungar<sub>®</sub>) PRECISION SOLDERING IRONS

1



**1 UNGAR MODEL 776 HANDLE** 

UNCAR MODEL 776 HANDLE
 "Insul-cool handle" ruggedized for production fine soldering. Features stainless steel deflector for low handle temperature, ceramic and glass insulation for longer life, tough phenolic for added durability and extra heavy, extra flexible 6 ft. 18 gauge polyvinyl cord. Cork finger-grip, red colored handle. Accommodates all elements and tips below.
 37A3066. Type 776 (Less Element and Tip).
 Each......\$1.65 10 Lots, Each......\$1.36 50 Lots, Each.......\$1.24
 (D New "Clean Room" Handle. Heat stabilized polypropylene grip with airflow cooling keeps handle cool to the touch all day long. Octagon shaped anced. Supplied in attractive easy-on-the-eye blue pastel color. Other features same as Type 776 above.
 No. 37A3067. Type 777 (Less Element and Tip).
 Each......\$1.87 10 Lots, Each.....\$1.53 50 Lots, Each.....\$1.40

#### TIPS WITH SELF-CONTAINED ELEMENTS

500 STANDARD SERIES-231/2 WATTS

| For instrume                                                                                |                                                                                                                                                                                                                                              | general use. Tellurium                                                                                                                                                                                                                                           | Copper Tip,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 37A3068 (<br>37A3069                                                                        | 13) 533 CF<br>(2) 536 Py<br>(3) 539 CF                                                                                                                                                                                                       | Size         Trip         Size         Trip           nisel         15/8" Lx , 3/8" W         V           vramid         11/8" Lx 3/8" W         V           nisel         15/8" Lx 3/8" W         V           HI-HEAT         SERIES—37         V               | 700         \$1.52         \$1.25         \$1           700         1.52         1.25         1           700         1.52         1.25         1           700         1.52         1.25         1                                                                                                                                                                                                                                                                                                                                     | Ea.<br>.14<br>.14<br>.14        |
| For general<br>Copper Tip.                                                                  | service and I                                                                                                                                                                                                                                | ight to medium produ                                                                                                                                                                                                                                             | ction line service. Telluri                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | um                              |
| 2762071 /                                                                                   | 13) 1233 CI<br>(5) 1236* Py<br>(6) 1239* CF<br>olid iron silver                                                                                                                                                                              | ramid 11/8" Lx 5" dia.<br>nisel 11/8" Lx 38" W<br>plated for heavy duty                                                                                                                                                                                          | 800 <b>1.92 1.58 1</b><br>800 <b>1.92 1.58 1</b><br>production line use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .44<br>.44<br>. <b>44</b>       |
|                                                                                             | 4000 SOP                                                                                                                                                                                                                                     | ER MI-MEAT SERIES-                                                                                                                                                                                                                                               | 471/2 WATTS<br>iron. Tellurium Copper T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tip.                            |
| iron clad, sil                                                                              | ver plated.                                                                                                                                                                                                                                  | nisel 15%" Lx1/4" W<br>ramid 11%" Lx38" dia.<br>ry.Chl. 11%" Lx3%" W                                                                                                                                                                                             | 1000 \$3.17 \$2.60 \$2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | .38<br>.38<br>.38               |
|                                                                                             | HE                                                                                                                                                                                                                                           | ATING UNITS                                                                                                                                                                                                                                                      | ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |
| NEW THREA<br>Stk. No. F<br>37A3077 (1<br>37A3078 (                                          | Fig. Type<br>14) 4037<br>14) 1237                                                                                                                                                                                                            | Wattage Temp. to Ti<br>471/2 850°<br>371/2 750°                                                                                                                                                                                                                  | \$3.17 \$2.60 \$2<br>2.13 1.75 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ea.                             |
| Use                                                                                         |                                                                                                                                                                                                                                              | READ-IN HEATING U                                                                                                                                                                                                                                                | Tiplets listed below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |
| 37A3081                                                                                     | (/) 4035                                                                                                                                                                                                                                     | 371/2 750°<br>471/2 850°                                                                                                                                                                                                                                         | 3.17 Z.60 Z.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ea.<br>.14<br>.44<br>.38        |
| 3743082                                                                                     | (7) 4045                                                                                                                                                                                                                                     | d-in unit for use with 5<br>471/2 8500                                                                                                                                                                                                                           | 67165 800 Tiplets,<br>\$3.17 \$2.60 \$2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .38                             |
| NEW 1<br>Stk. No. F<br>37A3083 (<br>37A3084 (<br>37A3085 (1<br>37A3085 (1<br>37A3086 (1     | FHREAD ON M           ig.         Type           16)         PL111*           16)         111           15)         PL113*           15)         113                                                                                         | Description<br><sup>3</sup> /4" Long <sup>1</sup> /8" Pencil<br><sup>3</sup> /4" Long <sup>1</sup> /8" Pencil<br><sup>3</sup> /4" Long <sup>1</sup> /8" Chisel<br><sup>3</sup> /4" Long <sup>1</sup> /8" Chisel                                                  | 1237 HEATING UNITS<br>Each 10 Ea. 50<br>\$0.80 \$0.66 \$0.<br>40 .33<br>.80 .66<br>.40 .33                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ea.<br>.60<br>.30<br>.60<br>.30 |
| 37A3087 ()<br>37A3088 ()<br>37A3089<br>37A3090 ()<br>37A3091 ()<br>37A3092 ()<br>37A3092 () | O. 300 TIPLE           ig.         Type           11)         PL331*           11)         331           (9)         PL332*           (9)         332           (0)         PL333*           (0)         PL338*           (8)         PL340* | 13 FOR 535, 1235, 403<br>Description<br>Ve" Pencil Tiplet<br>Ve" Pencil Tiplet<br>Ve" Offset Pencil Tiplet<br>Ve" Chisel Tiplet<br>Ve" Chisel Tiplet<br>Ve" Chisel Tiplet<br>Ve" Chisel Tiplet<br>Micro-Needle &"<br>EXTRA LONG TIPLET<br>for use with 4045 heat | Each         10 Ea.         50           \$0.60         \$0.49         \$0.           \$0.60         \$0.49         \$0.           \$0.60         \$0.49         \$0.           \$0.60         \$49         \$0.           \$0.60         \$49         \$0.           \$0.60         \$49         \$0.           \$0.60         \$49         \$0.           \$0.60         \$49         \$0.           \$0.60         \$49         \$0.           \$0.60         \$49         \$0.           \$0.60         \$49         \$0. <th></th> |                                 |
| Sel No E                                                                                    | (Designed                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | E.                              |
| 37A3095 (1)<br>37A3096 (1)<br>37A3097 (1)<br>37A3098 (1)<br>37A3098 (1)<br>37A3100 (1)      | 1) 823<br>0) PL824*<br>0) 824                                                                                                                                                                                                                | 45° Offset 2"x 3%" Chis<br>*Indicates Iron Plated                                                                                                                                                                                                                | 1.00 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |
|                                                                                             |                                                                                                                                                                                                                                              | <u>     </u>                                                                                                                                                                                                                                                     | DE-SOLDERIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IG                              |

Ш

C

3

Specially shaped tips makes easy removal of parts from P.C. boards. Fits

Description

x 3."

5/8" Cup Slotted Tip Bar 11/2" x

Each

.83

\$0.83

#400 KLEEN-TIP

Doubles life of soldering tips with new tip cleaner. Phenolic tray, specially processed sponge and bottom adhesive strips for firm mounting to work bench. No. 37A3102, Ea.....\$1.13 10 Ea.....93c 50 Ea.....85c No. 455 Refill Sponge for above. No. 37A3103, Ea......45c 10 Ea.....37c 50 Ea.....34c



UNGAR IMPERIAL SOLDERING PENCIL

TIPS

AND

## **G TIPS TO FIT ANY SOLDERING JOB**

Satisfies every demand for a cool, lightweight, easy-handling soldering iron. Engineered to get jobs done faster, better, more economically. Built to pro-vide years of dependable operation. Complete unit weighs less than 5 ounces. Handles and heat cartridges color keyed for instant identification.

#### IMPERIAL "PERMA-COOL" HANDLE

Introduces a completely new heat sink principle . . . double cushion of air, com-bined with five heat transition surfaces evenly dissipates heat, keeps handle cool and comfortable all day long. Durably built of Lexan high strength polycarbonate resin with built-in die-cast aluminum heat sink. Length 4.7". Specify color: Turquoise, Beige, Ivory or Black. (Handle only, less Cord). No. 37A3131. Type 6100. Ea.....\$1.52 10 @ Ea.....\$1.28 100 @ Ea.....\$1.20

#### **INTERCHANGEABLE PLUG & CORD SETS**

Select the cord that fits your needs, plug on to Perma-Cool Handle. 6 ft. 18 gauge flexible stranded wire, polyvinyi chloride insulation on both wire and female connector. Specify color: Turquoise, Beige, Ivory or Black.

|          |      | -t                              |        |         |         |
|----------|------|---------------------------------|--------|---------|---------|
| Stk. No. | Туре | <ul> <li>Description</li> </ul> | Each   | 10, Ea, | 100 Ea. |
| 37A3132  |      | 2-Wire cord W/Plug              | \$2.22 | \$1.86  | \$1.71  |
| 37A3133  | 6103 | 3-Wire Nema Cord W/Plug         | 3.28   | 2.74    | 2.57    |

#### INTERCHANGEABLE HEAT CARTRIDGES

New element winding principle provides reduced watt density, insures longer life. Heating element at tip end of cartridge results in less heat to handle, more heat to tip. Stainless steel, completely sealed—eliminates costly breakage. Threaded-end is engineered to resist oxidation, reduce heat waste, providing maximum heat transfer. Slim, tubular design offers easy access to hard-to-reach areas. Extends 2.5" beyond handle. 110-120 volts. AC-DC. Each cartridge (except 15-watt) has color-keyed band for instant wattage indentification. 6200 has red band, 6201 blue band, 6202 green band, 6203 yellow band.

| Stk. No. | Туре         | Wattage        | Temp. To Tip     | Each           | 10 Ea. | 100 Ea. |
|----------|--------------|----------------|------------------|----------------|--------|---------|
| 37A3134  | <b>†6203</b> | 60             | 1150°            | \$4.73         | \$3.97 | \$3.63  |
| 37A3135  | 6200         | 40             | 950 °            | 4.12           | 3.46   | 3.17    |
| 37A3136  | 6201         | 30             | 850°             | 4.12           | 3.46   | 3.17    |
| 37A3137  | 6202         | 25             | 800°             | 4.12           | 3.46   | 3.17    |
| 37A3138  | *6206        | 15             | 743°             | 4.12           | 3.46   | 3.17    |
| *For use | only with    | Micro-Tips lis | sted below, †Use | only iron clad | tips.  |         |

#### "MICRO-TIPS" FOR 15-WATT CARTRIDGE

| All are iror | i clad, | 24K gold | plated.             |        |        |         |
|--------------|---------|----------|---------------------|--------|--------|---------|
| Stk. No.     | Fig.    | Type     | Description         | Each   | 10 Ea. | 100 Ea. |
| 37A3139      | Ō       | 6550     | Tapered Screwdriver | \$1.24 | \$1.04 | \$0.95  |
| 37A3141      | 5       | 6553     | Stepped Chisel      | 1.24   | 1.04   | .95     |
| 37A3142      | (5)     | 6554     | Stepped Pencit      | 1.24   | 1.04   | .95     |
|              |         |          |                     |        |        |         |

#### INTERCHANGEABLE THREAD-ON "MINI-TIPS"

All are of Tellurium Copper except those marked \* which are iron clad, 24 K.

| guiù piateu, i           | rui use with              | 25, 30, 40 and 60 watt neat           | cartridges.    |                  |                   |
|--------------------------|---------------------------|---------------------------------------|----------------|------------------|-------------------|
| Stk. No. Fi<br>37A3143   | <b>g. Type</b><br>3) 6312 | Description<br>3/4" long, 1/a" pencil | Each<br>\$0.48 | 10 Ea.<br>\$0.40 | 100 Ea.<br>\$0,37 |
| 37A3144 (i               | § 6313*                   | 3/4" long, 1/a" pencil                | 1.06           | .89              | .82               |
| 37A3145 (                | 6318                      | 3/4" long, 1/a" taper-chisel          | .48            | .40              | .37               |
| 37A3146 (                | 6319*                     | 3/4" long, 1/8" taper chisel          | 1.06           | .89              | .82               |
| 37A3147 (                | 6324                      | 3/4" long, 1/8" taper pyramid         | .48            | .40              | .37               |
| 37A3148 (@               | 6333*                     | 3/4" long, 1/a" needle                | 1.06           | .89              | .82               |
| <b>37A3149</b> ()        | 6304*                     | 1/2" long, 1/2" micro-chisel          | 1.06           | .89              | .82               |
| 37A3150 (8<br>37A3151 (8 | 6305*                     | 1/2" long, X4" micro-spade            | 1.06           | .89              | .82               |
| 37A3151 (3               | 6325*                     | 3/4" long, 1/8" taper pyramid         | 1.06           | .89              | .82               |
| 37A3152 (                |                           | 3/4" long, 1/a" screwdriver           | 1.06           | .89              | .82               |
| 37A31S3 (                | 5 6481*                   | 3/4" long, 3/2" taper screwdrive      | r 1.06         | .89              | .82               |

#### UNGAR SOLDERING IRON HOLDER



Safety guard design protects operator from accidental burns, protects iron against breakage. Keeps iron cradled safely and securely — ready for easy, instant use. Angle of cradle adjustable for operator's convenience. Attaches to top, side, or underside of workbench. Shpg. wt. 1 lb.

venience. Attaches to 102, workbench. Shpg. wt. 1 lb. No. 37A3101. 8000 For Standard Ungar Each.....\$1.95 10 Ea.....\$1.75 50 Ea.....\$1.59 No. 37A3302, 6800 for Imperial. Each.....\$1.95 10 Ea......\$1.75 50 Ea.....\$1.59

#### UNGAR 6760 SOLID STATE SOLDER GUN

Dual heat. Hi-Lo switch in handle selects 500°F or 900°F Temperature. Lightweight ... less than 5 oz. with-out cord set. Solid state components replace heavy transformer. Electrically isolated tip safe for soldering IC's and FET's. Solders in seconds. Complete with long chisel, short chisel and pyramid tip.

| Mfg. No.Description6760Cun Complete6763Handle and Cord Set6751Heat Cartridge6755Long Chisel Tip6753Short Chisel Tip6754Pyramid Tip | 1-3 Ea. | 4-11 Ea. | 12 Up Ea. |
|------------------------------------------------------------------------------------------------------------------------------------|---------|----------|-----------|
|                                                                                                                                    | \$9.95  | \$8.95   | \$7.95    |
|                                                                                                                                    | 4.55    | 4.09     | 3.60      |
|                                                                                                                                    | 4.20    | 3.78     | 3.36      |
|                                                                                                                                    | .40     | .36      | .33       |
|                                                                                                                                    | .40     | .36      | .33       |
|                                                                                                                                    | .40     | .36      | .33       |



Stk. No. 37 A3292 37 A3293

37A3294 37A3295 3743200 37A3297

**DE-SOLDERING** 

TIPS

FOR 4045 HEATING

UNIT

50 Each

.62

.62

\$0.62

10 Each

.68

.68

\$0.68

4045 heating unit only. Fig. Stk. No. Type ① 37A3060 856

37A3061 37A3062

857 858

2

1

# MINIATURE SOLDERING TOOLS



#### UNGAR DIP IC EXTRACTOR

| Unique Spring-Load   | ed Actio | n Locks On .  | Instantly    |
|----------------------|----------|---------------|--------------|
| Releases up to 16    | Pin Dual | In-Line IC's. | Fast release |
| prevents board da    | mage. E  | liminates dan | naged leads, |
| circuit destruction, | burned   | fingers. Push | -button sim- |
| plicity that works   | reliably | time          | after time.  |
| No. 37A3299, 6982    |          |               | \$1.77       |
| 1-9 Ea.              |          |               |              |
| 10-49 Ea.            | \$1.56   | 50 Each       | \$1.41       |

#### **UNGAR 8001 ANTI-SEIZE**

Reduces tip thread seizure. Improves heat transfer. No. 17A7040



Each

#### Direct Line To B-A's Order Desk Phone: (816) 561-5460

Each

65c

# METAL-WORKING SHOP TOOLS

## **UNIMAT 5-IN-1 PRECISION TOOL SHOP**



4-IN-1 TOOL



**Outfit Your Shop With Tools From B-A** 

# MANNING BOWMAN ELECTRIC POWER TOOLS

MANNING BOWMAN

MODEL \$1495

## MANNING BOWMAN DELUXE SABRE SAW

## \$14<sup>95</sup>

Well balanced. Crosscuts, rips, scrolls, notches its own starting hole. Clears cutting line with air stream. 3 amp 115 volt AC motor develops  $\frac{3}{6}$ , HP industrial rating. Capacity 21/4" at 90°, 11°, at 45°. 56" stroke. 300 strokes per minute.

Lifetime self-lubricated bronze bearings. 3 wire cord, Rip guide, 3 blades. With Allen wrench. Wt.  $4\frac{1}{2}$  lbs.

| No. 37A9106.<br>Each        |        | \$1  | 4.95    |
|-----------------------------|--------|------|---------|
| No. 37A9047.<br>Blade, Each | Fine   | Wood | Cutting |
| No. 37A9048.<br>Blade, Each | Coarse | Wood | Cutting |
| No. 37A9049.<br>Each        |        |      |         |

## MANNING BOWMAN 7<sup>1</sup>/<sub>4</sub>-IN. POWER SAW \$24<sup>95</sup>



#### **<sup>1</sup>**<sub>4</sub>-INCH ELECTRIC DRILL

A really dependable all-around utility drill for the home craftsman and hobbyist. Husky 2.6 amp motor delivers plenty of power for drilling in wood, metal, etc. 2000 RPM no load speed. Pre-cision ground ball-thrust bearings. Bright finish die-cast aluminum housing. Geared chuck with key. 3-wire cord. 115 V. AC. \$9.99 No. 37A598. Shpg. wt. 4 lbs. Each......



38-INCH \$1695 MODEL

VARIABLE SPEED ELECTRIC DRILLS BY MANNING BOWMAN

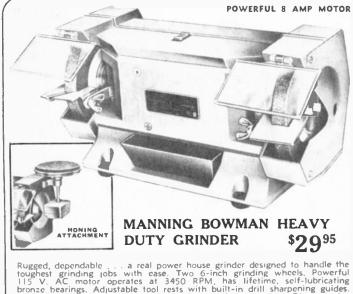


Each

Rugged gear drive moves 1500 surface feet per minute for rough sanding to fine finishing sanding. Snap lock on front for easy changing of belts. 7.5 amp. industrial rated motor has life-time lubricated bearings. Die-cast aluminum housing, lock trigger switch, 3 conductor cord. Wt. 12½ lbs. No. 37A9095. \$29.95

Each 4 x 213/4" No. 37A9519. No. 37A9520. 37A9521. No. 37A952 Choice Each







11 n

TABLE

# No. 37A598. Shpg. wt. 4 lbs. Each ...

## PRECISION ROUTER \$29<sup>95</sup>

Micrometer type depth adjustment of .004", each full turn of adjusting ring equals .004". Adjusts from 0" to 1". Depth can be changed without removing from work. Uses standard 1/4" shank tool bits. Powerful 5 amp 115 Volt AC motor has lifetime lubricated bronze and ball bearings. 20,000 rpm free spindle speed. 3 conductor cord, die-cast aluminum housing. \$20 05 63/4 Ibs \$29.95

63/4 Ibs. **4**/**3**, V.37 No. 37A9094. Each **4**/**3**, V.37 No. 37A9517. Router Guide for straight and circular cuts. Each \$3.89 No. 37A9518. 1/4" Straight Router Bit. \$2,39 \$2.39

## MANNING BOWMAN BENCH GRINDER \$15<sup>95</sup>

Ruggedly constructed grinder packed with features normally found only in higher priced units. Powerful indus-trially rated 3.2 amp 3450 RPM motor, has lifetime, self-lubricating bronze bearings throughout. Has 2 - 41/2" wheels, 1-coarse and 1-fine grit. Safety eye shields. Built-in water cool-ing tray and work light. Adjustable tool rests make angle grinding easy. Pressure die-cast aluminum housing with baked enamel finish, 9" W. x 61/2" H. 7 "D. Weighs only 91/2 lbs. for easy portability. 3-wire cord, 115 V 60 cycle, AC. No. 37C50. Shpg. wt. 11 lbs. Each 11 lbs. Each

Use B-A's E-Z Pay Revolving Charge To Buy The Power Tools You Need

## WEN VARIABLE SPEED JIG SAW

## \$26<sup>21</sup>

Thumb switch controls speed from 0-2800 strokes per minute, Locks at full speed for continuous heavy duty

full speed for continuous heavy duty operation. Cuts wood up to 6" thick, metal up to ½" thick, pipe and conduit up to 2" thick. Cuts curves, scrolls or fine pattern work perfectly. Moveable sole plate for flush cuts. Plunge cuts made easily without drill-ing starting hole. Rugged ½ HP, 4 amp cool-running motor. With rip guide, 3 wire cord and adaptor, and 7 blades for any cutting job. Ball brite finish. No. 37A9097 Wan 521 Each

\$26.21 Wen 521 Each

## AMAZING WEN **ZIP SAW**



2 Speed Model. Performs hundreds of cutting jobs! Cuts wood up to 6x6''. Flush cuts to corners for wall, floor or ceiling cutouts. Makes its own starting hole. Cuts metals 1/2'' thick. Beautifully balanced and lightweight has heavy duty roller and oilite bear-ings, heavy duty hardened gears. Cool running 115 V. AC motor delivers 3200 1'' cutting strokes per minute. 41/2 amp. With 7 assorted blades, 3 wire cord. Size 9 x 71/4 x 7''. Net Wt. 61/2 lbs. Shpg. wt. 81/4 lbs. No. 37C18. Model 920D. Net Fach \$34.97 \$34.97 Model 920D. Net Each

#### EVTDA BLADES EOD 521 AND 920

| EATRA BLADES FOR 321 AND 320                                                  |  |
|-------------------------------------------------------------------------------|--|
| 37A9555. No. 91. Wood, 3 Teeth Per Inch. Package of 3                         |  |
| 37A9556, No. 92, Wood, 5 Teeth Per Inch. Package of 3 \$1.50                  |  |
| 37A9557. No. 93. Wood, Aluminum, 8 Teeth Per Inch. Package of 3\$1.20         |  |
| 37A9558. No. 94. Wood, 14 Teeth Per Inch. Package of 3                        |  |
| 37A9559. No. 95. Cardboard, Leather, Rubber. 4" Knife Blade. Pkg. of 3 \$1.20 |  |
| 37A9560. No. 96. Steel, 14 Teeth Per Inch. Package of 3                       |  |
| 37A9561. No. 97. Sheet Metal, Bakelite, Formica, Ťile, etc.                   |  |
| 24 Teeth Per Inch, Package of 3                                               |  |
| 37A9522. No. 900. Package containing 1 Each of above Package                  |  |



## WEN 3/8" VARIABLE SPEED DRILL \$26<sup>95</sup>

Deluxe features, Speed variable from 0 to 1100 RPM with the touch of your finger. Perfect balance for ideal ontrol

control. Ball brite finish on die-cast aluminum housing. Burnout-proof armature. Needle bearing at heavy load point. Ball thrust spindle bearing. Double reduction gear train. 3.2 amp 115 V. 60 Hz AC high torque motor. 9 x 71/4 x 21/2.  $3_8$  "Jacobs Chuck Removable front handle. 3-wire cord and adaptor. UL and CSA listed. Shpg. wt. 5 lbs. No. 37A9102. \$26.95



# WEN Ellow POWER TOOLS



power than conventional drills! Poly-carbonate housing — virtually inde-structible. Variable speed; all double-insulated. "Human engineered"—per-fectly balanced for never before com-fort in use! Gets into Hard-to-get-at corners no other drill can! Solid state magnetic motor; diode circuitry. Life-time lubricated spherical bear-ings. Double-reduction gears — like industrial drills. 7%" long. Wt. 1% Ibs. Variable Speed 0-1200 RPM. Nor 01-112-VSC. \$32.95 No. 37A9103. Each. No, 37A9103. Each \$32.95 Reversible Variable Speed 0-1200 RPM. Thor D1-112R-VSC, \$26.05 \$36.95 No. 37A9104. Each...

ghiss

WEN SANDER \$1288

Straight Line Action Quickly Sands to a Smooth, Scratch-Free Surface. Superior to any sander we've seen at this amazing low price... extremely powerful, cannot be overloaded. Sup-plies 7200 % strokes per minute for rough or fine finish sanding. Runs smooth and stays cool, Non-slip lever action sandpaper clamps. Uses Vs sheet standard 9x11" sandpaper. Ball brite finish die-cast aluminum hous-ing. 110 V. 60 cv. AC. 6 ft. 3-wire cord. Shpg. wt. 5 lbs. Model 310. No. 37B29 \$12.88 \$12.88 Each



LIGHTEST.

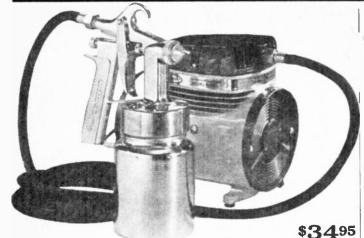
TOUGHEST.

MOST POWERFUL

DRILL

EVER **OFFERED!** 

# **ELECTRIC POWER TOOLS AND ACCESSORIES**



SPRAYIT 600 HOME HANDYMAN SPRAYER SPRAY PAINTS, SOLVENTS, INSECTICIDES, WEED KILLERS

Makes painting easy. Get finer, smoother finishes many times faster than brushing. Fully adjustable spray pattern, Oil-less diaphragm type compressor. Permanently lubricated bearings. Constant-air flow pressure-feed gun works with all sprayable materials, including garden and household liquids. Includes easy to use lightweight spray gun with pint size aluminum cup with an internal mix spray nozzle, 6 foot cord, and 8 foot of rubber air hose. For 115 volts 60 Hz AC. Shpg. wt. 13 lbs. \$34.95 No. 37A9099, Each.



Fits directly into chuck of any drill—boosts power 7 times—converts any light duty drill for heavy work. Runs in reverse with one easy twist. Drives and removes nuts—1/4'' socket drive included; with the addition of 1/2'' chuck similar to that listed below handles heavy duty jobs. Includes: Versamatic unit, standard screwdriver bit, No. 2 Phillips type bit, 1/4'' square drive socket adapter. screwdriver bit, No. 2 No. 37B123. Wt. 3 lbs. \$11.55 Complete Set.







Converts all 1/4" and 3/8" drills—Spade or pistol grip—to drill press. Do tough and accuracy re-quiring jobs with ease. Ideal when using attach-ments. Indispensable for tapping and precision drilling. Drill securely locks into cradle mtg. — moves up, down or rotates on supporting column. Has professional rods and pinion gear feed with heavy duty clock spring return mechanism. Easy to read depth scale with threaded lock nut stop for repeated drilling to predetermined depth. Depth of throat 4". Sturdy 1" dia. column and heavy cast base with slots for bench mtg. Wt. 8 lbs. 8 lbs \$12.95 No. 378347. Each

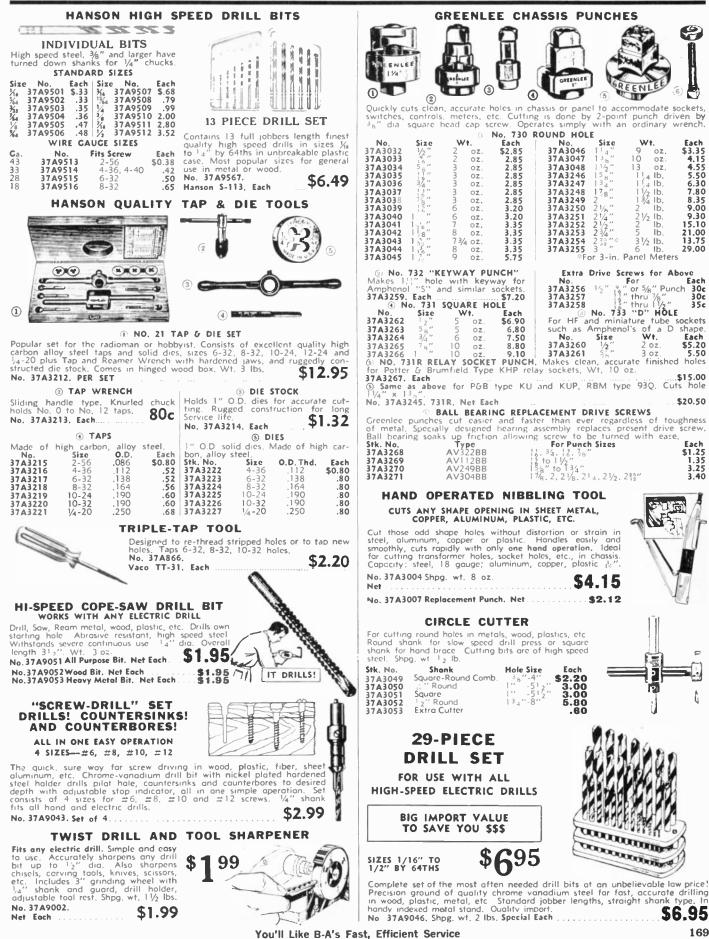


Vacuum Power will hold vise firmly on any non-porous surface. Turn handle to hold vise, turn handle to release.  $360^{\circ}$  swivel head with both  $1/2^{\circ}$  and  $21/2^{\circ}$  jaws. Handy for holding material for shaping or sharpening. Precision crafted in Japan. Wt. 5 lbs. \$5.95 No. 37A5549. Each

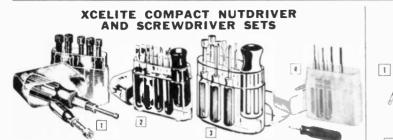


You'll Like B-A's Fast Personal Service

# **POWER TOOL ACCESSORIES, GREENLEE PUNCHES**



# PROFESSIONAL HAND TOOLS



#### WITH UNIQUE SLIP-ON TORQUE HANDLES

liest, most often needed precision tools "Piggyback" torque hondle slips on regular handles for tough jobs--provides the grip, reach and power of lard size drivers. Each set is in a see-thru plastic pocket size case with a Handiest, most often needed precision tools standard size drivers. Each set flat base for use as bench stand

#### T MINIATURE NUTDRIVER SET

#### 2 PRECISION SCREWDRIVER SET

All the screwdrivers needed for all servicing jobs in one compact see-thru plastic case. Includes 8 drivers—tive standard slotted sizes  $\frac{1}{3}$ ,  $\frac{1}{8}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{7}$ ,  $\frac{1}{$ 

#### **BINUTDRIVER AND SCREWDRIVER SET**

Includes the most popular sized tools from above kits. 2 nutdrivers 14", 2"; 2 standard slotted screwdrivers 3", 1"; 2 Phillips screwdrivers #0, #1; With torque handle, Shpg. wt. 1 lb. No. 37A743.Type PS7 Eoch \$4.13

#### (4) ALLEN HEX TYPE SCREWDRIVERS

Contains 8 midget Allen Hex type screwdrivers in sizes .028. .035, .05,  $\chi_{44}$ ,  $\chi_{44}$ ,  $\chi_{44}$  and  $\chi_{4}''$ . Greater speed and ease in turning than conventional keys. With torque handle and see-through plastic case. \$4.35 No. 37A861, Type PS-89, Each



#### **5 XCELITE ALLEN HEX SCREWDRIVER SET**

Long alloy steel blades provide 4" working length. Contains: 9 interchangeable blade sizes: .05, ½, ½, ½, ½, ¼, ¼, ½, ½; 4" extension shaft, servicemaster amber colored handle. In pocket-size, see-through plastic case. Shpg. wt. 1 lb. No. 37A767. 9 interchangeable \$7.13 Type 99PS-40 Each

Type 99P5-40 Each (\*) HOLLOW SHAFT NUTDRIVER SET With Thru-Drilled Handle Eight interchangeable hollow shafts permit installation and removal of nuts over protruding bolts. Drilled handle permits passing a screwdriver through handle and nutdriver shaft. For Combination locknut and slotted screw ad-justments. Shafts snap in and out easily, held firmly. Contains  $%_{16}$ ,  $V_{2}$  and  $%_{16}$  shafts and handle. No. 374862. Two HSC-1. In plastic see-through case. Each. \$8.85 No. 37A862. Type HSC-1. In plastic see-through case. Each.

(7) SCREWDRIVER NUTDRIVER SET Contains 34, 32, 34, 34, 34, 34, nutdriver blades, 34, and 34" screwdriver blades, No. 1 and No. 2 Phillips, extension blade, handle, and see-through plastic case. \$8.93 No. 37A863, Type 99PS-50, Each ....

(R) METRIC NUTDRIVER SET Contains 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11 millimeter nutdriver shafts, 4" extension and handle. Shafts snap in out of handle easily and are held firmly. In plastic see-through case. \$8.63 No. 37A865. Type 99PS51 MM. Each ...





No. 127TB. The 7 most popular size nutdrivers. Shockproof, breakproof plas-tic handles are color coded for easier selection of sizes. Fully polished 3" blades. Consists of sizes: 3, 3, 4, 1, 3, 1, 1 and 3, ". Molded plastic tray for bench, caddy or wall mounting. Wt.

The 7 most popular size No. 147TB. The 7 most popular hollow shaft nutdrivers. Shockproof, breakproof plastic handles are color coded for easier selection of sizes. Contains 1/4, 32,  $\frac{11}{12}$ ,  $\frac{3}{8}$ ,  $\frac{1}{16}$ , and  $\frac{1}{2}$ " sizes. In molded plastic tray for bench, tool caddy or wall mtg. Shpg. wt. 2 lbs. No. 37A745. Per Set. . . . \$8.70

Burstein-Applebee Co., 3199 Mercier St., Kansas City, Mo. 64111

#### **XCELITE SCREWDRIVERS**

Forged from tough Chrome Vanadium Electric Furnace Steel. Xcelite Screwdriver blades withstand heaviest usage. Shock-proof, breakproof amber plastic (UL) handles are shaped for perfect grip and balance. Blades are securely embedded in

| 1.00 |                                                                                                            | O BOOKE                                                                           | 7 0110 075                                                                            |                                                                                | nurn                                                            |                                                                      |
|------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|
|      | Stk. No.<br>37A801<br>37A802<br>37A803<br>37A803<br>37A804                                                 | () POCKE<br>Xcelite No.<br>R3322<br>R3323<br>R3324<br>R181                        | Blade<br>3/2 x 2"<br>3/2 x 3"<br>3/2 x 4"<br>3/2 x 2"                                 | /LE SCREWD<br>Overali<br>41/4"<br>51/4"<br>61/4"<br>41/4"                      | Each<br>\$0.41<br>.44<br>.47<br>.41                             | 10, Each<br>\$0.36<br>.39<br>.42<br>.36                              |
|      |                                                                                                            | ② ROU                                                                             | ND BLAOE                                                                              | SCREWDRIV                                                                      | ERS                                                             |                                                                      |
| D    | 37A864<br>37A787<br>37A788<br>37A789<br>37A790<br>37A791<br>37A792<br>37A792<br>37A793<br>37A794<br>37A795 | R182<br>R184<br>R3163<br>R3163<br>R3164<br>R3166<br>R3168<br>R144<br>R146<br>R148 | 1/8 x 2""<br>1/8 x 4""<br>1/8 x 34"<br>1/6 x 34"<br>1/6 x 34"<br>1/4 x 8"<br>1/4 x 8" | 456"<br>656"<br>858"<br>758"<br>958"<br>1156"<br>774"<br>974"<br>974"<br>1174" | .44<br>.51<br>.57<br>.74<br>.81<br>1.01<br>1.05<br>1.15<br>1.22 | .39<br>.45<br>.51<br>.66<br>.74<br>.81<br>.90<br>.93<br>1.02<br>1.08 |
| 114  |                                                                                                            | STUBBY                                                                            | SQUARE B                                                                              | LADE SCREV                                                                     | NDRIVER                                                         |                                                                      |
| X    | 37A805                                                                                                     | S-141                                                                             | - ¼ x 1¼″                                                                             | 31/4″                                                                          | .71                                                             | .63                                                                  |
| ¥7   |                                                                                                            | ④ PHI                                                                             | LLIPS TYPE                                                                            | SCREWDRI                                                                       | VER                                                             |                                                                      |
| /    | 37A796<br>37A797<br>37A798<br>37A799<br>37A799<br>37A800                                                   | X-100<br>X-101<br>X-102<br>X-103<br>X-104                                         | 0-1/8 x 2"<br>1-3/6 x 3"<br>2-1/4 x 4"<br>3-3/6 x 6"<br>4-3/8 x 8"                    | 4½"<br>6%"<br>7%"<br>10¼"<br>12½"                                              | .57<br>.88<br>1.08<br>1.52<br>1.86                              | .51<br>.78<br>.96<br>1.35<br>1.65                                    |



**XCELITE 4-WAY TOOL** TA =

4" and

Phillips screwdriver,

No. 37A707, Eoch

0

2

3

4

Includes:

iver

10 Each



#### **XCELITE HOLLOW** SHAFT NUTDRIVERS

Color coded, shockproof, plastic handles.

| Depth of | 11010 | 476 UI | rung   | CI. 111. | / UZ.  |
|----------|-------|--------|--------|----------|--------|
|          |       | Nut    |        | Cost     | 10     |
| Stk. No. | Type  | Size   | Lgth.  | Each     | Each   |
| 37A746   | Ĥ\$8  | 1/4"   | 7"     | \$1.11   | \$0.99 |
| 37A747   | H\$10 |        | 7″     | 1.11     | .99    |
| 37A748   | H\$11 | 1/32"  | 7″     | 1.11     | .99    |
| 37A749   | HS12  | 3/11   | 7″     | 1.11     | .99    |
| 37A750   | HS14  | 1/16/1 | 71/4"  | 1.28     | 1.14   |
| 37A751   | HS16  | 1/2"   | 71/4"  | 1.28     | 1.14   |
| 37A752   | HS18  | ×."    | 71/211 | 1.35     | 1.20   |
| 37A753   | H\$20 |        | 71/4"  | 1.52     | 1.35   |
|          |       |        |        |          |        |

## **XCELITE NUTDRIVER AND SCREWDRIVER SETS**

nut drivers, No

slotted screw-

\$1.86

.....\$1.65



# No. 99PR—Consists of amber plastic handle with 9 snap-in nutdrivers, sizes $\hat{f}_{a}^{(\prime)}$ to $\frac{1}{2}^{(\prime)}$ ; snap-in screwdriver bits with $\hat{f}_{a}^{(\prime)}$ and $\hat{f}_{a}^{(\prime)}$ blades; and snap-in screwdrivers with Phillips No. 1 and 2 blades. Tools fasten simply—are held securely in handle. Plastic roll case. Wt. 1 lb.

No. 37A754. Complete .... \$9.42 

## XCELITE SERVICE MASTER KIT



Hondles 99% of All Service Colls Versatile set of high-quality tools meets almost any radio-TV servicing need.

need. Set includes: 6" long nose pliers; 5" diagonal cutters; 6" adjustable wrench; 9 regular nutdrivers 1<sup>6</sup>" through '2"; 3 stubby nutdrivers 1<sup>6</sup>" through '2"; 1<sup>6</sup>" and 3<sup>6</sup>"; slotted screwdrivers; #1 Phillips screwdriver; 1<sup>6</sup>"-3<sup>6</sup>" reamer; 1<sup>6</sup>"-1/2" reamer; 8" extension; regular handle and stubby handle. All tools tough alloy steel with highly polished nickel chrome finish. In roll-up kit with separate compartment for each tool, Shpg. wt. 3 lbs. **37A756.** Type 995M. Each **\$26.85** 

## XCELITE SEIZER TOOLS

Especially designed for working with miniature components. Clamps on to work and will outhold needle nose pliers. Ideal for use as a heat sink, holding leads while soldering, restring-ing dial cords, etc. All stainless steel with precise box joints. Length 6". **O** No. 37A811, Model 42H. **\$4.65** Straight Nose. Net Each..... 6 Lots Each. Nose. Net Each. 6 Lots Each. .\$4.13 Curved \$4.80 \$4.27







No. 37A831, 86070. Plierench in pouch. Each ... No. 37A833. 86073. Giant internal-external pipe jaw, to hold inside of tube 1.60 5.00

#### HEX & SPLINE WRENCH KIT

37A873

37A877 37A878

374879

374880

37A881

374882

37A884

......\$1.20



 AUTOMATIC CENTER FUNCH
For simple and accurate punch mark-ing before drilling. Just push and automatic internal spring loaded mechanism does the rest. \$3.99 No. 37A769. Each STREP PUNCH
Counters internal spring loaded strength for use in electric drills. Lgth. 2½". No. 37A9045. Wt. 2 oz. \$1.79 49 c Net Eoch ..... TWEEZERS 2 (A. (A) (%. (C) (D) 0 (A) 7" Long, curved smooth point Tweezers. Shog. wt. 2 oz. 72c 72c No. 37A3228. Each. 74 Oct. 74 Constrained points, plated. wt. 2 oz. 60c 

soldering 50c

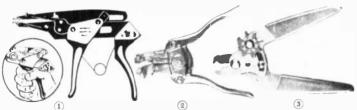
(B)

# PROFESSIONAL QUALITY HAND TOOLS

| <complex-block></complex-block>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |                                                                                                                                                                                                                          |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | POLISHED HEADS                                                                                                                                                                                                            |                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |                                                                                                                                                                                                                          |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                           | 1 2 3 3 5                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                           | Best choice for today's dense circuitry and miniature components. Designed<br>for use in close confined areas, All have coil spring to open jaws. Avg. Wt.                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                           | 2 oz.<br>Fig. Stk. No. Utica No. Description Each 6 Each                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Stk. No. Mfg. No. Fig. Wt. Description Each 16 Each                                                                                                                                                                       | Cutting Pliers \$4.40 \$3.96<br>T 37A856 47-4 CFS 4" Flush Edge Diagonal                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 37A710 2100-5 (i) 6 oz. Xela "\$" \$cissors \$3.20 \$2.67                                                                                                                                                                 | 37A857 66-5 CFJS 5" Tip Cutting Pliers With Pin<br>To Hold Jaws In Alignment 5.12 4.60                                                                                                                                   |
| 31 A77 10       D-20.5       c)       c) <th><b>37A712</b> D213-9NE (a) 902 914 Side Cutters 5.70 4.79<br/><b>37A713</b> D202-6 (a) 40z, 6" Oblique Cutting Pliers 3.49 2.90<br/><b>37A714</b> D245-5W (a) 40z 5" Cutters w/wire strippers 3.97 3.30</th> <th>Pin To Hold Jaws In Alignment 4.70 4.23     A 37A859 25-5 CFCRS 5" 60° Angle Bent Chain Nose</th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>37A712</b> D213-9NE (a) 902 914 Side Cutters 5.70 4.79<br><b>37A713</b> D202-6 (a) 40z, 6" Oblique Cutting Pliers 3.49 2.90<br><b>37A714</b> D245-5W (a) 40z 5" Cutters w/wire strippers 3.97 3.30                     | Pin To Hold Jaws In Alignment 4.70 4.23     A 37A859 25-5 CFCRS 5" 60° Angle Bent Chain Nose                                                                                                                             |
| <complex-block></complex-block>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 37A771 D240-5 (3) 5 oz. 5" Cutters W/ 052"<br>Skinning Hole 3.73 3.10                                                                                                                                                     | Pliers, Unscored Jaws 5.36 4.82<br>(3) 37A860 23-6 CFCRS 6" Short Chain Nose Pliers                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>37A716</b> D301-7 (§ 8 oz. 7" Long Nose Pilers 3.17 2.63<br><b>37A717</b> D203-6 (§ 6 oz. Long Nose w/Cutters 3.33 2.77                                                                                                |                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 37A719 D302-6 1 5 oz. 6" Long Curved Nose Plier 3.63 3.02                                                                                                                                                                 |                                                                                                                                                                                                                          |
| 0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                           | No. 37A706.                                                                                                                                                                                                              |
| Number of the other work of the othe work of the other work of the other work of the oth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                           | Shear action cuts filament, fine wire and other electronic materials. Wt. 8 ozs. With spring and Plastisol dipped handles.                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |                                                                                                                                                                                                                          |
| Nike         Marke No.         Fig. Wr.         Description         Lack 6 Each           174721         D013-5C         O. 0.402         Fig. Voltage w/Sant Cutters         54.26         52.06           174721         D013-5C         O. 0.402         Fig. Voltage w/Sant         51.2         Constraint         Constraint         Constraint         S1.2         S1.2         Constraint         S1.2         Constraint         S1.2         Constraint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Che Stand Ch                                                                                                                                                                                                              | KRAEUTER SMALL PRECISION PLIERS                                                                                                                                                                                          |
| 17/1710       D207-SC*, 0       40.e.       51.7       D0100 w/shore Curters       34.8       35.95         17/1711       D207-SC*, 0       40.2       51.7       D0100 w/shore Curters       34.8       35.95         17/1712       D207-SC*, 0       40.2       51.7       D0100 w/shore       34.8       35.95         17/1712       D207-SC*, 0       40.2       1.7       D0100 w/shore       34.8       35.95         17/1712       D207-SC*, 0       40.2       1.7       D0100 w/shore       34.8       35.95         17/1712       D207-SC*, 0       0.0       1.7       D0100 w/shore       0.0       0.0       0.0       0.0         17/1712       D207-SC*, 0       0.0       1.7       D0100 w/shore       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                           |                                                                                                                                                                                                                          |
| 174722       2018-31, cold oc. 21, si, Long Needle Nose       314       213         174723       2029-4C*       0       0       0       0         Supplied with foil spring to hold jaws open ready for use.         ALLEN SMALL SERIES PLIERS         N. Ne. Fig. Wt       Description       Each 16 fact         174725       2029-7.0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 37A720 D207-5C* (1) 4 oz. 51 " Oblique w/Shear Cutters \$4.32 \$3.59                                                                                                                                                      |                                                                                                                                                                                                                          |
| "Supplied with coll spring to hold jaws open ready for use.         All have passing to hold jaws open ready for use.         MELEIN SMALL SERIES PLIERS         N. M. Mrg. No. Fig. Wt.       Description       Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"         MI have pair to hold jaws open ready for use.       Colspan="2">Colspan="2"       Colspan="2"         MI have pair to hold jaws open ready for use.       Colspan="2">Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"         MI have pair to hold jaws open ready for use.       Colspan="2"        Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"       Colspan="2"         Colspan="2" <th< th=""><th><b>37A722</b> D318-51<sub>2</sub> ③ 4 oz. 51<sub>2</sub> " Long Needle Nose 3.12 2.59<br/><b>37A723</b> D318-51<sub>2</sub>C<sup>e</sup> ④ 5 oz. As above w/Coil Spring 3.36 2.79</th><th></th></th<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>37A722</b> D318-51 <sub>2</sub> ③ 4 oz. 51 <sub>2</sub> " Long Needle Nose 3.12 2.59<br><b>37A723</b> D318-51 <sub>2</sub> C <sup>e</sup> ④ 5 oz. As above w/Coil Spring 3.36 2.79                                     |                                                                                                                                                                                                                          |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | *Supplied with coil spring to hold jaws open ready for use.                                                                                                                                                               | For accurate and exacting work Precision crafted in every detail, Polished                                                                                                                                               |
| $\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                           | heads, Cushion grip handles, †Cannot be Assorted for Quantity Prices,<br>Stk. No. Mfg. No. Fig. Description Wt. Each †6 Each<br>37A774 20101* 0 41/2" Needle Point Diagonal 3 oz. \$3.75 \$3.38                          |
| Str. No.       Mig. No.       Fig. No.       Fig. No.       Str. No.       Mig. No.       Mig. No.       Str. No.       Mig. No. <td< th=""><th></th><th><b>37A775</b> 20181 ① 41/2" Diagonal Cutters 3 oz. 2.77 2.50<br/>37A776 20183 ② 41/2" Chain Nose 3 oz. 2.55 2.30</th></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           | <b>37A775</b> 20181 ① 41/2" Diagonal Cutters 3 oz. 2.77 2.50<br>37A776 20183 ② 41/2" Chain Nose 3 oz. 2.55 2.30                                                                                                          |
| KLEIN SMALL SERIES PLIERS<br>MALL SERIES PLIERS<br>DescriptionStk. No. Mig. No. Fig. Wt.<br>TAT25 D307-519 $(1 + 0 \times 2)^{-1}$ Long Nose Pliers<br>Str. No. Mig. No. Fig. Wt.<br>Description be assorted<br>TAT26 D321-41/2 $(0 - 3 \times 2)^{-1}$ Long Nose Pliers<br>Control daws open table stores and the assorted be assorted be assorted<br>to a store the assorted be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                           | 37A778         20184         4 1/2"         Flat Nose         3 oz.         2.55         2.30           37A779         20185         9         41/2"         Round Nose-Round Jaw 3 oz.         2.69         2.42        |
| $\begin{array}{c} 374727 \ b209-5^{\circ} \ b \ 502. \ 5^{\circ} \ 0 \ 502. \ 5^{\circ} \ 5^$ | Stk. No. Mfg. No. Fig. Wt. Description Each †6 Each                                                                                                                                                                       |                                                                                                                                                                                                                          |
| With coil spring to hold jaws open ready for use.Cannot be assorted.Market Signer Colspan="2">Size PLIERSSixe No. Mrg. No. Fig. Wt.DescriptionEach 6 Each3774738 3031-41/2 Colspan="2">Size Algo the coll spring 2.602.602.603774736 3031-41/2 Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" <colspan="2">Colspan="2"<colspa< th=""><th>37A726 D209-5 3 5 oz. 5" Oblique Cutting Pliers 3.81 3.17</th><th></th></colspa<></colspan="2">                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 37A726 D209-5 3 5 oz. 5" Oblique Cutting Pliers 3.81 3.17                                                                                                                                                                 |                                                                                                                                                                                                                          |
| Site. No. Mfg. No.Mfg. No.Mg. N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | +With coil spring to hold jaws open ready for use. "Cannot be assorted.                                                                                                                                                   |                                                                                                                                                                                                                          |
| 37A729       D321-4½ C       3 oz.       As Above w/Coil Spring       2.80       2.33         37A868       D224-4½ C       3 oz.       Ar Diagonal Cutters w/Coil Spring       3.17       2.63       2.93       2.43         37A731       D257-4       G       3 oz.       Ar Diagonal Cutters       2.93       2.43         All with plastic cushion grip handles. Cannot asort for quantity prices.       Applus the wight with losting beouty. Identical to Crescent.       IN 5 POPULAR SIZES         Stk. No. Mfg. No. Wt.       Size       Cap.       Each       Chrome ploted drop forged olly steel combines moximum strength, lighter weight with losting beouty. Identical to Crescent.       IN 5 POPULAR SIZES         Stk. No. Mfg. No. Wt.       Size       Cap.       Each       Chrome Plastic Crescent.       Chrome Plastic C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Stk. No.         Mfg. No.         Fig.         Wt.         Description         Each         6 Each           37A728         D321-41/2         0         3 oz.         41/2" Long Nose Plier         \$2,56         \$2,13 |                                                                                                                                                                                                                          |
| 37A732       D257-4C       3 oz.       As Above w/Coil Spring       3.17       2.63         All with plastic cushion grip handles. Cannot assort for quantify prices.       DJUSTABLE KLEIN WRENCHES       IN 5 POPULAR SIZES         Chrome ploted drop forged olloy steel combines moximum strength, lighter weight with losting beouty. Identical to Crescent.       IN 5 POPULAR SIZES         Stk. No. Mig. No. Wt. Size Cap. Each 37A735       Size Cap. Each 14%       IN 5 POPULAR SIZES         JATAT3 500-6       3 oz. 10"       1%"       2.10         JATAT3 500-12       24 oz. 12"       1%"       2.10         JATAT3 500-12       24 oz. 12"       1%"       2.10         JATAT3 500-12       3 oz. 10"       1%"       2.10         JATAT3 500-12       24 oz. 12"       1%"       5.00         CHANNEL LOCK PLIERS       Im terlocking principle positively interlocking action. Made of highest grade steel with polished heads and a special spring to hold jaws open.       TICA "KUTMASTER"         The first choice of mechanics for years. Interlocking principle positively interlocking action. Made of highest grade steel with polished heads and handles. 440-6 and 460-6 supplied with plastic cushion grips.       Six No. Mig. No. Capacity V.       Description Each back sing option 13.22       Six No. Mig. No. Capacity V.       Six No. Mig. No. Capacity V.       Description Each back sing option 13.22       Six Six No. Mig. No. Capacity V.       Descriptio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>37A729</b> D321-41/ <sub>2</sub> C (1) 3 oz. As Above w/Coil Spring <b>2.80 2.33</b><br><b>37A868</b> D224-41/ <sub>2</sub> C (2) 3 oz. 41/ <sub>2</sub> " End Cutters w/Coil Spring <b>3.60 2.99</b>                  |                                                                                                                                                                                                                          |
| Chrome ploted drop forged olloy steel combines<br>moximum strength, lighter weight with losting<br>beouty. Identical to Crescent.<br>Site, No. Mfg. No. Wt. Size Cap. Each<br>37A735 500-6 $3 \circ 2.$ 6" $4_{2}^{\circ}$ 2.80<br>37A745 500-6 $3 \circ 2.$ 6" $4_{2}^{\circ}$ 2.80<br>37A745 500-10 13 $\circ 2.$ 10" 11% 4" 4.00<br>37A745 500-12 24 $\circ 2.$ 12" 1 $\frac{1}{16}$ 5.75<br>CHANNEL LOCK PLIERS<br>The first choice of mechanics for years. Interlocking principle positively<br>interlocking action. Made of highest grade steel with plastic cushion grips.<br>Stk. No. Mfg. No. 2 $\frac{1}{2}$ $\frac{1}{16}$ $\frac{1}{2}$ $\frac{1}{2}$ Pump Plier<br>37A735 420 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ Pump Plier<br>37A735 4400-C 44/4" 3 tb. 10" Cripmaster Plier 4.80<br>37A737 460-C 44/4" 3 tb. 10" Cripmaster Plier 4.80<br>The first choice of mechanics for years. Interlocking principle positively<br>interlocking action. Made of highest grade steel with plastic cushion grips.<br>Stk. No. Mfg. No. 2 $\frac{1}{2}$                                                                                                                                                                                                                                                                                                                                                                            | 37A732 D257-4C 3 3 oz. As Above w/Coil Spring 3.17 2.63                                                                                                                                                                   |                                                                                                                                                                                                                          |
| moximum strength, lighter weight with losing<br>beauty. Identical to Crescent.<br>Sik, No. Mfg. No. Wt. Size Cap. Each<br>37A739 500-6 $3 \circ z$ . $6''$ $3'_{2}''$ 2.80<br>37A740 500-8 $6 \circ z$ . $6''$ $3'_{2}'''$ 2.80<br>37A741 500-10 13 $\circ z$ . $10''$ $11'_{6}''''$ 3.10<br>37A742 500-12 24 $\circ z$ . $12'''$ $1_{6}'''''$ 5.76<br>CHROME PLATED<br>CHANNEL LOCK PLIERS<br>CHANNEL LOCK PLIERS<br>The first choice of mechanics for years. Interlocking principle positively<br>interlocking action. Made of highest grade steel with polished heads and<br>handles. Yt. No. Mfg. No. Fig. Wt.<br>The first choice of mechanics for years. Interlocking principle positively<br>interlocking action. Made of highest grade steel with polished heads and<br>handles. Yt. No. Mfg. No. Fig. Wt.<br>The first choice of mechanics for years. Interlocking principle positively<br>interlocking action. Made of highest grade steel with polished heads and<br>handles. Yt. No. Mfg. No. Fig. Wt.<br>The first choice of mechanics for years. Interlocking principle positively<br>interlocking action. Made of highest grade steel with polished heads and<br>handles. Yt. No. Mfg. No. Capacity<br>Wt.<br>0 37A733 426 $\frac{16''}{12''}$ 12 $oz$ . $6''_{2}$ Pump Plier<br>5.00 $\frac{12}{2}$ Pump Plier<br>3.00 $\frac{12}{2}$ Pump Plier<br>3.00 $\frac{12}{3}$ Crymaster Plier<br>3.00 $\frac{12}{3}$ A60-C $\frac{14}{4'''}$ 3 ib. 16" Crymaster Plier<br>4.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Chrome ploted drop forged olloy steel combines                                                                                                                                                                            |                                                                                                                                                                                                                          |
| $\begin{array}{c} 37A738 500-4 3V_2 & 0z & 4'' & 12'' & 12'' & 12'' & 22'' & 22'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23'' & 23''' & 23''' & 23''' & 23''' & 23'''' & 23''''' & 23''''''''''$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | beouty. Identical to Crescent.                                                                                                                                                                                            | Nade of higherst grade steel. All have polished heads and are supplied with                                                                                                                                              |
| $\begin{array}{c} 37A141 \\ 500 \cdot 10 \\ 37A742 \\ 500 \cdot 12 \\ 24 \\ oz. \\ 12" \\ 1.8" \\ 5.76 \\ \hline \\ CHROME PLATED \\\hline \\ CHROME PLATED \\\hline \\ CHANNEL LOCK PLIERS \\\hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ CHANNEL LOCK PLIERS \\\hline \\ \hline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 37A738 500-4 31/2 oz. 4" 1/2" \$2.72                                                                                                                                                                                      | comfortable cushion grip handles. TCannot be assorted for quality files.<br>Stk. No. Mfg. No. Fig. Wt. Description Each f6 Ea.                                                                                           |
| CHANNEL LOCK PLIERS $37A816$ $37015$ $6$ $402$ . $5$ $37A817$ $37017$ $6107$ $802$ . $7"$ $37A817$ $36107$ $802$ . $7"$ $37A772$ $20160^{\circ}$ $51/402$ . $7"$ $37A772$ $20160^{\circ}$ $51/402$ . $7"$ $7A772$ $70160^{\circ}$ $50/402$ . $7"$ $7A772$ $70160^{\circ}$ $7000^{\circ}$ $51/402$ . $77772$ $70160^{\circ}$ $7000^{\circ}$ $7'$ $7A772$ $70160^{\circ}$ $7'$ $7''$ $7A772$ $70160^{\circ}$ $7''$ $7'''$ $7A772$ $70160^{\circ}$ $7''''$ $7''''''''''''''''''''''''''''''''''''$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>37∆741</b> 500-10 13 oz. 10″ 1/8″ <b>4.00</b>                                                                                                                                                                          | 37A814 36616 2 5 02. 6" Long Chain Nose 3.23 2.70<br>37A815 36415 2 4 02. 5" Chain Nose with Cutters 3.00 2.70<br>37A773 20140* 2 4 02. 6" Long Nose 3.51 3.16                                                           |
| The first choice of mechanics for years. Interlocking principle positively prevents slipping under any load the heavier the job, the greater the interlocking action. Made of highest grade steel with polished heads and handles. 440-C and 460-C supplied with plastic cushion grips.<br><u>Stk. No. Mtg. No. Capacity Wt.</u> <u>Description Each</u><br>0 37A733 420 1/2" 12 oz. 91 2" Pump Plier 3.04<br>0 37A736 440-C 21/4" 114 lb. 12" Gripmaster Plier 3.68<br>0 37A737 460-C 41/4" 3 lb. 16" Gripmaster Plier 4.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CHANNEL LOCK PLIERS                                                                                                                                                                                                       | <b>37A816</b> 37015 (a) 4 oz. 5° Needle Point Olagonal <b>3.32</b> 2.81<br><b>37A817</b> 36107 (f) 8 oz. 7" Hvyduty Diag. Cutters <b>3.12</b> 2.81<br><b>37A819</b> 36216 (f) 5 oz. 6" Long Needle Nose <b>2.78</b> 2.51 |
| The first choice of mechanics for years. Interlocking principle positively prevents slipping under any load the heavier the job, the greater the interlocking action. Made of highest grade steel with polished heads and handles, 440-C supplied with plastic custon grips.<br>Stk. No. Mfg. No. Capacity Wt. Description Each 137A73 426 1/2" L2 02. 91," Pump Plier 3.04<br>37A735 430 7g" to 2" 14 ob. 12" Cripmaster Plier 3.04<br>37A736 440-C 2/4" 14 ob. 12" Cripmaster Plier 4.80 The first choice of mechanics for years. Interlocking principle positively the greater the interlocking action. Made of highest grade steel with polished heads and handles with insulation custer and wire scraper. Screwdriver blade with insulation custer and wire scraper. Screwdriver blade locks in open position. 334" blade locks in open position. 34% black plastic handle with shackle ring. Made to government specs. Shpg. wt. 37A867. \$1.99 12 Lots, \$1.89 Each\$1.99 12 Lots, \$1.89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                           | 37A772 20160* (§ 51/4 oz. 7" Extra Fine Long Nose 3.20 2.88<br>*Has coil spring to hold jaws open.                                                                                                                       |
| prevents slipping under any load the heavier the job, the greater the interlocking action. Made of highest grade steel with polished heads and handles. 440-G supplied with plastic custon grips.<br>Stk. No. Mfr. No. Capacity Wt. Description Each blade locks in open position. 33/" blade locks in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                           | Standard 23/" knife blade and a spen                                                                                                                                                                                     |
| Stk. No.Mfg. No.CapacityWt.DescriptionEach(1) 37A733 $426$ $76''$ $5 \text{ oz.}$ $61_2''$ Pump Plier $52.32$ (2) 37A734 $420$ $172''$ $12 \text{ oz.}$ $91_2''$ Pump Plier $3.04$ (3) 37A735 $430$ $76''$ to $2''$ $14 \text{ oz.}$ $91_2''$ Pump Plier $3.04$ (3) 37A736 $440-C$ $21_4''$ $14 \text{ oz.}$ $12''$ Gripmaster Plier $3.68$ $3.68$ (3) 37A737 $460-C$ $41/4''$ $3$ Ib. $16''$ Gripmaster Plier $3.68$ $4.80$ (3) 37A737 $460-C$ $41/4''$ $3$ Ib. $16''$ Gripmaster Plier $3.68$ $4.80$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | prevents slipping under any load the heavier the job, the greater the interlocking action. Made of highest grade steel with polished heads and                                                                            | cial screwdriver blade with insulation<br>cutter and wire scraper. Screwdriver<br>blade locks in open position. 3¾"                                                                                                      |
| 1) 37A735       430       7'8" to 2"       14 oz.       10" Big Champ Plier       3.20       7 oz.       37A736         (a) 37A736       440-C       21/4"       11 4 lb.       12" Gripmaster Plier       3.68       37A867.       \$1.99       12 Lots,       \$1.89         (a) 37A737       460-C       41/4"       3       lb.       16" Gripmaster Plier       3.68       4.80       Each       \$1.89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>Stk. No. Mfg. No. Capacity</u> <u>Wt. Description</u> <u>Each</u><br><u>(1)</u> 37A733 426 <u>7</u> 8" 5 oz. 612" Pump Plier <b>\$2.32</b>                                                                             | polished bolsters, and brass linings.                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (i) 37A735 430 <sup>7</sup> / <sub>8</sub> " to 2" 14 oz. 10" Big Champ Plier 3.20<br>(i) 37A736 440-G 2 <sup>1</sup> / <sub>4</sub> " 1 <sup>1</sup> / <sub>4</sub> lb. 12" Gripmaster Plier 3.68                        | 7 oz.                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (1) 37A737 460-G 41/4" 3 lb. 16" Gripmaster Plier 4.80                                                                                                                                                                    |                                                                                                                                                                                                                          |

# **VERSATILE HAND TOOLS**

## POPULAR WIRE STRIPPERS



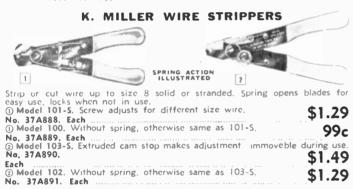
#### **() UTICA "STRIPWRIGHT" WIRE STRIPPER**

Slim nose design ... reaches into the most closely confined areas, Just insert wire in end jaws and squeeze handle—strips fast and clean. Calibrated cam action dial adjusts to strip from #12 to #26 wire gauge size. Handles Teflon as well as other insulations. Gripping jaws hold wires firmly, keeps insulation marking at an absolute minimum Comfortable cushion-grip handles. \$16 50 \$16.50 No. 37A827. Shpg. wt. 1 lb. Each

#### ③ G.C. SPEEDEX AUTOMATIC WIRE STRIPPERS

SPEEDEX WIRE STRIPPER KIT. Deluxe type wire stripper and 7 different size blades in a special steel box. Strips solid or stranded wire #8 to #30, 18 POSJ, and 300 ohm twin lead. Shpg. wt. 21/4 lbs. \$13.16 No. 37A830. Type 766K Complete.....

③ G.C. STRIP-ER-CLIP Precision tool for stripping and clipping wires 12 to 26 gauge. 8-stop gauge adjusts instantly to prevent accidental nicking or cutting. Wt. 10 oz. \$1.49 adjusts instantly to prevent accidental r No. 37A 709, Type 760. Each....



GC C-RING TOOL

Special tool removes and inserts "C" washers and retaining rings on volume controls, turn-tables, recorders, switches, radio and TV sets, etc. Made of high grade steel, nickle plated. Type 8872, Wt. 2 oz. \$1.88



3 - CO Highest quality precision tools for repair and adjustment of all foreign and domestic relays. SPRING ADJUSTER 023" slot each . .. .

| • SPRING ADJUSTER023" slot each end. Made of corbon steel, plastic                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------|
| handle.                                                                                                                                |
| handle.<br>Na. 37A3205 Type SA-17. Overall length 8''. Each                                                                            |
| ③ SPRING ADJUSTER031" slot each end. Made of carbon steel, plastic                                                                     |
| handles.                                                                                                                               |
| handles.<br>No. 37A3206 Type SA-16. Overall length 8". Each                                                                            |
| (3) STOP BENDER for adjusting armature back stops. Carbon steel nickel                                                                 |
| chrome plated. Slots .033" wide.                                                                                                       |
| chrome plated. Slots .033" wide.<br>No. 37A3207 Type SB-22. Overall length 5". Each                                                    |
| POCKET CLEANER-BURNISHER, Hard tempered blade cleans any type<br>contact—leaves no grit or dust. Plastic cap with pocket clip. With 12 |
|                                                                                                                                        |
| blades.<br>No. 37A3010 Type P-4, Overall length 5½". Net Each                                                                          |
| Na. 37A3011 Type RB-4. Pkg. of 25 Replacement Blades                                                                                   |
| BURRING REAMERS                                                                                                                        |

| High grade chrome vanadium burring reamers rapidly remove burrs from  |
|-----------------------------------------------------------------------|
| chassis cutouts, antenna mast cutoffs,                                |
| etc. Also handy for enlarging holes.                                  |
| (i) <b>T-Handle Type</b> . Tapers $\frac{1}{8}$ " to $\frac{1}{2}$ ". |
| No. 37A821. \$2.25                                                    |
| Each 44.4                                                             |
| (2) Bit-Shank Type. Tapers 1/4" to 1 1/4".                            |
| No. 37A822. \$2.95                                                    |
| Each                                                                  |

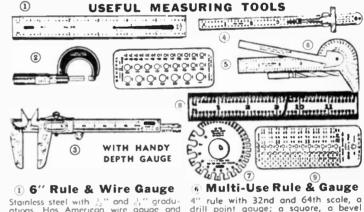


① VISE GRIP WIRE CUTTERS. Tong-grip remains locked to work with hands removed. Adjusts to super-plier action, has powerful wire cutter. Model 5WR-5". (1)" thick jaws adjust to 114". Wt. 5 oz. T1 00

| No, 37A757. Net Each                                                                 | \$1.77   |
|--------------------------------------------------------------------------------------|----------|
| Model 7WR-7" 14" thick jaws adjust to 15%". Wt. 10 oz.<br>No. 37A758. Net Each       | \$2.24   |
| Model 10WR-10" 3'8" thick jaws adjust to 17'8". Wt. 1½ lbs.<br>No. 37A759. Net Each. | \$2.60   |
| $\textcircled{\begin{tabular}{lllllllllllllllllllllllllllllllllll$                   | at depth |
| Wt 18 oz<br>No. 37A760. Type 8R Net Each                                             | \$3.16   |

C C.CLAMP. "Ice-Tong" jaws reach around any shape object. Adjust 0 to 334". Overall length 11". Wt. 28 oz. 334". Overall length 11". Wt. 28 o No. 37A761. Type 11R. Net Each. \$3.16

VISE-GRIP CHAIN CLAMP & PIPE WRENCH. Adjusts to any size work up to 19 inches in perimeter. Has tremendous gripping power holds and locks around anything, any size, any shape, anywhere that the 19" chain can be wrapped around. Shap. wt. 2 lbs. No. 37A762, Model 20R. Each
 S4.76



Stainless steel with  $\frac{1}{12}$  and  $\frac{1}{64}$  graduations. Has American wire gauge and decimal equivalents. Shpg. wt. 2 oz. . 37A3236. 65c NET EACH

2) Precision Micrometer Measures 0" to 1", Guaranteed correct to .0005". Screw type anvil makes zero adjustment easy. Die cast special alloy frame. Shpg. wt. 11 oz. **44**.49 frame. Shpg. wt. 11 o No. 37A3237Each \$4.49

(3) Vernier Caliper Graduations deeply etched of "," and ",". Inside jaws offset and may be used for scribing circles or dividers. 5" capacity. Shog. wt. 8 az. **C100** No. 37A3238 Your Cost, Eo. \$1.99 Pocket Rule & Depth Ga. Tempered steel 6" rule with pocket clip. Quick reading 64th graduation. No. 37A3239 Shpg. wt. 2 oz. 25c

# (a) Jobbers Drill Gauge Gauges drills 1/1 " to 1/2". Gives decimal equivalent. Heavy gauge. Shpg. wt. 5

07 No. 37A3240 Each

## VACO 10 FOOT STEEL TAPE

Chrome case. White coated blade with two colar printing. Graduated in sixteenths except first faot is in 32nds Wt. 5 az. \$1.80 No. 37A887. VACO 70120, Each.

½" Roman face characters for marking chassis, parts, etc. Simply hammer to produce clear sharp impressions. Shpg. wt. 2 lbs. Letter Set—Consists of 28 characters. (A to Z. "G" and "Period"). N= 378246 (A to 2, 6 and 1 No. 37A846. Per Set..... \$5.79 Figure Set—Consists of 9 characters. (0 to 8 with "6" being used also as "9").

4" rule with 32nd and 64th scale, a drill point gauge; a square, a bevel protractor, a circle divider, center finder, and tap drill table. Stainless steel with leather-case. \$1.99

#### No. 37A3241 Net Each **⑦ Handy Wire Gauge**

American Standard. Gauges wire and non-ferrous metals sizes 0 to 36 with decimal equivalent of each on re-verse side. Tap quality tempered steel. No. 37 A3242 Shpg. wt. 7 oz. \$5.49 Each

#### (8) 12" Steel Rule

Stainless steel rule. 7/6" wide grad-uated in 8ths, 16ths, 32nds and 64ths one side. 32nds, 64ths, 16ths an the other, Shpg. wt. 5 oz. \$1.19 No. 37A3243 Eoch.

#### (9) Drill & Tap Gauge

Made of heavy gauge tempered steel. Gauges and gives decimal equivalent of numbered drills, sizes 1 to 60. Also handy drill index for machine screw taps. Shpg, wt. 5 oz. 60. \$1.99 \$1.99 No. 37A3244 Eoch



No. 37A847. Per Set..... \$2.29 Burstein-Applebee Co., 3199 Mercier, Kansas City, Missouri 64111

# **TOOL SPECIALTIES**



Burstein-Applebee Co., 3199 Mercier St., Kansas City, Mo. 64111

# STORAGE CABINETS FOR EVERY NEED



#### (1) WELDED STEEL FRAME CABINETS

Provides visible, organized storage of small parts. Movable dividers and index labels included for complete flexibility of drawer space. Can be stacked or hung on wall. Silver grey finish. CABINET SIZE 10" W. x 9%" H. x 6" DEEP No. 37A8008. Model 11-118, 18 Drawers size 5¾ x 2¾ x 1¼". No. 37A8037. Model 11-262, 12 Deep Drawers size 5¾ x 2¾ x 2¼ x 2″. Wt, 6 lbs. Chaine Each \$4.49 CABINET SIZE 13½" W. x 9½" H. x 6" DEEP No. 37A8014. Model 11-124. 24 Drawers size 53/4 x 23/4 x 1¼". No. 37A9571. Model 11-266. 16 Deep Drawers size 53/4 x 23/4 x 2' Wt. 7 lbs. \$5.99

Choice Each

#### **? PORTABLE CABINET**

#### DELUXE STORAGE CABINETS

Space conserving metal parts cabinet for workshop, home, store, etc. Sturdy, clear plastic molded drawers provide instant item selec-tion. Full width pull han-dles, rear stop tab prevents accidental spillage. Labels and drawer dividers in-cluded. \*All cabinets 17%" wide. Weight: 17-024 11 lbs., 17-136 13 lbs., all others 18 lbs. Quan-

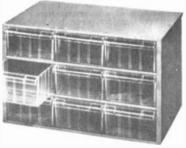
| Stk. No. Model                   | Quan<br>tity |                                            | *Cabinet Size                        | Each  |
|----------------------------------|--------------|--------------------------------------------|--------------------------------------|-------|
| 37A8009 17-130                   |              | 1,76" H.x234" W.x578" L.                   | 6" D. x 111/8" H.                    |       |
| 37A8042 17-024                   | 24           | 2" H. x 2¾" W. x 5¾" L.                    | 6" D. x 101/4" H.                    | 13.49 |
| 37A8043 17-320                   |              | 2" H. x 3" W. x 11" L.                     | 11" D. × 10¼" H.                     | 19.99 |
| 37A8012 17-410                   |              | 2" H. x 4" W. x 11" L.                     | 11" D. x 10¼" H.                     | 19.99 |
| 37A8044 17-715<br>37A8045 17-909 |              | - 3志"H.×3½"W.×11″L.<br>- 3志"H.×5¼″W.×11″L. | 11" D. x 10½" H.<br>11" D. x 10½" H. | 19.99 |

#### TOOL-MATE A Workshop at Your Fingertips!

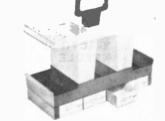
Keeps both hand tools and small parts \$3.97 Net Each

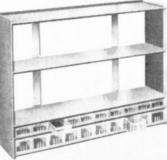
## A PERFECT SHOP ORGANIZER **BENCH MATE** COMPACT "SUPPLY ROOM" FOR HOME OR SHOP

Bench-mate holds most every home or shop repair and fix-up items or-ganized, orderly and within easy reach, 3 shelves (281/2") long x 7" deep). 20 dustfree drawers, durable baked-ena-mel finish. Stands on any flat surface or hangs on wall. Assembles in a few minutes with a screwdriver. Dimen-sions: (assembled) 221/2" H. x 30" L. x 7" W. Wt. 13 lbs. Mailable. No. 37A8049. Medel 12-420 Each \$8.99 Model 12-420, Each.



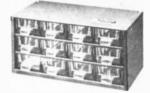
| Drawers Size                                       | *Cabinet Size      | Each    |
|----------------------------------------------------|--------------------|---------|
| <sub>5</sub> " H. x 234" W. x 57 <sub>6</sub> " L. | 6" D. x 111/8" H.  | \$13.49 |
| H. x 234" W. x 5 <sup>3</sup> 4" L.                | 6" D. x 101/4" H.  | 13.49   |
| H. x 3" W. x 11" L.                                | 11" D. x 101/4" H. | 19.99   |
| H. x 4" W. x 11" L.                                | 11" D. x 101/4" H. | 19.99   |
| " H. x 37 <sub>6</sub> " W. x 11" L.               | 11" D. x 101/2" H. | 19.99   |
| " H. x 5 <sup>1</sup> / <sub>4</sub> " W. x 11" L. | 11" D. x 101/2" H. | 19.99   |





#### STACKMASTER CABINETS

Provides easy, visible, systematic stor-age. Heavy 24 gauge frames with rubber feet. Two coat charcoal gray finish. Fully painted inside. No sharp edges. Clear-vu plastic drawers with-stand shock, resistant to acid, oil and grease. Full shelf supports and guides. Drawer size  $5\%_6 \times 2\frac{1}{2} \times 1\frac{3}{4}$ ". Stack in any combination. Holes in back for hanging.



\$2.99 \$5.99

hanging. 12 Drawer Cabinet. Size  $51/4 \ge 12 \ge 53/4$ ". Shpg. wt. 4 lbs. No. 37A9569. Union Steel U-12. Each 24 Drawer Cabinet. Size  $11/6 \ge 12/8$ . No. 37A9570. Union Steel U-24. Each

#### PROFESSIONAL OUALITY TOOL BOXES

## TWO DRAWER **TOOL CHEST** \$1495

Lightweight for carrying to a job. Drawers extend fully for easy access to contents. Spillproof safety stops on drawers. Drawer bottoms embossed to take heaviest loads. Heavy gauge cold rolled steel. Electronically welded seams. Full weather protection. Nickel-plated hardware, drawbolt can be pad-locked. Full length welded hinge. Drawers automatically lock when cov-er is closed. Charcoal enamel, red drawers. drawers



/ers. Overall: 201/2" long, 83/4" wide, 101/4" high; Till, 201/2" L. x 83/4" W. β" deep, exclusive of cover; 2 drawers, each 183/4" L. x 77/8" W. x 21/2" hpg. wt. 16 lbs. Size x 31/8 \$14.95 Shog No. 37A9568. Union Steel MT-2. Each

#### TOOL BOX WITH REMOVABLE TRAY

Finest quality steel with two bolt catches; built-in padlock eye; rust-proof handle. Full lock-seamed con-struction, rounded reinforced corners. Continuous welded hinge with lid opening entirely back. Charcoal grey with red tray. Handy Tote Tray. 21/2 x81/2x11/2". Overall size 22x9x8". Wt. 12 lbs. Union Steel 6122. No. 37A8011. Each

#### UTILITY BOX

Handy for carrying tools on the job. Automatic retracting tray. Seamless waterproof construction with rounded corners, embossed reinforcement on both cover and bottom. Hard ba enamel finish. Size 141/2" L, 71/4" 6" H. Shpg. wt. 4 lbs. Union Steel 5314. baked W \$3.19

#### No. 37A231. Each HANDY STORAGE

#### CONTAINERS

Keeps small items neatly arranged, always ready for instant use — no more lost or misplaced items.

#### $\bigcirc$ **(1) AKRO-MILS CLEAR POLYSTYRENE BOXES**

1001 uses: Electronic parts, screws and nuts, nails, fish hooks and lures, office supplies, coins, stamps, jewelry, buttons, thread, any small parts. Strong, rigid and scratch-resistant . . . retain high polish. Last 2 digits of Mfg. No. Indicates total number of compartments All have binged lids. Ave, shoge, wt. 1 lb.

| Stk. No.                                            | Mfg. No.                                       | Size of Compartments                                                                          | Overall Size                                                                          | Each                               | 12 Ea.                      |
|-----------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------|-----------------------------|
| 37A8017<br>37A8018<br>37A8019<br>37A8021<br>37A8022 | 05-201<br>05-301<br>05-401<br>05-204<br>05-406 | 434x256x1"<br>676x336x146"<br>8%,x446x14"<br>423%,x1%,x11"<br>6-446x1%,x11"                   | 43/4x25/8x1"<br>67/8x33/8x11/8"<br>83/2x41/8x11/4"<br>43/4x25/8x1"<br>83/2x41/8x11/4" | \$0.28<br>.53<br>.63<br>.28<br>.63 | \$0.22<br>.42<br>.50<br>.22 |
| 37A8025<br>37A8027<br>37A8029                       | 05-412<br>05-512<br>05-518                     | 6.1%2x1%x11/4" 4.1%x2x11/4"<br>2.1%x41/9x11/4"<br>6.11%x11%x2" 6.11%x31%x2"<br>18.11%xx11%x2" | 8%2x41/8x11/4″<br>10%6x51%6x2″<br>10%6x51%6x2″                                        | .63<br>1.58<br>1.58                | .50<br>1.20<br>1.20         |

## CLEAR POLY JARS WITH LINED METAL LIDS

Made of extra thick heavy gauge shatterproof polystyrene affording years of re-useable service. Each jar comes with a lined screw-on black metal lid. These jars are ideal for storage of miscellaneous hardware and parts. They may even be used for storing various types powdered chemicals.

| may even be                   | e used for storing                      | vullous types            | pomacroo          |                        |                        |
|-------------------------------|-----------------------------------------|--------------------------|-------------------|------------------------|------------------------|
| Stk. No.                      | Size                                    | Wt.                      | Each              | 10 For                 | 50 For                 |
| 37A8032<br>37A8033<br>37A8034 | 2.5 Oz. Jar<br>4.6 Oz. Jar<br>8 Oz. Jar | 1 oz.<br>1½ oz.<br>2 oz. | 15c<br>18c<br>25c | \$0.99<br>1.38<br>1.83 | \$4.45<br>6.12<br>8.15 |

#### **(2) HANDY GLASS JARS WITH SCREW-ON LIDS** 1749030 21/6" dia. x 13/4" H. 37A8031. 4-ox. 2" dia. x 4" H. ......\$1.79 \$5.40 oz.....

| - 1 | JIMOUJU.          |      |     |     |       |      |        |       |        |
|-----|-------------------|------|-----|-----|-------|------|--------|-------|--------|
| - 1 | Each<br>Carton of | .17c | Per | Doz | ş     | 1.69 | Each   | 18c   | Per Do |
| 1   | Carton or         | 48   | *   |     | ····· | 1.77 | Carron | UF 70 |        |

Depend On B-A For Fast Service

(2)

# VERSATILE WORK SAVING TOOLS



# HIGH QUALITY, LOW COST TOOLS

 $\begin{array}{cccc} \text{Drum} & \text{Rasp.} & \text{Hardened} \\ \text{and} & \text{tempered} & \text{steel.} \\ \text{Won't} & \text{clog}, & \text{remains} \\ \text{sharp.} & \frac{1}{4''} & \text{shaft,} & \frac{3}{4''} \\ \text{dia.} & x 1^{1} 5'' & \text{long.} \\ \textbf{37A9547} & \text{Each} & \textbf{99C} \end{array}$ 

8" Slip Joint Combina-tion Pliers. Hot drop forged, heavily chrome plated, mirror polished. Quality import. 37A850. Each .... 99C

"C" Clamp Set. Contains

one  $2\frac{1}{2}$ " and two 1" clamps. High quality malleable steel. Import.

8 Inch Adjustable Wrench. Fully drop forged. Chrome plated. Finest quality import.

6 Pc. Screwdriver Set. 3 slotted, stubby slotted and 2 Phillips. Vinyl grip. Made in U.S.A.

Finest quality 37A3334.

Each

grip. № 37A897.

Per Set

99c

\$1.99

\$1.19

37A3328.

Set





Miniature Screwdriver Kit. 6 sizes from 1/32" blade. to 3/16" Swivel tops. Wt. 8 ozs. Finest import. 37Å848. Each .99c



6" Long Nose Pliers. With side cutters. Pol-ished head, milled jaws. Import. Shpg. wt. 5 ozs 37A838. 99c Each



Glasses. Fine quality lenses. Black plastic handles. 2 sizes. Import. 37A3332. 99c Set



Electrician Knife. Wire stripper and jack-knife blades. Safety catch. High carbon steel blades. Import. **QQC** 99c 37A3338. Each



1/4" Wheel Arbor. 1/2" threaded shaft holds buffing wheels, wire brushes, grinding wheels. 39c Wt. 6 ozs. 37A9528. Each



Lawnmower Sharpener. Fits any ¼" drill, Will sharpen any rotary lawn-mower blade, Wt. 8 ozs. Lawnmower 37A9014. 99c Each



Tubing Cutter. For cut-ting copper, brass, alu-minum tubing up to 1" dia. Quality import. Wt. 37A5550. Each ..... 99C



Wire Bending Jig. Forms wire sizes to 1/4" dia. Instructions and project diagrams included. Wt. <sup>1/2</sup> lb. 37A5540. Each ..... 99C



5" Diagonal Cutters. Tempered and hardened. Polished and ground heads. Import. Wt. 7 ozs. 37A839. QQC 99c Each



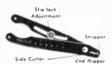
Disc-Rasp. Fits electric drill. 5" bottom sur-face. Never clogs or needs sharpening. Wt. 6 ozs. 37A9524. Each \$1.19



Revolving Hole Punch. Tempered steel, Six punching sizes. Quality moort 37A3330 \$1.19 Each



4 Inch Wire Wheels. 4/2" center hole. 37A9532—Coarse. 37A9533—Fine. Choice 99c Each



Adjustable Wire Stripper. For solid or stranded wire from #6 to small-est. Hardened ground steel blades. 99c 37A702. Each



Flaring Tool, Flares cop-per, brass and alumin-um tubing from % to s'a". Quality import. Wt. 1½ lbs. **\$1 89** ата IDS. 37А5551. Еа. \$1.89



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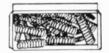
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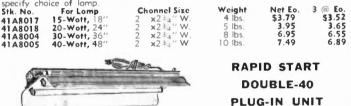
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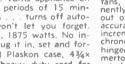
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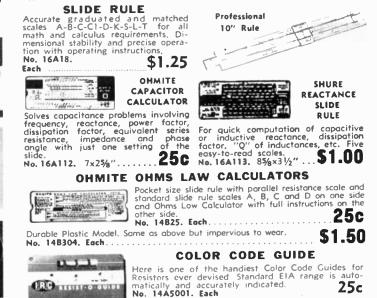
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| No. | 9A3163. | Model | 15645 | 5. Police | e, Fire  | and  | VHF  | Weat | her 1 | 50-164 | MHz.    |
|-----|---------|-------|-------|-----------|----------|------|------|------|-------|--------|---------|
|     |         |       |       |           |          |      |      |      |       |        |         |
| No. | 9A3164. | Model | 348S. | Police,   | Industri | al 3 | 3-48 | MHz. | Each. |        | \$44.95 |

# hallicrafters SHORTWAVE RECEIVERS



"STAR QUEST" ALL-TRANSISTOR 4 BAND RECEIVER

"STAR QUEST" ALL-IRANSISIOK 4 BAND RECLIVER Range .54 - 31 MHz For Worldwide Shortwave and Standard AM Broadcasts. For the shortwave enthusiast, hobbyist, student, Boy Scout, experimenter, language learners ... anyone who will enjoy the excitement and fun of "listening in on the world". Shortwave Band I covers weather, marine, amateur ... 2-5 MHz, Shortwave Band II afternoon and evening shortwave reception ... 4.8-11.5 MHz, Shortwave Band III all day shortwave monitoring ... 11-30 MHz. Has main tuning and electrical bandspread and large slide rule dial. High sensitivity superhet circuit, beat frequency oscillator for code and single sideband, automatic gain control, internal speaker, 1 watt push-pull audio, provision for external antenna. Light grey color cabinet has black, white and silver trim. Size 12 x 5½ x 5" deep. No. 9A435. For 115 V. AC. Wt, 8 lbs. Net Each.





R-50

#### **NEW SX-133 GENERAL COVERAGE RECEIVER**

Tunes 535 KHz to 31.5 MHz—Calibrated Bandspread Amateur 80, 40, 20, 15, 10 Meters, 11 Meters Citizens Band, 49, 31, 25, 19 Meter SW Bands — AM-SSB-CW

AM-SSB-CW. For the more advanced, serious shortwave listener and amateur operator. For the more advanced, serious shortwave listener and amateur operator. Precision made, hot-performing 7 tube receiver with crystal filter, S meter, bandspread tuning. General coverage slide rule tuning dial is calibrated in megacycles and has 0-100 logging scale. Bandspread dial at left includes amateur and CB coverage. Phasing control for crystal filter gives pin-point selectivity. Stable, modern circuit tunes and holds side band, CW, SSB and AM signals more easily. Has antenna trimmer, RF amplifier, 2-IF stages, automatic noise limiter, stable product detector for upper and lower side band reception, 2 watts audio output for external 3-4 ohm speaker. Front panel phone jack disables speaker. New styled, in professional steel cabinet, gray and silver trimmed. 18% x 93/4 x 8" high. For 115 V, 60 cy. AC. Wt. 25 lbs.

| No. | 9A450. | Less | Speaker |      |  | đ            | 740  | 50  |
|-----|--------|------|---------|------|--|--------------|------|-----|
|     | Each   |      |         | <br> |  | <br><b>P</b> | 249. | .20 |

50 Matching Speaker. High efficiency 4 x 6" PM type, \$22.50 No. 9A413, Wt. 4 lbs. Net Each No. 9A3155. HA19, 100KHz Plug-In Crystal Calibrator. Net Each \$10.05

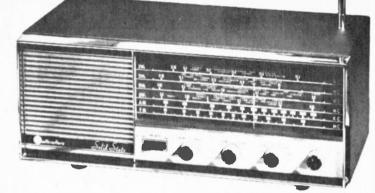




#### MODEL SX-122A **DUAL CONVERSION RECEIVER**

DUAL CONVERSION RECEIVER Continuous Coverage—,538-34 MHz Electrical Bandspread 80 thru 10 Meters. New "Top-of-the-Line" receiver for advanced AM broadcast, superb short-wave listening and professional applications including electronic laboratories, amateur operators and other serious hobbyists. In addition to regular 538 to 1580 KHz broadcast, the shortwave bands are 1720 KHz to 4.9 MHz, 4.6-13 MHz, 12-34 MHz, reatures temperature compensated stabilized HF oscillator circuits, 50 KHz highly selective IF system with 3 selectivity ranges 0.5, 2.5 and 5 KHz at 6 db down, series noise limiter and AVC, product detector for upper and lower SSB/CW, envelope detector for AM, antenna trimmer, 5 meter and dual conversion on all bands, Output, 3.2 ohms for external speaker. Profes-sional metal cabinet in black, grey, white and silver trim. 1834, x 8 x 934" deep, For 110/220 V. 50/60 Hz AC. Wt. 29 lbs. No. 9A436. Less speaker. Net Each. S395:00 No. 9A413. R-50 Matching Speaker. Net Each. S22.50

190



### ALL SOLID STATE MODEL S-214

#### INTERNATIONAL SHORTWAVE AND FM/AM BROADCAST RECEIVER

AN EXCITING SHORTWAVE SET ... A FINE **STANDARD BROADCAST RECEIVER, TOO!** 

TUNES IN EVERYTHINC ON THE AIR IN THESE SIX BANDS FM Broadcasts 88-108 MHZ, AM Broadcasts 550-1600 KHZ and the 49, 31, 25 and 19 Meter International Shortwave Broadcasts. Features exclusive dial spread on shortwave that allows tuning overseas broadcasts almost as easily as local AM stations. Fully transistorized for instant operation and long life. Has 11 transistors, 6 diodes . . for the kind of superior performance, sensitivity, selectivity, response and circuit features that have made Hallierafters an outstanding leader in shortwave receivers Circuit includes automatic gain control on AM, automatic frequency control on FM, variable tone control, tuner output jack for use with any high fide'ity system, push-pull 1 watt audio system, internal PM speaker and jack for headphone. Antennas: ferrite rod for AM, line cord for FM, whip for shortwave, provision for external connections. Cabinet is styled in walnut vinvl-covered metal with dic cast front and an attractive multi-color scale slide rule dial. Size 13%" W, 5%" H. 8" D. Wt. 10 lbs. For 115 V. 60 cy. AC. **\$889.95** \$89.95

No. 9A401, Net Each



SENSITIVE, STABLE AND REMARKABLY RICH SOUNDING

SENSITIVE, STABLE AND KEMAKKABLY KICH SOUNDING Every moment of every day and night, this receiver can entertain, instruct and inform . . . keep you in tune with world-wide happenings. Features com-plete receiver tuning range from 2-30 MHz plus standard AM and enter-tainment FM. FM sensitivity better than many large-size stereo consoles. Wide band IF and automatic frequency control make tuning easy and gives driffless control. Enables reception of International Shortwave Broadcasts, planes, ship-to-shore, amateurs, military, time signals and more! Has, in addition to all the features of the S-214 above, the expanded 2-30 MHz tuning range, a signal strength meter, fine tuning control, and a beat frequency oscillator for code and single sideband reception. It transistors, 6 diodes provide instant, long life operation, For 115 V. 60 cy. AC. Size  $137/6^{"}$ W, 57 g" H, 8" D. Wt, 1012 lbs. No 90402 Model S-240. Net Each \$119.95 No. 9A402. Model S-240. Net Each

#### DRAKE SW4-A SW BROADCAST RECEIVER

#### FOR THE SHORTWAVE LISTENER

\$299<sup>00</sup> EASY TERMS

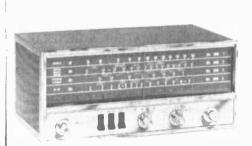
Crystal lattice filter. Dual conversion. Preselector



Features direct frequency dialing with calibration accuracy  $\pm 2$  KHz. Tunes longwave, standard broadcast and shortwave broadcast 49M, 41M, 31M, 25M, 19M, 16M, 13M, 11M, with exceptional sensitivity, selectivity, and sta-bility needed for finest shortwave listening. Has solid state VFO, crystal oscillator and AVC, solid state audio system, 2 watts output to 4 or 8 ohm speaker. 6 tubes plus 15 solid state devices. Size 512" H., 1034" W, 115%" D. For 120/240 VAC, 50'60 Mz. Wt. 16 lbs. **\$299.00** 

No. 9A415. Net Each No. 9A3119. MS-4 Matching Speaker. Wt. 6 Ibs. Net Each

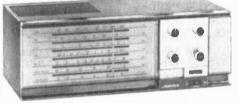




#### SHORTWAVE +AM IN 4 BANDS

#### MODEL 11-500 FEATURES:

MODEL 11-300 FEATURES: Monitors standard AM plus three popular short-wave bands, 2-5 MHz, 4.8-11.5 MHz, 11-30 MHz. Illuminated slide-rule dial with main tuning and electrical fine tuning, BFO switch for listening to code or zeroing in on distant stations, Large front mounted speaker, push pull audio system, auto-matic volume control. Connections on rear for external speaker or headphone and for external antenna. 9 transistors, 4 diodes, 3 IF's. In black and sparkling chrome metal cabinet with silver color trim. 12 x 53% x 43%". Shge. Wt. 5 lbs. No. 9A451 color trim. No. 9A451 \$44.95 For 117 V. Ac. Each ......



**IDLAND** HOME SHORTWAVE RECEIVERS

NEW SOLID STATE HIGH PERFORMANCE SETS FOR THE CRITICAL LISTENER

#### SHORTWAVE **\$QQ**95 + POLICE + FM + AM IN 7 BANDS

#### MODEL 11-530 FEATURES:

Extremely wide band coverage — all the standard AM and FM stations, marine 1.6-4 MHz; short-wave 4-12 MHz, low police band 30-45 MHz, air 108-135 MHz, and high police band 144-174 MHZ

Has slide rule dial tuning, large tuning meter, fine tuning control. 5" speaker, 15 transistors, 9 If's, rF stage on FM, Police and Air. Black with silver-color and black chrome trim, 13 x 5 x 8". Shpg. Wt, 13 Ibs. No. 9A452. \$89.95 For 117 V. AC. Each



#### SHORTWAVE + FM + AMIN 5 BANDS

#### MODEL 11-520 FEATURES:

MODEL 11-520 FEATURES: Keeps you abreast of today's happenings! A fine addition for any home entertainment center. Tunes standard AM-FM broadcasts and three shortwave bands 2-5 MHz, 4.8-11.5 MHz, 11-30 MHz. Has large back-lighted smoked glass slide-rule dial, main and fine tuning, tuning meter, BFO for code reception. AFC for drift free FM, output jack for use on tuner through your music system. Also has its own audio system and speaker, 11 transistors. Black with die cast chrome front, avocado grille cloth, 14" x 51/4" x 61/8". Shpg. wt. 15 lbs. No. 9A453. S89.95 \$89.95 For 117 V. AC. Net Each.



\$3.95

Extra Class Supplement, Net Each.

## AMATEUR STATION EQUIPMENT



\$39.95

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Price \$0.90

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.90 1.14 1.44 1.56 1.14 1.20 1.50 1.62

No. FC-15A for total of 15 amp current to one or two tubes. Size  $2 \times 2\frac{1}{2} \times 5^{\circ}$ . Wt. 2 lbs. No. 9A3026. Net Each.......\$21.70

No. FC-30A improved model for one or two tubes requiring total of 30 amps filament current. Size 2x21/2x5". Wt.

lbs

No. 9A3027, Net Each ...

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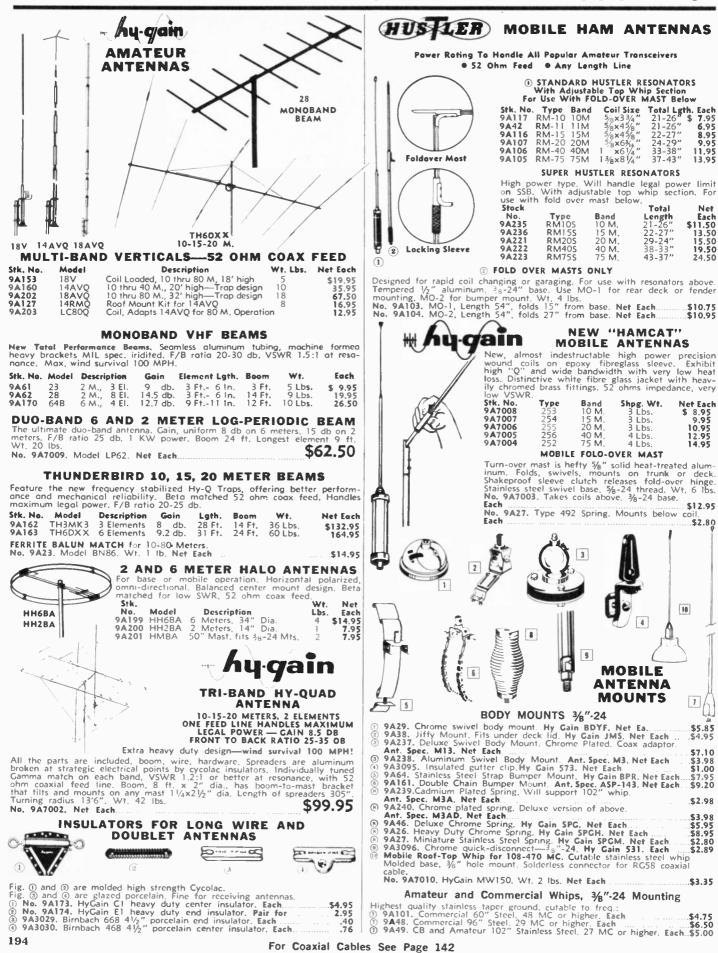
No. 9A444. HA20. Dual Receiver VFO Console, Wt. 11 lbs. Net Each. \$199.95

\$895.00

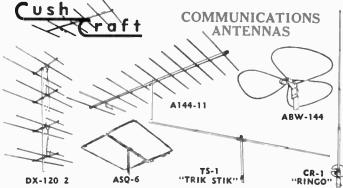
## AMATEUR RADIO EQUIPMENT



## **AMATEUR ANTENNAS AND ACCESSORIES**



# **AMATEUR AND CITIZENS BAND ANTENNAS**



#### DX-120 2 METER AMATEUR 20 ELEMENT ARRAY

Combines best yagi and colinear features for 14.2 db forward gain, 20 db F/B ratio, low radiation angle, optimum front lobe, broadband coverage, greater capture area and direct 52 ohm feed. Size installed 118" H., 75" W., 30" D. Wt. 8 lbs. \$29.50 No. 9A7011. Model DX-120. Net Each.

A144-11 2 METER 11 ELEMENT YAGI BEAM The standard of comparison in VHF beams! Gives 13 db forward gain. Has 52 ohm coax feed. Boom 12 ft. Wt. 5 lbs. No. 9A7012. Model A144-11. Net Each.

ABW-144 2 METER "BIG WHEEL"-360° GAIN

| Horizontally polarized, | omnidirectional | gain antenna, | Bandwidth | 4 MHz          | . 52 |
|-------------------------|-----------------|---------------|-----------|----------------|------|
| ohm feed, Wt, 2 lbs,    |                 |               |           | \$13.          | 0E   |
| No. 9A7013, Model Al    | BW-144. Net Ea  | ch            |           | .φι <b>σ</b> ι | 72   |
|                         |                 |               |           |                |      |

ASQ-6 6 METER "SQUALO"—MOBILE/BASE ANTENNA Half-wave, horizontally polarized, omni-directional. Broad band coverage. Has rubber suction cups for car top and mast mount boom. 30 inches square. Wt. 2 lbs. \$15.95

#### No. 9A7014. Model ASQ-6. Net Each..... CR-1 "RINGO" CITIZENS BAND BASE ANTENNA

CR-1 "RINGO" CITIZENS BAND BASE ANTENNA Highly acclaimed by users because of outstanding performance. Requires no radials, Full length capture area gives amazing 3.75 db gain, full circle, with low angle radiations. Power ring gives perfect 52 ohm feed line match. Height 17 ft. 10 in. Ring dia. 10". Wt. 2 lbs. No. 10A7035. Model CR-1. Net Each TS-1 "TRIK STIK" ALL-PURPOSE ANTENNA The answer to literally hundreds of antenna problems. Adjustable length ele-ments tune to CB, Hi-Lo Band Police, Aircraft, Business Radio, SWL, Amateur, TV or FM. Comes with dimension chart for each service. Use either 52 or 72 ohm feed line. Wt. 2 lbs. No. 10A7036. Model TS-1. Net Each S6.95

\$6.95 No. 10A7036. Model TS-1. Net Each.

**AUTO RADIO NOISE SUPPRESSORS** 



| ① Master Distributor Suppressor. Sure cure for most all ignition noises. For          |  |
|---------------------------------------------------------------------------------------|--|
| use separately, or in severe cases, with individual suppressors,                      |  |
| No. 38A8009. Net Each                                                                 |  |
| <ol> <li>High Efficiency Spark Plug Suppressor.</li> <li>No. 38A8010. 2 For</li></ol> |  |
| No. 38A8010. 2 For                                                                    |  |
| (3) Wheel Static Eliminators Button makes noise free contact                          |  |

No. 38A8011. One required for each front wheel. Net Each

#### AUTO RADIO IGNITION NOISE ELIMINATOR KITS

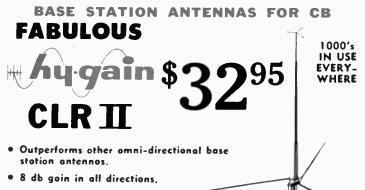
(a) Alternator Noise Filter. Cures interference in your CB or ham receiver or stereo player caused by the alternator. Encapsulated, long life design. Easy to install. Size  $2\frac{1}{2}x1\frac{1}{16}$ ". Shog. wt.  $\frac{1}{4}$  lb. No. 38A8000. Imported. Net Each \$2.50

. . ... 23c

SPRAGUE "HYPASS" FILTERS

TWO-TERMINAL SERIES FEED THRU-CASE GROUNDED Popular for quieting ignition, generator and regulator noises in mobile radio installations and for by-passing AC input to transmitting equipment. Type 80P3 has flanged bulkhead mtg., illustrated at far left; 48P18 has bracket mtg. Average wt. 2 oz.

| Stk. No.         | Type          | Mfd. | Amps.    | Voltage               | Dia. | Length | Each   |
|------------------|---------------|------|----------|-----------------------|------|--------|--------|
| 158988<br>158987 | 48P18<br>80P3 | .5   | 40<br>20 | 50 V. DC<br>600 V. DC | 1    | 113    | \$3.03 |

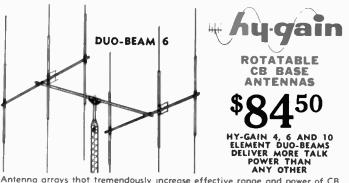


High strength oluminum

construction.

**CLR-11 COLINEAR.** Embodies every significant electrical and mechanical innovation. Maximum legal radiator height of 19 ft. 10 in. lowers the angle of radiation directing a maximum distance-reaching signal along the horizon. Radiator and 9 ft. radials are all high strength seamless aluminum. Has tough styron insulators and indited weatherproof double grip mast support. DC grounded for lower noise, from 6-20 db gain in improved signal-to-noise ratio. ratio

1047003. Model CLR-11. Wt. 10 lbs. less coax and mast. Net Eq., \$32.95 



Antenna arrays that tremendously increase effective range and power of CB signals by concentrating them into a narrow "ray-like" pattern. Assembly consists of one boom holding two verticolly oriented beams, electrically coupled for a single 52 ohm feed line. Rugged all-aluminum construction ta withstand heavy weather. Mount on CDR Type TR2C or similar rotor; CDR TR44 or HAM-M heavy duty rotor recommended on 2 larger arrays in high wind areas. Less rotor, mast, 52 ohm lead. \*Power advantage is in comparison to ground-plane or vertical antenna with 5 watt transmitter input. Example: Duo-Beam 10 makes a 5 watt signal sound like 120 watts!

| Stock   | HyGain | No.      | *Power    | Boom   | Wt.  | Net     |
|---------|--------|----------|-----------|--------|------|---------|
| No.     | Model  | Elements | Advantage | Length | Lbs. | Each    |
| 10A7005 | SDB4   | 4        | 42 Watts  | 3'1"   | 16   | \$57.50 |
| 10A7006 | SDB6   | 6        | 93 Watts  | 12'2"  | 30   | 84.50   |
| 10A7007 | SDB10  | 10       | 120 Watts | 18'    | 59   | 154.95  |

#### CB BALUN MATCH FOR IMPROVED BEAM OPERATION

Instolls at the antenna. Improves front-to-back ratio of beams, helps eliminate TVI and improves radiation pattern of antenna, Recommended for the HyGain beams above as well as other makes. No. 10A3000, HyGain Model BN-27A, Net Each \$12.95

| 10. TUASUU                             | U. Hyua | In Model BN-2/A.                                                           | Net Lach               | ••••••••••••               | Ψ. <b>Δ</b> .ΖΣ            |
|----------------------------------------|---------|----------------------------------------------------------------------------|------------------------|----------------------------|----------------------------|
|                                        |         | N E                                                                        | CABLE                  | HENOL C<br>Assembl         |                            |
| ACC -                                  | 3       | AS LOW AS<br>\$2 <sup>25</sup>                                             |                        | plugs, fact                | coax, at-<br>ory assem-    |
| Stk. No.<br>2A4000<br>2A4001<br>2A4002 | 20 ft   | Description<br>. RG 58/U, PL-259<br>. RG 58/U, PL-259<br>. RG 58/U, PL-259 | Both Ends<br>Both Ends | Wt.<br>3 oz.<br>1 Ib.      | Net Each<br>\$2.25<br>3.25 |
| 2A4003<br>2A4004                       | 50 ft   | Spade Lugs on Oth<br>RG 8/U, PL-259<br>RG 8/U, PL-259                      | ner End<br>. Both Ends | 1 Ib.<br>6 Ibs.<br>11 Ibs. | 2.85<br>9.25<br>15.90      |

"BLITZ BUG" COAX CABLE LIGHTNING ARRESTOR



90

Added lightning protection for receiving and transmitting equipment, ham gear, citizens band transceivers etc. using 52 ahm ar 72 ohm coaxial antenna lead. Threaded for standard PL259 and SO239 fittings. Shpg. wt. 1 lb. No. 10A3001.

\$3.95 Cush Craft LAC-1. Net Each ....

## **CITIZENS BAND ANTENNAS**



No. 10A7009. Model M-20. Less RC380 Lead. Net Each. MODEL M-119 A/S SCANNER DIRECTIONAL DB ANTENNA Rotates the signal—Not the antenna! 7.75 db forward gain — 23 db rear attenuation. Electronic beam scan control unit showing beam position is a simple switch box, with indicator lights. Vertical elements are 17½ long mounted at 120° points on 3' radius circle. Built for rugged weather. Re-quires 4 wire TV rotor type cable for scan control and 52 ohm coax lead for antenna. Shgs. wt. 17 lbs. No. 10A7010. Model M-119. Net Each. \$74.95



AVANTI PDL-27A DUAL DIVERSITY LOOP. Power gain 11 db. The one that AVANTI PDL-27A DUAL DIVERSITY LOOP. Power gain 11 db. The one that started it all! Outstanding performance pinpoint signal directivity, ability to transmit or receive an either horizontal or vertical directivity. Provides as much as 25 db additional reduction of interference when switched to other mode. Provides a stronger signal than stacked 3 element beams. Rugged aluminum and fibreglass construction. Height 11.9 ft. Perfect 50 ohm match for coaxial feed line. Max. power rating 1,000 watts. Wt. 13 lbs. **\$79.95** No, 10A7038. Model PDL-27A. Net Each. NOW THE MOONRAKER! Power gain 14.5 db! Cambines 1/2 wave cross dipole elements with the famous PDL design reflector. Switch box included permits harizantal or vertical mode transmit or receive. Front to back ratio 38 db, vertical to horizontal separation 25 db. Maximum power 1,000 watts. Feed impedance 50 ohms. Boom length 15 ft. Wt. 24 lbs. \$129.95

\$129.95 No. 10A7039. Net Each .... FAMOUS AVANTI ASTROPLANE. Power gain 4.46 db. Compact omni-direc-tional design without radials or coils. 50 ohm coax feed. Max. power 1,000 watts All aircraft quality seamless aluminum construction. Wt. 31/2 lbs. No. 1047040 \$29.95 Net Each



\$10.45 \$15.95 Net Each 345-1 (Perfect 36 with Trunk Mount.) No holes to drill. Base secures to for-ward edge of trunk deck without marring. 15' cable. Wt. 5 lb. \$21 95 \$21.95 No. 10A7047. Net Each ... No. 10A7048. Net Each.....

## JOHNSON MESSENGER CB TRANSCEIVERS



World's smallest 5 watt radio for 27 MHz CB radio service. Famous Johnson high performance with excellent sensitivity and exceptional noise rejection. Can be installed in virtually every automobile including 1970 models. Designed to harmonize with auto interior. Five crystal controlled channels plus on/off controlled by push-buttons. Volume and squelch knobs are slide-lever type completely eliminating protruding knobs; channel 5 crystals supplied. Size  $1\frac{3}{3}$  H. x  $4\frac{3}{3}$  W. x  $7^{\prime\prime}$  deep. With high quality push-to-talk ceramic mike. For 12 V. DC. operation. \$99.95 No. 10A34. Johnson 242-125. Each.

### **DELUXE MESSENGER III 5 WATT** ALL SOLID STATE

CB TRANSCEIVER

\$14995

Features finest engineering and performance. Now 12 channels. 18 transistors, 9 diades, double conversion superheterodyne, 0.4 microvolts sensitivity, 7 KC bandwidth. 2-stage self-compensating squelch, automatic noise limiter. Transmitter is high level modulated, has speech clipping and filter for high Intelligibility. Internal speaker, also provisions for external speaker and for 3 W. PA. Wired for optional tone alert. Size  $2\frac{1}{78} \times 6\frac{1}{78} \times 8\frac{3}{4}$ " deep. For 12 V. DC. With channel 9 crystals. Wt. 8 bs. No. 10A6. Johnson 242-143. Net Each.

G



**OR PORTABLE OPERATION** 

Ruggedly constructed. Super sensitive double conversion superheterodyne receiver lets you hear more stations ... more clearly. Built-in speech compression provides more audio for greater range. Has combination "5" meter/power meter, built-in PA system. Sensitivity 0.5 uv. Selectivity 6K HZ bandwidth at -6 db. Features series type automatic noise limiter, adjustable squelch, very effective AVC. 23 transistors.

Size: 21/2" H., 8" W., 91/2" deep. Operates on 12 VDC. Wt. 5 lbs. \$199.50 No. 10A20. Model 242-320. Net Each.

#### **MESSENGER 323 WITH CRYSTAL FILTER**

| Crystal filter for exceptional adjacent channel rejection and<br>Particularly desirable in areas of high CB radio activity. Oth |                |
|---------------------------------------------------------------------------------------------------------------------------------|----------------|
| Model 320 above. For 12 V. DC negative ground. Size 21/                                                                         | 2 x 8 x 91/2". |
| Mobile bracket supplied.<br>No. 10A12. Johnson 242-153- 2. Each                                                                 | \$239.95       |
| OPTIONAL 117 V. AC POWER SUPPLY. Wt. 6 lbs.                                                                                     | 622.05         |
| No. 10A3017. Model 239-122-1. Net Each                                                                                          | \$32.95        |
| 12 V. OC NI-CAD PORTABLE POWER. Rechargeable battery carried operation, Wt. 4 lbs.                                              |                |
| No. 10A3032. Model 250-855-2. Net Each                                                                                          | \$79.95        |



Use It base, mobile or portable. Features speech compression for greater range, built-in naise limiter to effectively reduce ignition and other types of noise, sensi-tivity to bring in weak stations with greater readability. . plus all the famous Johnson reliability. 5 channel crystal transmit-receive. 12 V. DC operation Size 21/2x63/16x83/4" deep. With channel 9 crystals, and push-to-talk ceramic microphone. Wt. 5 lbs. \$109.95 No. 10A4. Johnson 242-110. Net Each



#### **MESSENGER "100" 5-WATT** \$12995 SOLID-STATE CB TRANSCEIVER

All transistar—Now with new extra features. Very small size  $2\frac{1}{2} \times 6\frac{3}{4} \times 8\frac{3}{4}$ " deep. Has six channel crystal receive-transmit, narrow bandwidth, adjustable squelch, exceptional sensitivity, transmitter speech compression, full 3.5 watts RF output, 3 W. audio power to internal speaker. Also has jack ond switch for use as 3 W. PA amplifier. Wired for optional tone alert. For 12 V. DC. \$129.95

With crystals for channel 9. Shpg. wt. 8 lbs. No. 10A5. Johnson 242-156. Net Each



#### **NEW JOHNSON MESSENGER 123** \$17995 SOLID STATE 23 CHANNEL TRANSCEIVER

Full 23 channel operation at new low prices. No additional crystals to buy! Equipped with a compression circuit that puts maximum voice intelligence into the radiated signal. The super sensitive receiver has 0.4 microvolt sensitivity with sharp filtered 7 KHz selectivity to pull In distant stations while rejecting interference from adjacent channel users. A high efficiency noise limiter effectively reduces ignition and other forms of radiated noise interference. Solid-state circuitry has low current drain and is fully temperature compensated to operate from  $-22^{\circ}$  F. to  $+140^{\circ}$ F.

Easy-to-read meter monitors both incoming signal strength and transmitter output power. For 12 V. DC operation. 2½2" H. x 6‰" W. x 8¾" D. Shpg. wt. 5 lbs. No. 10A32, 242-123. Each. \$179.95

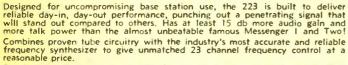
|                                | BASE STATION POWER SUPPLY                                                                                                                                       |     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| For all Messer<br>No. 10A3007. | ngers above except Model 125. 117 V. 60 cy. Wt. 3<br>Johnson 239-125-1. Net Each\$32                                                                            | .95 |
|                                | TRANSISTORIZED TONE ALERT                                                                                                                                       |     |
| pletely mutes                  | Messengers above except Models "110" and "125". Co<br>the speaker until one of your units calls. Automatic<br>signal note. Eliminates unwanted signals on stand | ath |
| No. 10A3008                    | 8. Johnson 250-861. Net Each\$69                                                                                                                                | .00 |
| EXTR                           | A CRYSTALS FOR MESSENGERS ABOVE                                                                                                                                 |     |
| No 1043009                     | Specify Messenger Model and Channel Number. Pair \$4                                                                                                            | 95  |

## FINE CITIZENS BAND EQUIPMENT

FOR UNMATCHED PERFORMANCE



**JOHNSON MESSENGER 223 23 CHANNEL BASE STATION** 



Receiver has 4 double tuned IF's for excellent adjacent channel rejection, 0.5 microvolts sensitivity for 11 db signal to noise ratio, series type auto-matic noise limiter, adjustable squelch, AGC, superior audio, built-in speaker and provision for external 3.2 ohm speaker. Has combined illuminated "S" meter/power output meter. Transmitter RF output 4 watts. Microphone input high impedance.

Cabinet size 5.4," H. 11" W. 9.1," D. Has cast and chrome plated front panel, perforated steel enclosure. For 117 V. AC 50-60 Hz only. Wt. 12 lbs. No. 10A36. With press-to-talk ceramic mike. \$224.95 Model 242-223-2. Net Each.



NEW JOHNSON CB MATCHBOX. Connects between tronsceiver and coax feed line to antenno. Corrects impedance mis-match, eliminates standing woves, im-proves performance of equipment. Hondles up to 15 watts power. 4 x 3 ¼ x 2 ¾". No. 10A3004. Wt. 3 lbs. Johnson 250-049. Net Eoch.

New JOHNSON TENNAMETER. Smoll metered device that actually reads the standing wave ratio on 52 ohm coax feed line. Shows instantly when ontenna system is not correct and allows tune-up to maximum power.  $4\frac{1}{2} \times 2\frac{3}{4} \times 2\frac{1}{4}$ ". No. 10A3005. Shpg. wt. 3 ibs. Shows instantly shows a standard standar

#### TRANSISTORIZED PERMA-VIBE

| No.10A3016 Johnson    | 239-050-1. Net E   | och                  |         | φ0,  | 22   |
|-----------------------|--------------------|----------------------|---------|------|------|
| operation only. Quiet |                    |                      |         | \$8. | 05   |
| Permanently replaces  | vibrator in Messei | nger 1 and Messenger | II. For | 12 V | . DC |

#### **VOLTAGE CONVERTER**

For Powering 12 Volt Transistorized CB Sets on 6 or 32 Volt DC 

#### **POPULAR NEW-TRONICS CB ACCESSORIES**

#### MODEL CB-52-T TRANSICHECK

MODEL PL-52 DUMMY LOAD Attoches to CB transceiver in place of antenno. Needed for making transmitter adjustments. High impact plastic with standard PL259 connector. No. 10A3003. Shpg. wt. 1 lb. \$2.50





1 ..... 38 -

Personal Communications.

Emergency Communications Nets.
 Public Service Utility Systems.

SPECIALLY ENGINEERED FOR OPTIMUM

PERFORMANCE

Business Industrial Applications.

0

• Business Industrial Applications. • Public Service Utility Systems. All the accumulated knowledge of the world's largest, most experienced manufacturer of citizens and industrial 2-way radio was focused in the design of this, the most sophisticated of all 27 MHz base stations. Features generally not found on other transceivers: Advanced dual conversion superheterodyne receiver circuitry. Delta fine tuning  $\pm 3$  KHz. Adjustable microphone gain with modulation adjustment to 100%.  $21/2^{''}$  four-way pro-fessional meter, measures SWR, output, % modulation and receive signal strength. Crystal filter, 4.3 MHz selectivity. Built-in speech compression. Panel controlled, series-type automatic threshold noise limiter, Built-in tone control. control.

control. Produces 4 watts RF output power, 3 watts audio output to Internal speaker. Wired for high impedance, push to talk ceramic microphone. Power source required 13.8 V. at 0.53 A. on standby, 1.3 A. transmit or 117 V. AC 60 Hz at 53 W. maximum. Cabinet size  $5\%_{6}$ " H. x 11" W. x  $9\%_{6}$ " D. Shpg. vt. 14 lbs. **\$289.95** 

\$289.95 No. 10A33. Model 242-124. Less Microphone. Net Each ...



#### **FAMOUS JOHNSON** MESSENGER I

FINEST LOW COST BASE/MOBILE CRYSTAL CONTROLLED TRANSMIT RECEIVE 5 CHANNEL CAPABILITY

\$124<sup>95</sup>

The original 5 watt 10-tube transceiver popularly known as "Messenger I". Nationally famous for its penetrating signal and faithful performance. All components operate at only half their capability providing tremendous reserve power and dependability. Has squelch, automatic noise limiter, AVC. Size 5% x 7 x 113%" deep. Sturdy steel cobinet, chrome front panel. With channel 9 transmit and receive crystols. Shpg. wt. 17 lbs.

WITH CH. 11 CRYSTALS

No. 10A9. Johnson 242-128. For 12 V. DC-115 V. AC. \$124.95 Net Each No. 10A3012. Pair Crystals for Messenger 1. Specify Channel. Pair.....\$4.95 No. 10A3014. Johnson 251-828 Dash Bracket. Net Each......\$2.50



SIZE: 81/2" H, 31" W, 11" D. Wt. 30 ozs.

FAMOUS JOHNSON CRAFTSMANSHIP THROUGHOUT

Lightweight and rugged. Utilizes 14 transistors, 9 diodes and a thermitter to result 14 transistors. 9 diodes and a thermistor to give excellent per-formance in both transmit and receive modes. Receiver sensitivity 10 db S+N/N ratio with 0.5 microvolts (30% modulation at 1000 HZ). 6K HZ bandwidth at -6 db. Squelch is highly immune to impulse type noise. Noise limiting is series type with automatic threshold adjustment and IF clipping.

Comes with nickel cadmium battery pack and built-in charger. Cives 8 hours service on a single charge. Squelch control silences receiver on "standby", prolongs battery life.

Transmitter power input 3.7 watts at 13.8 VDC, RF power output 2.1 watts. High level class B modulation with speech compression, clipping and audio filtering.

With channel [] crystals. No. 10A19. Shpg. wt. 2 lbs. Net Each \$149.95





# IDLAND CITIZENS BAND WALKIE-TALKIES



\$1695

100 MILLIWAT WITH CALL SIGNAL

No license or permit required. Range up to 2 miles.

Plug-in crystals. Optional AC Adaptor.

- With carrying case. Small size-only 53/4" high.

Tremendous talk power and sensitivity. Call sig-nal increases range over ordinary voice calling, is more easily identified on crowded channels. Operates on three of the 23 CB channels. Chan-nel 11 crystals, factory installed. Grey case with chrome trim. Vinyl carrying case, earphone and 9 volt battery supplied.  $534 \times 256 \times 136$ ". Shpg. wt. 1½ lbs. Tremendous talk power and sensitivity. Call sig-\$16.95 10A3020. Crystals per channel. Pair....\$4.95

IDLAND TERNATIONAL

BEST VALUE! 100 MILLIWATT RUGGED 9 TRANSISTOR LAST YEARS PRICE CUT \$2.00

LASI YEARS PRICE CUI \$2.00
No License or Permit required.
Rugged all metal case.
Range up to 2 miles.
Pplug-in crystals.
Optional AC power adaptor.
Size 71/6 x 23/6 x 2 inches.
Has treemendous talk power and sensitivity packed into its precision engineered superheterodyne chassis. Far exceeds the usual 100 MW unit in both performance and construction. Comes with 461/2" 11-section telescoping antenna, leather case, crystals for ch. 11. Requires 8 standard pencell batteries, Finest Import.
No. 10A16. Modet 13-113. 95

| NO.  | IUAI6. | Model   | 13-113.  |      | \$19 | 3 ( |
|------|--------|---------|----------|------|------|-----|
| Each |        |         |          |      | φ.   |     |
| No.  | 21A3.  | Pencell | Battery. | Each |      |     |
|      |        |         |          |      |      |     |

\$4.95 No. 10A3021, Optional 117 V. AC Adaptor No. 10A3020, Crystals, Per Channel

- 12

D

DELUXE HIGH **POWER WALKIE-TALKIES** 



\$4495

cable

Rugged and powerful! Handles the big jobs with ease. Full 2 watts input power. Tuned RF for longer receiving range. Fully variable squelch control. Call signal transmits a long range tone to other units. Send and receive on any 3 chan-nels. Channel 11 crystals supplied. 10 transistors, I diode, and two squelch tran-sistors, plus an integrated circuit that does the job of several solid state devices. All metal cabi-net with die cast grille. Deluxe Texon carrying case and shoulder strap. Earphone included. 5 foot, 13 section antenna. Battery condition meter. Operates on 8 pencells or AC power supply. FCC license required to operate. Shpg. wt. 2 lbs.

No. 10A43. Model 13-724. \$44.95 Each

 No.
 21A3.
 Pencell.
 Each.
 13c

 No.
 10A3034.
 18-140
 AC power supply...\$18,95

 No.
 10A3022.
 20-112.
 Nickel cadmium recharge-able battery pack.
 \$16,50

 No.
 10A3023.
 20-212.
 Charger for above...\$6,50

 No.
 10A3020.
 Crystals per channel.
 Pair...\$4,95

AND INTERNATIONAL **5 WATT HIGH POWER** TRANSCEIVERS \$7995

#### 12 CHANNEL MODEL 13-772

Loaded with performance features. Call-signal fone alert carries farther than voice. Combina-tion battery level/power output/signal strength meter. Hi-lo battery saver allows monitoring at reduced battery level. Can be used as public address amplifier with an external speaker. Rugged metal cabinet with die-cast front. 13 section 60" antenna. Complete with channel 7 crystals, leather carrying case and earphone. Re-quires 8 pencells or 12 V. DC power supply. Model 13-772. 12 channel 5 watt transc No. 10A44. \$79.95 Each 

No. 10A3020. Crystals per channel. Pair. \$4,95

IDLAND INTERNAT 5 WATT HAND HELD TRANSCEIVER

WITH CHANNEL 7 CRYSTALS 8995

0

Five watts, 6 channels! Ch. 7 crystals supplied. Extra sensitive receiver—highly officient trans-mitter. Better than 1.2 micro-volt sensitivity. Has tuned RF and 4 IF stages, more pickup than other hand held units. Fine extra features. Fully adjustable squelch, accessory jack for external 12 V. DC powercharger, jacks for earphone, ex-ternal mike and external antenna. Jack for 8 ohm external speaker converts unit into a portable P. A. All metal case. die-cast chrome grill, 9¾ x 3¼ x 2¾" deep. 60" telescoping antenna. With leather case, strap. Requires 8 pencell batteries or other 12 V. DC. Shpg. wt. 3 lbs. No. 10A30. Model 13-775B. S89.95 \$89.95 Each Each 13. No. 21A3. Pencell, Each 13. No. 10A3027. 18-143. AC power supply...\$21.95 No. 10A3025. 18-141. 12 volt automobile cable. Each \$1.50 

No license or permit required. 

Variable squelch control.

Separate speaker and mike.

Tuned RF.

DL

AND

\$2995

INTERNATIONAL

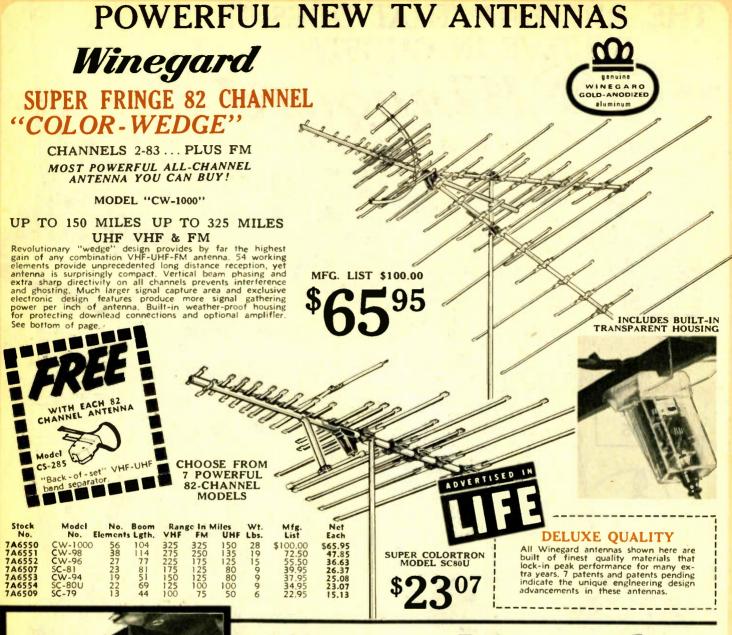
12 TRANSISTOR-3 CHANNEL

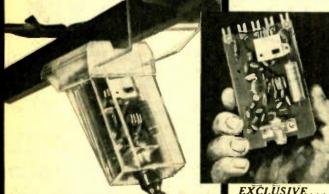
WITH CALL SIGNAL

100 MILLIWAT









#### **RECOMMENDATIONS ... IF YOU HAVE:**

\$29.68 (for 75 ohm cable). Each.

Weak VHF, Strong UHF, use r No. 7A2561, Model AC223B. (for 300 ohm line). Each.... No. 7A2562, Model AC295B. use models below \$23.06 \$23.06 (for 75 ohm cable), Each

EXCLUSIVE ... Lightning protection diode circuit!

Weak UHF, Strong VHF, use models below. No. 7A2563. Model AC-423B. \$23.06 (for 300 ohm line). Each. No. 7A2564. Model AC-495B. \$23.06 (for 75 ohm cable). Each \$23.00 Weak FM (Fm antenna only) use models below No. 7A2565. Model AC623B. \$23.06 (for 300 ohm line). Each... No. 7A2566. Model AC6958. \$26.38 for 75 ohm cable). Each

Winegard

#### **SUPER COLORTRON 82-CHANNEL** ANTENNA MOUNTED AMPLIFIERS

BOOST UHF-VHF OR FM ACCORDING TO YOUR LOCAL NEED—UP TO 7 TIMES MORE SIGNAL POWER

NEW SOLID STATE SIGNAL BOOSTERS EXTEND RECEPTION RANGE ... STRENGTHEN WEAK CHANNELS AND LET YOU OPERATE SEVERAL SETS AT SAME TIME

There's a high gain, transistorized amplifier for every reception area. Preci-sion printed circuitry with long-life silicon overlay transistors boost TV signals on antenna right at point of interception. Perfect for color and black and white. Amplifier boards slide easily into the built-in housing on each Super Colortron antenna. (For other antenna models, order housing Model ACH-1B shown below.) Includes connector and power supply. 117 V. AC. Shpg. shown t wt. 2 lbs.

Above Left: Weatherproof downlead and amplifier housing built into each Super Colortron antenna. Above Right: Super Colortron solid-state antenna amplifier.

UNIVERSAL AMPLIFIER HOUSING At-taches to any TV or FM antenna with U-bolt provided. Accepts any of solid-state amplifiers listed at left. Shpg. wt. 1 lb. Mfg. List \$3.95. Model ACH-1B. \$2.60 No. 7A2567, Each



#### FOR IMPROVED RECEPTION EVERYWHERE Winegard, VHF-FM "COLOR-WEDGE" SUPER-POWER FOR VHF CH. 2-13 AND FM MODEL "CW-2000" Designed like the famous CW-1000 at left except that ALL the performance is concentrated on channels 2-13 VHF and FM. This antenna does not receive UHF—but what it does for long range VHF is next to unbelievable. Under Wine-gard's new Total Performance Rating system— which takes into consideration such factors as voltage gain, horizontal directivity, vertical direc-tivity, front-to-back ratio, front-to-side ratio, and impedance match—this antenna is at the very top with a rating of "300". There is none better. FM rating is 265, making it an extreme distance performer on FM, too. \_\_\_\_ **DELUXE QUALITY THROUGHOUT** MFG. LIST \$100.00 All Winegard antennas shown here are built of finest quality materials that lock-in peak performance for many extra years. 7 patents and patents pending indicate the unique en-gineering design advancements in these an-tennas. - 95 ADVERTISED \$5.00 MONTHLY **CLEARS UP TV RECEPTION** KNOCKS TV SNOW, GHOSTS MODEL SC-51 WIND-TESTED TO 100 MPH **>47** Winegard unique wedge design provides in-creased signal capture area in a much shorter and more compact antenna. Has VHF vertical beam phasing elements to help reject inter-ferences such as auto ignition noise. Has built-in ferrite impedance stabilizer for up to 10% increase in gain as well as automatic 200 ohm match to lead-in. Elimination of insulators makes the wedge stronger and automatically grounds static charge build up for lightning protection. protection **CHOOSE FROM 7 POWERFUL MODELS** Built-in trans-**EXCLUSIVE** Built-in transparent cartridge housing supplied with each antenna. Permanent weatherproof protection for downlead terminal cartridge (300 ohm cartridge supplied) or optional antenna amplifiers listed on page EXCLUSIVE Stock No. Boom Range in Miles Elements Lgth. VHF FM Model Wt. Mfg. List Net No. Each 7A6555 7A6556 7A6557 7A6558 7A6503 130 115 78 52 71 350 250 225 200 CW-2000 44 350 250 225 200 30 16 14 10 \$100,00 \$65.95 CW-48 CW-46 CW-46 CW-44 SC-52 SC-51 SC-50 64.95 49.95 39.95 34.95 24.95 19.95 42.86 32.96 26.38 25 17 13 15 12 175 150 125 22.86 16.47 13.18 87 202. 150 A6504 ADD POWERFUL UHF TO ANY TV ANTENNA! Winegard **UHF "COLOR** TRACKER" KIT MODEL SC-60 SHOWN 85 AS LOW Winegard 245 Features parabolic re-flector and staggered yagi-type directors for unprecedented UHF per-formance. Rugged, light-weight and compact. All gold anodized aluminum. Comes complete, easy to install—includes back of set VHF-UHF band sep-arator and phasing wire with connectors for quick installation to your VHF antenna. USES ONLY ONE LEAD-IN WIRE ATTACHES TO YOUR VHF MAST FOR POWERFUL INCLUDES BUILT-IN TRANSPARENT CART-RIDGE HOUSING FM & FM STEREO Enjoy the ultimate in FM sound by using one of these high gain, highly directional Super Color-trons. Rejects unwanted signals from back and sides. Near perfect 300 ohm impedance match. Includes built-in weatherproof downlead and amplifier housing. MODEL U-620K Stock No. 7A6511 Model No. Mfg No. SC-65 SC-60 Mfg. List \$14.95 19.95 Lbs. Shpe. Wt. 6 lbs. Net Each **Elements Range In Miles** Elements Model Stk. No \$36.95 7A6547 7A6548 U-610K U-620K \$9.85 12.58 11 350 275 \$24.42 12 20

7A6512

9 lbs.



# **DELUXE TELEVISION ANTENNAS**

FOR UTMOST COLOR OR BLACK AND WHITE VIEWING PLEASURE EVERYWHERE! CAREFUL DESIGN USING BEST MATERIALS AVAILABLE ASSURES EXCELLENT APPEARANCE

AND LONG SERVICE LIFE

SUPER FRINGE 82 CHANNELS **MODEL DLX-125** \$**39**95 **DLX-100 SUPER-FRINGE FEATURES** DLX-100 SUPER-FRINGE FEATURES Superb color performance (or black and white) on all VHF and UHF channels is obtained through a series of UHF-VHF high and low band elements arranged in the popular, proven multi-driven element yagi design. Exclusive new unit constructed UHF grid is more efficient than older style riveted elements. UHF/VHF isolation and maximum signal transfer to the down lead are maintained on all channels. Excellent directivity coupled with high rejec-tion of unwanted rear and side signals provides "clean" picture quality. Constructed of extra high strength gleaming gold vinyl clad aluminum, heavy square boom and patented cradle mount. Use high impact low loss insulators and burnished element contact points for best electrical con-ductivity. Factory pre-assembled, swing open, snap lock construction makes FREE BACK-OF-SET VHF-UHF BAND SEPARATOR **RANGE IN MILES** VHF-125 UHF-60 FM-125 MADE FOR 300 OHM AND 75 OHM LEAD CUSTOM ANTENNA BALUN INCLUDED FILLS THE MAJORITY OF ANTENNA NEEDS AT SURPRISINGLY LOW COST ... PROVIDES COLOR (OR BLACK & WHITE) UHF/VHF AND FM **EXTRA POWERFUL PERFORMANCE! PRICED TO** DARE COMPARISON! THIS IS THE ANTENNA FOR TROUBLESOME RECEPTION AREAS NEW B-A 82 CHANNEL FRINGE ANTENNA \$2995 COMPLETE KIT 82 CHANNEL **NEAR FRINGE** ANTENNA \$17<sup>95</sup> **GLEAMING** MODEL DLX-75 **GOLD VINYL CLAD** DLX-75 Cleaming gold vinyl clad! All-alu-minum reinforced construction, fac-tory pre-assembled to save you time. Engineered for performance using proven multi-element design. Boom length, installed, 60". Power-ful compact design makes the DLX-75 Ideal for attic installations. UHF-VHF splitter included. For 300 ohm lead or 75 ohm lead with custom antenna balun supplied. Less mast and lead in. Shpg. wt. 8 lbs. Not mailable. **RANGE IN MILES: VHF-75.** UHF-40, FM-75 GLEAMING GOLD FOR 300 OHM AND 75 OHM LEAD MODEL DLX-100 CLAD **CUSTOM ANTENNA BALUN INCLUDED** RANGE IN MILES: VHF-100, UHF-60, FM-100 FREE BACK-OF-SET VHF-UHF BAND SEPARATOR FREE ... BACK-OF-SET VHF-UHF mailable. DLX-75. BA Low Price. \$17.95 BAND SEPARATOR MADE FOR 300 OHM AND 75 OHM LEAD, CUSTOM ANTENNA BALUN INCLUDED **UNBEATABLE VALUE! TOTAL RECEPTION** ALL 82 CHANNELS - COLOR / B&W / Features finest color (or black and white) 82 channel performance and extra power through coordinated engineered addition of more elements. 300 or 75 ohm single down lead with UHF-VHF separator furnished. Antenna balun is supplied for 75 ohm coax installation. Factory pre-assembled for fast, easy installation. Complete instructions included. (Gold Vinyl Finish). Boom length 100". Shog. wt. 10 lbs. **FM / STEREO** \$29.95 No. 7A6561. Model DLX-100. BA Low Price **NEW B-A DELUXE MOBILE HOME B-A DELUXE** 82 CHANNEL **CITY SUBURBAN** ANTENNA **ANTENNA OUTFIT** OUTFIT 95 MODEL DLX-9K COMPLETE KIT COMPLETE KIT Includes the popular city-suburban antenna at left with special installa-tion hardware and 6 ft. mast for wall mount. Easily oriented for strongest signal. Designed to be lowered for traveling without folding. Kit includes 25 ft. 300 ohm lead, wall-thru bush-ing and back of set VHF-UHF band separator. Shpg. wt. 6 lbs. Not mail-able. No. 7A6564. Model DLX-9MHK. Net Each......\$11.95 Includes 4 ft. tripod mount, 50' lead-in, stand-offs and all necessary hardware for a fine roof-top installation. Range VHF 50 miles. UHF 40 miles, FM 50 miles. Of finest materials, riveted and reinforced, and designed for quick Installation. Glearning gold vinyl clad for permanent high per-formance. Shgg. wt. 5 lbs. Adjustable INCLUDES Thru Wall' TRIPOD MOUNT, 50' LEAD-IN If AL

AND

ACCESSORIES

\$8.88

Mailable.

No. 7A6563. Net Complete ...

## ANTENNA ROTORS FOR IMPROVED TV RECEPTION



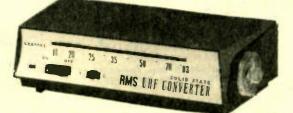
**HEAVY DUTY ROTOR UNIT.** First choice of thousands! Rotates full 375 degrees at approximately 1 RPM with positive, automatic stop in either direction. Instant reversing, Built-in 61/2" diameter ball thrust bearing will handle heavy antenna ... no additional bearing support needed. Clamps take 7/8" to 2" dia. Mounts also on flat surface when lower mast support is removed. Mechanism has oilite and ball bearings, lifetime lubrication. Shop, wt. 15 lbs.

| With Manual Control TR-2C. New     | ly designed | <ol> <li>Conveni</li> </ol> | ient swite | ch operation. |
|------------------------------------|-------------|-----------------------------|------------|---------------|
| Use 8-wire cable, Mfg. List \$47.9 | 5.          |                             |            | \$30.95       |
| No. 7A2537. Net Each               |             |                             |            | .430.3J       |
| With Automatic Control AR-22R.     | Antenna t   | urns and                    | stops as   | dialed. Use   |
| 4-wire cable. Mfg. List \$54.95.   |             |                             |            | \$34.95       |
| No. 7A2538. Net Each               |             |                             |            | 434.73        |

#### PUSH-BUTTON AUTOROTOR MODEL AR33

Brand new! Only push-button controlled rotor made. Set antenna direction once for each of 5 channels . . then return to that direction automatically by push-button selector. Also has dial controlled selector for any compass point. Completely silent, all solid state. Use standard 5-wire cable. With same heavy duty rotor unit, as other models above. Wt. 15 lbs. \$49.95 No. 7A2545. Model AR33. Push-Button Rotor. Each.





#### **RMS ALL TRANSISTOR UHF CONVERTER DELIVERS UHF PICTURES WITH EXTRA BRILLIANCE**

Adds Channel 14 to 83 Color or 8 & W to your TV Set. Size only  $9\frac{3}{2} \times 4\frac{1}{4} \times 2\frac{1}{2}$  W. Fully transistorized, gives tremendous performance and reliability. Features continuous channel tuning. Converts UHF stations to channel 5 or 6. Switches in and out of use instantly. Powered from 115 V. 60 cy. AC. Shog. wt. 2 lbs. Mfg. List \$39.95. No. 7A2544. Model CR-300, Net Each.



#### SOLID-STATE DELUXE UHF, CONVERTER **RMS MODEL CR-800 WITH POWERFUL AMPLIFIER**

Advanced circuit provides 30 db. gain for clearest possible UHF reception. Even out-performs "front-end" of TV sets already equipped for UHF, bringing in clear, sharp pictures. Push-button controls for OFF-ON and UHF/VHF selection add extra convenience. Attractive charcoal gray decorator-styled cabinet 10"x41/2"x21/2" H. Shpg. wt. 2 lbs. For 115 V. AC. No. 7A2558. Model CR-880. Mfg. List \$49.95. Net Each.



Rototor. Swings antenna elther direction through a full 360° in 1 minute. Stops where desired. Magnetic brake prevents drifting. Has automatic stop at end of rotation, permanent lubrication and strong, weather-tight die-cast metal housing. Masts up to  $1\frac{3}{76}$ " dia. slip through rotor; are held by clamps. Optional TBB bearing takes stress off rotor where needed. Size  $7\frac{3}{4} \times 5\frac{1}{2} \times 8$ " H. Control boxes operate on 115 V, 60 cycle AC. Shpg. wt. 12 lbs. Model K22 with switch bor and light indicator to show end of rotation. No. 7A2539. Mfg. List \$29.95. Use 4-wire coble. S19.37 Net Eoch Model T45 with switch and meter indicator to show ontenno No. 7.42540, Mfg. List \$39.95. Use 5-wire cable. direction \$24.03 Net Each....

Model U-100 with automatic control. Antenna turns and stops as dialed Uses 4-wire cable. \$28.78 No. 7A2568. Mfg. List \$49.95. Net Each. \$28.78 Model C225 with silent automatic control. Rotator stops at direction dialed on the control. Use 5-Wire No. 20 cable. \$35.97 Model TBB thrust bearing. Takes stress of rotor where needed for extra heavy or high antenna installations. Mounts on mast supporting rotor. \$2.97 Uses 4-wire cable. \$28.78

No. 7A2569. Mfg. List \$4.95. Net Each .....

POWER PICTURE TUBE BRIGHTENERS

PERMA





C400 Series

C200 Series

C500 Series

### BRINGS BACK PICTURE QUALITY AND CONTRAST FOR BLACK AND WHITE TUBES

| 6.3 V. Filaments-Boost to 7.8 V. (Wt. 8 oz.)         |      |
|------------------------------------------------------|------|
| Model C401 — Parallel 0.3, 0.45 or 0.6 A. Filaments. | 39c  |
| No. 13A8016. Net Each                                | 320  |
| Model C402 - Series 0.6 A. Filaments only.           | 39c  |
| No. 13A8017. Net Each                                | ) 7C |

### UNIVERSAL "TU-BRITE" "IF THE BASE IS RIGHT, THE BOOST IS RIGHT"

Completely universal series or parallel, regardless of heater rating. No charts to check. Has slide switch for series or parallel. Will not endanger delicate filaments through too much voltage boost. Shpg. wt. 8 ozs. No. 13A8018. Model C-202. Duodecal Base. No. 13A8019. Model C-212. 110° Button Base. No. 13A8020. Model C-222. 110° Shell Base. Your Choice \$2.25

#### "HUE-BRITE" FOR COLOR TUBES

| Uses type 501 and 511 where filament boost only is required; 502 at for isolation to overcome picture tube filament-to-cathode short. | nd 512 |
|---------------------------------------------------------------------------------------------------------------------------------------|--------|
| For most 70° base 21" round color tubes wt. 2 lbs.<br>No. 13A8032. C-501. Boost only. Net Each.                                       | 5.85   |
| No. 13A8033 C-502, Isolate only, Net Each                                                                                             | \$7.25 |
| For 90° base 19", 23" and 25" rectangular color tubes. Wt. 2 lbs. St. No. 13A8034. C-511. Boost only. Net Each                        | 5.85   |
| No. 13A8035. C-512. Isolate only. Net Each                                                                                            | \$7.25 |



0

TUBE GUARD Eliminates voltage surge, main cause of TV and radio failure. Feeds current slowly while tubes and parts warm-up. Minimizes replacement costs. For TV, radios, Hi-Fi, recorders, CB-all types of electronic equipment. Shpg. wt. 8 ozs. \$1.32 \$1.32 No. 7A2543. Special Each.

#### SHARPENS COLOR BY REMOVING PIX TUBE MAGNETISM DEGAUSSING COIL STANCOR

A service tool "must" for every shop. Ruggedly constructed to withstand years of abuse. Has in-line cord switch. Com-plete Instructions included. Very easy to use. \$20.07 \$20.07 No. 13A340. Model DGC-100. Net Ea.





#### TV CHEATER CORD

Top quality No. 18 POSJ UL approved 6 ft. cord. Enables plugging in set while back panel is detached or chas-sis out of cobinet. Shpg. wt. 4 oz. 41A371. 35c Each

### IT'S EASY TO INSTALL A WINEGARD TV SYSTEM NEW COAXIAL CABLE HOME TV-FM OUTFIT

- Delivers VHF-UHF-FM signals from a single antenna to 4 wall outlets.
- Lets you operate 1 to 4 sets at the same time in different locations.
- Allows you to move a portable TV from outlet to outlet without dragging excess TV wire around. · Highly reliable solid-state circuitry improves both
- color and black and white . . . costs only pennies a year to operate. Booster-Coupler accepts either 300 ohm or 75 ohm
- antenna downlead.
- Outlets match standard ivory AC wall plates, can be installed either flush or on wall surface with special boxes provided.
- Installs easily with common home tools. No connectors to apply, no electrical wiring to do.
- Shielded 75 ohm coaxial cable shuts out interfering signals, lasts indefinitely.

INCLUDES EVERYTHING YOU NEED FOR A 4-OUTLET SYSTEM AND EASY-TO-FOLLOW INSTRUCTIONS

### **\$64**95

Model HSO-782. Includes 4-outlet booster-coupler, 4 25-ft. lengths coaxial cable with connectors at-tached, 4 wall outlets, 4 surface mounting boxes, 4 plaster straps, 4 outlet-to-set cables with VHF-UHF band separator, 12 cable clips, 1 75-ohm input adaptor and detailed instruction booklet. Shpg. wt, 9 lbs. No. 7A2579. \$64.95 Each

Model CX-15 15-Ft. Extension Cable with Connectors. No. 2A425. Shpg. wt. 1 lb. \$3.46 Each

### NEW SOLID-STATE ANTENNA AMPLIFIERS

For use on any antenna that doesn't have a built-in cartridge amplifier housing.

<sup>\$13.15</sup>

 Boosts Signals for Sharper, Clearer Color & B&W.

• Supplies Enough Signal to Operate 2 or More Sets in Weak Signal Areas. AS LOW AS

Model RD-300 for VHF-FM Anten-nas in fringe signal areas. High gain, low noise, Lightning protected, 300 ohm input and output. Shpg. wt. ohm input and output. Shpg. wt. 2 lbs. No. 7A2587. Each \$13.15

2 Ibs. No. 7A2587. Each. Model RD-830 for VHF-UHF An-tenna. High gain, low nolse. Twin transistors. Built-in fixed FM trap. Lightning protected. 300 ohm input and output. Shpg. wt. 2 Ibs. No. 7A2588. \$19.75 \$19.75

Each Model RD-870 for VHF-UHF Anten-na. Same as above but has 75 ohm output for coaxial cable downlead. Connector included Shpg. wt. 2 lbs. No. 7A2589 S19.75

Model RD-2-83 Twin Transistor Preamplifier. High gain, low noise. Separate 300 ohm inputs for a VHF and a UHF antenna. Single 300 ohm output. Built-in FM trap. Lightning protected. Shog. wt. 2 lbs. No. 7A2590 \$21.45

\$21.45 Each P2-1.40 Model RD-2-87. Same as above, but has two 75 ohm inputs and one 75 ohm output for coaxial cable. Shg. wt. 2 lbs. C01 AE Each \$21.45

No. 7A2591. Each .....

MOUNTS ON TV MAST OR ANTENNA

110 V. POWER SUPPLY

4 6 WINEGARD 75 OHM COAXIAI 3 1 LINE TRANSFORMERS Cartridge Model 300/75 Ohm Transformer for 82 channel VHF-UHF, Fits into Winegard antenna cartridge housing or Model ACH-1 1 No. 7A2581. Model CF-87B. Net Each \$2.16 @ Cartridge Model as above except for VHF-2 (a) Carringge Model as above except for VH-FM antenna. No. 7A2582. Model CF-27B. Net Each \$1.42 (a) Antenna Mounted 300/75 Ohm Transformer for 82 channel VHF-UHF. Weatherproof. No. 7A2506. Model T-283M. \$3.25 \$3.25 Net Each (a) Back-Of-Set 75/300 Ohm Transformer, UHF-VHF 300 ohm input to TV is combined. No. 7A2507. Model T-283. \$2.15

INTERFERENCE REJECTION FILTER Back-Of-Set 300 Ohm Input for VHF. Elimi-nates FM interference and citizens band and amateur radio transmissions.
 \$7,67 No. 7A2583. Model T-223F. Net Each \$2.62

**FM SIGNAL TRAPS** 

| <ul> <li>Back-Of-Set FM Trap and matching transformer. 300 ohm Input to VHF-TV terminals is combined. Attenuates FM band -20 db.</li> <li>No. 7A2584. Model T-283FM.</li> <li>Net Each</li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                   |
| 1 Indoor FM Trap with 75 ohm input and out-                                                                                                                                                       |
| F59 connectors.                                                                                                                                                                                   |
| No. 7A2585. Model T-FM7                                                                                                                                                                           |
| No. 7A2585. Model T-FM7. \$4.42                                                                                                                                                                   |
| Net Each                                                                                                                                                                                          |
| Antenna Mounted FM Trap with 300 ohm<br>input and output. Attenuates FM band -25 db.<br>No. 7A2586. Model T-FM3.     \$3.80                                                                       |
|                                                                                                                                                                                                   |
| Net Each \$9.00                                                                                                                                                                                   |



YOUR TV

ANTENNA

OOSTER COUPLER

PLUGS INTO

ANTENNA

NOT

SUPPLIED

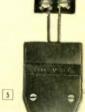
See Pages

202 - 204

S

TV-FM OUTLET

6





## **TV-FM WALL PLATES. COUPLERS & AMPLIFIERS**

#### WINEGARD MULTIPLE SET COUPLERS

#### FOR UHF-VHF TV AND FM **COLOR OR BLACK & WHITE**

Used in home TV-FM systems. Divides signal from antenna or booster 300 ohm lead for. 2 or more sets or for wiring 2 or more outlets where one by poor match. High isolation between sets pre-vents interaction. Use with regular 300 ohm twin lead for VHF, UHF or FM. Excellent for color as well as black and white TV. 300 ohm input and outputs. Shpg. wt. 1 lb. Model CC-282 for 2 Sets. No. 7A2519. Mfg. List \$4.50. Each. Model CC-482 for 3-4 Sets. No. 7A2520. Mfg. List \$5.50. Each. S3.80

No. 7A2520. Mfg. List \$5.50. Each.

#### SOLID STATE 82 CHANNEL **TV-FM BOOSTER/COUPLER**

4 outputs. Perfect Ch. 2-83 and FM system . Excellent for color-uniform gain.

 Excellent for color—uniform gain.
 Fine commercial quality.
 Highly efficient TV-FM signal amplifier with newest overlay silicon transistors and printed circuitry. Delivers full gain on all 82 chan-nels, enough to operate 1, 2, 3 or 4 directly.
 High isolation between sets to prevent inter-action. Baked enamet steel cabinet. 117 V.
 AC. Includes connectors. Shpg. wt. 3 lbs.
 BC-382 (300 Ohm in and out)
 \$26.35 \$26.35

No. 7A2526. Net Each BC-782 (75 Ohm in and out) No. 7A2527. Net Each.

> 25 DB 82-CHANNEL COLOR SYSTEM AMPLIFIER

\$29.65

DA-825A

Solid state, printed circuits.
Separate 75 ohm inputs for VHF and UHF antennas.
Solid state, printed circuits.
Separate 75 ohm inputs for VHF and UHF antennas.
To ohm output.
Power for VHF and UHF and UHF antennas.
To ohm output.
Power for VHF and UHF and UHF antennas.
To ohm output.
Power for VHF and UHF and UHF antennas.
To ohm output.
Solid state, printed circuits.
Separate 75 ohm inputs for VHF and UHF antennas.
To ohm output.
Power for VHF and UHF and UHF antennas.
To Arassa.
Model DA-815.
Similar to DA-825A.
Bach
Model DA-815.
Similar to DA-825A but has +15 db gain.
Has single 75 ohm input for size channel antenna and does not have preamplifier power jack.
Shpg. wt. 3 lbs. Mfg. List \$39.95.
No. 7A2570.
Each



Makes a sensational (ch. 2-13 and FM) home TV system amplifier or a great ampli-fied 4-set coupler. Produces up to 3-million microvolts of signal output, takes up to 500,000 microvolts input. Uses temperature stable overlay silicon transistors ... long life, low cost opera-tion. Flat response makes it perfect for color. No interaction between sets. All metal housing. 117 V. AC. Shpg. wt. 3 lbs. No. 7A2533. Model BC-234 4-300 ohm outputs. Each... \$23.05

TV DISTRIBUTION SYSTEMS INSTALLERS LET B-A AND WINEGARD HELP YOU SPECIFY EQUIPMENT **REQUIRED. WRITE TO B-A'S INDUSTRIAL DEPARTMENT.** 





BC-782

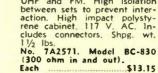
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BASIC

WIRING

LAYOUTS

0000



Each \$13.15 No. 7A2572. Model BC-870 No. 7A2572. Model (75 ohm in and out). \$14.20

Divides and amplifies signals from a single antenna installa-tion to operate two TV sets or wall outlets. Perfect for color or black and white on VHF, UHF and FM. High isolation

#### WINEGARD MULTIPLE ANTENNA COUPLERS MOUNTS ON ANTENNA **JOINS 2 ANTENNAS** TO SINGLE 300 **OHM LEAD**

SIGNAL DOUBLER. Combines signals of any two identical antennas pointed in the same direction and doubles the power output. Also couples any two antennas to single downlead regardless of direction antennas are pointed. Provides trouble-free, rotorless installation. (If VHF and UHF antennas are combined, use CS-285 band separator shown below.) 300 ohm input and output. Weatherproof housing with mast clamp, Wt. 1 lb. Mfg. List \$5.95. No 7A2503. Model SD-33. \$4.23 Each

SOLID STATE, 82 CHANNEL 2-SET BOOSTER/COUPLER

\$4.60 No. 7A2578. Model SD-37 (300 Ohm in, 75 Ohm out). Each. 

No. Each \$7.26

WINEGARD 300 OHM VHF-UHF BAND SEPARATOR Use with any antenna downlead carrying both VHF and UHF signals to divide signals to separate input terminals on TV set. 300 ohm input and outputs. Wt. 1 lb. Mfg. list \$2.95. \$1.98 
 Wit
 T 10.
 Witg. 181 \$2.75.
 \$1.98

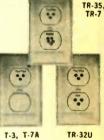
 No.
 7A2504.
 Model CS-285.
 Each
 \$3.28

 No.
 7A2508.
 Model CS-175.
 (75 ohm in, 300 ohm out).
 Each
 \$3.28

 No.
 7A2574.
 Model CS-775
 (Separate 75 ohm inputs for VHF and UHF antennas and single 75 ohm out).
 Each
 \$5.25

#### 82-CHANNEL TV/FM FLUSH WALL OUTLETS

Finest molded construction for long-lasting serv-ice. Flush Wall Plate Types, for hidden wiring, use the modern Despard electrical outlet plates matching perfectly the design, appearance and 'no-st



or one on each

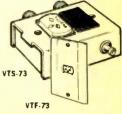
|          |              | couplet, outlet to set is set | 1            | F      |
|----------|--------------|-------------------------------|--------------|--------|
| Stk. No. | Winegard No. | Designed For                  | Input Wiring | Each   |
| 7A2529   | T-3          | One TV-FM Set                 | 300 Ohm Lead | \$1.62 |
| 7A2521   | T-7A         | One TV-FM Set                 | 75 Ohm Cable | 2.60   |
| 7A2522   | TR-35        | One TV-FM & 5-Wire Rotor      | 300 Ohm Lead | 2.60   |
| 7A2530   | TR-7         | One TV-FM & 5-Wire Rotor      | 75 Ohm Cable | 2.77   |
|          |              | One VHF, One UHF G            | 200 01 1. 1  |        |
| 7A2523   | TR-32U       | 5-Wire Rotor                  | 300 Ohm Lead | 3.50   |

### 82-CHANNEL COAX LINE

#### **TAPOFFS** WITH VARIABLE ISOLATION

For use with any 75 ohm coax line system. "Feed thru" type 75 ohm coaxial cable runs from tap-off to tap-off. A "wiper" arm adjustment at front of tap-off allows isolation to be varied from 10 to 25 db to balance amount of signal received at each set. No interaction between sets. Terminator should be used on last tap-off on feeder line. Outlet to set is 300 ohms, plug provided. Ivory color. Shpg. wt. 8 ozs.

| Stk. No. | Winegard No.  | Designer For                     |
|----------|---------------|----------------------------------|
| 7A2524   | VTF-73        | One TV-FM Set, Flush Mt.         |
| 7A2525   | VTS-73        | One TV-FM Set, Surface Mt.       |
| 7A202    | P-59TB        | Terminator for last tapoff       |
| No. 74   | 2577. F-59TB. | Terminator for last tapoff. Eacl |



Input Wiring

75 Ohm 75 Ohm

.78c 207

Net

Each \$3.28 3.28 .78



CS-175

color o installe

boxes

### ohms are b 6 ozs.

Use only one on the lead direct from the antenna or booster, or one on lead from a multiple set coupler. Outlet to set is 300 ohms. Ivory color.

| ing perfectly the design, appearance and   |   |
|--------------------------------------------|---|
| of AC outlets and switches being installed |   |
| dern homes. All flush wall plates can be   |   |
| ed with or without standard electrical     |   |
| All types are complete with matching       |   |
| trip" molded plugs, Outlet to set is 300   | - |
| for all types. Necessary matching circuits |   |
| uilt into each outlet. Average shpg. wt.   | T |
|                                            |   |
|                                            |   |





No. 7A2592, Special Each

## ANTENNA INSTALLATION ACCESSORIES

|                            | EAD-IN IN                                                                     | SULATO                     | 25                              |                     |                               |                              |
|----------------------------|-------------------------------------------------------------------------------|----------------------------|---------------------------------|---------------------|-------------------------------|------------------------------|
|                            | 1 WO                                                                          | DD SCREW                   | TYPE                            |                     |                               |                              |
| Stk. No.<br>7A214<br>7A215 | Type Insert<br>For Flot Line<br>Flat or Tubular                               | Length 1<br>31/2"<br>31/2" | 5c 2                            | For<br>OC<br>OC     | 100 For<br>\$3.02<br>3.02     | 0                            |
|                            | 2 STRA                                                                        | -ON MAS                    | T TYPE                          |                     |                               | No.                          |
| Stk. No.<br>7A216<br>7A217 | Type Insert<br>For Flat Line<br>Flat or Tubular                               |                            | 20c                             | For<br>0.75<br>1.09 | 100 For<br>\$12.09<br>\$16.54 |                              |
|                            | LOW LOSS-NO                                                                   |                            |                                 |                     |                               | 2                            |
| or round l                 | cially for Belden<br>y oval or tubular<br>ead. Insulator loc<br>DD SCREW TYPE | types; work<br>ks on.      | d Permoh<br>s with ar           | ny type             | flat, oval                    | 1ª                           |
|                            | 31/2" 15c 6                                                                   | 9c 7A                      | No. Lgt<br>235 31/2<br>236 71/2 |                     | c 72c                         | " & 9                        |
|                            | SPRING TI                                                                     | PE ROTA                    | TOR ST                          | ANDOF               | F INSUL                       | ATOR                         |
| 0                          |                                                                               |                            |                                 |                     |                               | failure. Pipe                |
| E                          |                                                                               |                            |                                 |                     | -                             | Length 13".                  |
|                            |                                                                               |                            | NO. 7                           |                     |                               |                              |
|                            | MOSLEY                                                                        | TV LE                      | AD-IN                           | INSU                | LATOR                         | IS .                         |
| 1                          |                                                                               | 2                          | 3                               | 1-1-                | 99                            |                              |
|                            |                                                                               | P                          | S                               |                     |                               |                              |
|                            | RSAL ROOF-THE                                                                 | RU/WALL-T                  | HRU. Ve                         | rsatile a           | ntenna an<br>heavy and        | d rotor lead-<br>regular 300 |

#### FLAT 300 OHM LINE CONNECTORS 4 5 2 3 Stock No. 10 For \$2.79 2.25 2.70 Net Ea. \$.31 Mosley No. 301 311 304 Description Description Line Plug—Mates with Fig. 2 Socket Line Socket—Mates with Fig. 1 Plug Terminal Adapter—Mates with Fig. 2 Joins 300 ohm lead. Solderless Joins tubular to flat 300 ohm lead 7A221 7A222 7A223 7A233 .25 .30 .17 .21 .53 275 295 3-WAY ANTENNA OR SPEAKER SWITCH Double pole, 3 positions. For 300 ohm antenna leads, speakers, etc. Screw terminals. No. 7A2549. Mosly F-20. Ivory. Net Each ...... \$4.67 TV ANTENNA COUPLING TRANSFORMERS Improves TV reception by permitting use of 72 ohm or 52 ohm cooxial lead from antenna to TV set. Greatly reduces ghost and noise pickup. System requires two transformers, one at antenna, other at set No 13A5041 Type 6161. 52/300 or 300/52 Ohms. Each. . \$2.04 No 13A5042 Type 6162. 72/300 or 300/72 Ohms. Each. . \$2.04 HANDY TV ANTENNA CONNECTORS Mighty handy. Makes connecting and disconnecting 300 ohm lead from TV set quick and easy. Snaps anto an-tenna terminals of set. Shpg. wt. 1 oz. No. 7A242. **19C** Net Each...**15C** Eoch, 10 Lots NIZED STEEL GUY WIRE RANDED GALV Highest quality, full gauge steel wire, heavily galvanized to prevent rust and corrosion. Specially coiled to minimize kinking and tangling. Approximate breaking strength: 4 strand No. 20, 240 lbs.; 6 strand No. 20, 350 lbs.; 6 strand No. 18, 640 lbs. Approx. shg. wts. from 13 to 33 lbs. per 1000 ft. 50-FT. CONNECTED COILS



|          | GUY    | WIR     | EON   | SPOOLS    |        | 5        |
|----------|--------|---------|-------|-----------|--------|----------|
| Stk. No. | Des    | criptio | on    | Length    | Spool  | Stk. No. |
| 2B148    | 6 stra | nds No  | o. 20 | 1000/     | \$7.38 | 2A6022   |
| 28149    | 6 stra | nds No  | 0. 18 | 500/      | 5.70   | 2A6030   |
| Simolifi | oc har | ndling  | and   | measuring |        | 2A6D23   |

#### GALVANIZED HEAVY DUTY GUY CABLE

Description 4 strands No. 20 6 strands No. 20 6 strands Nn. 18

Coil 10 Colls 33c \$3.00 45c 4.10 \$3.00 4.10 5.20

60c

| ¾6" high strength 7                         | stranded stee | el. Rated | 2,850 | Ibs. | breaking. |
|---------------------------------------------|---------------|-----------|-------|------|-----------|
| Wt. 68 lbs. per 1000<br>No. 2A6031, 100 Ft. | \$5.70 100    | Ft. For   |       |      | \$40.00   |

| HIGHEST QUALITY | ANTENNA<br>3 | MOUNTS   |
|-----------------|--------------|----------|
|                 |              | Snaps-In |
|                 |              |          |
|                 | Re           |          |
|                 | G            |          |

|            |              | V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                               |                |             | -          |
|------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------|-------------|------------|
|            | T ROHN 2     | 5G GALVANIZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | E0 121/2" TRIA                                | NGULAR TOWE    | R SECTIONS  |            |
| Will stand | 15 feet a    | have house                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | bracket withou                                | it guys, 200   | ft, max, w  | hen guyeo. |
| Hot dioood | a alvanizo   | d seamless                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11/4" heavy                                   | wall uprights. | 8 precisi   | on welded  |
| not dipped | gaivanize    | o seamicas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | double bolted                                 | section inint  | \$          |            |
| zig-zag ur | aces per it  | J IL. SECTION,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | n. Rohn 25G. 4                                | O Ibc Not Fa   | ch          | \$19.00    |
| NO. 78851  | 1. 10 Pt. St | raight Sectio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | n, Konn 256. 4                                | Ibs Not Eco    | b.          | \$20.00    |
| No. 788512 | 2. 9 Ft. Top | Section for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 11/4" Mast. 31                                | IDS. NEL Edu   | 01/11       | holo       |
| No. 7A8513 | 3. 8 Ft. Ama | teur Top Sec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | tion. 11" dia, f                              | lat top plate, | Z44" center | \$24.00    |
|            |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                |             |            |
| 749500.    | Ground Ba    | se & 3.4 Ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Drive Rods. 1                                 | 8 lbs, Per Set |             | \$11.10    |
|            |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                |             |            |
| 719502     | House Bra    | acket 15" to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 24". Rohn Hi                                  | 3258G. 10 lbs  | Net Ea      | \$5.75     |
| 740502     | Cur Basek    | of with 2 To                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | rque Bars. 9 I                                | hs Set         |             | \$10.35    |
| () 7A9503. | Guy brack    | et with 5 to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | side tower, 3                                 | he Net Fach    |             | \$2.80     |
| S /A9504.  | Rotor Pos    | t. Mounts m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | side tower, 3 i                               | US. NET LACIT. | 5 lbc Ea    | 50.50      |
| 7A9505.    | , Rotor Plat | te. AS-25G. F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | or Ham "M"                                    | inside tower.  | 5 105, Ld   | \$9.0U     |
|            |              | ROHN GAL     G | VANIZED TELE                                  | SCOPING MASI   | 3           | Inco hat   |
| Heavy 17   | gauge. Has   | s mast brake                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | for simpler                                   | nstallations.  | sections 10 | long not-  |
| diagond ma | lunnited int | fuo hac obi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | With duy ring                                 | 6              |             |            |
| Stk N      | lo H         | eight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tubing Size<br>1/2" to 11/4"<br>3/4" to 11/4" | Wt. Lbs.       | Net Ea. 6   | Lots, Ea.  |
| 74850      | 1 20         | n Et 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1/2" to 11/4"                                 | 15             | \$8.35      | \$7.93     |
| 74030      | 2 2          | 0 5+ 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3/4// 10 11/4//                               | 24             | 12 75       | 12.11      |
| / A030     | 1Z 31        | UPL I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 74 10 1 74                                    | 67             |             | 10 00      |

|                                                                        | 4.11   |
|------------------------------------------------------------------------|--------|
| 748503 40 Ft 2" to 11/4" 34 17.75                                      | 6.86   |
| 7A8503 40 Ft. 2" to 1¼" 34 17.75<br>7A8504 50 Ft. 214" to 1¼" 48 23.60 | 2.42   |
| () 7A203. Universal Base. All-angle, rotatable. 2 lbs. Net Each        | \$1.10 |
| (7) 7A203. Universal base. All-angle, Totatable, 2103. the Net Fach    | £1 05  |
| @ 7A204. Ground Mount. Handy drive-in type. 31/2 lbs. Net Each         | 31.33  |
| 174205 Side Mount Clamp 11/4" thru 21/2" O.D. Net Lach                 | \$1.90 |
| STEEL MASTS—self coupling, stacking,                                   |        |
| 7A8505, 10 ft. x 11/4". Hot-dip galv. steel, 7 lbs. Ea \$2.35 10 @ Ea  | \$2.23 |
| 748516. 5 ft. x 11/4". 18 Ga. Galv. Steel. 3 lbs. Each\$1.20 10, Ea    |        |
|                                                                        |        |
| (1) 7A206. All-Angle Base, Galv. steel, 11/2 lbs. Ea                   | /1     |
| 7A207, Univ. Roof Mount, Galy, steel, 11/2 lbs, Ea 1.55 12 @ Ea        | 1.47   |
| NO.CUY POOF MOUNT With 4 Ft Galvanized Steel 14/4" Mast                |        |
| 7A8510. Hot dip galvanized steel. Wt. 3 lbs. Ea.                       | \$3.30 |
| (B) CLOSE WALL MDUNT. 4" clearance. Mounts masts to 13/4" dia.         |        |
| TABLE TILL MOUNT, 4 Creating, Mounts instance in A                     | 85c    |
| 7A228. Zinc plated steel, 1 lb. Per Pr 89C 10 Pr. Ea.                  |        |
| 18 HOUSE PEAK MOUNT, 30" long. For masts to 1 44" dia.                 | 84.38  |
| 7A226. Zinc plated steel. 4 lbs. Per Pr\$4.61 10 Pr. Ea.               | \$4.30 |
| CALINERSS STEEL STRAP CHIMNEY MOUNT. 12' 1008 STRAPS.                  |        |
| 7A227, 4 lbs Per Pr. \$4.46 10 Pr. Ea                                  | \$4.24 |
| ( RDHN TRIANGULAR ROOF MOUNTS                                          |        |
| Hat disped columnized tubular steel Takes masts to 13/1"               |        |
| No, 7A9506, 3 Ft, Type TRT36, Wt, 8 lbs. Net Each                      | \$5.75 |
|                                                                        |        |

| No. 7A9507, 5 Ft. Type TRT60. Wt. 11 Ibs. Net Each \$9.0 | No. 7A9506. | 3 Ft. | Type TRT36.<br>Type TRT60. | Wt. | 8 lbs.<br>11 lbs. | Net Each\$5.75<br>Net Each\$9.00 |
|----------------------------------------------------------|-------------|-------|----------------------------|-----|-------------------|----------------------------------|
|----------------------------------------------------------|-------------|-------|----------------------------|-----|-------------------|----------------------------------|

| GUYING ACCESSORIES                    | 5                                                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------|
|                                       |                                                                                                               |
| (1) No. 7A238. 4"X%" TURNBUCKLE. Each | 74C 10 For 6.99<br>6C, 10 For .40<br>35C, 10 For 3.20<br>35C, 10 For 3.20<br>9C. 10 For .81<br>12C 10 For .10 |
|                                       |                                                                                                               |

| 9 | SCREW-IN EARTH                                                | ANCHOR         | FOR G                 | UYS        |
|---|---------------------------------------------------------------|----------------|-----------------------|------------|
|   | Very easy to install. Literally conform with pull of the guy. | screws into an | ound at ar            | n angle to |
| 1 | soil. Rods are 48" long, have 1                               | /2" eye.       |                       |            |
| n |                                                               |                | Wt. Eac<br>Ibs. \$2.9 |            |
| V |                                                               |                | 1bs. 3.               |            |

## **HIGH PERFORMANCE AUTO ACCESSORIES**

EASY

INSTALL



Doubles plug and point life.
Instant starting everytime.
Like a permanent tune-up.
Higher top speeds.
Obsoletes every conventional ignition system on the market. For car, truck, bus, boat, tractors and industrial engines. The Judson electronic magneto is a complete and integrated system that assures dependable and positive ignition on any engine under all conditions. The Judson ignition system gives increased output as engine speed increases, produces fire-power at the plug to match the ignition requirements of the engine. Because the transistor takes load off of the points, it makes the engine easier to start even in sub coil to Judson Electronic Magneto and connect one additional wire to ground.
Size 7/yz31/2", completely sealed, waterproof, corrosion-proof. Provides positive ground.
\$39,88 \$39.88 No. 47A5510. Shpg. wt. 31/2 lbs. Net Each.

THE FABULOUS MARK-10 CAPACITIVE DISCHARGE IGNITION SYSTEM OPERATE CAR BOAT, OR TRUCK, MORE EFFICIENTLY

Increases acceleration and general performance. Incorporates advantages of capacitive discharge with those of solid state electronics. Spark plugs last 3 to 10 times longer. Instant starts in all weather. Installs in less than 10 minutes directly to a standard ignition system with no rewiring. Shpg. Wt. 4 lbs.

4 IDS. No. 47A5511. Mark 10 Kit, Each No. 47A5512. Mark 10 Factory Assembled, Each





539.95

AN EXCLUSIVE COMPUTER-TACHOMETER FOR PRECISE RPM MEASUREMENT

0-8000 RPM RANGE

DELTA

Works with any ignition system on all 2, 3, 4 and 6 cylinder 2 cycle—All 4, 6, 8 cylinder 4 cycle 12 volt engines. Designed to be the finest engine speed indicator available at any price. Accuracy limits  $\pm 2\%$  of full scale over 30° F to 110° F and 12 V. DC to 15 V. DC range. Uses wide angle sweep alcraft quality instrument in chrome plated die-cast housing with all-angle ball and socket mounting. Size 3%" dia, 3%" long. As-sembles in extruded aluminum case 3%" x 23%" x 13%" H. Wt. 3 ibs. With easy-to-build instruc-tions. tions \$29.95

No. 47A5522. Net Each.....



### IDI MODEL 657 LARGE 6" D'ARSONVAL DOUBLE JEWELED METER

Performs 15 authoritative tests under actual operating conditions: Measure dwell or cam angle. Measure engine speed. Adjust carburetor, Adjust points. Check condensers. Check coil resistance. Measure carbon spark plug cables. Check shorts and opens in wiring. Check all lamps, fuses, relays and switches. Meter ranges 0-3.2, 0-16, 0-32 volts DC. Setting of distributor points and test of centritugal advance mechanism on three scales 0-45°, 0-60° and 0-90°. Setting of air/fuel mixture and engine RPM on four scales 0-1200, 0-2400, 0-60C0 and 0-12000 RPM. Measures amps from -5 to +90. Resistance from 0-100000 o, ms. High voltage coil and spark test from 0-30,000 volts. Operates on single "D" cell battery. In rugged baked enamel steel case with rear storage compartment to hold 51/2' leads, clamps and connectors. Size 12" x 61/2" x 6". With detailed information on auto makes and models. Shpg. wt. 6 lbs. No. 47A5537. Each \$49.95 No. 47A5537. Each

MODEL 9 POWER TIMING LIGHT

Delivers brilliont white light, powered from 110 AC outlet. Permits per-fect alignment of timing mork and pointer. No vibrator or moving parts to wear out. Works on ali 6-12 or 24 volt system.

Hondsome plostic cose, pistol grip design with trigger switch. No. 47A5525. Net Each .... \$15.95

#### **2 INCH TACHOMETER** BEST TACHOMETER VALUE WE'VE SEEN!

Deluxe features to equal or surpass factory installed equipment, 270° scale, electric, transistorized and Illuminated. Zener regulated. Cuaranteed accuracy  $\pm$  3%. For 4, 6 or 8 cylinder engines negative or positive ground. Black and chrome housing. Precision import. \$19.95



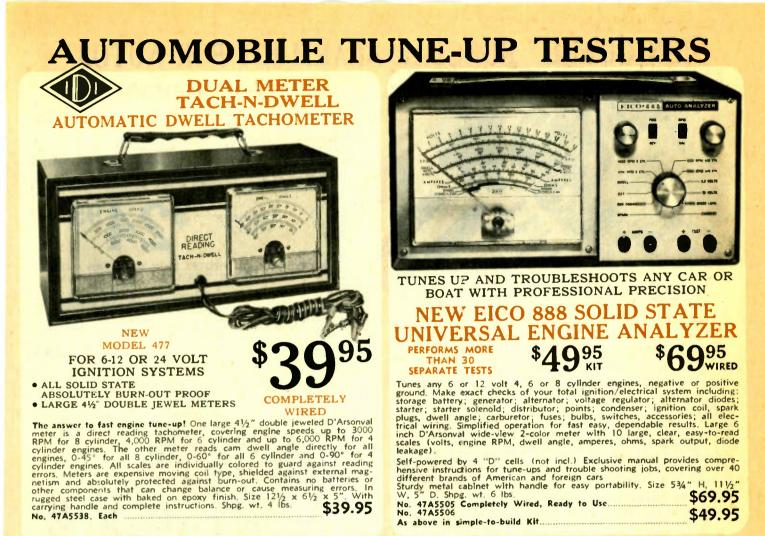
### 1 CLAMF-ON STARTER-GENERATOR CURRENT INDICATOR NEWLY STYLED TESTER WITH BUILT-ON CLAMP CONNECTOR

Simple to use, no need to disconnect wires! You get accurate ampere readings by simply clamping meter over the cable. Color coded scale reads 400-0-400 amps for starters, 60-0-60 amperes for generators. With instructions. Wt. 1/2 Ib. amps \$2.95 No. 47A5515. Model 61. Net Each ....

**2 COMPRESSION TESTER** 

#### 3 MOTOR GUIDE-VACUUM FUEL PUMP TESTER

Tests the engine fuel pump and vacuum system. Determines condition of valve springs, shows a choked muffler or leaky manifold. Also tests all other vacuum operated devices on car.  $2\frac{1}{2}$ " dial has 4 color zones for easy reading. Reads 0-30 vacuum, with mtg. bracket and instructions. Wt. 1 lb. No. 47A5523. \$3.95 Model 47. Each





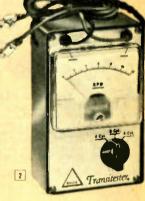
TROUBLE SHOOT 8 OR 6 CYLINDER ENGINES LIKE THE PROFESSIONALS Drivers waste hundreds of dollars per year operating their engines way below peak efficiency. With this well designed direct reading instrument you can do your own engine tune-up easily. Operates on 6, 12 or 24 volt systems regular, transistor or magneto ignition on both 2 and 4 cycle en-gines. Large burn-out proof 31/2" double jeweled D'arsonval meter is directly calibrated in degrees dwell angle and RPM. In hard bakelite case. Size: 61/4"X33/4"X2". Wt. 2 lbs. \$21.05 \$21.95



WITH DELTA'S TRANSITESTERS

BE YOUR OWN MECHANIC





#### **1** TUNE-UP DWELL METER

- Portable, high-impact case for rugged work. Large, casy-to-read 31/2" precision jeweled meter. Wide scale—reads dwell angles in degrees.

· All solid state.

A universal precision instrument for use in tuning all vehicles, regardless of number of cylinders or battery polarity. Gives correct point dwell readings on vehicles equipped with capacitive discharge, transistor or conventional lightion. Precision accuracy at low cost. Shog. wt. 3 lbs. \$12.95 No. 47A5503. Model D-1000. Each.

- **TUNE-UP TACHOMETER** Large, easy-to-read 31/2" precision jeweled meter. Portable, high-impact case for rugged work. Range: 0 to 1200 RPM. All solid state.

## "ON GUARD" BURGLAR ALARM KIT FOR AUTOS

### **STOP THIEF!**









TRUNKS SIMPLE TO INSTALL EASY DO-IT-YOURSELF KIT **PROFESSIONAL SIREN ALARM SYSTEM** 



# 95

### GIVES FOOLPROOF PROTECTION 24 HOURS A DAY... FOR CARS, WAGONS, TRAILERS, TRUCKS & VANS

Loud, piercing siren instantly blasts when door is opened, hood lifted, or trunk door raised. Siren can be wired even to go off when emergency brake is released! Stays on till reset by the switch of the pick-proof lock. Siren is made of highly polished die-cast metal and spun aluminum. Size 634" high, 5" dla. Comes with relay switch unit, six alarm switches, flat key switch, wire, fuse. Full instructions for do-it-yourself installation. For 12 V. DC only. Mfg. List \$44.95. \$24.95 No. 47A5518. Shpg. wt. 6 lbs. Net Each ......

TOP PERFORMING RADAR DETECTOR



### MAKES YOU A SAFE DRIVER HELPS GUARD AGAINST UNINTEN-TIONAL SPEEDING \$4495

#### THE NEW MUTRONIC **RADAR DETECTOR**

A professional high quality transistorized unit that clips on the visor of your car and emits a "beep" signal when you approach a radar checked speed zone. Sounds warning signal as much as two miles ahead, depending on terrain, even before car speed can be radar measured. Emits no sound outside radar zone. Designed for standard x-band 10,525 MHz police radar signals. In handsome black finished extruded aluminum case.  $31/2^{\circ}$  W. x  $33/4^{\circ}$  D. x  $11/2^{\circ}$  H. Two penlight batteries supply power unit for thousands of driving miles. Use may be controlled by local or state law. \$44.95



The car sounds the alarm with its own howing horn—a big money-saving feature! Otherwise offers the same protection as the siren system above. When horn sounds, flashing interior car lights direct attention to car. Comes with everything you need for easy installation in any vehicle including two relay switch units, horn light flasher, six alarm activator switches, flat tum-bler key lock and wire. Shpg. wt. 2 lbs. Mfg. List \$25.00. No. 47A5519. Model HX-33F. Net Each \$7.95



Tampering with protected accessory

Tampering with protected accessory sounds auto horn continuously ... also can be connected to sound existing alarm system. Easy to install device protects tape player, radio, tachometer and other costly optional equipment. Small sensor unit closes electrical alarm circuit when accessory is disturbed. Provided with hidden disabling switch to prevent unwanted opera-tion. Spng. wt. 4 oz. Ma 47.6540. Nos East \$3.95 No. 47A5540. Net Each



#### **BUSS TIME-DELAY AUTO** PROTECTOR STOPS CAR THIEF

| Fools thief — lets him drive away<br>— then stops motor cold! Motor |
|---------------------------------------------------------------------|
| cannot be restarted until hidden                                    |
| switch is operated by owner of car.<br>Wt. 4 ozs. Mfg. List \$4.98. |
| No. 47A5521. \$3.50<br>Net Each                                     |
|                                                                     |
| Spare Fuse Refills For Auto Pro-<br>tector.                         |
| No. 12A8081. Box of 5. MDL 1 6/10                                   |
| Bus Fusetron. \$1.15                                                |

117 V. AC POWER IN YOUR CAR!



Highly efficient, fully transistorized. Plugs into cigarette lighter receptacle, supplies 117 volts AC power at 125 watts continuous duty (up to 150 watts intermittent), from 12 V. battery. Operate equipment requiring 10 to 125 watts including dictating machines, transceivers, small motors, test instruments, soldering irons and lights. Size  $51/4\times5\times31/4^{\prime\prime}$  H. \$37.80



Efficient, 2-transistor design. Charges at full 6 amp rate. Ammeter shows charging rate ond condition of bat-tery. Automotic reset circuit breaker. Taper type charge, automatically re-duces charging rate. Switch for 6, 8 or 12 volts. 31/2 x 41/2 x 5". For 115-120 V. AC. 5-year guarantee (return to factory for repair, only \$1.00 for handling). Wt. 6 lbs. 13A8011. Model BC2. **\$22.87** \$22.87 Reody to use.



Fits 6 or 12 V. auto lighter, 32 inch leads and lugs.

Use for emergency lights, CB equip-ment, recorders, TV, 100's of other uses.

Quality Import. Wt. 2 ozs. 69c No. 47A5517. Each.....

# LIFTMASTER\* ELECTRONIC GARAGE DOOR OPERATOR



Impor \$1.39 No. 47A5513, Each



\$2.49 No. 47A5514. Each No. 21A1. "D" Cell. Each 17.

Operates from lighter outlet of 12 V. auto. Rubber suction cup adheres to any smooth surface. 6" high. 16 ft. cord. With spare bulb. Wt. 2 lbs. No. 47A5520. No. \$5.95 Import Value



### \$**9**95

## INDOOR-OUTDOOR THERMOMETER AND HUMIDITY METER

Three precise instruments ac-curately report outdoor as well as indoor weather conditions. Richly wood grained frame, enhanced by beautiful, deep lustre of hand-rubbed finish. Metal scale and dial are exe-cuted with micrometer preci-sion. 14" L. with 48" cable for outdoor temperature. Wt. 3 lbs. No 47A2001. No 47A2001 \$9.95 Each

### \$**9**95

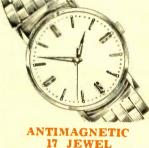
### HANDSOME WEATHER INSTRUMENT TRIO

TRIO 1000's already sold to BA's satis-fied customers! Fine quality American made Thermometer, Barometer and Humidity Meter on woodgrained panel 15½"x534". Calibration adjustment on back of each instrument allows for greater accuracy than most others. Mounts vertically or horizontally. Brass metallized instruments re-tain lustre. Wt. 2 lbs. No. 47A2002. Each \$9.95 \$9.95 Each



#### 4-TRANSISTOR HEARING AID

AID Fine quality instrument puts good hearing within reach of everyonel Lightweight, only 3x2x3,". Oper-ates on one penlight battery in-cluded. Skin-toned earpiece with 3 sizes of ear inserts included. Provides wide range, clear sound. Instantly adjustable to user's spe-cial needs. Has telephone switch. Satisfaction guaranteed or money back if returned within 15 days of purchase. with Battery, \$29.95 47A301. Wt. 1 lb. Each...



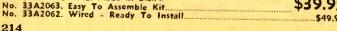
### WRISTWATCH

Stainless steel! 3-yr. warranty against band breakage. 100% waterproof if case, crown, crys-tal intact. 17 jewel Incabloc shockproof movement in dust-free, molsture-free case. B-A guaranteed for life of original purchaser subject to specified preventative maintenance and excluding accident or negli-gence. Wt. 8 ozs. \$19.95

### **SEE YOUR FAVORITE MUSIC IN CHANGING COLORS**



Solid state color viewer for high fidelity ... to "View" your music while you listen! Beautiful colors and intensity change with the frequency and volume of music. Connects quickly to speaker output of any radio, hi-fi, recorder or guitar amplifier. Three color sensitivity controls to adjust for maximum performance with any amplifier output wattage. Does not affect sound quality.



### 1495

#### DECORATOR STYLED WEATHER STATION

Three fine instruments...Ther-mometer. Barometer and Hu-midity Meter constructed with the skill of experienced crafts-men. Instruments have the warm glow of polished brass. Richly wood grained panel is enhanced by hand-rubbed fin-ish. Mount vertically or hori-zontally. 20" long. Wt. 6 lbs. No 47A2000. \$14.95 \$14.95 Each



### NEW

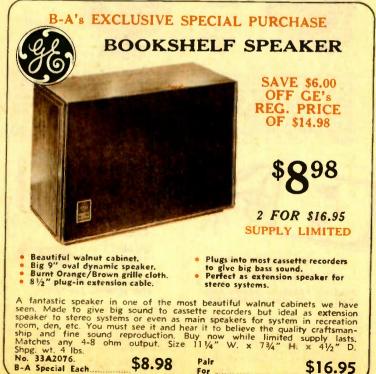
#### MEDITERRANEAN CLOC WEATHER STATION

Combination cordless battery clock, thermometer, humidity meter and barometer.



#### **DeJur 1/10 SECOND** STOP WATCH

Precision 7-jewel movement. "Time-out" allows stop-start w/o reset. 2 RPM sweep second hand. Black outer numerals read 0-30 sec. red inner numerals 0-60 sec. Small recorder dial totals to 15 min. Start-stop crown button. Lifetime unbreakable mainspring. 1-year guarantee on materials and workmanship. 47A303. Wt. 8 ozs. Each. \$14.95



SELF-WINDING ... COMPLETELY AUTOMATIC! NO BATTERIES TO REPLACE EVER!

# **TECH-QUANAUT** TIMEPIECE

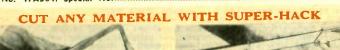


- Calendar Gives Date Changes Automatically Each Day.
- Shock Resistant Water Proof to 600 Foot Depth.

FEATURES

· Has Sweep Second Hand.

An outstanding time piece for the scientist, electronic technician, sportsman, etc. This watch is especially constructed with all stainless steel case. Crown is protected from bumps and scrapes. This special crown screws down and locks insuring complete and long lasting protection. Waterproof (guaranteed as long as crystal, crown, button, and case remain intact in their original conditions) to 600 feet of depth. The movement is a fine 17-jewel Swiss unit, giant easy-to-read dial glows in total darkness. Moveable top dial enables simple recording of time lapse for a multiple of timing situations. Permits you to calculate time anywhere in the world. Special crystal has built-in magnifier for the calendar date window. Watch band is molded waterproof extra heavy vinyl. Exceptional guarantee is spelled out and in-cluded with watch. Shpg. wt. 1 lb. No. 47A304, Special Nct. No. 47A304. Special Net...





In less than two minutes you can rip thru the hardest piece of metal (such as a FILE!). This amazing tungsten — carbide saw will make curves, notches, straight cuts in materials formerly considered to be unsawable! You can cut glass, glazed tile, bricks, tool steel, marble, and with very little effort. Famous cousin of diamond, the furnace-made tungsten carbide now joins the saw blade (a DuPont development) and you have this miracle blade. Fits any hacksaw. No. 37A898. \$1.95 12 Lots \$1.50



| painted over.                                            |                        |
|----------------------------------------------------------|------------------------|
| Use on TV towers, pipes, fences, tools, tanks, cranes, t | trucks, all machinery. |
| Removes gun blue and is ideal for rust removal from al   | weapons. Coverage:     |
| Naval jelly will remove rust at the rate of 80 to 200 sc | quare feet per gallon, |
| depending upon thickness and condition of the rust.      | \$1.49                 |
| No. 17A1384, 8 oz. Introductory Bottle. Each             |                        |
| No. 17A1385. 2 lbs. Net Each                             | \$3.95                 |
| No. 17A1386. 4 lbs. Net Each                             |                        |
| No. 17A1388, 40 lbs. Net Each                            |                        |
| No. 17A1389, 55 gal. drum. Net Each                      |                        |
| No. ITAISoy. 33 gai. arum. Net Each                      |                        |
| No. TANISON. 33 Bal. arann. Her Eden                     |                        |



An ultra-sensitive audio-detection unit designed to pick up and amplify even the most remote sound as far away as 200 ft. clearly and distinctly. Re-flector size, 18" dia. Height on tripod 42". Comes with mike amp. and stethoscope earphones. Requires 9 V. battery. Wt. 10 lbs. Imported. No. 49A214. \$14.95 \$14.95

Each No. 21B141. Battery for above. Ea. 48c WIRELESS FM BROADCASTER

Plugs into Phone Jack on "Big Ear". Broadcasts Big Ear sound up to 50 ft. using FM radio for listening. Re-quires battery below. Import. No. 20A1212. \$12.95 \$12.95 Each No. 21A5009. Battery for above. 430 Each



TINY EYEGLASS RADIO Now ... a fine quality miniature personal radio that weighs just one ounce! Only .234" long! Unique de-sign clips securely to eyeglass or sun-glass frame. Wear it wherever you go, whatever you do ... while fishing, bicycling, sun bathing, watching the games, or just relaxing. Earplug guar-antees privacy. Tiny electronics uses 5 silicon transistors in a high gain re-generative circuit. Has super conduc-tive magnetic ferrite antenna. Tunes standard broadcasts 550 to 1600 KHz. Less batterles. No, 20A1214. Imported. €12 QE

No. 20A1214. Imported. \$12.95 Special Each No. 21A5008. Battery for above (requires 2). Each ..... 

# NOW ENJOY FM RADIO IN YOUR CAR



- · Play Through Your Present AM Radio
- Has Local-Distance Switch •
- Slide Rule Tuning

Full Time AFC For Drift-Free Reception

Beautifully styled. Easily installed under dash, on top of dash or console. Requires no alteration of AM car radio. Splitter box included with converter. Permits use of AM auto antenna for both AM and FM reception. Unit is switchable so it may be used with 12 V. positive or negative ground systems. Conforms to auto safety regulations. Simply tune AM radio to 1580 KC. FM tuner then tunes from 88 to 108 mc. Complete with mounting bracket. Special fastener pad for top-of-dash or console mounting, antenna and bat-tery patch cords. Weighs only 34 lbs. Shpg. wt. 2 lbs. Fach



# MULTIPLEX SYSTEM

\$**59**<sup>95</sup>

\$29<sup>95</sup>

Now you can have true stereo sound wherever you go. Unit closes up to easy to carry portable only  $8\frac{1}{4}$ " x  $10\frac{1}{2}$ " x  $5\frac{3}{4}$ ". Open it up, detach the big sound  $3\frac{1}{2}$ " speakers and you have a full multiplexed stereo radio. Oper-ates on 4 self-contained "D" cells or plugs into any 115 V. AC. outlet. Has separate controls for tone, volume, and stereo balance. Features horizontal slide rule tuning. Stereo indicator light. Built-in ferrite AM antenna plus telescoping swivel FM antenna. Built-in automatic gain control. Beautiful black and chrome. Shpg. wt. 8 lbs. No. 36A3518. BA's Special Price. No. 21A38. "D" Cells for above. Net Each.



#### **B-A's ROLLAMATIC MEMO PAD**

Best home and office memo pad ever devised! Molded white plastic frame holds 3%," wide x 75 ft. long memo roll. Provides flat, smooth writing surface and a handy, ever-present ball point pen for jotting down important messages. Ball pen uses standard re-placeable writing element. Has letter opener edge and inch/milliameter markings. Wt. 1 bb. No. 47A7507. With 3-In-One Pen,

| Letter Opener/Ruler and<br>Roll         | 75 ft. Paper |  |
|-----------------------------------------|--------------|--|
| Each                                    | \$1.98       |  |
| No. 47A7508. Rollamatic<br>fills. 3 For | Paper Re-    |  |



#### PANASONIC CUTLASS AUTOMATIC ELECTRIC PENCIL SHARPENER

Completely automatic ... simply in-sert pencil and sharpener starts, ex-clusive "electronic light" flashes when point is sharp. Tungsten high-speed steel cutter. Slide-out tray for shavings, non-slip suction cup feet.

INTERNATIONALLY FAMOUS brother.

PORTABLE

TYPEWRITER

2

# brother ELECTRIC

ADDING MACHINE

STEPS UP SPEEDS OF ALL OPERATIONS

DIE-CAST CONSTRUCTION

**N**95

B-A's LOW PRICE ...

An ultra-modern compact electric adding machine. Precision built, using all-metal die cast construction. Lists to 7 columns, totals 8 (99, 999, 999). Full 10-key keyboard allows you to add, subtract, and multiply, gives you total and sub-total. Additional features include repeat key, correction lever, column indicator and transparent tear-off bar. Comes with triple purpose carrying case with sound absorbent pad, dust cover and detachable cord. Uses standard adding machine tape. Size 41/2" H, 83/4" W, 121/2" D. Shpg. wt. 16 lbs. No. 47A7511. \$69.95 Each

## **BEST TYPEWRITER VALUES WE'VE SEEN!**

# (1) BANTAM WEIGHT MODEL

(1) DAILY ANY WEIGHT MODEL • STANDARD KEYBOARD • PICA STYLE TYPE B-A Buyers were much impressed with the fine quality and performance of these home/office/student portable typewriters. You will be tool Gives real heavyweight performance and extraordinary dollar value. Weighs just 12 lbs., only 5½" high and has standard 84 character keyboard. 1, ½, 2 line spacing line finder, half space ratchet convenient to type formulas, paper bale, automatic and manual ribbon release. Line drawing aperature. All-metal body. Comes with black ribbon, has control for two-color ribbon plus stencil position, and luggage style carrying case. Dimensions 14½" x 15" x 5½". 

 Diss stericting position, and toggage strict carrying termination in the strict strind strict strict strict strict strict strict strict str

| Over 52,000 entries.<br>must for every home | WEBSTER 900 PACE DICTIONARY<br>Provides complete vocabulary of concise<br>office, student. Shpg, wt. 2 lbs. | definitions. A<br>\$2.95 |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|
| No. 16A1014. Specia                         | f Each                                                                                                      | PL.73                    |
|                                             | TOUCH TYPING MADE SIMPLE                                                                                    |                          |

|                        | TOUCH TIFING MADE SIMPLE                      |          |
|------------------------|-----------------------------------------------|----------|
| Typewriter Instruction | Course on LP record. Teaches anyone to type p | ronorly  |
| Indudes and the        | econd. reactics anyone to type p              | roperty. |
| Includes exercises and | drills, Shog, wt. 1 lb.                       | A OF     |
| No. 23A154, Special E  |                                               | 2.95     |
| INV. 23A134. Special E | ach                                           |          |

#### (2) DELUXE COMPACT MODEL

 44 KEY STANDARD KEYBOARD.
 WITH TABULATOR.
 PICA STYLE TYPE.
 Ultra-modern design, with tabulator. Full 44 key, pica style type, including exclamation point, number 1, plus and equal signs. Ideal for students. Numerous other features include two-color ribbon, stencil position, touch control, anti-jam key release, retractable paper support arm. Comes with luggage style carrying case. Size 63/4x141/2x15" Shpg. wt. 15 lbs. Extra Value Import. No. 47A7510. \$49.95 With Carrying Case, Only



INFLATINC: No need tor huffing and puffing—this handy air pump inflates an air mattress effortlessly in seconds. DEFLATINC: No more folding, pushing, or squeezing to get out the air— this exhauster does the job thoroughly. Durably constructed of rugged Teflon and polystyrene. Attractively display boxed complete with two nozzle attachments, flexible plastic extension, 10-ft. cord, built-in on/off switch, lighter plug-in. Specification: Air pressure, 2.7 lbs./sq. inch; Air volume, 50 gallons/minute; Voltage requirements 12 volts DC. Dimensions: 4¼″ high, 2″ dia. Wt. 1¼ lbs. Sec. 55

dia. Wt. \$6.95

No. 37A9100. Each.....





FREE! 900 PAGE WEBSTER DICTIONARY

TYPEWRITER

OF

WITH PURCHASE

1

\$3995

EITHER



\$4995 FINE FOR AUTO, HOME OR

**OFFICE!** PORTABLE

EFRIGERATOR

\$49<sup>95</sup>

World's most compact, only 143% x 121/2 x 13". No moving parts, nothing to break. Easy to carry ... weighs only 16 lbs. Operates on 110 V. AC or plugs into car lighter outlet. Shgg. wt. 23 lbs. With AC and DC cords and Ice tray with cover. Im-parted ported

# **PANASONIC** QUALITY ELECTRICAL APPLIANCES

\$4995

# PANASONIC

\$2388

#### MODEL MX-280 BLENDER

Features 7 push-button operation for precise selection of the perfect blend-ing action for all your blending re-

Has powerful 750 watt motor. Solid Has powerful 750 watt motor. Solid state engineering assures highest quality performance and durability. Stainless steel blades stay sharp, never rust. Full size 5 cup (40 oz.) con-tainer is impact and heat resistant, opens at either end for easy cleaning. Handy 2 oz. measuring cap is built into lid. Size  $33_{16} \times 81_{4} \times 15''$ . Complete in-struction and recipe book included. Shoe, wt. 9 lbs.

struction and ro Shpg. wt. 9 lbs. No. 61A229. \$23.88

Model MX-280 Each

# PANASONIC

\$3495

-----

#### MODEL MX-260 BLENDER

8 push-button operation for perfect 8 push-button operation for period pinpoint blending action. Powerful 850 watt motor for heavy duty use. With the automatic dlal timer you can instantly select from 1 to 60 seconds of blending time with auto-

matic shut-off. Blades are made of sharp stainless-steel for unsurpassed durability. Never steel for unsurpassed durability. Never a worry about rust or dull edges, Full size 5 cup (40 oz.) glass container is impact and heat resistant. Opens at either end for easy cleaning. Z oz. measuring cap built into cover. Com-plete with full color recipe and in-struction book. Size 61/2"x9%2"x15". struction book. Si Shpg. Wt. 11 lbs. No. 61A230

\$34.95 Model MX260, Each



Model MX-250. Each.



THE FINEST IN HOME APPLIANCES

# PANASONIC

ICE CRUSHER FOR ALL PANASONIC BLENDERS

optional Panasonic ice crusher

This optional Panasonic ice crusher is available for easy attachment to all Panasonic blenders. Attractively styled in two-tone color combination of decorator Ivory and Mist Crey. It can add true convenience and pleasure to party-time preparation. Makes crushed ice in just minutes for delicious frosty beverages. Durably constructed of high impact plastic with rugged stainless steel cut-ting blades. The perfectly crushed ice is ejected from its contoured design spout. Shog. Wt. 2 lbs. No. 61A232. Model MX-20. Each



# PANASONIC

#### HEAVY DUTY ICE CRUSHER

Panasonic brings a touch of profes-sionalism to your home with its ad-vanced design, heavy duty ice

Features 5 settings from coarse to fine so you get the exact texture of ice you require every time. Unsur-passed performance and durability are assured by the fine stainless-steel blades. Never a worry about rust or

blades. Never a worry about rust or dull edges. Powerful 150 watt motor for real heavy duty performance. Crushes a full tray of ice every 20 seconds. Water catch tray takes the mess out of ice crushing. Insures that water will neve, leak on table or counter. Size:  $432_{22}$  x  $73_{22}$  x 1034". Shog. Wt. 8 Ibs. No. 61A233. State S

\$19.95 Model MK285. Each



#### 2-SLICE AUTOMATIC TOASTER

2-SLICE AUTOMATIC TOASTER Panasonic's new NT-108 toaster pays special attention to that second slice of toast. It features the ingenious, exclusive "keep warm" switch which keeps your second slice inside the toaster warm without darkening it any further. The second slice of toast is always as warm as the first without a shade of difference. Modern style, in gleaming chrome with midnight black trim, comple-ments any home. Comes equipped with a full-range shade selector dial and automatic bi-metal timer so that your toast is always done exactly as you like it. Hinged crumb tray flips open for In-stant, thorough cleaning. Shpg. Wt. 5 lbs.

5 lbs. No. 61A234 \$14.88 Model NT-108. Each



# PANASONIC

#### **4-SLICE AUTOMATIC TOASTER**

4-SLICE AUTOMATIC TOASTER A new dimension In automatic toast-ing! Place 1 to 4 slices of bread in the toasting slots and let Panasonic advanced engineering do the rest. The bread will magically self-lower into toasting position. And for toast that's always done the way you like it, the dual shade selector dials let you pre-select the shade of your preference for both pair of slices. Special built-in thermostats read the toast's surface temperature and activate the auto-matic pop-up mechanism when toast is done to desired shade. It's easy to hinged bottom tray for instant, thor-ough crumb removal. Shpg. wt. 10 lbs. No. 61A212.



COFFEEMAKER

Graceful and striking in polished chrome, this elegant Panasonic coffee maker is designed with the flair of tomorrow, featuring new tapered styl-ing with a uniquely fashioned pedestal base, sweep line pouring spout, and contoured handle. Automatically brews perfect coffee every time. Signal light comes on when coffee is ready to serve. Coffee warmer takes over. Convenient slide rule strength of brew, from "mild" to "strong."

to "strong." Full 12-cup capacity, with level indi-cator built into handle. Stainless steel inside and out. 750 watts, 115 V. AC 60 cps. Shpg. wt. 3 lbs. No. 61A215. \$19.95

Model NC-3100. Each





Net Each

COMFORTABLE AIRLINE-SEAT STYLING

# **NOW WITH 2 FREE** ATTACHMENTS ... ALL FOR THE PRICE OF Deep Heat Meset MASSAGER ALONE



Improved Swedish-type professional body massager ... better balance ... lighter weight ... feels better, fits better on the hand. Made of Lexon virtually indestructible. Has sharp clean lines with gleaming chrome-like finish. Powerful new heavy-duty Universal "floating" motor delivers thou-sands of motor powered pulsations each minute. Lets fingers deliver classic skin and muscle massage on the body — gives a pating—rotating—knead-ing feel of the professional massager. Your hand controls the intensity of the massage. Size 6" x 41/8" x 31/4". Operates on 115 V. 60 cycles AC. Shpg. No. 61A245. \$24.88

Net Each

\$32.88

ALL METAL

**CONSTRUCTIO** 



Kills indoor odors electronically ... banishes state smoke odors, removes cooking odors from kitchen, keeps bathroom smelling fresh and clean. This new electronic air freshener keeps home free of offensive odors ... for just a penny a day. Keeps your home "mountain-air" fresh. Hi-impact plastic cabinet only 33/4 x 63/4 x 7" ... is compact and port-able. Beige color. Convenient off-on switch mounted on top. Wt. 8 lbs. \$12 95 No. 61A222. Net Each \$12.95

NEW POLLENEX

NEW

STYLE

\$24<sup>88</sup>

\$1295

MANNING BOWMAN BELT MASSAGER \$2995



#### POLLENEX DEEP INFRA-RED HEAT \$795 MASSAGER

# PORTABLE LIGHTWEIGHT HAND VACUUM

TWO MODELS-115 V. AC AND 12 VOLT MODEL WHICH PLUGS INTO CIGARETTE LIGHTER \$995

The perfect vacuum for home, office, boat, auto, garage, workshop. This handy little unit packs plenty of power yet is extremely lightweight ... weighs only 4 lbs. No dust bags to empty ... it uses throw-away paper bags. De-moths and deodorizes. Has finger-tip push-button switch. Sturdy all-metal construction. Universal AC-DC air-cooled motor. 110-120 Volts AC 275 watts rating. Includes power unit, upholstery nozzle. 2 throw-away bags, and fiberglas filter. Shge. wt. 5 lbs. **S9.95** 12-VOLT MODEL. Same unit as above, only has 12 V. DC motor for use with auto, boat, or trucks. Has extra-long heavy-duty cord with cigarette lighter plug attached. Shge. wt. 5 lbs. No. 61A220. 12 V. Model. Net Each.

Professional type belt massager for the home at a fantastic low price. A real must for those individuals who like to stay healthy the easy way! Helps keep you firm and fit1 Stimu-lates circulation . . . relieves minor aches and pains often caused by over-work or too vigorous exercise along the back and legs. Has adjustable belt stroke for mild or vigorous action. Just a few minutes a day workout gives that refreshed feeling. Sturdy light blue housing and base with non-slip base surface. Motor rating is 150 wats, 115 V. AC only, 60 cycles. 1000 RPM. Shpg. wt. 26 lbs. No. 61A216.

No. 61A216.



# PROCTOR APPLIANCES NEVER, NEVER, NEVER NEED IN-SHOP REPAIR SERVICE!

Coffee tastes Better when made in glass!



# FULLY AUTOMATIC ELECTRO PERCOLATOR <sup>\$17.95</sup>

See-thru clear glass fully automatic electric percolator with "lift-out" bowl easy cleaning. You can actually watch the coffee brewing through the crystal-clear glass. See as you serve. Special lights in the base create a warm candle-light glow to glve your coffee new taste tempt-ing radlance. 2-10 cup capacity. Adjustable flavor control. Keeps coffee piping hot auto-matically. All parts readily replaceable when needed. No serviceman necessary. Just order re-placement part needed by the number. Shpg. wt. 4 lbs. \$17.95



Now, a beautiful, efficient hair dryer that's designed for complete comfort and convenience. Professional type for in-home use. Easy to set-up, carry, or store. 5-position temperature con-trol, greater air delivery to dry hair evenly, 'horoughly ... up to 25% faster. Has fully adjustable extra large hood, counter-balanced non-tip base. Smartly styled, in blue and white. Shpg. wt. 15 lbs. No. 61A240. B-A's Low Price. \$26.88 \$26.88 B-A's Low Price

# SPRAY-STEAM AND

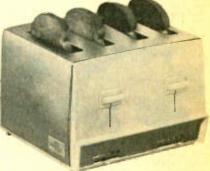
DRY IRON WITH NEW "SPRAY CONTROL" ACTION

\$1795 WITH TEFLON COATED SOLE PLATE

Old fashioned sprinkling is gone forever! A quick push of the thumb on the new "spray control" button . . . a smooth glide of the iron . . . out comes stubborn wrinkles. No water spots . . . o excess moisture. Just a crisp clean finish on all your ironing. Steam or dry iron at the flick of a switch! Temp-O-Guide sets temperature accurately for all fabrics. Only 5 units to replace . . . you never need to send iron in for service. If you ever need a seplacement part just order it by number and slip it in place yourself. Operates on 115 V. AC. 1200 Watts. Shpg. Wt. 4 lbs. No. 61A242. Net Each.

No. 61A242. Net Each.





## **PROCTOR-SILEX LONG LIFE TWO SLICE TOASTER** <sup>\$12.95</sup>

The ultimate in versatility and styling! Richly mirrored chrome body with high-style white handles, contrasting gold design. Fully automatic with Select-ronic color control assuring desired shade of toast every time. Toasts any bread... reheats cold toast without burning. Never, never needs service ... only 5 units make up toaster, easily replaced at home. Should unit ever need repair no need to send to a service station! Easy to clean. 1050 watts, 110-120 volts AC only. Underwriters Laboratories, Inc. Listed. Shpg. wt. 5½ lbs. No. 61A243. Each

## **PROCTOR-SILEX LONG LIFE** FOUR SLICE TOASTER <sup>\$</sup>21.95

An exciting new design adds extra convenience for the whole family! A FOUR slice toaster with TWO individual Select-Ronic Color Controls that now truly meet the toasting demand of everyone. You can make dark toast and light toast at the same time. Superbly styled in gleaming chrome with white trim. Has the same features as all Proctor-Silex Long Life appliances. Never needs servicing . . . simply replace any part at home. No technical knowledge required. 110-120 volts AC, only. 1650 watts. Underwriters Laboratories, Inc. Listed. Shpg. wt. 8½ lbs. No. 61A244. Each





SCM SHETLAND

Top rated sweep-er vac. Compact, Lightweight Lightweight... gets under beds, places where no other vac can reach. Features swivel nozzle, triple position brush, giant dis-posable bags. Powerful 2/3 H. P. motor. Weighs just 71/2 Ibs. Shpg. wt. 10 lbs. No. 61A239. Ea. **£10.00** \$19.99

Powerful motor assures flawless dirt pickup on both carpets and bare floors. Over 1 H.P. motor, 6 amps. UL approved. Power dial control has 3-position, easy suction adjustment for floor to celling deep down clean-ing or daily tidy up. Easy rolling unit has automatic coil rewind... touch of toe and cord disappears. Riding tool caddy, Numerous desirable fea-tures: Easy open lid (for removing dust bags), foot toggle switch, new clamp-lock wand connections, multiple filter system, reverse air stream for blowing, spraying, demothing, and wide vinyl bumper for protecting fur-niture and woodwork. Complete with 7 Piece Accessories: Dust Brush, Up-holstery Nozzle, Crevice Tool, Rug and Floor Nozzle, Vinyl Hose and Wands. Wt. 15 lbs. No. 61A225. Special Each No. 61A223. Box of 5 Dust Bags..99c (

SHETLAND LEWYT

VACUUM CLEANER

\$3499



# **TELEPHONES AND WALKIE-TALKIES**



 Talk and hear—loud and clear—anywhere . . indoors or out with this exciting new phone set. Provides exceptional voice transmission for hundreds at uses—perfect for room to room, house to garage, farm use, etc. Unique dial automatically lights when receiver is lifted. Dial, signal bell at other end rings until phone is answered. Made of tough high-impact styrene. Complete with 25 ft. cable and simple instructions. Shpg. wt. 3 list No. 32A4007, Less Batteries.

 No. 32A4007, Less Batteries.
 \$7.95

 No. 21A1. Batteries for above (requires 4). Each.
 Tre



Lift handle and buttons light up. Push any button on dial and other phone rings. When the other phone is answered, carry on a conversation just like real telephones. Set of 2 phones, 25 ft. of wire. Less batteries. No. 32A4012. Per Pair. No. 21A1. Battery for above (requires 4). Each. 17c

#### **BELDEN COILED CORDS FOR TELEPHONES**



## HAND PHONE SET WITH SIGNAL BUZZERS





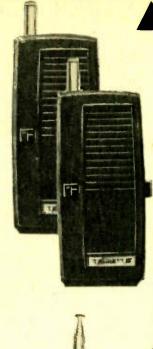
Includes 25 Ft. of 2 Conductor Tele-phone Wire. Powered by self-contained flashlight batteries (935 Eveready or equival-ent) and operated over two-conductor wire. Each phone is equipped with built-in push-button signal buzzer. Ideal for TV installers. In operation It can also be used by children for play.

Molded of break-resistant high im-pact styrene. Complete with 25 ft. cable. Shog wt. 2 lbs. No. 32A4008, \$4.40 \$4.49

Less Batteries, Per Pair. No. 21A2. Batt. (Requires 2), Ea...17c No. 2C33. 2-Cond. Vinyl Covered Wire for either phone set. 100 Ft. For \$1.49

#### DIAL PHONE SET BELL RINGS WHEN PHONE IS DIALED!

IS DIALED: Nationally advertised Brumberger phones of high-impact black styrene. Provides amazing results for the sur-prising low cost. Hos appearance af regular telephones with excellent vorce reception. Convenient to use. Just pick up receiver, dial and signal bell rings at other end until phone is answered. Fine for house to garage, house to house, room to room-1001 applications. Complete with 25 ft. cable and simple instructions. Shgs. wt. 4 lbs. Less Batteries, No. 3244009. Per Pair., \$6.95 No. 32A4009. Per Pair., \$6.95 No. 21A1. Battery for above (4 re-quired. Each 17c

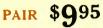


# IDLAND INTERNATIONAL

## MODEL 13-027 SPACE RANGER WALKIE-TALKIES

- Tough Molded Polystyrene Cabinet. Built-In 36" Telescoping Antenna.
- · Space-Age Solid State Circuitry.

NO AGE LIMIT! NO LICENSE REQUIRED



Here's low-cost 2-way communications fun that will thrill the kids! New pocket-size, 3-transistor walkie-talkie with sensitive super-regenerative receiver. An exciting and convenient companion for camping, the beach, hiking or for talking around the neighborhood.

neignornood. Features include: Push-to-talk button, on/ off switch, PM dynamic speaker,  $36^{\circ}$  tele-scoping antenna, charcoal with chrome high-impact polystyrene cabinet. Complete with 9-volt battery and Channel 14 (27,125 MHz) crystal. Size  $51_{6}^{\circ}$  high x  $21_{6}^{\circ}$  wide x  $11_{2}^{\circ}$  deep. No license required. Wt. 2 lbs \$9.95 No. 10A35. Per Pair.

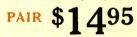


## INTERNATIONAL MODEL 13-042

## **MORSE CODE** WALKIE-TALKIES 3-WAY FUN! NO LICENSE

REQUIRED

- 1. Solid State Transceiver: Press-to-talk switch for voice messages.
- Morse Code Transmitter: Transmits International Morse Code.
   Code Practice Key: Turn the unit on and use the code key to practice Code.



Features include: 4 transistor super regen-erative receiver with volume control, crys-tal controlled transmitter with channel 14 (27, 125 MHz) crystal, 42" 9-section telescoping antenna and standard 9 V. transistor battery. In addition to regular voice communication the unit can transmit a code signal by "keying" the code button. Has Morse Code alphabet printed on front of unit.

In high impact polystyrene cabinet with carrying strap. Size  $5\frac{1}{2}$  high,  $2\frac{5}{2}$  wide,  $1\frac{5}{2}$  deep. No license required. Shpg. wt. 15/8" 2 lbs.

COMPACT

SIZE

\$1495

**150 YARD RANGE** TRANSISTORIZED

\$14.95

No. 10A28 Per Pair....

## HAND-SIZED TRANSISTORIZED MEGAPHONE



CALL SI BHAL

TRANSETTE

Durable high-imcact plastic case with built-in microphone, transistorized push-pull amplifier. Exceptional range over 150 yards. Small compact size, only 4" H. x 7" L. x 21/2" W. Weighs only 11/2 Ibs. Has handy wrist strap and press-to-talk switch with locking feature for continuous talking. High quality magnetic microphone provides clear distinct voice quality. No. 49A211 Shpg. vt. 3 Ibs. Net Each No. 21A3. Penlight Cells for above (requires 8), Each 13c

# VALUES IN GEM & LAPIDARY EQUIPMENT

**B-A HOBBYIST'S ROCK TUMBLER SET** 

SMOOTHES AND POLISHES: Rocks, Class & Stones, Coins, Shell Casings, Fishing Spoons & Many Other Items

DOES THE WORK OF **HIGH COST** MACHINES

ONLY \$**19**<sup>95</sup>



B-A has sold thousands of rock tumblers to collectors all over the U.S.A. Now, we have the finest unit at the lowest possible cost! Powered by an industrial quality continuous duty motor, which readly handles 6 lb. capacity. Tumbler barrels are easy to replace paint cans. Unit accommodates 2 quart or gallon size paint can. Heavy duty nylon bearings have lifetime guarantee, all other parts, except belts and cans, have 1 Year Guarantee. Requires no skill and minimum of attention. Uses 4 oz. grit for each can.

| No. 47A8502, Shpg. wt. 9 lbs, Net Each.                            |               |
|--------------------------------------------------------------------|---------------|
| BECINNERS CRIT PACK. Contains 1 can liner, 1-4 oz. coarse gi       | rit, 1-4 oz.  |
| fine grit, 1—4 oz. prepolish, 1—2 oz. polish.                      | \$1.95        |
| No. 47A8503. Net Each                                              |               |
| No. 47A8504. Tumbling Manual. Gives all necessary information      | \$2.00        |
| on polishing all types of material. Each                           |               |
| No. 47A8505. 1 Lb. Crushed Polishing Rock. Each                    | \$1.00        |
| No. 47A8506, 1 Lb. Oregon Beach Agate and Jasper, Each             | \$1.50        |
| No. 47A8507, 1 Lb. Crushed Gem Mix. Each                           | \$2.95        |
| No. 47A8508. 15 Oz. Brass Polishing Media. Enough for 1 quart can. | This media is |
| re-useable indefinitely. Each                                      | \$1.95        |
| No. 47A8509, 2 Oz. Brass Polishing Reactivating Cream. To renew    |               |
| polishing media. Each                                              | 98c           |
| penanny needs. Leen mannes                                         |               |
|                                                                    |               |

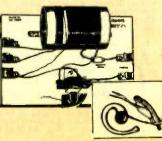


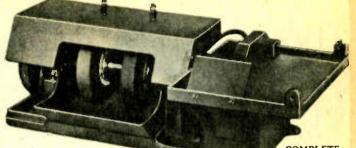
Kit includes everything you need . . . pre-punched chassis, factory fresh tubes, handsome cabinet and all the parts. The 24 page instruction manual is a simplified step-by-step method assuring easy and enjoyable construction. The manual contains detailed explanations on the various circuits of the radio, how they operate, a section explaining resistor and condenser coding, wiring and soldering techniques and many more features. You can learn trouble-shooting of sets as well. The set is a highly efficient super-sensitive two band, five tube superhet standard broadcast and shortwave radio. Covers frequencies from 540 KC to 1700 KC and 5.8 to 18 megacycles . . the most popular shortwave band for Foreign countries. Shpg. vt. 5 lbs. **\$16.95** No 47A8534, Each.

# **TOP VALUE! PHILMORE** GERMANIUM SELECTIVE CRYSTAL RADIO KIT

#### WITH 1000 OHM EARSET

Easy to build. Features new midget tuning condenser, Germanium fixed crystal diode for better sensitivity and selectivity than regular type crystal sets. Parts all mount on a 3%" thick plywood baseboard In-cluded. Coil comes already wound. Simplified construction with gummed lobel pictorial diagram which fits boseboard as a template showing location of parts and connections. Wt. 1 lb. \$3.95 47A8521. With Headset \$3.95





COMPLETE WITH MOTOR

#### **CRAFTOOL-STAR** 790 **6 INCH GEM MAKING** 3 LAPIDARY COMBINATION

Model C-6-D #2020. A complete lapidary unit with sawing, grinding, sanding and polishing capabilities. Includes two 6" x 1" grinding wheels 100 and 220 grit, 6" convex head with 2 sanding discs, 3 dop sticks, one 6" felt polishing disc, Allen wrench and disc cement. Rugged cast aluminum housings and pre-cision ground polished and plated steel shaft mounted in double sealed ball-bearings assure a lifetime of quiet, smooth running operation. Less motor and blade. (Recommended blade 6".x .032" x  $5_{6}$ "). Size 26" W. x 9" H. x 11" D. Shpg. wt. 42 lbs. S84.95 \$84.95 No. 47A8529. Each

Model C-6-D #2020M Mounted Complete with Motor. 6" Gem Making/ Lapidary combination mounted on a 201/2" x 311/2" Formica board with a 1/3 HP, 115 Volt motor with cord and switch, 2"-3"-4" step pulley, motor mount and 29" V-belt ready to plug in and operate (less blace). Shpg. wt. 73 lbs. \$137.90 No. 47A8530. Each

#### CRAFTOOL-STAR OUALITY BLADES

| Highest qu<br>rated diame<br>tion, Shpg, | ter, tensio | ned 3100 | diamond b<br>to 4200 SF | lades, Ful<br>PM opera- |
|------------------------------------------|-------------|----------|-------------------------|-------------------------|
| Stk. No.                                 | Dia.        | Hole     | Thickness               | Price                   |
| 47A8531                                  | 6"          | 5/8"     | .012                    | \$13.50                 |
| 47A8532                                  | 6"          | 5/8"     | .032                    | \$13.95                 |



#### GEM STONE TUMBLING AND JEWELRY MAKING KIT



Here is your opportunity to enjoy the fascinating craft of gem polishing. Kit includes Mini-Tumbler, 21/2 lb. load capacity drum and liner, 3 grades of abrasive grits plus polishing medium, assorted jewelry mountings (tie clasp, earrings, etc.) jewelry glue and assortment of rough exotic and aztec stones. Motor is 115 Volt, AC with built-in circuit protection, One Year Guarantee, UL listed. Everything you need to go from "rocks" to "jewelry." Shog. Wt. 12 lbs. S23.95 \$23.95

No. 47A8528. Model 2374-AZ. Each ...

#### FINEST COLLECTION OF ROCKS AND MINERALS **100 ALL MOUNTED AND IDENTIFIED**

Complete 67 page book "intro-duction to The Study of Rocks and Minerals" with their loca-tions, uses and descriptions. 100 rocks in 12 x 12" box.



This collection is designed for class-room and individual student use. The specimens are individually iden-tified by numbers with identifica-tion in the lid of the box. Shpg. tion in th wt. 5 lbs. \$9.95 No. 47A8533. Each .....

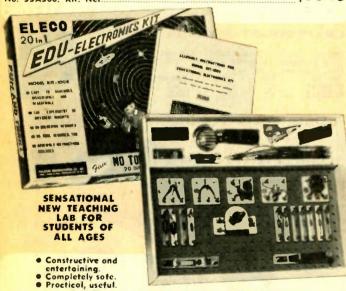


# FASCINATING ELECTRONIC BUILDER'S KITS



All the costly features at the lowest price we've seen! Features the famous Williamson-type circuit with quality components in an easy to build design. New exclusive "Balance-Blend" control balances and blends both channel signals together to eliminate the hole-in-the-middle effect. Separate bass and treble controls for each channel permit complete flexibility of adjust-ment for desired listening quality. Hermetically sealed "packs" for tone control and phase inverter circuits for simplified wiring and reliability. Kits include all necessary parts with step-by-step instructions. Specifications: 15 watts each channel output. Harmonic distortion: less than 1%. Hum: 80 db below rated output. 8 inputs (4 dual); tape/low impedance phono, high impedance phono (ceramic, crystal), tuner, high impedance tape/ auxiliary. Outputs: dual tape, 4, 8, 16 ohm speaker. Tupe equalization: NARTB. Record equalization: RIAA. Front Panel con-trols: (9) function selector, balance-blend, dual ganged loudness, separate bass, treble, treble/power, mode, equalization. Selector Switch: tape/lo phono, hi phono, tuner, hi tape/aux. Mode Switch; stereo reverse, stereo normal. Equalization Switch: phono, tape. Size 14" W, x 8½" D, x 6" H, Finished in

Equalization Switch: phono, tape. Size 14" W. x  $8\frac{1}{2}$ " D. x 6" H. Finished in baked brown Hammertone. Luxury multi-color front panel. Tube complement: 2-12AX7's, 2-12AT7's, 4-6V6's, 1-solid state rectifier. For 115V. 50-60 cps, Shpg. wt. 18 lbs. No. 33A300. Kit. Net.



#### PHILMORE EDUCATIONAL ELECTRONICS TRANSISTORIZED 20-IN-ONE KIT \$ '95 ALL NEW WITH 20 EXPERIMENTS

INCLUDING SOLAR CELL

 Con experiment 20 different circuits. Assembly Instructions included. • Con experiment 20 different circuits. • Assembly Instructions included. • Eosy to ossemble, disossemble ond reossemble. • No soldering required. A completely self-contained series of twenty practical and educational pro-jects, each progressively more detailed. Begins with the assembly of a ger-manium diode radia, gradually building up to a short wave radio, and finish-ing off with an intercom, audio amplifier and signal tracer. Each part is prenumbered for easy identification with corresponding number in assembly instructions. Does not require the use of any tools or soldering. After each project has been completed on the breadboard, it can be dismantled, making room for the next experiment. Kits are supplied complete with all parts, nothing else to buy, not even batteries.

| Project #1 & 2-Germanium Diode          | Project #11Transformer Coupled 2    |
|-----------------------------------------|-------------------------------------|
| Radios,                                 | Transistor Radio,                   |
| Project #3—1 Transistor Radio.          | Project #12—Shortwave Radio.        |
| Project # 465—Germanium Diode,          | Project #13-Radio Freq. Oscillator. |
| 1-Transistor Radios.                    | Project #14-Morse Code Practicing   |
| Project #6—Grounded Base Detector.      | Set.                                |
| 1-Transistor Radio.                     | Project #15-2-Transistor Audio Fre  |
| Project #7-Grounded Collector Am-       | quency Oscillator.                  |
| plifier.                                | Project #16-A2 Telegraph Trans      |
| Project #8-Grounded Emitter Ampli-      | mitter.                             |
| fier.                                   | Project #17-Wireless Microphone.    |
| Project #9-Resistance Coupled 2-        | Project #18-2-Transistor Intercom.  |
| Transistor Radio.                       | Project #19-2-Transistor Audio Fre  |
| Project #10 - Germanium Detector.       | quency Amplifier.                   |
| 2-Transistor Radio.                     | Project #20—Signal Tracer.          |
| High Quality Import Value, Shpg. wt. 51 | bs                                  |
| No. 47A8520. 20-In-1 Kit with Solar Ce  |                                     |
| HU. TIMOJEC. ECTINET KIT WITH JOIAT GC  | II. INCL EDCH                       |



# QUALITY PARTS WILLIAMSON TYPE 15-WATT HIGH FIDELITY AMPLIFIER KIT **Q**97

Easy to build step-by-step instructions. Special design output transformer.

Never before has B-A been able to offer a complete 15-watt amplifier kit with built-in preamplifier for magnetic phonos for tape inputs at this low price. The advanced circuitry incorporates the latest miniature tubes for low noise and hum, and features a special design Williamson type output transformer multi-tapped at 4, 8 and 16 ohms to match the speaker system of four choice. of your choice.

of your choice. Four front panel controls include Loudness, Selector switch for instant se-lection of four (4) inputs; Magnetic phono or tape, crystal phono, tuner/ radio and auxiliary. Separate full range Bass and Treble controls for adjust-ment of highs and lows to suit the listener. Features intest high fidelity type output tubes plus hermetically sealed "packs" for tone control and phase inverter circuits for simplified wiring

and reliability

Specifications: Power output 15 watts. Frequency response 30-20,000 cycles  $\pm$  1 db. Distorfion: 1% at rated output. Tube Complement: 1-12AT7, 2-6V6's, 1-solid state rectifier, Convenience outlet on rear of chassis controlled by power switch. Power consumption 55 watts, 117 volts AC; 50-60 cycles, Size 131/4" W, x 7" D, x 5" H, Wt. 10 lbs. \$19.97 No. 33A301. Kit, Net Each



#### **10-IN-1 TRANSISTOR RADIO** SOLAR CELL LABORATORY KIT

BUILD ALL OF THESE: Sun Powered Transistor Radio, Wireless Microphone, Code Practice Oscil-lator, and Many, Many Others.



Now a complete radio Laboratory Kit that gives the latest theory as well as practical experience while working with the newest of elecronic components, Transistor, Germanium Diode and the sensational Solar Cell.

YOU CAN BUILD A Transistor Sun Battery Powered Radio (obtains power from sunlight); a Cermanium Diode Receiver; a Transistor Radio with Cermanium Diode de-tector; Wireless Code Practice Key (Morse Code can be sent through any radio in the house); a Wireless Home Broadcaster (broadcast through any radio in the house); Code Practice Oscillator; Audio Preamplifier; a Sine Wave Clipper, a useful piece of test equipment for learning more about electronics. Kit includes all necessary parts including Sun Battery, Cermanium Diode, Transistor, Iron Core Stand, Instruction Book, Wt. 3 lbs. No. 47A8518. Net Each. \$9.95 No. 47A8518. Net Each ...



# PHILMORE OUTDOOR AERIAL KIT GREATLY IMPROVES SIGNAL STRENGTH OF ANY RADIO

# **EXCITING EDUCATIONAL PROJECTS**

DISCOVER

\$1.36



No Tools Required

Teaches the how and why of electronics. How each circuit works, clearly shown and readily understood by anyone who ploces the component in position on the pictorial layout templates. Why each circuit works is masterfully explained in the 96-page instruction manual which is included with each kit. Using simple language the manual takes the builder, one step at a time, along the woy to full theoretical comprehension of the circuit you are building. Absolutely safe, powered by one inexpensive 9 volt battery. Every part mounts with pressure springs ... easily taken apart for building of other projects. You can build an electronic organ, sound amplifier, push-pull sound amplifier, amplifier, amplifier, intercom, Morse code trainer with loudspeaker, public oddress and telephone amplifier, 3-transistor radio, burglar alarm, acoustic relay, pilfering alarm, time switch, automatic night light, universal measuring equipment and light meter. Each kit handsomely packed in styrofoam bax with individually nested parts. Shpp. wt. 5 lbs. **\$19.95** \$19.95

No. 47A8524. Net Each No. 21A30. Battery For Above. Net Each

## LOW COST 5-TUBE SUPERHET RADIO KIT

- Ideal kit for getting storted in electronics.
- For individual or group in-struction.
- A quality set when built.



Latest superhet circuit designed for the ultimate in sensitive reception and tonal quality. Covers standard AM braadcast band (550 to 1600 KC) using all-American tube series consisting of 125A7, 125K7, 125Q7, 50L6 and 35Z5 rectifier. With built-in loop antenna. Small in size, 9x5x5" yet gives big set performance. Instruction manual using new sensational 3-D Eye-O-Gram sim-plifies wiring so that even the newest of newcomers may achieve professional results. The 3-D Eye-O-Gram consists of 3 translucent sheets each in a dif-ferent color and showing one phase of wiring. Each sheet is placed in its turn on the chossis for a pletorial wiring guide. In addition there are 16 fully illustrated pages showing voltage and resistance charts, photographs of each component as well as completed set, basic receiver theory, everything needed from a check list when starting to a very simple means of aligning completed set without use of a signal generator. Kit comes complete with cobinet, tubes and all parts necessary. Wt. 5 lbs. No. 47A8522. Net Each



| () OPEN TYPE CRYSTAL DETECTOR. Universal joint on swivel arm provides                                   |
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| quick accurate adjustment on any point of crystal. (Less Crystal)                                       |
| quick accurate adjustment on any point of crystal. (Less Crystal)<br>No. 12A1802. Net Each              |
| (1) SUPER SENSITIVE CRYSTALS. Made from finest galena ore. \$1.99<br>No. 12A1401. NET EACH              |
| No. 12A1401. NET EACH                                                                                   |
| 3 SPRING CAT WHISKERS. Univ. for all crystal sets. Best Quality. C1                                     |
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Build useful electronic equipment, learn how and why each project works. Basic electronics course and simplified instruction manual included. Peg-board assembly, spring clips, nothing to solder, no tools needed. Build sound operated relay, burglar alarms, light dependent frequency generator, light-meter, phonograph amplifier with earphones, automatic nightlight, wetness indicator, code oscillator and many other projects. Uses 6 flashlight batteries. Safe to use, Wt, 3 lbs. \$12.95 No. 47A8523, Net Each.



 No Soldering. No Tools. No Wiring Fun Educational Supplied with 60-page illustrated instruction manual. Easy A system of self-contained, "SEE-THRU" electronic circuit building blocks that join magnetically ..., elts you build a ... Transistor Radio Receiver. elaino Moisture Indicator. Morse Code Trainer. Sound Amplifier. Intercom System.



A compact, high quality table radio. Easily assembled with schematic, pictorial and step-by-step instructions. Extremely sensitive and selective. Complete with all parts: powerful Alnico V PM speaker, built-in Hi-Q ferrite loop antenna coil, IF transformers, shockproof chassis, all tubes and beautiful loory cabinet. 7x41/2x334". For 117 V. AC-DC. No. 47A8525. Shpg. wt. 4 lbs. Complete Kit.

# Easy to build EGO



#### WIRELESS MIKE

Battery - operated, pocket size. Transistorized circuit comprises both audio modulator and RF oscillator. Broadcast through any home or auto radio while wakk-ing about freely, unencumbered by any interconnecting wires. With case. Requires 9V. battery. No. 20A1128, EC-1100. For use with FM radios. No. 20A1129, EC-1200. For use with AM radios. Choice \$9.95 Eoch ...

#### **TREMOLO**

Reliable 3 - transistor battery -operated electronic tremolo for guitar and other musical instru-ments. Gives your musical in-strument a professional sound. It can be set to desired speed and intensity without disturbing the wiring of your present am-plifier plifier. 

#### INTERCOM

Rugged 2 - transistor battery -operated master intercom sta-tion. Becomes multiple channel 2-way (talk-back) inter-com-munication system with addition of speakers as remote stations. Can be used for baby sitting, room - to - room and front - door communications. Requires 6 V. battery. 4PDT switch and speak-ers.

No. 20A1137. EC-200. Eoch. \$5.95



#### **ELECTRONIC BONGOS**

Battery - operated 3 - transistar Battery - operated 3 - transister bongos circuit electrically pro-duces the exciting percussive sounds of high-pitched and low-pitched bongos, tom-toms, bas drum, marimba, gongs and cloves, when used in conjunction with an amplifier and speaker. May be mounted directly on or near the instrument Itself. Re-quires 9 valt battery. No. 20A1133. No. 20A1133. EC-1600. Eoch... \$7.95

#### LIGHT FLASHER

Battery - operated 2 - transistor "multivibrator" or "flip - flop" circuit. Each of the two lightbulbs lights up alternately, providing valuable signaling for: traffic warning light, house marker, position marker for hikers, boaters, parked cars, etc. Requires 6 volt battery. No. 20A1141. EC-600. Each.... \$3.95

#### **AUDIO AMPLIFIER**

3-transistor battery-operated 2-watt audio amplifier. Accepts a wide variety of input sources, such as microphone, phono car-tridge, tape recorder, radio, etc. It can handle speakers for inter-com proving durble, address and com, paging/public address and ng distance hailing. Requires volt battery speaker & 2000 long 6 ohm volume control. No. 20A1138. EC-300. Each \$5.95



### MOBILE POWER AMPLIFIER KIT

Three transistor circuit will produce up to 5 watts power. Has volume and tone control. Cigarette lighter plug for use in auto or use other 12 VDC source. Re-quires mike and speaker. No. 20A1233 MPA-5. Each. \$8.95



Battery-operated beat-frequency metal locator can be used to lo-cate both ferrous metals (Iron, steel, etc.) and non-ferrous metals (gold, silver, copper, etc.) consists of two RF oscillators and a search loop. This distinc-tive audio signal pitch goes up when the EC-1900 locates buried ferrous metals, and the pitch goes down when it locates non-ferrous metal. Requires 9 volt battery. battery. No. 20A1155. EC-1900. Eoch......

\$9.95

## ELECTRONIC ORGAN

One - octave electronic organ. Supplied with a built-in pre-amplifier. The organ can be fed to any audio amplifier. Two or more of these organs can be played in harmony to produce the graceful chord structures. Ideal multitone audio generator for general purpose audio fre-quency testing. Requires 9 volt battery. battery. No. 20A1156. EC-2000 Each \$9.95

#### **METRONOME**

Precision 2 - transistor battery -operated electronic metronome. Incorporates a 2-transistor "re-laxation oscillator" circuit which produces accurate adjustable impulses through a loudspeaker— from approximately 10 to 250 impulses per minute. Requires 6 volt battery and speaker speaker. No. 20A1139. EC-400. Eoch... \$3.95



transistor audio reflex circuit. Tunes 550 to 1600 KC AM broadcast bond. Earphone sup-plied. Easy to build. Requires 9 V. battery. 20A1262. Eoch....\$4.95



Wireless Intercom Kit. Feeds AM modulated signal inta ground side of AC line. Sound can be picked up on any AC operated radio in house. 

Bottery ....

Adjustoble Bottery

Charger Kit. Produces DC voltages to charge any battery from 1.5 to

12 volts. Will charge a car battery over night.

Housed in plastic case. 20A1258. Eoch....\$9.95

48c

# solid-state

VHF CONVERTERS

FOR POLICE, FIRE, AIRCRAFT

\$795 Tune the exciting VHF bands used by police, fire, civil de-fense, emergency services and aircraft. Place the converter near your AM radio, no inter-connecting wires necessary. Changes VHF band to lower fre-quencies that your radio con bandle

handle handle. No. 20A1252. EC-2700 Lo-Bond 30-50 MHz police, fire, etc. No. 20A1253. EC-2800. Hi-Bond 152-74 MHz police, fire, etc. No. 20A1254. EC-2900. Aircroft 108-136 MHz. Choice \$7.95 Eoch.

#### 'NITE LITE'

Sensitive, battery-operated photocell with a high-gain 2-transistar amplifier / switch for adjustable sensitivity. It can automatically turn its light on at dusk Can be adapted to a burglar

alarm or home/store entry signal.

#### **POWER SUPPLY**

Converts 110-125 AC volts to 6 volts DC. Reliable, transformer-operated, high - current, tran-sistor-regulated, 6 volt DC out-put Power Supply with full-wave bridge rectifier using sillcon diodes, and high capacity filtering. It powers most EICOCRAFT kits. Requires line cord and SPST switch. No. 20A1142. \$8.95

EC-900. Eoch ...

Photo Cell Music Maker. Uses audio oscillator circuit. Waving your hand over photo cell produces varying audio tones. Great for science fairs and school proj-

20A1264. Eoch .... \$5.95



Code Practice Kit. Tone control, spring key pro-vided. Speaker supplied so that tone is easily so that tone is easily heard. Plastic case with aluminum cover, 20A1259. Eoch...\$3.95 21B141. 9 V. 

# electronic project kits!

EIC

# Now everybody can enjoy building electronic kits.

No Technical Knowledge or EICOGR Experience Necessary

Everybody can enjoy building elec-tronic kits. No technical knowledge or experience necessary.

Simple step by step instructions. Professional quality and perform-ance like the famous EICO Hi-Fi and test instrument kits. Enjoy the creative fun of building with your own hands.

Pre-drilled copper plated etched printed circuit boards. Finest quality parts. You can build an Eicocraft kit in about 1 ½ to 2 hours.

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Battery operated Tuneable transistorized radio. Receives stand- \* ard broadcast band. Earphone supplied. Requires 9 V battery.

No. 20A1131. EC-1400. Radia 88-108 MC. CO FM \$9.95 Each ... No. 20A1132. EC-1500. AM Rodia 550-1600 KC. \$8.95 Each.

#### 'MAGIC SWITCH'

MACIC SWITCH' Sensitive 2-transistor amplifier and latching flip-flop relay con-trol circuit. When the touch plate connected to the amplifier is touched, the relay closes (or opens), thus providing o signal of the event. Turn on or off any appliance with this "magic" or hidden switch. Requires 9 volt batterv. battery. No. 20A1256. EC-2100. Each.

\$9.95

3 CHANNEL PSYCHEDELIC Use with spotlights or ony group of incandescent lights up to 500 waits per color or a total of 1500 waits. Great for musical groups, window dis-plays or anywhere a big attention getting display is wanted. Operates from speaker output of am-plifier. 3 separate color sensitivity con-trols. Each control has an indicator light for adjusting light operation. With aluminum case, all parts and complete instructions. Operates on 115 V. AC. Complete Kit. No. 20A1261. Each

# PSYCHEDELIC KITS CONVERT SOUND TO LIGHT

# **ELECTRONIC STROBE KIT**

FOR INCANDESCENT LAMPS A simple easy to put together kit to convert an ordinary lamp (up to 100w) to a Pulsing Strobe. Contains all parts. Gustom plastic case and silk screened brushed gold plate. 3 semi conductor circuit. Variable control to control Na. 20A1265. Each Na. 21B141. 9 Valt Battery. Each \$9 95

## **ELECTRONIC VOX**

EICOCRAFT

EXCELLENT FOR SCIENCE FAIR

Transistorized audio - activated relay amplifier, and sensitive electromagnetic relay. It pro-vides a variable time delay (ad-justable) and audio control of remotely operated devices. Makes an ideal voice control for tape recorder, TV or radio set (as a commercial killer), etc. Requires 6 volt battery. 20A1130. EC-1300. Each \$8.95

## **ELECTRONIC 'EYE'**

ELECTRONIC ETE Sensitive light dependent resistor (LDR) which detects the pres-ence of light falling upon it. Solid-State amplifier triggers 2-transistor flip-flop circuit which transistor flip-flop circuit which controls a sensitive relay. The relay which lotches on or off, can be used to control a device such as a bell, siren, appliance, etc. Requires 9 V. battery. 20A1257. EC-2200. Each.

## **3 CHANNEL PSYCHEDELIC LIGHT CONTROL CENTER** SYNCHRONIZE LIGHT WITH MUSICI







## HAM/CB VOX

Solid State Ham/CB VOX Solid State Ham/CB voice oper-ated switch (VOX) with variable time delay and Anti-Vox input circuitry. This circuit may be used with a CB or ham transmit-ter or transceiver which will ac-tuate the transmitter when speak-ing inter a microhome and reing into a microphone and re-turn to receive operation when you stop speaking. Requires 6 volt bottery. 20A1153. \$8.95 EC-1700. Each

#### SIREN

Powerful 3 - transistor battery -operated alarm. Excellent for all attention-getting and signal-ing purposes, such as alarms for burglary, fire, automobile, bi-cycle, boat, personal attack, etc., sound effects for model railroads, slot car racers, tape recording, etc. Requires 6 volt battery. Speaker and switch. 20A1134. CA OCE battery. Spea 20A1134. EC-100. Each. \$4.95

#### ELECTRONIC 'TOX'

Touch - operated relay switch. Consists of a sensitive RF oscilla-tor associated with a relay am-plifier. When the "touch plate" connected to the RF oscillator is touched, the relay closes (or opens). You can make it respond an intruder's touch of your yard gate and sound an alarm bell. Requires 6 V. battery. 20A1154. EC-1800, Each \$8.95

#### BURGLAR ALARM

Powerful 3 - transistor battery -operated alarm. Excellent warnoperated alarm. Excellent warn-ing device against uninvited or illegal intruders. When its en-closed switch assembly is placed in a window or door, any intru-sion will at once close the switch to produce a loud penetrating attention-calling wail. Requires 6 volt battery and speaker. 20A1135. EC-101. Each.

(12) Fuzz Sound Maker Kit. Gives sound effects to any musical instrument. any musical instrument. Use with your Instru-ment amplifier. With brushed gold cover. 20A1267. Ea...\$12.95 21B141. 9 V. Battery. Each 48c

# 5 Watt Amplifier Kit. Use with tuner, phono, guitar, microphone, hi-power intercom, etc. With volume control. Operates any 3 ta 16 ohm speaker. UA-5. 20A1237. Each.....\$5.95 21B89. Battery. Ea. 92c FLEXI-CAB DO-IT-YOURSELF FAST, EASY, PUSH-TOGETHER, STAY-TOGETHER ASSEMBLY

STAY-TOGETHER ASSEMBLY Vinyl-clad, self assembly, steel cab-inets add the professional touch to any project. Cabinets Joined together using links of mar-resistant plastic with pre-cut mitered corners. Pressure sensitive labels supplied to Identify over 40 functions plus a black adhe-sive-backed strip to decorate control panels. Stack No. Color 5A3044 walnut with chrome panel 5A3045 black leather with chrome panel

Calor walnut with chrome panel black leather with chrome panel walnut with chrome panel black leather with chrome panel walnut with chrome panel 5A3046 5A3047 543048 black leather with chrome panel

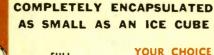


24 oz.

3 × 6 × 3 × 6 ×







INSTRUCTIONS & DIAGRAMS INCLUDED FOR BUILDING THE USEFUL DEVICES LISTED BELOW

FULL

Each module is a small ready to use molded capsule containing a completely wired circuit of transistors, resistors, capacitors, and other parts. Most modules require only 2 or 3 items (battery, mike, speaker, etc.) to complete each device.

No. 20A1160. PUBLIC ADDRESS AMPLIFIER MODULE. High gain for use with high or low impedance, crystal or dynamic mike. Drives any size PM speaker or trumpet. Operates on 6 volt battery.

. just connect to

No. 20A1162, PHONO AMPLIFIER MODULE. Connect to an 8 ohm speaker, 6 volt battery and phono pickup. Provides far above average volume.

No. 20A1163.POLICE SIREN MODULE. Produces high level upward scream and downward wail, I plete instructions. Drive any 8 ohm speaker. For use with 6 volt battery. Com-

No. 20A1251. STEREO AMPLIFIER MODULE. For crystal or ceramic stereo cartridge. Good fidelity and volume. Requires 2 8-ohm speakers, 2 1-meg. potentiometers and 6 volt lantern battery.

speaker, 6 volt battery and telephone pickup coil. Amplifies telephone con-versation for group listening.

No. 20A1165. GUITAR AMPLIFIER MODULE. Combine with contact microphone, any PM speaker and 6 volt battery for concert quality, auditorium volume guitar amplification.

No. 20A1222. CUITAR TREMOLO MODULE. Connects between guitar pickup and amplifier. Tremolo frequency adjustable from about 4 to 15 cycles per second. Requires 9 V. battery and 25,000 ohm volume control.

No. 20A1166. CB MICROPHONE PREAMP MODULE. Ready to use preamo Increases modulation to optimum for dependable transmissions. Use any 11/2 volt battery

No. 20A1167. BURGLAR ALARM MODULE. Automatically sounds a siren alarm when window or door is opened. For use with 6 volt battery and 8 ohm speaker. Complete instructions.

No. 20A1226, C.W. MONITOR MODULE. Operates from RF energy surround-ing your transmitter. Keying transmitter in normal way produces CW note in any 8 ohm speaker. Requires 1½ V, battery. No. 20A1227. SICNAL INJECTION MODULE. Detects AF and RF signals using a simple probe for quick and easy pin-pointing of defective stages in electronic equipment. Fine for servicing your own radios, phonos, amplifiers

WIRELESS MICROPHONE TRANSMITTER MODULE

Connects to any high impedance microphone and 9 volt transistor battery. Will transmit voice into nearby radio. In accordance with the regulations of the Federal Communications Commission these wireless modules are war-ranted by the manufacturer to have a power Input of less than 100 milliwatts and may be used by anyone without licensing or registration of any kind. No. 20A1169. For AM Radios No. 20A1172. For FM Radios No. 20A1170. For FM Radios as above except for low impedance mike.

YOUR CHOICE \$3.49 ANY OF ABOVE, EACH

#### DUAL FLASHER (FLIP-FLOP) MODULE

 8ulld auto road warning lights, window display attention getters, model train

 grade crossing flasher, bicycle rear wheel safety flasher, etc.

 No.20A1174.Wt. 4 oz.
 Special Eoch.

#### **METRONOME MODULE**

Makes a dependable metronome at fraction of usual price. Adjusts 40 to 208 beats. Requires 2 Meg. Pot., 6 V. battery and speaker. \$1.99

#### **BATTERY CHARGER MODULE**

Charges flashlight and transistor batteries from  $1\frac{1}{2}$  to  $22\frac{1}{2}$  volts. Trickle charges at 3 mil rate. Makes batteries last several times longer. Requires a line cord and wire and clips to connect to batteries. Wt. 4 oz. 99c No. 20A1176 Special Each



# CODE PRACTICE OSCILLATOR MODULE

Operates from any 1½ to 6 volt battery and any PM speaker. Only three connections to make. Re-quires no adjustment. Wt. 4 oz 98c No. 20A1177. Each

# QUICK FIND INDEX TO **\$\$** SAVING B-A BARGAINS

| Amateur Cear                 | .238, 239 | Microphones                        |
|------------------------------|-----------|------------------------------------|
| Amplifiers, Phono            | 245.257   | Motors                             |
| Antenna Accessories          | 239, 241  | Needles, Phono                     |
| Assortments                  |           | Phono Components 244, 245, 255-257 |
| Batteries                    | 231       | Pilot Lights                       |
| Battery Chargers             | 232       | Plugs                              |
| Binding Posts                | 241       | Power Supplies                     |
| Blowers                      | 237       | Rectifiers                         |
| Cable & Wire. 230, 231, 238. |           | Relays 735                         |
| Capacitors                   |           | Resistors                          |
| Cartridges, Phono            | 255       | Semiconductors 227-229             |
| Changers, Record             | 256       | Sockets, Tube                      |
| Chokes                       | 233. 241  | Solenolds                          |
| Code Practice Sets           | 239       | Speakers                           |
| Connectors                   | 246.247   | Switches                           |
| Cords, AC                    |           | Terminal Strips                    |
| Earphones                    | 239.245   | Timers 243                         |
| Hardware Assortments         |           | Transformers 230, 233, 241, 244    |
| Headphones                   | 245.251   | Transistors 227-229                |
| Hi-Fi Components 252, 253,   |           | Tubes, Radio & TV                  |
| Jacks                        |           | Variable Condensers                |
| Keys, Code                   | 239       | Volume Controls 231, 244           |
| Lamps, Panel                 | 241       | Wire 230, 231, 238, 241, 247       |
| Meters, Panel                |           |                                    |
|                              |           |                                    |

EXCITING NEW RECEIVER CONVERTER MODULES



SEPARATE CONVERTER MODULES



**TO RECEIVE** 

\$495

\$4.95

\$8.95

Efficient means of receiving Shortwave and VHF broadcasts. For use with your standard broadcast band AM radio. No actual connection to radio is required. Small radiation loop connected to module couples converter signal for reception on a quiet spot on the AM dial. Tuning is by small knob on module. Requires standard 9 V. transistor battery and 25' or more antenna for SW, or a short wire for VHF. Very easy-to-follow instructions supplied. Wt.

International Shortwave Converter Module No. 20A1157. Tunes 25, 31, 41 Meter Bands (7-12 MHz) VHF Aircraft Converter Module No. 20A1158. Tunes 118-128 MHz VHF Police And Fire Converter Module No. 20A1159. Tunes 30-50 MHz YOUR CHOICE,

FACH



**ELECTRONIC LATCHING RELAY MODULES** \$349

YOUR CHOICE ...

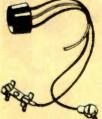
Tamper-proof "Lock-On" switch. Ideal for burglar and emergency alarms. Contains complete solid state electronic circuitry, ready for immediate use as an efficient latching relay for controlled switching of a 6 volt DC power source into any secondary circuit drawing up to 1/2 ampere. Requires 6 volt source into any secondattery and switches.

No. 20A1229. For Momentary Make Contact To Operate Choice No. 20A1230. For Momentary Break Contact To Operate Each.... \$3.49

#### METAL LOCATOR MODULE



Detects and locates larger metal objects at distances up to several feet away and smaller metal objects (such as coins) at distances up to several inches away. Use with AM radio (no connections required). Requires 9 volt battery, 5000 ohm pot, 30 feet of #22 insulated wire, and 2 pleces of wood. **\$5.00** No. 20A1238. Each ...



\$895 A complete self-powered miniature transmitter requiring no batteries, induction coils or other accessories. Broadcasts both sides of a telephone conversation to your nearby FM radio. Will not interfere with normal operation of telephone. (Limitations in use may be regulated by state law.) Wt. 4 ozs. No. 20A1215 \$8.95

**NEW CONFERENCE** 

TELEPHONE BROADCASTER



# Net Each COMPLETE BROADCASTS OVER NEARBY RADIO 95

FOR USE WITH ANY FM RADIO

Wireless transmitter is a complete Wireless transmitter is a complete radio station. Broadcasts from any place in the house into ony AM broadcast band radio. A terrific kit, fun to build, provides hours of ex-citement when completed. New mod-ule makes construction easy and compact. Module, lapel mike all necessary parts and instructions sup-plied. Wr. 1 lb. **\$5.95** No. 47A8517. Each.

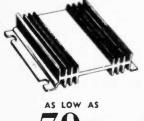
No. 218141. Bottery Eoch ..... 48c











**79c** 

#### MOTOROLA HEP INTEGRATED CIRCUIT KIT

KIT CONTAINS 5 IC OEVICES and Introduction to IC's through 8 Builders Projects.

Projects. Includes 2-HEP580 Dual 2-Input Gates, and 1 each of HEP581 4-Input Gate, HEP582 Dual Buffer and HEP-583 J-K Flip Flop. Contains data for constructing a Precision Tachometer, Audio Signal Generator, Electronic Siren, Frequency Standard, RF Signal Injector, 4-Input Audio Mixer, Ultra Hi-Gain Amplifier and Sine to Square Wave Converter. Instructions are prepared for the novice experimenter with tips on wiring, soldering and cross reference to other brands of IC's allowing building many other published projects, Each IC device in kit is housed in a TO-99 Case with 8 leads. Wt. 4 ozs. Motorola Hek-1 IC Experimenters

#### CENTRALAB SOLAR BATTERY Powers any 9 volt transistor radio From Sunlight

Works just like solar panels that power most U.S. sateliles. Only 34x 21/2 x 1/4" thick, yet converts required amount of sunlight Into electric current for operating 9 volt transistor radios. Simple to connect with 81/2" leads and battery snap-on connector included ..., no wiring changes necessary. Comes complete with mounting adaptor for attaching to back or top of radio. Spog. wt. 4 oz. **\$7.99** No. 20A1194. Special Each.



# ALLIGATOR CLIP LEADS

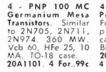








Silicon Pawer 7 Silicon Power Rectifiers. 2 to 6 amp ratings, 50-400 PIV. Stud mount, DO-4 case. Positive polarity. 20A1123. 7 F-990 For



4 . 10.Watt NPN 4 • 10-warr Power Transistors. For building or re-placement. TO-3 placement. TO-3 case. 15 volt min., Beta min. 25. 20A1110 4 For

.99c



8 Transistors sim-ilar to 2N404. Short leads for

printed circuit. One of the most popular switching

transistors ever

20A1112.8 for 99c





2 For ....

18A1332, 2 for 99c

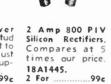


NPN Silicon 2 10-Watt Power 8 8 NPN Silicon Switching Transis-tors. TO-5 case. Similar to 2N333, 2N336. Freq. 8 MC, 150 MW, Vcb 10, HFe 70, 10 MA. Transistors. PNP type. TO-3 case. Similar to 2N155, 20A1124. 8 For .. 99c 990

4 15-Watt Power Transistors, TO-13 case, PNP type, case. PNP type. Similar to 2N158. For audio and switching applica-20A1119, 4 For 99c

3 NPN 100 MC Silicon 2-Watt Transis-tors. Similar to 2N696, 2N697, 2N1613. Vcb 60 V. HFe 40, 150 MA. TO-5 case. 20A1102 3 For 99c

40 Watt Power Transistor. Stud mtg., equivalent to type 2N173. Just it for power sup-



3 Raytheon CK722 Transistors. Cen-eral purpose type. Base amp factor 22. Freq. cutoff M 18A1446. 3 for 99c

Two 1 Amp SCR's. 100 V. TO-5 pkg. Use for switching. light dimmers. speed contral, etc. 2041249.

99.

2 For



2 NPN 15 W. Sili-con Power tran-sistors. TO-3 case. Audio type for linear operation, ser-vo amps., osc., in-verters, etc. 20A1207. 2 for 990

4 Silicon 1 Amp 600 V. Rectifiers. Top hat style. Top quality. For power supplies, radio, TV replacement, etc.

20A1104 4 for 99c



4 - 1 Watt Zener Diodes. Individually marked. 100 tolerance. Voltages

For





Transistor Socket Assortment, 10 Two 1 Amp 1000 PIV Rectifiers. Made by General Instrument. Small size, top hat style. 11/2" leads. Assortment, 10 bakelite sockets, Asst. styles for power, triangular or in-line types. 12A5000. 996 10 For



6 Pieces 400 MW Zener Diode As-sortment. Individually marked, 10%, ler No. 20A1204, Assorted 5 V to 25 V No. 20A1205. Assorted 26 V. to 50 V. No. 20A1206. Assorted 51 V. to 90 V. YOUR CHOICE PER ASST., 6 PIECES 990



Light Sensitive Photo Cells, Pkg. of 2, Cadmium sul-phide, Low ohmage 300, V. 75 MW. Cell resistance changes with light. 20A1113, 2 For..99c

6-600 PIV 1 Amp Rectifiers, Modern metal case, flangeless Silver lead. 20A1202 6 For 990

SOLAR CELLS

20A1116. Kit of 5.

5 Piece Power Tran- 10 Pieces Sub-Min-sistor Kit. Power lature 455 KC IF rating 4 to 50 watt, and Oscillator Coils. Germanium and sil- Ferrite core. Slug icon types, As-tuned  $\frac{1}{2}$ " sq. sorted case sizes. Shielded and un-.99c 13A5000.10 For 99c

Two 1000 PIV. 1000 MA Rectifiers. fiers. Glass en-closed. For service and building. Se-ries for extra HV. 2041201 2 For 990

4 to 25 V. 2041203 4 99c



highly interesting Germanium Photo Power Transistor, which requires only a 6 V, attery to operate relays, motors, etc. Regular two cell flashlight will "trigger" is device. Mounts  $1^{1}$ /" centers overall dia.  $1^{\prime\prime}$ . Includes building diagrams for battery to this device. use. Wt. 4 c 4 075 \$1.98 No. 20A1199. Each



RELAY SIZE 14 x 14 x 1" H.

The two basic components, a high quality extra sensitive relay and a light sensitive cell ..., plus circuit diagrams for building useful and interesting devices ... day-night control of lights or other electrical equipment, light artuated burglor alarm and remote contral TV "Commercial Killer." Many other uses will suggest themselves to the experimenter and engineer. Fine for production or traffic counters, daor openers, etc. Tiny glass enclosed light cell is anly 12" x16" with 2 wire leads. Relay, size 132x1 /2x118" H, nas SPDT 1 ampere contacts. Completed control Operates on 115 V. AC. No. 41A4022, Wt. 1 lb. Special Light Cell and Relay



4 KITS FOR \$8.88

changes light to electrical valtage. Ideal for powering all types of tran-sistorized equipment and experimental projects ..., i.e., lightmeters, radios, amplifiers, counters, etc. May be used in series or paralleled ar series paralleled for higher output. Perfect for science classes. Interaction

output. classes, laboratories, science projects, experimenters, b to  $3_4$  valt and up to 5 MA.  $3_4^{\prime\prime}$  square to  $3_4^{\prime\prime\prime}$  x 11/2", some with leads ottached. C 2 A A 4 Kits **S 8 8 8** hobbyist. Produces up Assorted sizes fram <sup>3</sup> No. 18B144. Wt. 6 az. Produces up to 34 3,4

\$2.49 \$8.88 For. Kit of 15 For



#### EXPERIMENTERS MOTOR SPECIAL ANTI-FRICTION BEARING TYPE

Designed to operate directly from the power supplied by Solar Cells Offers many fascinating experiments and science projects. Runs on 1.5 to 6 volts at 30 to 40 MA. Connecting a number of the cells listed above in series parallel will operate the motor. Wt. 10 oz. \$3.95 Int. Rect. EP50 Each



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2 Variable 2-Gang Capacitors. 1 with 280-10 mmfd RF, 100-6 mmfd osc. section; 1 with 135-10 mmfd RF, 90-6 mmfd. osc. section. 12A1801 2 For 99c 8 Tubular Electro-lytics. Range 5 mfd. to 100 mfd. Assorted voltages. For builder, serv-iceman for tran-sistor equip. Qual-ity import Asst. voltages, For transistor equip. Imported. imnort 15A5000, 8 for 99c 15A5001.8 for 99c

Machine

RH Machine Screws & Nuts. 100 each 4-40x $\frac{1}{2}$ ,  $6-32x1\frac{1}{3}$  screws, 4-40, 6-32, 8-32 nuts; 50 each 6- $32x3\frac{1}{4}$ , 8-32x $\frac{1}{2}$ screws and 75 #6 x  $\frac{1}{2}$  metal screws

RH

SCIEWS

8 Tubular Sub-miniature Electro-lytics. Range 5 mfd. to 100 mfd.

7 4474 Each

1 Lb. Cut Hook-Up Wire, Assorted Unimax AW6. Use colors, gauges, and as normally open Switch. 1/2 Meg. Volume colors, gauges, and as normally open lengths. Stripped or closed, Rated and tinned for 15 A. 125 V. 21/2 quick, easy use. x  $\frac{5}{20}$  x  $\frac{15}{20}$  M. Switch. Quality Import. Universal 18A1448. Special 2 For ......\$1.79

3" flatted shaft. 18A225. Each



"D" Size Flash-light Batteries. High quality, fresh stock for long life. Top quality import replaces Burgess 2U6, RCA VS-312, Eveready 216, etc. Imported at big savings! 214185. 3 For

Con be easily desoldered and punched board used for dazens of projects. Wiring easily removed or jumpered. Boards alone worth more than our un-believable low price! Wt. 1 lb. No. 180377. While 

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COMPUTER BOARDS

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Hermetically sealed glass tube with Hermetically sealed glass tube with a pair of magnetic overlapping reeds. Switches may be actuated with per-manent or electro magnets. High sen-sitivity. Rapid cycling. Mount in any position. Ideal for counting instru-ments, limiting switches, alarm sys-tems, etc. Size 23% " x3%" Dia. Would normally cost over \$1.00 each. No. 18A1433. \$1.99 \$1.99

5 For ....



AVAILABLE ONLY AT B-A Output 14 V. DC up to 1.4 A. Has screw terminals, 6 ft. AC cord and plug. Top quality priced way low be-cause of a lucky buy. Operates on 115 V. AC. Hefty 24 volt center tapped trans-former can be removed for other uses. The transformer alone is worth much more than our low, low price. Hurry! Buy several while they're available. No. 18C767. Each 99C 99c Each

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3 Pole, 3 Position Slide Switch. Con-trol to 9 different circuits. 5%" W. x 14." L. 3 amp, 125 V. AC. By Stackpole.

~ 18A1311. 2 For 

Big 2 Lb. Assortment of Standard Machine Screws & Nute Popular Radio-TV sizes. 12A2006. Per Asst. ....\$1.19



3000 Mfd. 30 V. Capacitor. Vinyl insulating sleave 31/2×1" dia. Solder lug terminals, Reg. net over \$2.00, 18A1423

Spec. Each 69c



Triple Section Electrolytic, 100-100-40 Mfd. @ 250 volts, 4½ x 1½,". Made in USA. Special Pur-chase Saving, 1881304

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18A1304.

Each

50 Rubber Grommets. High qual-ity tough, black rubber in sizes to fit holes 1/4 to fit holes 1/4 to 5/8" dia. in metal panel. Wt. 8 ozs. 18A509. 2A8000. 24 Pc. Asst. 49c Approx. 50 ... 69c

Transistor Sockets.

Printed circuit or chassis mtg type. Fits in-line and triangular base 3-

12A5127. Pkg. of 10.....99c

40 Mfd. @ 200 Volt Tubular Elec-trolytic. 11%+×1%"

Top quality American made,

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Bundle of Spa-ghetti. 24 pcs., each 9" L, var-nished high grade tubing in assorted colors and sizes. 2A8000. 10 Sets Pin Plugs 8 Heavy Duty 100 Assorted Sol-G Jacks. RCA type R ubber Foot deries Terminals. So popular for Bumpers. Tough, Most popular types molded rubber, ring tongues, slot-colors and sizes. 2A8000. 12A6037. Screw mt, 12A2468. Screw mt, 12A2

Asst. ....\$1.99



25 Hi-Voltage My-lar & Paper Mylar Tubular Capaci-tors. Assorted range of capaci-ties in 1000 and For RG8U and 1600 V. ratings. RG11U. Reg. net Made in USA. 18A1450. 25 Asst. ......9c Per Set .................99c

# CHEST FULL OF CAPACITORS

Miniature 50 Mfd. (a) 15 Volt Elec-trolytic Capacitor. Fine for crowded printed circuits.  $V_{14} \times V_{26}^{\prime\prime\prime}$  dia. Im-port.

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**CITEDI FULL UP CAPACITORS 155 CONDENSERS PLUS METAL STORAGE CABINET.** Just look at what you get: 20 Tubular Electrolytics, both single and duals, 50 Molded Tubulars, 200, 400 and 600 volts in most popular capacities; 50 Disc Ceramics; and 35 Midget Micas. 155 pieces total, all very usable values. Your average cost is less than 7c and the cabinet is free. Heavy gauge steel storage unit with "see-thru" clear plastic drawers meas-ures 12" wide, 534" high, 514" deep. Regular net value cabinet alone \$2.99. Shog. wt. 71/2 lbs. **Solution: Solution: * 

\$9.99 No. J8A233. COMPLETE KIT SPECIAL EACH .....

# CHEST FULL OF RESISTORS

**250 RESISTORS PLUS METAL STORAGE CABINET.** Here's what you get: 200-1/2 Watt and 50-1 Watt Insulated Resistors in most popular resistance values. All latest, small types by IRC, Stackpole, etc. Average cost per resistor less than 4c and the cabinet is free. Includes Metal Storage Cabinet, as with above. Shpg. wt. 6 lbs. \$9.99 With above, Snpg, wt. o i.us. No 18A235. COMPLETE KIT SPECIAL EACH...... No 37A8013. 12 Drawer Cabinets, Wt. 3 Ibs, Each..... \$2.99



with

Each





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Amazing law price! Top quality parts ta build a campact, dependable charger far 6 ar 12 volt batteries. Far full wave rectification using filament ar similar transformers af your choice. **Kit Contoins** 4-2 amp stud mtg. rec-tifiers, hdwe. kits for rectifiers, 3x 31/2'' heat sink and instruction sheet. **No. 20A1200 S2-DD** \$2.00 Special Each.....

SAVE ON BATTERY COST WITH AC ADAPTORS LOW CURRENT DRAIN ... REQUIRES ONLY PENNIES TO OPERATE



CONVERT: RADIOS, TAPE RECORDERS, WALKIE-TALKIES, PHONOS AND OTHER LOW POWER 6, 71/2, 9 or 12 VOLT BATTERY OPERATED DEVICES!

FOR 6, 71/2, 9 OR 12 V. RADIOS, ETC. SIMPLY PLUG-IN IN PLACE OF BATTERIES OPERATES ON 117 VOLT AC

Operates transistor radios, walkie-talkies, tape recorders and other devices from 115 V. AC. Regulated exact output voltages. Reliable noise-free operation. Simple to use —just plug adaptor into wall outlet and equipment. Requires no change in your equipment—unplug adaptor for portable use. Complete with adaptor clips for use on a variety of equipment. Wt. 34 lb. No. 13A8007—6 V. Output No. 13A8008—71/2 V. Output No. 10A3030—9 V. Output No. 10A3021—12 V. Output S4.95 \$4.95 No. 10A3021-12 V. Output.



**\$4**<sup>95</sup> B-A BARGAIN SPECIAL!

**SPECIAL:** 7½ V. MINIATURE AC POWER SUP-PLY for Cassette Tape Players. Plugs directly into many Cassette players for 115 V. 60 cy. AC operation. Saves batteries. Also has many other uses powering transistor devices of all kinds. Plugs directly into AC outlet. Has flexible lead and attached  $\frac{1}{2}n''$ dia, coaxial type power plug. Easily removable for installing any other type plug to fit equipment. Wt. 1 lb. 7½ V. DC output. No. 13 A8008. Special \$4.95 \$4.95 Special

# MINIATURE VARIABLE Voltage Power Supply Kit



Operates Transistor devices such as pocket radios from 110 V. AC—saves battery cost.

Continuously variable 0-12 V. DC. Excel-Lent for hand-wired or printed circuits. Provides 0-12 V. DC @ 6 MA, 0-9 V. DC @ 10 MA. Kit Contains: transformer-size only 1% x % x 1½" H., miniature full wave bridge rectifier, 2 miniature con-densers, miniature pot and diagram. 18A1378... Wt. 1½ Ibs. \$3.95 Special

\$3.95



Tiny self-contained unit operates from 115 V. AC providing proper float charging rate for a 1.2 V. Ni-Gad battery cell, Made for continuous duty use. Provides utmost economy of operation for all kinds of battery powered devices, flashlights, electric toothbrushes, radios, recorders, hobby equipment, etc. Charging current 100 MA, for 1 ampere hour battery. Charger size 2x13%x13%". Wt. 4 ozs. No. 18A1336. \$1.99 \$1.99 No. 18A1336. Special Each CHARCER FOR 4 NI-CAD BATTERIES. Requires series connection of batteries. Size 134" sq. x 2" long. Charging current 200 MA. For 2 ampere hour or larger battery. Wt. 4 oz. 18B343. Limited quantity. \$2.49

## BATTERY CHARGER KIT WITH DC AMMETER



Amazing low price! Top quality parts to build a compact, dependable charger for 6 or 12 volt batteries. For full wave rectification using filament or similar transformers of your choice. **Kit Contains** 4-2 amp stud mtg. rec-tifiers, hdwe. kits for rectifiers, 3 x  $31/2^{\circ}$  heat sink,  $21/4^{\circ}$  dia. D'Arsonval movement 0-8 DC amp meter and instruction sheet. instruction sheet No. 18A1343. Wt. 1 lb. \$3.95 Special Each

#### LOW EW PRICES

TRANSISTORIZED 6-9-12 V. DC @ 1 AMP

UNIVERSAL POWER SUPPLY

> 100's SOLD AT \$19.95

> > \$1 495

Provides well-filtered DC power from 115 V. AC line. For use with all kinds of battery powered transistor equipment, radios, intercoms, tape recorders, record-players, amplifiers, tuners, transceivers, experiments, etc. Input 115 V. AC 60 cps. Metered output . . . switches to 6-9-12 volts. Heavy duty metal case 6 x 31/2 x 21/2". Wt. 3 lbs. No. 13A8009. Top Import Value! Special Each.



Highly reliable power for every canceivable type of solid state device. Output voltage selected by front control. Meter indicator output voltage. Has pilot light, fused output with binding posts which accept phone tips or banana plugs. Housed in attractive black metal case with aluminum front panel. Top quality components and workmanship throughout. Size  $2/2 \times 4 \times 7''$  D. Shpg. wt. 3 lbs. **\$24.95** 



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\$5.95 No. 13A8012. Net Each .....













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100 CFM

NOISELESS 4-INCH HI-FI "BOXER" FAN

H1-FI "BOXER" FAN Cenuine "Boxer", made by IMC Magnetics Corp, Engineered specifi-cally to cool and ventilate enclosures for amplifiers, tuners, etc. Operates with a minimum of noise. Comes with mounting kit, vibration damping grom-mets, new self-adhesive easy mount and AC cord for wiring into equip-ment power switch. Can be installed to pull in or expell air or simply blow across components. Frame size: 418" sq. x 11/2" deep. No. 4144047. Wt. 3 lbs. \$14.95 Net Each

115 V 60 CY. Highly efficient, quiet operating, contin-uous duty. Made especially for circulat-ing cooling air through electronic equip-

ing cooling oir through electronic equip-ment, music systems, transmitters, etc. Very highest quality. Noiseless induction motor, Removed from new equipment— guaranteed perfect. Mode by Rotron. 41," sq. x 11/2" deep. Wt, 3 lbs. No. 18A1354 Special Each \$9.88

53 x 414"

BARGAIN PRICED!

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65 x" x 55 x"

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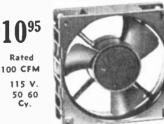
#### A B-A SPECIAL PURCHASE BARGAIN!

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#### **4-INCH ROTRON** "SENTINEL" FAN

B-A Buyers found a small lot of these precision balanced ball bearing rotor fans. They're made for continuous probuyers round a small lot of these precision balanced ball bearing rotor fans. They're made for continuous duty air movement in transmitters, amplifiers, etc., where heat and long duty cycle might disable fans with ordinary bearings. None better for that new linear amplifier! Size  $41_{12}^{12}$ sq. x  $11_{22}^{12}$  deep. Shpg. wt. 3 lbs. No. 18A1340. No. 18A1340. \$10.95 While They Last



115 VOLT AC-DC MOTOR WITH

FOOT CONTROL

AT LEAST A \$12.95 VALUE!

HIGHEST **INDUSTRIAL** OUALITY REC. NET AT LEAST DOUBLE

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MIDGET

BLOWER

124

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95%

Small size, high output approx. 50 CFM. Has molded nylon blower wheel 2" dia., 1" wide. Molded housing has  $1\frac{1}{2}$ " dia. air inlet,  $1\frac{1}{4} \times 1\frac{8}{16}$ " outlet. Powered by Howard Ind. motor rated 16 W. .003 HP. 115 V. 60 Hz AC. Overall size  $4\frac{3}{4}$ " max. dia., 3" deep. No. 1841440. 18A1440. \$6.95 While Supply Lasts.

23.50

**\$6**95



Circulates 400 CFM. Powered by Fosco type 21 motor designed especially for ventilation and exhaust fons. Precision, open frame shaded pole, 1800 RPM motor for with bronze bushings.

One piece Tarrington stamped oluminum blades with Allen hex screw. Motor 31/4" dia. Overall length 4". For 115 V. AC. Shpg. wt. 2 lbs. No. 18A1293. Special Each....\$3.95



MOUNTED FAN

DELUXE

4-INCH

PANEL

Small size fits inside most equipment. Four bladed nylon impeller with life-time lubricated Howard motor moves approx. 100 cu. ft. of air per minute. Formed wire grille completely encloses blade. Fanel size  $4_{16} \times 6_{18}$ ". Shpg blade. Fanel size 4,76 x 61/8". Shpg. wt. 2 lbs. No. 18A1286 Special Each \$4.95



Quiet operating, compact balanced as-sembly especially well suited for cool-ing tubes and equipment. Can be mounted right on the chassis with other parts. Powered by high quality continuous duty shaded pole motor equipped with bronze oilite bearings, 1/4" shaft. With four blade Torrington impeller. Size 21/2" W. 3" H, 3" deep. For 115 V. 60 cy. AC. No. 18A1353 Spacial Each \$2.49 **Special Each** 10 60 \$2.19



Each

For motor driven models hobby tools, sewing ma-chines, etc.

With 115 V. AC or DC applied direct to motor, no-load speed is approx. 10,000 RPM. With foot control rheostat, speed can be varied smoothly from slow to fast. Motor shaft is  $J_4^{\prime\prime\prime}$  dia, extends 13/16". Overall size: 21/4" H, 25%" W, 43%" L. Black finish, with 23" lead. Name plate rating 1.5

200

Foot Control. Top quality speed control for above motor,  $33_8$ " W, 5%" L,  $21/_2$ " H. Supplied with 10' AC cord and plug-in junction block to accommo-

21/2" H. Supplied with 10' AC cord and prop ..., date motor and light outlet. Combination Deal — Motor, Pulley, 6" Round Belt, Foot Control and Cord Assembly, Shpg. wt. 4 Ibs.











Standard for many walkic-talkics, re-corders, radios. Consists of 1 large and 1 small size plug. Top quality construction. Safe non-shorting design. Easily attached to power supply leads. Wt. 3 oz. No. 12A6064 Conside Pate





#### PERFORATED BOARDS

Quick. convenient way for assembling transistor circuits. 1/6" thick, 1/6" dia. holes set 1/8" between centers. Aver-age wt. 4 ozs. No. 12A9626. 21/6×33%". 16c Each

No. 12A9628. 331x634". Each 45c No. 12A9630. 715 x634". Each 75c No. 12A9631. 1012x715". Each....\$1.20 12A2309. 1's" dia Clips. 100 For \$1.75

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#### **NEW "ZYBORD" UNIVERSAL** PRINTED CIRCUIT BOARDS

PRINTED CIRCUIT BOARDS Requires No Special Tools — Only a Size 46 Drill, Knife and Soldering Iron. A totally new design concept. Boards come with copper "circuist" etched in uniform 18 lines per inch pattern, horizontally on one side, ver-tically on other. By drilling through board at marked crossover points for interconnecting top and bottom cir-cuits, then cutting foil at appropriate points for isolation or for inserting series components, any circuit can be created. Allows usage of all component parts, transistors, IC packs, resistors, condensers, etc. Comes with simple instructions for converting conven-tional schematic to Zybord layout. All boards have one ounce copper (.0014) both sides and solder plated with 63% tin and 37% lead to a thickness, .062. Phenolic is standard military grade paper phenolic NEMA XXXP, Class is military grade glass epoxy. NEMA C-10. Stock Fact No. Description Each

| Stock            | Fact  |                  | Net    |
|------------------|-------|------------------|--------|
| No.              | No.   | Description      | Each   |
| 12A9695          | 7681P | 3x3¼4" Phenolic  | \$1.00 |
| 12A9696          | 7681G | 3x31/4" Glass    | 1.30   |
| 12A9697          | 7682P | 31/2x7" Phenolic | 1.90   |
| 12A9698          | 7682G | 31/2x7" Glass    | 2.60   |
| 12A9699          | 7683P | 7 x9" Phenolic   | 3.70   |
| 12 <b>A970</b> 0 | 7683G | 7 x9" Glass      | \$,55  |
|                  |       |                  |        |





(1) SEMI-MIDGET 365 MMF. All brass and aluminum construction with smooth action ball bearings.  $\frac{1}{4''} \times \frac{1}{4''}$  long shaft. Panel or base mount. 13/6'' W. x 13/6'' D. Import. 79c 10 Lots 71c

(2) DUAL 365 MMF. Beautifully made with ball-bearing rotor and built-in trimmers. Size only  $1/_8 \times 1$ ,  $\times 23/_8$ " L. 1/4" brass shaft extends  $3/_8$ ". For tuned radio frequency, crystal, transistor and experimental circuits. Shpg. wt.  $1/_2$  lb. \$1.29 \$1.19 Each

No. 12A2463, Each HARD-TO-FIND MIDGET APC VARIABLES AS LOW AS 19c

Finest quality, U.S.A. made. Actually priced far below manufacturers cost. Limited quantities available. Avg. shpg. wt. 4 oz. With screwdriver slotted shaft.

| Stk. No. | Max.<br>Mmf. | Min.<br>Mmf. | Each |
|----------|--------------|--------------|------|
| 18482    | 17           | 2            | 19c  |
| 18B101   | 30           | 5            | 19c  |
| 18A1447  | 100          | 8            | 39c  |





Condenser 1-in. Square

Only 1" square x  $\frac{1}{2}$ " deep. Close fitting clear plastic 1 $\frac{1}{4}$ " dia, dial with gold trim and numerals. Knurled edge for easy tuning. Wt, 4 oz. No. 12A2404

69c Special Net Each ......







QUIET ACTION

PUSH-BUTTON WALL

SWITCHES

PUSH BUTTON

Very high quality precision made device for moving most any kind of liquid, even caustic solutions. Has no metal parts in liquid flow line. Would be ideal for fountains, for circulating lubricants, coolants, laboratory solutions, water, etc., where high volume and pressure are not required. Inlet and outlet are  $V_4^{\prime\prime\prime}$  ID,  $V_8^{\prime\prime\prime}$  OD. Electro mechanical drive operates with short but powerful stroke. Cast metal base 6" x 15%" x 2" H. Wt, 1 lb, With 2- Two foot lengths of neovice tubing etc., where high volume an 1/4 " ID, 3/6" OD. Electro mostroke. Cast metal base 6" lengths of neoprene tubing. \$5.95 No. 18A1419, Special Each





FOR DOORS, ALARMS, ETC.

FOR DOORS, ALARMS, ETC. Pick-proof—Made for Maximum Security. "Locked" position holds circuit open Dialing a 3 number combination closes circuit until dial is again turned to a random setting. Very well made, with black finished dial, white mark-ings and chrome finished die-cast en-closure and 2 wire lead from rear. Overall diameter 21/2". Mounts in 13/4" hole, extending 11/4" deep. American made. American made.

No. 18A1375. While Limited \$4.95 Quantity Lasts, Each.



### DPDT PUSH-PUSH SWITCH

Single plunger Very high quality. Single plunger "push" for "on", push again for "off", etc. Built around two high quality snap action micro switches. Overall size  $1\frac{1}{2} \times \frac{1}{8} \times 2^{"}$  behind panel mounting bushing. Mounts in single  $\frac{3}{6}$ " hole. Push shaft  $\frac{1}{4}$ " dia. Rating 15 A 250 V. AC. 69c No. 18A1351. Special Each



Provides up to 30 minutes "on" operation, then turns "off". 20 A.  $\frac{1}{23}$  HP 115 V. AC.  $\frac{21}{2}$ " dia, x  $\frac{1}{2}$ " deep behind panel. Worth at least deep behind panel. Worth \$5.00! No. 18C598. While Limited

99c Supply Lasts, Each .....





Highest quality import value at far less than American made products. Specify Red or Black. Wt. 6 oz. 66 Ft. Roll. 1747032—Black Choice 57c 6 \$2.99 17A7032—Black Choice 57c <sup>6</sup> \$2.99



SWITCH Very high quality, with metal plunger. Rated 15 A. 250 V. AC. Mounts in  $3_{6}^{\prime\prime\prime}$  hole. Shank  $3_{6}^{\prime\prime\prime}$  L. Body size  $3_{4}^{\prime\prime}$  x  $15_{6}^{\prime\prime}$  x  $3_{8}^{\prime\prime\prime}$  behind panel. Made by Robertshaw. Priced way below



OFF POSITION A real find for home built intercoms, audio systems, etc. Three position lever actuates all four poles of switch wafer. Up position "off", center posi-tion positive "on", down position "on" with spring return to middle. Size 2" x 76" x 15" behind panel. With black push-on knob. Regular price \$1.47. No. 18A1309 59c Fach 53c

59c Each **Special Each** 



Works on 6 to 25 V. 60 cy. AC. Use wherever an attention getting signal is desired. Adjustable diaphragm ac-tion amplifies sound. 2" dia. 1 ½" thick. Single screw mtg. \$1.69 \$1.69 No. 18A1414. Each.





No. 18A1282. Special Eoch. . \$2.49





No. 33A360.

Complete with Tubes.....

\$12.75

Gorgeous molded plastic case is grey with white trim. Collapsible carrying handle folds into case. Clear plastic reel cover shows tape on reel, can be operated with cover closed. Switch control mike plugs in side of case. Records dual track approx. 45 min. (221/2 min. each track) on 560 ft. 31/4" tape. Supplied with 200 ft. tape and reel and take-up reel, one 9 volt battery and two size "C" flashlight cells. Miniature size  $73/8 \times 8 \times 21/2$ ". Shpg. wt. 4 lbs. **\$16.88** 



Each

6c 7c

12c 14c

.26c

340

650

11

690

59c 39/

690

69c 88c

69c

.88c

## SAVE ON HIGH QUALITY HI-FI INTERCONNECTING CABLES



Finest quality featuring shielded silver-grey audio cable. Plugs and jacks molded directly with polyethylene for a more reliable trouble-free connection. Shpg. wt. 6 ozs. 30 ft. coils 1 lb.

| ① PHONO PIN PLUG ONE END, STRIPPED & TINNED OTHER END       |
|-------------------------------------------------------------|
| No.33A6565.36". Each                                        |
| No.33A6566. 72". Each 69c No.33A6568. 30 Ft. Each \$2.49    |
| (3) PHONO PIN PLUG BOTH ENDS                                |
| No. 33A6569. 36" Each                                       |
| No. 33A6570. 72". Each                                      |
| (3) PHONO PIN PLUG ONE END, PHONO JACK OTHER END            |
| No. 33A6573, 72", Each 79c No. 33A6574. *30 Ft. Each \$2.69 |
| PHONO PIN PLUG ONE END, PHONE PLUG OTHER (Not Illus.)       |

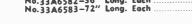
No.33A6575.72" Each \$1.09 No.33A6576.15 Ft. Each \$1.49

## **RIGHT ANGLE PLUG HI-FI CABLES**





## COILED HI-FI CONNECTING CABLES



**DUAL STEREO HI-FI CABLES** 



11



#### 72 INCH AUDIO HI-FI CONNECTING CABLES WITH MINIATURE PLUGS

| Finest quality shielded silver-arev audio cables, plastic covered. All quality imports, Works with most Japanese recorders and radios. Average shpa. wt. 1/2 lb. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Miniature molded plug one end to molded RCA type jack other end.     No. 33A6577. Each     State                                                                 |
| 3 Miniature molded plug one end to standard molded phone plug other end.<br>No. 33A6578. Each                                                                    |
| 3 Miniature molded plug one end to RCA type pin plug other end.<br>No. 33A6579. Each \$1.29                                                                      |
| Miniature molded plug one end to standard shielded inline jack other end.     S1.49                                                                              |
| (3.9 ft, extension cable with miniature plug and jack. Use for speaker, earphone                                                                                 |
| No. 33A6581. Each                                                                                                                                                |





For recording direct from Radio, Phono or TV, Flexible 72" two conductor cable with attached insulated alligator clips and RCA pin plug. Comes with pin plug to phone plug adaptor. Wt. 8 oz. 99c No. 33A6586. Special Each.....





#### **25 FT. TELEPHONE** EXTENSION CABLE

Standard style 4 prong plug and socket as used with regular telephones, Fully as

phones. Fully assembled with durable resistant plastic 25 ft. 4-wire cord. Fine for telephone-intercoms, etc. Shpg. wt. łb.

No. 32A4002. Special Each. \$2.49



6

06

(1)







Heavy flexible, tinned capper conduc-tors sheathed with liberal thickness of Tors sheathed with liberal thickness of live rubber and attached to rugged rubber plug with durable spring con-tacts. Pearl gray. Shog. wt. 8 oz. No. 41 A372 Special Each 49C 10 Lots, 44C

3

#### U/L AC LINE CORDS

Extra flexible "zip-apart" size 18 POT plastic cords with molded attach-ment plug. Free end stripped. Avg. wt. 3 oz.

| 6 Ft. Brown or<br>41A332.<br>Choice Each                   | Gray, 5<br>35c | 10<br>For | <sup>color.</sup><br>53.10 |
|------------------------------------------------------------|----------------|-----------|----------------------------|
| 71/2 Ft. White<br>18A1397. Ea<br>9 Ft. Brown<br>41A333. Ea |                |           |                            |
| SAVE! 18-2 SV<br>18 Ft. Gray<br>18A1398. Ea                |                | 000       | c                          |



Moisture-proof extra flexible vinyl cord sets with "molded-on" UL ap-proved caps and connectors. For indoor and outdoor use with power tools, appliances, lighting equipment, etc. Specify Black or Red.





Highest grade, extra flexible plastic POT (SPT-1) zip cord with size 18 conductors. Fine for speaker hookups, AC extensions, etc. Brown or Ivory. Shog. wt. 100' 1 lb.

| 2863. \$1.12 100 FT. \$ | 3.79   |
|-------------------------|--------|
| 1000 Ft. For            | 328.42 |
| Cord Retai              |        |

Wedge type fits 3/6 to 1/2" dia, holes. Grips two con-ductor zip card firmly. Flexible black polyethylene. Import special



\$14.95

No. 29A609. Special Each \$14.95

248



Special Each

Your Choice Each ....



For recorders, paging, ham and CB, etc. Dynamic, high impedance, non-directional. Comes with lavalier neck cord, desk stand. Slips out of stand for hand held use. Response 50-13,000 cps. Output -55db. 5 ft. cable. No. 298350. \$5.95 🔳 Special Each

#### RUGGED DYNAMIC MICROPHONE

Especially suited far hard usage. Beau-tifully proportioned for desk stand or floor stand. Instantly removable from swivel stand adoptor for hand held "stick" mike applications; plenty rug-ged for PA, paging, recording, confer-ence setups, etc. Response 80-8,000 cps, output —56 db. High impedance. Has slide type on-off switch and de-tachable 6-ft. cable. Apprax. 7½ long, 1¼" dia. black and chrome fin-ished, Very nice indeed. Shog. vt. 1 lb. No. 29A459. \$5.95 No. 29A409. Quality Import....

# VERSATILE DYNAMIC MICROPHONE WITH ADJUSTABLE MIKE STAND

A beautiful mike you will be proud to own. Perfect for recording, pub-lic address, paging and general use. Completely versatile. Use on its own adjustable desk stand, for hond-held applications or on standard  $\frac{1}{20}$ "-27 floor stands. Excellent sound pickup from all sides. Rugged construction. Withstands heat and shock. Die cast all-metal body and base. Has con-venient off-on switch. Output -52 db. Response 50-15,000 cps. 6 ft. detachable card with standard 1/4" phone plug attached Black satin and brushed chrome. Imported to give you big savings! Shog. wt. 21/2 lbs. No. 298275. Spec. Ea. \$12.95 No, 298 275, Spec. Ed. \$12.95

#### LATEST DESIGN SLIM DYNAMIC MIKE

Latest slim design for hand held applications or fits stand with instant slip-on swivel adapter supplied. Single direction pickup. Fine for PA, paging, recording, etc. Compact and rugged, will withstand lots of hard usage. Not affected by high temperature or humidity. Response 40-12,000 cps. Output -52 db. High impedance. Handy on-off slide switch. Only  $61/4^{\prime\prime\prime}$  long,  $1/6^{\prime\prime\prime}$  diame<sub>1c.</sub> Black and chrome finish. 5 ft. detachable cord. High quality import. Shpg. Wt. 1 lb. **\$8.95** 



# NEW! MINIATURE LAVALIER DYNAMIC MIKE

MIKE ELEMENTS 50,000 Ohm, -55 db. 50-12,000 Hz. 11/4" D. x 15/8". **CA** OC \$4.95 No. 29A327. Special Each... Hi and Lo Impedance. -5. 13,000 Hz. 178" D. x 158 52 db. 40-No. 29A328. \$5.95 Special Each Hi and Lo Impedance. -5 14,000 Hz. 1%" D. x 13% 53 db. 40-No. 29C260. \$5.95 Special Each

DYNAMIC



# FANTASTIC SAVINGS PRICE CUT \$5.00!

#### CARDIOID DYNAMIC MICROPHONE SINGLE DIRECTION PICK-UP

**DUAL IMPEDANCE** 

WHILE LIMITED SUPPLY LASTS

Was one of our best sellers at regular \$13.95 price! B-A bought the remaining warehouse quantity in order to pass along this terrific saving.

saving. Fine for PA, recording, both voice and music. Will stop or greatly re-duce feed-back hawl on PA sys-tems and allow greater working dis-tance from mike. Quickly changed from regular high impedance to 50 ohm low impedance, allowing long mike lines without frequency lass. Has off-on switch and detachable cable. Flat response 60-12,000 cps. Output -62 db. Swivel mounting for 5/e-27 stands. Shpa. wt.11/2 lb. Shpg. wt. 11/2 lb.

\$8.95 No. 29A604. Spec. Ea.....

FΜ





Effective and compact! Unlimited applications, wherever user must be free of attached microphone cords as normally used on PA systems. Ideal for auctioneers, ministers, etc. when used with an FM set to reproduce the sound. Sturdy all-metal compact case  $3' \times 116'' \times 234''$ , weighs only  $71_2$  ozs. with case. Holds regular 9 V. battery. Wt. 8 ozs. Top quality import. with case. H No. 29A503. \$19.95 Special Each

**DELUXE MODEL** 

No cables necessary. Ideal for stage and sporting events. Mike broadcasts to any FM radio or FM tuner covering 88-108 MC connected to P.A. amplifier. Operates on one self-contained 9 V. battery. Frequency response 20-20,000 Hz  $\pm 2$  db. Comes complete with standard 9 V. battery and operating instructions \$29.95 No. 29A630. Net Each.

NOW ELECTRIC GUITAR SOUND THE CORDLESS WAY!



Freq. Resp. 20 to 15,000 Hz. Provides faithful reproduction without wire connections. Plugs into guitar, broadcasting up to 50 feet to your FM radio or tuner and Hi-Fi amplifier system. Chrome plated brass case contains electronics encapsulated in epoxy. Standard  $V_4^{\prime\prime\prime}$  plug. Less battery. No. 40A5000. High Quality Import. \$12.95



\$10.95

Dash

\$6.95

### VOLUMETRIC AIR SUSPENSION SPEAKERS

**MINI 2-WAY SPEAKER SYSTEM** 

PAIR \$3850 EACH \$1 95

A new dimension in sound! Unsurpassed by compact speaker systems selling for over \$55.00. Beautiful oiled walnut finish with matching grille cloth. Fits anywhere ... only 10" H.x.6" W.x.65%" D. Provides depth and brilliance never before possible in a system this small

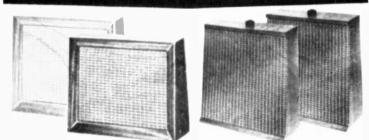
this small. High efficiency requires small power to drive. Works with tube or solid state components. True bass re-sponse from specially designed heavy magnet woofer. Clear, crisp highs provided from highly efficient tweeter. Ideal for mono, perfect for compact stereo systems. Freq. resp. 40-20,000 cps. For 8 or 16 ohms input. Shpg. wt. 4 lbs. Imported for fantastic savings! No. 33A2025 \$19.95 Pair For \$38.50 Each

### MINIATURE 2-WAY SPEAKER SYSTEM

## IN DELUXE WALNUT ENCLOSURE

WALNUT ENCLOSURE Response 40 to 18,000 cps—15 watts music rating. Small and mighty 9¼" sq., 3¼" D. Will improve performance of most music systems. Excellent add-on for transistor radios and small recorders. Has high com-pliance woofer and super tweeter with powerful ferrite magnets. Solidly built. Impedance 8 ohms. Wt. 4 lbs. High Quality Import No. 33A2041. \$14.95 Pair \$27.95





For use with hi-fi, intercom, background music or extra extension in the home. Compact sloping front enclosure has walnut picture frame molding with beautiful plastic grill cloth. Flat base will set on horizontal surface, or can be hung on wall. Contains heavy duty speaker with 2.15 oz. magnet. 8 ohm voice coil. Size:  $71/2 \times 93/4$ ". Top 13/6" tapering to 21/2" at bottom. Wt. 5 lbs. No 33A2043. S6.95 Pair for \$11.95

Quality Import. Each ......

SLIMLINE SPEAKER WITH LEVEL CONTROL EXCELLENT DETARTER WITH LEVEL CONTROL Excellent tone quality, fine appearance, Has volume control on outside of cabinet. Contains heavy duty speaker with 2.15 oz. magnet, 8 ohm voice coil. Walnut finished wood with neutral tone grill cloth. Size 93/4 x 93/4" tapering from 3 to 4", Quality import. No. 33A2042. **CR 05** Pair

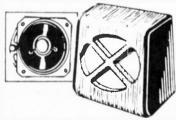
\$8.95



WIDE RANGE SPEAKER In Walnut Enclosure WITH BUILT-IN VOLUME CONTROL

Complete, ready to hook up to any radio. TV. phono, hi-fi, etc. Beautiful Walnut finished hardwood enclos-ure with attractive modern grille. Completely enclosed for finest baf-fling of heavy-duty 6/2" PM speaker. Provides full wide-range tone. Built-in fader control-varies volume without affecting other speakers in system. 4-8 ohm V.C. Shgs. wt. 8 lbs. No. 33A3504. S8.95 \$8.95

Import Special



\$16.95

## 4-INCH PM SPEAKER IN WOOD BAFFLE HANDY MIDGET SIZE---MOUNTE AND READY TO USE MOUNTED

AND READY TO USE Finished 2-tone natural wood minia-ture cabinet, closed at rear. Contains full 4" speaker with heavy magnet. 3.2 ohm V. C. Fine for intercom, re-mote or chairside TV-radio extension. A dandy speaker for code practice, short wave listening, audio experi-menting of all kinds. Built-in two prong jack and plug for quick con-nection. 51/8" W. 31/4" D. 51/2" H. Shgg. wt. 2 lbs. No. 49A4004. Import Special \$3.69 No. 49A4004. Import Special \$3.69



\$1495

### STEREO HEADPHONES WITH TWEETERS

Best looking, best performing stereo Best looking, best performing stereo headset we've seen! Finely finished in light gray overall. Workman-ship and appearance belie the ex-ceptionally low B-A price! Fully adjustable with soft padded ear cushions, makes private listening a real pleasure. Room noises are shut out. Tweeter level controls on each phone. Response 30-15,000 cps. 8 ohm. 7 ft. cord with 3 circuit plux. High quality import. **33A6600** Wt. 2 lbs. Each. **\$14.95** 



20 ft. gray extension cord with 3 circuit plug and jack. Use with stereo hendphones for private listen-ing. Shng. wt. 10 oz. Quality Im-port. \$2.49 No. 33A6601.Each port. No. 33A6601.Each



## **TERRIFIC LOW PRICE** COMPARE ANYWHERE! STEREO HEADPHONES

Big soft ear cushions shut out room noises, are comfortable to wear. Full Full 



to amplifier speaker term-Connects for inals. Has change-over switch for speaker or phones, stereo phone jack. 36" leads. In gray plastic enclosure. Built-in attenuator prevents headphone overload, Finest import. \$2.69 No. 33A6508, Net Each

## REMOTE CONTROL STEREO LISTENING STATION







\$3.95 Targer Inductive-Capacitive Network than above for lower 1000 cps crossover. Insertion loss only  $\frac{1}{2}$  db. Use with mid-range tweeter and woofer for 2-way speaker combination; or for woofer, mid-range, and tweeter 3-way system in combination with 2000 cps crossover above. Solder lug terminals. Complete instructions included.  $\frac{3}{2} \times \frac{4}{4}$  use name Solder lug ter plate, 2" high. \$4.95 No. 33A6512, Shpg. wt. Flb Net Each

© DELUXE EXTRA HEAVY MACNET  $3\frac{1}{2}$ -INCH CONE TWEETER Like used in expensive hi-fi speaker systems. Direct radiating cone type tweeter with damping to prevent peaking and metallic harshness. Enclosed back prevents interaction between the other speakers in multiple 2, 3 or 4-way systems. Heavy 3 oz. ferrite magnet provides 20-watts power handling capacity. Frequency response 2000-18,000 cps.  $\frac{3}{4}$  inch V.C. 8 ohms im-pedance.  $\frac{31}{2} \times \frac{31}{2} \times \frac{21}{6}$ " deep. Shpg. wt. 1 lb. **\$4.95** \$4.95 No. 33A2040, Special Net Each

( HORN LOADED COMPRESSION TWEETER

Actually the price belies the quality. Here is an exceptional value! Same acoustic design as used with the more expensive speaker systems

Long throat modified hyperbolic horn provides wide angle high frequency sound dispersion and is compression loaded to flatten the response curve. Handles 20 watts of power with o flat frequency response from 2000 to 20,-000 cps. Full 1" V.C. Imp at 4000 cps. 8 ohm. 3x714'' flange requires 2x6'' baffle cutout,  $6V_8''$  deep. Low-lustre black and metallic gold. \$6.95

## Shpg. wt. 21/2 lbs. American made No. 33A2029, Special Net Each 1

### ③ EXPONENTIAL HORN TYPE MID-RANGE TWEETER

Fills the need for mid-range horn in 3-way speaker systems or mid-range and tweeter in 2-way systems. Same type as used in costly home and theatre systems ... of a small fraction of their usual cost. Long 10" horn with  $3x9\frac{1}{2}$ " mouth repraduces 900-20,000 cps smaothly, cleanly, and efficiently ... free of "humps" or "peaks" in the respanse curve, with-aut distartion, and with high output to match even large woofers.  $4x10\frac{1}{2}$ " flange requires 3x9" cutout. 20 wat power rating. Low-lustre black and metallic gold. Overall length  $11\frac{1}{2}$ ". \$7.95 No. 33A2030, Shpg. wt. 4 lbs. Net Each.

### BUILD YOUR OWN 2 OR 3-WAY SPEAKER SYSTEMS WITH THESE **B-A STEP-UP**



HIGH FREQUENCY STEP-UP KIT NO. 1

Extends the range of single voice-coil speakers to beyond the range of audibility. Consists of Tweeter, 2-Way Crossover, and L-Pad for tweeter volume control. No. 33A2031. W1. 31/2 lbs.

\$9.95 Special Each 252



### MID-RANGE STEP-UP KIT NO. 2

Add to woofer-tweeter 2-way speaker system, or single speaker, to improve mid-range and lower high-freq. range. Consists of Mid-Range speaker, 2-Way Crossover, and Mid-Range vol-ume control. Wt. 5½ lbs. \$11.95 No. 33A2032, Special Each



COMBINATION MID-RANGE AND HIGH FREQUENCY STEP-UP KIT NO. 3 FOR 3-WAY SPEAKER SYSTEM 





### TOP QUALITY AT LOW, LOW PRICES! WITH ALNICO V HIGH **EFFICIENCY SPEAKERS**

The measuring stick for speaker efficiency and its value is the Magnet Weight. Be sure you check when you compare prices. All have 3.2 ohm voice coils (except 34A424 and 34A423 which are 6-8 ohm\* and 18A1401 which is 45 ohm<sup>+</sup> for intercoms).

| Size     | Mag. Wt. | Illus. | Shpg.<br>Depth | Wt. Lbs. | Stk. No. | Each   | 10 @<br>Each |
|----------|----------|--------|----------------|----------|----------|--------|--------------|
| 3″       | 1.47     | 3      | 21/4"          | 1/2      | 34A415   | \$1.92 | \$1.75       |
| 4″       | .55      | 3      | 11/3"          | 1/2      | 18A1399  | 1.19   | 1.09         |
| 4″       | 1.00     | 3      | 2%"            | 1        | 18A1400  | 1.39   | 1.29         |
| 4"†      | 1.00     | 3      | 2"             | í,       | 18A1401  | 1.95   | 1.78         |
| 4″       | 1.47     | 3      | 21/4"          | 1/2      | 34A416   | 1.93   | 1.75         |
| 5″       | 1.47     | 1      | 2ª‰"           | 3/4      | 34A417   | 2.30   | 2.12         |
| 5″       | 2.15     | 1      | 22%4"          | 1        | 34A418   | 2.60   | 2.34         |
| 6″       | 1.47     | 4      | 24%            | 1        | 34A419   | 2.39   | 2.15         |
| 6″       | 2,15     | 4      | 25%"<br>31%"   | 11/4     | 34A420   | 2.79   | 2.51         |
| 8″<br>8″ | 2.15     | 1      | 311/4"         | 11/2     | 34A421   | 2.99   | 2.79         |
| 8″       | 3.16     | 4      | 3%             | 13/4     | 34A422   | 4.19   | 3.89         |
| 8"*      | 6.8      | 4      | 4"             | 23       | 34A423   | 5.65   | 5.15         |
| 12"*     | 6.8      | 1      | 51/2"          | 3        | 34A424   | 6.95   | 6.35         |
| 4 x 6'   |          | 2      | 21%4"          | 3/4      | 34A425   | 2.69   | 2.42         |
| 5 x 7'   |          | 2      | 2'%."          | 117      | 34A426   | 2.77   | 2.51         |
| 6 x 9'   | 2.15     | 2      | 215            | 1%       | 34A427   | 3.29   | 2.99         |

May Now Be Assorted for Quantity Prices

## MULTIPLE IMPEDANCE SPEAKERS FOR TRANSISTOR AUTO RADIOS



\$279 AND UP PRICES FROM For replacement ar rear seat speaker installations, Readily adjusts for 10, 20 or 40 ohm impedance. 6 x 9" of shallow design only 21/4" deep. Heavy

99c

|                            | 2.18<br>shpc | 3 oz.<br>1. wt | cup | Ъ    | nag  | nets, | 17    | voice    | coil.    | Average |
|----------------------------|--------------|----------------|-----|------|------|-------|-------|----------|----------|---------|
|                            | No.<br>Net   | 34A<br>Eoch    | 388 | k. ( | \$′′ | Pin C | ushic | <b>m</b> | <b>S</b> | 2.79    |
| ". Net Each<br>)". Net Eac | i<br>:h      |                |     |      |      |       |       |          |          | \$2.99  |

34A389. 4 × 8". Net Each 34A390. 4 × 10". Net Each 34A428. 5 × 7". Net Each 34A429. 6 × 9". Net Each

**POWERFUL 10-WATT MULTIPLE IMPEDANCE 6x9"** 



| Big 6 oz. ceramic magnet<br>watts of pawer. Whizzer cone                                                   | for 10<br>for ex- |
|------------------------------------------------------------------------------------------------------------|-------------------|
| tended range tone. 3/4" V.C<br>tiple imp. 10, 20 or 40 ohms                                                | . Mul-            |
| low mtg., 2 <sup>3</sup> / <sub>4</sub> ".Wt. 1 <sup>1</sup> / <sub>2</sub> lb.<br>No. 34C209, Special Eo. | 1.99              |

## WHOPPING BIG SAVINGS!

## TOP QUALITY AMERICAN MADE PM SPEAKERS **BUILT FOR A LEADING HANDCRAFTED CONSOLE & TV SET MANUFACTURER**



### EXCEPTIONAL SPEAKER BARGAINS



WORI D FAMOUS NORELCO **TWIN CONE** HIGH FIDELITY SPEAKER

You would usually expect to pay 3 times as much for equal quality. Ideal replacement for older type speaker in record players, TV sets, radios, etc., or for hi-fi systems where space is limited. Handles up to 10 watts. Frequency response 60-18,000 cps. Impedance 8 ohms. \$4.99 No. 33A 20 50 Special Each....\$4.99



Special design for optimum performance with guitars and other musical instruments. High efficiency for clear distortion-free sound at high volume. Exception-ally well made. Heavy basket frame and special cone designed for bass note reproduction of guitars. Mode for B-A by a top American manufacturer. 8 ohm impedance. 6.8 oz. magnet,  $1\frac{1}{2}$ " voice coil. Shpg. wt. 5 lbs.

\$8.95 No. 348224. Speciol Buy

NEW LOW PRICE!

8-INCH OVAL HIGH FIDELITY SPEAKER

15 watts peak power.
30 to 15,000 cps range.
Extra good quality hi-fi speaker at B-A's special purchase savings! Just like speakers used in new expensive

compact portable stereo systems. Big 4.7 oz. ferrite magnet 1" voice coil. Handles 15 watts peak. Only 21/4" D. x 4" W. Dust screen. Made in U.S.A. Shpg. wt. 11/2 lbs.



## AMAZING VALUE! 2<sup>1</sup>/<sub>2</sub>" x 10" SPEAKER

FITS MOST UNUSUAL SPACES 





(e) 4x10 PM Speaker, 1.47 oz. magnet. 8 watts. 8 ohm V.C. 4 hole mounting. Shog. wt. 1 lb. No. 18A1360 \$1.99 5@ \$1.79 Each \$1.79

LOW PRICES ON SPEAKER CONTROLS





COAYIAL **HI-FIDELITY** 8-INCH

SPEAKER

SHALLOW

DESIGN

FULL RANCE 40-18,000 Hz

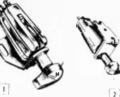
Features 110° wide-

angle sound dispersion

2

EXCEPTIONAL SAVINGS ON MOST POPULAR CARTRIDGES

5







### **MONAURAL PHONO CARTRIDGES**

| (1) UNIVERSAL TURNOVER. Fits most changers and players. Regular $\frac{1}{2}''$ mounting, 3 V. output; 40 to 13,000 cps. Sapphire needles. Wt. 3 oz. |
|------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. 24A4052. \$1.75 10 Lots \$1.59                                                                                                                   |
| (1) <b>RONETTE TURNOVER.</b> DC500 with $\frac{1}{2}$ " mtg. bracket for most record players and changers. 3 V. output. Sapphire needles, Wt. 3 oz.  |
| No. 24A4053. \$2.85 10 Lots \$1.95                                                                                                                   |
| (2) RONETTE TURNOVER. Popular DC500 with single hole mounting for BSR, VM, etc. changers, 3 V, output, Sappt 12 needles. Wt, 2 ozs.                  |
| No. 18A1394. \$1.49 10 Lots \$1.29<br>Special Each Each                                                                                              |
| (3) VACO TURNOVER. To-45 used in thousands of changers and players.<br>Front clamp mounting, 3 V, output, Sapphire needles, Wt, 2 ozs.               |
| No. 18A1395. \$2.19 10 Lots \$1.95                                                                                                                   |
| (6) RCA TYPE 45 RPM. Exact replacement for 45 RPM players. 1 V. output, 50-10,000 cps, 1 mil sapphire stylus, Quality import.                        |
| No. 24A4054. \$1.19 10 Lots 99c                                                                                                                      |
| (7) UNIVERSAL ALL-GROOVE. Fits practically—all small players. Standard 1/2" mtg. 3 to 5 V. output 50-8000 cps. Top import. Less needle.              |
| No 24A4055 Wt. 3 ozs $\Omega \Omega_{-}$ 10 Lots $\Omega \Omega_{-}$                                                                                 |

4055.Wt. 3 ozs 99c 90c Net Each Each

SAVE ON EXACT REPLACEMENT "45" RPM AUTOMATIC SPINDLE ADAPTORS



| Fig. | Stk. No. | Mfg.                                  | Part No.                                | Fits Changers & Notes                                                                                                                                                                             | Hgt.       | Each   |
|------|----------|---------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|
| 1    |          |                                       |                                         |                                                                                                                                                                                                   |            | - dien |
|      | 2446018  | Admiral<br>(Ensign)                   | 400C+686 &<br>(400B-645+2)<br>(705C938) | Adm: Series RC6, 7, 600,<br>700, Old Ensign. Emerson                                                                                                                                              | 3¾″        | \$4.59 |
| 2    | 2446019  | BSR                                   | PS-444(SP4)                             | UA-8, 10, 12, 14, 16, 20, 24<br>Repl: Game 4015; BSR:<br>PS180, 249, 250, 603,<br>605 (SP6)                                                                                                       | 37⁄8″      | 1.95   |
| 3    | 24A6020  | B <b>\$R</b><br>(Monarch)<br>McDonald | PS-900<br>(SP20)<br>(SP8)               | Repl: Game 426S & BSR,<br>PS-829 Supersiim UA15-SS,<br>UA15-SST, UA25, UA30, UA35,<br>UA47, UA55, UA65, UA70,<br>UA75; McDonald 300, 400,<br>500, 500A, 600, 1500<br>and 2500                     | 27/8″      | 1.95   |
| 3    | 24A6021  | BSR<br>(Monarch)<br>McDonald          | PS-925<br>(SP21)                        | UA45, 4500, UA50 Mini-<br>Changer                                                                                                                                                                 | 21⁄2″      | 1.95   |
| 4    | 2446022  | Collaro<br>(Magnavox)                 | 522963-1<br>(GSA)                       | 522456-2, Collaro &<br>Magnavox<br>All 200 & 600 Series                                                                                                                                           | 3¾″        | 2.95   |
| 5    | 24A6023  | Garrard                               | LRS-20                                  | Replaces: LRS-5, LRS-6, LRS-7<br>LRS-10. Fits: AT-5, AT-5LM,<br>AT-6, AT60 Autoslim, Auto-<br>slim P, 40MKII, 50, 50MKII,<br>60MKII, SL55, SL65, SLX,<br>SLX2, 1000, 2000, 3000,<br>3500 and 4000 | ,<br>27/a″ | 3.80   |
| 6    | 24A6024  | G.E.                                  | RX400, RX408,<br>RS6745,<br>EA80X210    | RD Series: 225, 300, 310,<br>311, 325, 326, 400, 410                                                                                                                                              | 23⁄4″      | 1.95   |
| 7    | 24A6025  | Magnavox<br>(Collaro)                 | 523450-1                                | F, G, W 602-608, W 611,<br>W 620-W 622 Series                                                                                                                                                     | 31/2"      | 2.95   |
| 8    | 24A6026  | RCA                                   | 110905                                  | Series RP217, RP218, RP219                                                                                                                                                                        | 31/2"      | 3.25   |
| 9    | 24A6027  | Telefunken                            | 38L<br>(KU38P)                          | TW501, 502, 504, 504 Deluxe<br>506, 560, 561, 562, 571,<br>572, 582                                                                                                                               | ,<br>35⁄8″ | 1.95   |
| 10   | 2446028  | V.M.                                  | 1116                                    | New 1200 & 1500 Series with short centerpost                                                                                                                                                      | 23⁄4″      | 1.95   |
| 11   | 2446029  | <b>V.</b> M.                          | 1115                                    | Late 1200, 1500 Series with long centerpost                                                                                                                                                       | 4"         | 1.95   |

### STEREO CARTRIDGES

6

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1

(1) RONETTE TURNOVER. Popular type 106 used in BSR, etc. changers. Standard 32" mtg. 1.5 V. output. 30 to 14,000 cps, Sapphire stylii. Wt.

No, 24A4056. Special Each \$2.49 With Diamond Stylus for stereo and LP, sapphire for 78 RPM, Wt. 4 ozs.

No. 24A4057. Special Each \$3.49 No. 24A4057. Special Each **9. 7** (4) VACO FLIP-UNDER. Exact replacement clip-in cartridge for many phonos. Comes complete with *l*/2<sup>m</sup> bracket to fit most standard tone arms. Dual sapphire stylii. Wt. 3 oz.
 No. 18A1319. CN75. 2 V. output.
 Special VALUE: \$2.49

(5) ASTATIC 13TX CERAMIC with Diamond Stylus for stereo and LP, sapphire for 78 RPM. One of the most popular American made car-tridges. 5 V, output, 20-15,000 cps. Mg. list \$8.95. No.24ABASE V/ No.24A4058. Wt. 2 oz. \$2.69 **Special Each** 



NOW ONLY

\$149

## **BIG PRICE SLASH ON** GENUINE DIAMOND NEEDLES

Daring B-A deep price slashes on finest quality hand cut polished diamond needles. Last far longer than regular needles with far less wear to records. Avg. wt. 3 ozs.



120, 121. Ronette, Collaro, Fuji, Futura, PE DT-60, RA-284, RA-395, DC-04, TC-200, TO-222, 284, 400. Varco, TO-55 Series, TO-35X, 45, SN-45, ST-45, ST-1, 2, 4, 5, 20, 40, 100, 200

TO-222, 284, 400. Varco. TO-55 Series, TO-35X, 45, SN-45, ST-45, ST-1, 2, 4, 5, 20, 40, 100, 200. No. 24A681. Special Each......\$1.49 () For Astatic. 17, 17D, 17DA, 217D, 135DA. Also GE EA97X155. No. 24A682. Special Each.....\$1.49 () For Astatic. 133, 137, 138, 140, 142, 146, 148, 233, 237, 253, 450, 483, 485, 497. Also GE C-300. No. 24A683. Special Each.....\$1.49 () For Euphonics. U-8, 9, 10, 11, 88, 98. No. 24A684. Special Each.....\$1.49

 
 Por RCA. RMP-200-8, 9, 106770B-71B, 110021, 23, 11347, 48, 115062.

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 (a) For Ronette. DC-04, 122, 222, 284, 395, 400, 422, 500, BF40, 0V, 0V-1, TO-208, 291. For Sonotone. 14T. For Electric-Voice 56, 87, 88. For Perpetum Ebner PE-30, 90. No. 24A688. Special Each ......\$1.49 () For Sonotone 2T, 5T, 7T & W9980. No. 24A689. Special Each ........\$1.49 (a) For Sonotone 8T, 8TA, 8T4 Series. No. 24A690. Special Each .........\$1.49 (a) For Sonotone 21T, 22T, 23T, 24T, 35T 43T.

35T, 43T. No. 24A691. Special Each ......\$1.49 No. 24A684. Special Each .......\$1.49 (a) For General Electric. C-100A, C-200, C-400, EA 97-570, EA 97X497, (3) For Varco CN-60, 62, 65, 67, 68, 70, 72, 75. EA 80X15 No. 24A692. Special Each ......\$1.49 \$1.49

No. 24A685. Special Each







## NEW AUTOMATIC **TURNTABLE**

BSR

95

\$39.95

LESS BASE

COMPLETE WITH CERAMIC STEREO CARTRIDGE

High quality BSR automatic turntable now for less than the price of ordinary changers. Features low mass, light tracking, tubular aluminum tone arm with massive turntable. Automatic or manual play at 16,  $33\frac{1}{3}$ , 45 or 78 RPM records. Automatic shut off after last record. Handles stack of 6 average records. Has vibration-free dynamically balanced motor. Comes complete with all cables, template and instructions. Dimensions  $13\frac{1}{8}$ " W,  $11\frac{1}{4}$ " D,  $2\frac{7}{6}$ " from top of spindle to top of mounting board; 2" below. \$29.95 Molded Ebony Base for above. Model PB-3.

| No. 33A681, Each                          | S                             | 5.00 |
|-------------------------------------------|-------------------------------|------|
| 45 RPM Adaptor Spin                       | idle for above. Model PS-899. |      |
| No. 33A680, Each<br>Tinted Dust Cover for | r above, Model DC-2.          | 1.95 |
| No. 33A653. Each                          | S                             | 5.00 |

## WORLD FAMOUS **BSR MINICHANGER**

PERFECT COMPANION FOR SHELF COMPONENT SYSTEMS

4-SPEED AUTOMATIC **OR MANUAL** 10" & 12" INTERMIXED



Complete-factory engineered, tested, and assembled "module" with stereo Complete-factory engineered, tested, and assembled "module" with stereo cartridge, base, and dust cover . . . ready to use. Versatile! Only 13" wide. 9" deep, 6" high, Fits on the shelf along with other small components. Plays all record speeds, intermixes 10" and 12" of same speed, handles stack of 6 average records. Has automatic shut-off after last record. Low mass tubular tone arm is fitted with a high quality BSR ceramic stereo cartridge with sapphire/sapphire flip styli. Has vibration-free, dynamically balanced, 2 pole, 110-130 V. A.C. 60 Hz motor. Factory assembled on attractive molded base. Supplied with sturdy bronze-tone styrene dust cover, U/L approved, AC cord and audio cables. Shg. Wt. 8 lbs. No. 33A625.

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## LATEST DELUXE 4-SPEED RECORD CHANGER BY VM WITH DIAMOND NEEDLE FEATURING TUBULAR TONE \$2695 PLAYS ALL RECORDS MONAURAL AND STEREO With Con necting Cables Less Base

SAVINGS ON

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Same unit used in many top brand name phonographs! Completely automatic, plays all speeds, all sizes records. Intermixes 10 and 12" records of same speed. Automatically shuts-off after last record. Positive record protection assured by flat air-cushion drop of records to rubber matted turn-table. Lightweight jam-proof tubular tone arm complete with stereo turnover cartridge with long-life diamond stereo needle and sapphire 78 RPM needle. Dimensions: 131/4" W. x 117/6" D. x 53/4" above and 25/6" below motor board. For 110-120 V. 60 cy. AC. Fully guaranteed. With AC cord and stereo connecting cables, less base. No. 33A503. 45 RPM Spindle for above changer, wt. 6 ozs. Each.....\$1.75 No. 33A504. Precut Mounting Board for above changer. Wt. 10 loss. Ea. \$1.46 No. 33A505. Precut Mounting Base for above changer. Wt. 2 lbs. Ea. \$3.95



## **B-A EXCEPTIONAL VALUE! STEREO HI-FI 4-SPEED RECORD CHANGER** FAMOUS AMERICAN MAKE **FEATURES TUBULAR** TONE ARM

Greatest value yet! It's the very famous, very popular Maestro . . . renowned for precision quality, and now at a price you just can't afford to miss. Perfect for the start of a new hi-fi system or as a replacement for outdated or wornout players in existing equipment. Requires only  $3\frac{1}{2}$ " above motor board to allow

players in existing equipment. Requires only 3 1/2" above motor board to allow mounting in tight spaces. New design for the most trouble-free long life operation. Automatically plays oll size, all speed records—monaural ond stereo. Automatic shut-off ofter last record plays. Rubber mat on turntoble protects records. New precision tubular tone arm. Vaco stereo turnover cartridge with long-life sapphire stylii. Meosuros 13" W, 111/4" D, 31/2" above and 2" below motor plate. 110-120 V, 60 cy. AC. Less cords and phono leads. Handsome grey finish. Shpg. wt, 11 lis

| No. 33A514. Special Each                   | \$19.95 |
|--------------------------------------------|---------|
| No. 33A515. 45 RPM Spindle, Each           | \$1.88  |
| No. 33A516. Precut Mounting Board, Each    | \$1,69  |
| No. 33A517. Precut Mounting Base, Each     | \$3.95  |
| No. 33A518, Clear Plastic Dust Cover. Each | \$4.95  |
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256

No. 33A625.



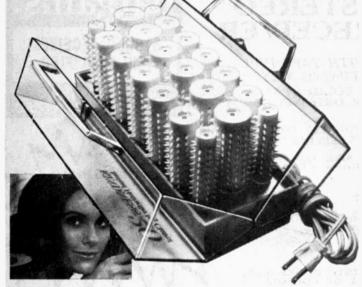


Now, you can have the superiority of solid state circuitry at less than  $\frac{1}{2}$  the price of comparable tube models. The buy of a lifetime! B-A's sweet deal with a tactory, producing highest quality imported amplifiers, makes possible this money-saving offer. Identical to amplifiers used in stereo high fidelity phonographs..., its specifications and performance are the finest we have ever seen at this low, low price.

Extremely versatile . . . permitting use in stereo high fidelity system or may

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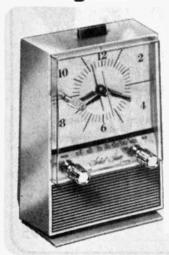
# **B-A's SIZZLING HOT SPECIALS CLAIROL BEAUTY AIDS**



#### **KINDNESS® 20 INSTANT HAIRSETTER** MANUFACTURERS SUGGESTED RETAIL PRICE \$27,99 \$ **16**<sup>88</sup> B-A's LOW, LOW PRICE ....

Most popular hairsetter on the market. Features 20 heat-at-once rollers in 3 sizes with matching clips to create any hairstyle desired. Comes in light-weight durable plastic carry-along case. Size  $634^{\prime\prime} \times 914^{\prime\prime} \times 414^{\prime\prime}$  Just plug into any 115 V. 60 cycle A.C. household outlet. Has 6 jumbo, 10 large, 4 small rollers. Shog. wt. 7 lbs. No. 61A238. BA's Low Price.





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Big <sup>3</sup>/<sub>4</sub> HP 575 Watt Motor.
 Crushes Ice Without Expensive Attachment.
 High Speed Up to 90 Revolutions

Per Second.

Per Second. Features G-button panel with exclu-sive "hold" button for instantaneous on/off control; 4 speeds. Blends, whips, chops, purees and crushes ice. 34 H.P. 575 watt motor operates without strain even under the tough-est of all tasks such as crushing ice. Has 56 oz. container with removable inner measuring lid; stainless-steel blades, pilot light, cord storage. Comes complete with 32 page special recipc book. In beautiful white. **\$18.77** No. 61A236. Each.

### **B-A's SENSATIONAL** SPECIAL PURCHASE ON AM CLOCK RADIO MANUFACTURERS SUGGESTED RETAIL WAS \$26,95

B-A's LOW PRICE \$1495

- New Compact Upright Design Only 5¼" Wide.
  Snooze Button.
  Big Easy-To-Read Clock.
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Precision Side Rule Luning.
 Deluxe vertical solid-state AM clock radio. Ultra-modern in beautiful high impact plastic cabinet. Illuminated clock with "doze" button. Fine tone AM radio features solid-state chassis, front mounted 4" speaker for room-filling sound. Transformer power sup-ply AC line cord size 7½" H, 5¼" W, 3½" D. Approx. Shpg. wt. 3 lbs. No. 36A8021
 S14.95



SEE YOURSELF AS OTHERS SEE YOU!

A twist of the dial switches on day, evening or office light to make sure your make-up is right in any light. A swing of the mirror switches from mirror to magnified reflection. A flick adjusts mirror to any angle. Size  $91/2^{\prime\prime} \times 2^{\prime\prime} \times 113/4^{\prime\prime}$ . Has 7 ft. cord; operates on 115 V. — 60 cycles A.C. Shog. Wt. 7 lbs. \$19.88 No. 61A237, Each.....



CREAT FOR BOTH MEN & WOMEN . . . BUY 2 . . . CET SLIM TOGETHER!

EXERCISER \$**3**97 B-A's LOW, LOW PRICE ...

It's effortless, yet equal to  $\frac{1}{2}$  hour of conventional sit-ups. Takes inches off the hips and stomach in only 2 minutes a day! Squeeze away your hips and tummy! Straighten your posture, firm up stomach muscles, tone up all muscles, build a power packed body in just a few short weeks. Shop, wt. 4 lbs. \$3.97 No. 47A3501. B-A's Low Price

## CASH IN ON THE BOOM IN COLOR TELEVISION

The NRI TV-Radio Servicing course includes your choice of black and white or color TV training equipment. Color TV needs thousands of trained men to keep pace with millions of sets being sold every year. NRI prepares you quickly. Cash in on the boom.

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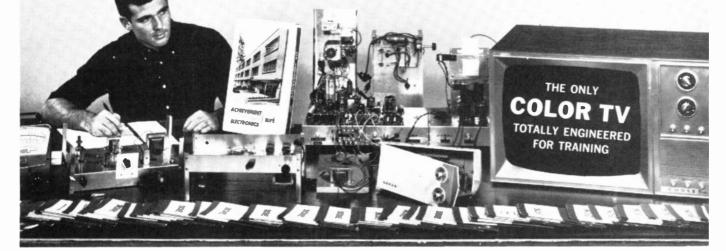
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\$200.00.

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Use The Handy B-A Order Blank . . . Whenever possible. It is designed for your convenience and it helps us speed your order through our plant. Most orders are ready for shipment and are on their way to you within 24 hours after received.

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payment for merchandise. Include Postage and Guaranteed Safe Delivery Fee. Our Catalog gives shipping weights for almost all items. Where not shown, you can estimate weights. Total these weights to the next full pound, then check the parcel post rate table for your zone and rate. The Guaranteed Safe Delivery Fee is your protection against financial loss after your shipment leaves our plant. B-A refunds all excess remit-tance immediately by bank check. Do Not Include Express or Freight Charges in your remit-tance. These charges will be collected upon delivery.

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### B-A'S CATALOG PRICES

Our Catalog Prices ... are net FOB Kansas City. All trade and cash discounts have been deducted. B-A reserves the right to add any Federal, State or local taxes now in effect or which may be levied after this catalog is printed. Mo., Kans., Okla. and Colo. customers must add 3% sales tax. Kans., Okla. and Colo. customers must add 3% sales tax. Each item on your order will be priced at the current price on date of shipment. All prices are subject to change with-out notice. At B-A you always have immediate benefit of price reductions. Manufacturers List Price Shown ... are suggested by our suppliers and are intended only as information for those purchasing for resale, not to indicate price savings.

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#### ALWAYS RETURN THE ORIGINAL ORDER PAPERS WHEN WRITING ABOUT A SHIPMENT

### MINIMUM ORDER SIZE

Since it is not economical to process many small orders, a 50c service charge is necessary for any order under \$5.00. You avoid this charge entirely on orders over \$5.00. The minimum order for opening a new B-A Revolving Charge Account is \$35.00.

The minimum "Add-On" Revolving Charge Order is \$5.00. The minimum C.O.D. Order is \$5.00, with 20% deposit.

PARCEL POST ZIP/ZONE GUIDE



Find the first three digits of your Zip Code and your Parcel Post Zone from Kansas City in the table below. Then refer to the Parcel Post Rates below for Postage on your order.

| Zip Code<br>Prefixes | Zone | Zip Code<br>Profixes | Zone | Zip Code<br>Prefixes Zone | Zip Code<br>Prefixes Zone | Zip Code<br>Prefixes - Zone | Zip Code<br>Prefixes Zone |
|----------------------|------|----------------------|------|---------------------------|---------------------------|-----------------------------|---------------------------|
| 006+009              | . 8  | 308-326              | 5    | 498-499                   | 620-623 3                 | 725-731                     | 850-853                   |
| 010-046              | . 6  | 327-339              |      |                           | 624 4                     | 734-736 4                   | 855-8635                  |
| 047                  | . 7  | 350-359              | 4    | 500-507                   | 625-634 3                 | 737-738 3                   | 864 6                     |
| 048-098              | . 6  | 360-368              | 5    | 508                       | 635 2                     | 739 4                       | 865-880 5                 |
|                      |      | 369-374              |      | 510-514                   | 636-639                   | 740-746                     | 881 4                     |
| 100-129              | . 6  | 376-379              | 5    | 515-516 2                 | 640-641                   | 747 4                       | 882~883                   |
| 130-132              | . 5  | 380-394              | . 4  | 520-528 3                 | 644-645 1                 | 748-749                     | 884 4                     |
| 133-136              | . 6  | 395                  | 5    | 530-537 4                 | 646                       | 750-768 4                   | 890-898 6                 |
| 137-179              | . 5  | 396-397              |      | 538 3                     | 647 1                     | 769-777 5                   | 1                         |
| 180-181              | . 6  | 1                    |      | 539-560                   | 648-653 2                 | 778 4                       | 900-933                   |
| 162                  | . 5  | 400-410              | 4    | 561 3                     | 654-655                   | 779-789 5                   | 934 7                     |
| 163                  | . 6  | 411-412              | 5    | 562-566 4                 | 656-658 2                 | 790-796 4                   | 935-937                   |
| 184-188              | . 5  | 413-414              | 4    | 567 5                     | 660-662                   | 797-799 5                   | 939-955 7                 |
| 189-194              | . 6  | 415-418              | 5    | 570-582                   | 664-674 2                 |                             | 956-958 6                 |
| 195-199              | . 5  | 420-432              | 4    | 583 5                     | 675-676 3                 | 800-812                     | 959-960 7                 |
|                      |      | 433                  | 5    | 584-585                   | 677 4                     | 813-816 5                   | 961 6                     |
| 200-217              | 5    | 434-436              |      | 586-595                   | 678 3                     | 820-822 4                   | 962-966                   |
| 218                  | 6    | 437-449              | 5    | 596-599                   | 679 4                     | 823-826 5                   | 967-9698                  |
| 219-278              | 5    | 450-455              | 4    |                           | 680-685 2                 | 627 4                       | 970-976 7                 |
| 279                  | 6    | 456-457              | 5    | 600-611                   | 686-689                   | 828-832                     | 977-979                   |
| 280-299              | 5    | 458-479              |      | 612 3                     | 690-693 4                 | 833 6                       | 980-987                   |
|                      |      | 480-487              | 5    | 613 4                     |                           | 834 5                       | 988-994 6                 |
| 300-306              | 5    | 488-496              |      | 614-616                   | 700-708 5                 | 835-838 6                   | 995-9998                  |
| 307                  | . 4  | 497                  | 5    | 617-619                   | 710-724 4                 | 840-847 5                   |                           |

PARCEL POST RATES AND SIZE LIMITS The table below and the chart above will help you estimate parcel post charges. Packages under 16 ounces are 6c for first 2 ounces and 2c for each additional ounce, any zone. WEIGHT AND SIZE LIMITS: Size limits below are maximum combined length and girth. 40 Lbs., 72 inches to any 1st Class P.O. in Zones 3 to 8; 40 Lbs. 72 inches to any 1st Class P.O. in Zones 1 and 2; 70 Lbs., 100 inches to any 2nd, 3rd, 4th Class P.O., RFD, APO or FPO. Alaska and Hawaii is 70 Lbs., 100 inches for any First Class Post Office. All Parcel Post Rates yatr, mor pound as distance increases: please check with your Portmaster for

AIR Parcel Post Rates vary per pound as distance increases; please check with your Postmaster for Tate to your City. GUARANTEED SAFE DELIVERY RATES: 20c for values to \$15.00, 30c for values \$15.01 to \$50.00, 40c for values \$50.01 to \$100.00, 50c for values \$100.01 to \$150.00, 60c for values \$150.01 to

| Wt.         |          | Zones 1 & 2 | Zone 3  | Zone 4    | Zone 5       | Zone 6    | Zone 7       | Zone 8    |
|-------------|----------|-------------|---------|-----------|--------------|-----------|--------------|-----------|
| In          | Local    | Up to 150   | 150-300 | 300-600   | 600-1000     | 1000-1400 | 1400-1800    | Over 1800 |
| Lbs.        | Delivery | Miles       | Miles   | Miles     | Miles        | Miles     | Miles        | Miles     |
| 2           | \$0.50   | \$0.60      | \$0.60  | \$0.65    | \$0.70       | \$0.80    | \$0.85       | \$0.90    |
| 3           | .50      | .65         | .70     | .75       | .85          | .95       | 1.05         | 1.15      |
| 4           | .55      | .70         | .75     | .85       | .95          | 1.10      | 1.20         | 1.35      |
| 5<br>6<br>7 | .55      | .75         | .80     | .90       | 1.05         | 1.25      | 1.40         | 1.60      |
| 6           | .55      | .80         | .90     | 1.00      | 1.15         | 1.40      | 1.55         | 1,75      |
| 7           | .60      | .90         | .95     | 1.10      | 1.30         | 1.50      | 1.75         | 1.95      |
| 8           | .60      | .95         | 1.00    | 1.15      | 1.40         | 1.65      | 1.90         | 2.15      |
| 9           | .65      | 1.00        | 1.05    | 1.25      | 1.50         | 1.80      | 2.05         | 2.35      |
| 10          | .65      | 1.05        | 1.15    | 1.35      | 1.65         | 1.90      | 2.25         | 2.55      |
| 11          | .65      | 1.10        | 1.20    | 1.40      | 1.75         | 2.00      | 2.40         | 2.75      |
| 12          | .70      | 1.15        | 1.25    | 1.50      | 1.85         | 2.15      | 2.55         | 2.90      |
| 13          | .70      | 1.20        | 1.35    | 1.55      | 1.95         | 2.25      | 2.70         | 3.10      |
| 14          | .75      | 1.25        | 1.40    | 1.65      | 2.05         | 2.40      | 2.85         | 3.25      |
| 15          | .75      | 1.30        | 1.45    | 1.75      | 2.15         | 2.50      | 3.00<br>3.15 | 3.45      |
| 16          | .75      | 1.35        | 1.55    | 1.80      | 2.25         | 2.60      |              | 3.60      |
| 17          | .80      | 1.40        | 1.60    | 1.90      | 2.35         | 2.75      | 3.30         | 3.80      |
| 18<br>19    | .80      | 1.45        | 1.65    | 1.95 2.05 | 2.45<br>2.55 | 2.05      | 3.45         | 4.15      |
| 20          | .85      | 1.50        | 1.80    | 2.05      | 2.55         | 3.10      | 3.60<br>3.75 | 4.15      |
| 21          | .85      | 1.60        | 1.85    | 2.15      | 2.05         | 3.20      | 3.90         | 4.50      |
| 22          | .90      | 1.65        | 1.90    | 2.25      | 2.80         | 3.30      | 4.05         | 4.70      |
| 23          | .90      | 1.70        | 1.95    | 2.30      | 2.90         | 3.40      | 4.20         | 4.85      |
| 24          | .95      | 1.75        | 2.00    | 2.35      | 3.00         | 3.55      | 4.35         | 5.00      |
| 25          | .95      | 1.75        | 2.05    | 2.45      | 3.05         | 3.65      | 4.50         | 5.20      |
| 26          | .95      | 1.80        | 2.05    | 2.50      | 3.15         | 3.75      | 4.65         | 5.35      |
| 27          | 1.00     | 1.85        | 2.10    | 2.55      | 3.25         | 3.90      | 4.80         | 5.55      |
| 28          | 1.00     | 1.90        | 2.15    | 2.60      | 3.35         | 4.00      | 4.90         | 5.70      |
| 29          | 1.05     | 1.90        | 2.20    | 2.70      | 3.40         | 4.10      | 5.05         | 5.90      |
| 30          | 1.05     | 1.95        | 2.25    | 2.75      | 3.50         | 4.20      | 5.20         | 6.05      |

PARCEL POST COD FEES (In addition to charges above) 60c from .01 to \$10.00, 70c from \$10.01 to \$25.00, 80c from \$25.01 to \$50.00, 90c from \$50.01 to \$100.00, \$1.00 from \$100.01 to \$200.00.

## IF THERE IS QUESTION ON ANY POSTAL RATES PLEASE CONTACT YOUR LOCAL POSTMASTER!

REA SHIPMENTS ARE BEST FOR FRAGILE GOODS Shipment via REA is often necessary when items you ordered (such as antennas) exceed Post Office limits for package size, explained above.

### EXPRESS CHARGES AND INSURANCE ARE COLLECTED ON DELIVERY

DO NOT ADD THESE CHARGES TO YOUR REMITTANCE If you wish home delivery be sure the Express Company offers this service; otherwise you will be expected to pick up your order at the closest station. Check your express agent for schedule be expe of rates.

| WE SH                                                                                                                      |                       | 51     | IP          | •                      | OF                | RDEF               |                                   | 6         | -                                     |              | F                 | AMOUNT ENG                                   |              | w             |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------|--------|-------------|------------------------|-------------------|--------------------|-----------------------------------|-----------|---------------------------------------|--------------|-------------------|----------------------------------------------|--------------|---------------|
| WE SHIP BY PARCEL POST WHERE<br>PRACTICAL. EXPRESS OR TRUCK<br>ARE USED FOR SPECIAL HANDLING<br>OR LARGE ORDERS. DEPEND ON |                       |        |             |                        | BL                | ANK                | 1                                 | 1         |                                       |              | CA<br>OR          | SH<br>Der                                    | \$           |               |
| (YOUR CHOICE, IF DESIRED) MAIL TO.                                                                                         |                       |        |             |                        |                   |                    | (                                 |           | Tit                                   | - )          | CR CR             | VOLVING CHARGE<br>Edit Order<br>IWN Payment) | \$           |               |
| THIS ORDER SELECTED FROM<br>CATALOG NO. 3199 MERCIER                                                                       |                       |        |             |                        |                   | LEBER              |                                   | BURS      | TEIN-APPLEBEE                         |              |                   | VOLVING CHARGE<br>D-ON ORDER<br>IWN PAYMENT) | \$           |               |
|                                                                                                                            | R REVOL               |        |             | ר אר אר אר א           | NSAS              | CITY, M            |                                   |           | ING IN RADIO-TV                       | /            |                   | .D. ORDER<br>% DEPOSIT)                      | \$           |               |
|                                                                                                                            | ACCOU                 |        |             |                        |                   | 4111<br>TO PLACE   | TELEPH                            |           | RDERS                                 |              | DO                | NOT USE T                                    | HIS S        | PAC           |
| (PLEA                                                                                                                      | SE SIGN               | REVERS | E SIDE)     |                        | OR ORI            | DER INFORM         | L (816) 5<br>Ation A<br>L (816) 5 | ND CUST   | OMER SERV                             | ICE          |                   |                                              |              |               |
| NAME_                                                                                                                      |                       |        |             | _]                     | DATE              |                    |                                   |           | HAVE MOVED S                          |              |                   |                                              |              |               |
| 1                                                                                                                          | (First Name)          |        |             | (Middle Initi          |                   | (Last              | C                                 | ITY       |                                       |              |                   | STATE                                        |              | _             |
|                                                                                                                            |                       |        |             |                        |                   |                    | N.                                | OUTE-     |                                       | BOX          |                   | ZIP CODE                                     |              |               |
| STATE_                                                                                                                     |                       |        |             |                        | ZIP COD           | E<br>GIVE DETAILS: |                                   |           | LL ITEMS POSS<br>R ITEMS NOT<br>MARKI |              | AS FO             | LLOWS:                                       | CODE         |               |
| NAME_                                                                                                                      |                       |        |             |                        |                   |                    |                                   |           | lackordered                           |              | T.O.              | Temporary Out<br>Reorder in 2 of             | r 3 Weel     | 50            |
| ADDRE                                                                                                                      | SS                    |        |             |                        |                   |                    |                                   |           | old-Out                               |              |                   |                                              |              |               |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   |           | ubstituted Item<br>qual Quality or (  |              |                   |                                              |              |               |
| PAGE<br>NO.                                                                                                                | IMPORTAN<br>B-A STOCK |        | HOW<br>MANY | OO NOT U<br>This space |                   |                    | LOR, OESCRI<br>Tems Wante         |           | UNIT<br>Price                         |              | L PRICE<br>COLUMN | DO NOT USE<br>THIS COLUMN                    | SHPG<br>LBS. | . WT.<br>OZS. |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   |           |                                       |              |                   |                                              |              |               |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   |           |                                       |              |                   |                                              |              |               |
|                                                                                                                            |                       |        |             |                        |                   | _                  |                                   |           |                                       |              |                   |                                              |              |               |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   |           |                                       |              |                   |                                              |              |               |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   |           |                                       |              |                   |                                              |              |               |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   |           |                                       |              |                   |                                              |              |               |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   |           |                                       |              |                   |                                              |              |               |
| NOTE                                                                                                                       | MINIMU                | IM MA  | IL ORD      | ER \$5.0               | 0. FOR            | LARGER OR          | ERS OMI                           | T THIS S  | ERVICE CHAP                           | IGE —        |                   |                                              | 1            |               |
|                                                                                                                            | PLE                   | ASE DO | NOT U       | SE THIS                | SPACE             | Ah                 | UNT FOR                           | GOODS     |                                       |              |                   |                                              |              | TAL           |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   | WED FOR   |                                       |              |                   |                                              | 103.         | 023           |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   | DD 3% T   | ORADO, OKLA,<br>AX                    |              | _                 |                                              |              |               |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   | DR SAFE A |                                       |              | _                 |                                              |              |               |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   |           | REVIOUS ORDE                          | <del>?</del> | _                 |                                              |              | L WT<br>LBS.  |
|                                                                                                                            |                       |        |             |                        |                   |                    |                                   | T OF ABO  |                                       |              |                   |                                              |              |               |
|                                                                                                                            | PRICED                | FILLED | CHECKED     | AUDITED                | NO. OF<br>CARTONS | DATE               |                                   |           |                                       | і<br>т       |                   |                                              |              | icient        |
| LABEL                                                                                                                      |                       |        |             | L                      |                   | anirreu            |                                   |           | SHOLN GREDI                           | •            |                   |                                              | postag       |               |
| OK                                                                                                                         |                       |        |             |                        |                   |                    | OWES YOU                          |           | ENCLOSED)                             |              |                   |                                              |              | rned.         |

# IT'S EASY TO OPEN A B-A **REVOLVING CHARGE ACCOUN**

PLEASE SIGN HERE X\_

### IT'S EASY TO OPEN A NEW ACCOUNT ...

lust answer nuestions shown below and sign the Agreement and the Application on the lines marked "X". You do not need to figure shipping charges; they are prepaid and will be added to your account.

Your first order should be at least \$35.00.

### TO "ADD-ON" AN ORDER **TO YOUR CHARGE ACCOUNT**

Put your account number in the space provided below and sign the contract on the lines marked "X". No need to fill in personal information unless your account has been closed over a year. Your "add-on" order should total \$5.00 or more.

ACCOUNT NUMBER

SEE DISCLOSURE OF CREDIT INFORMATION ON PAGE 258G. COST

### **REVOLVING CHARGE ACCOUNT PAYMENT TABLE** USE IT TO EASILY DETERMINE

YOUR SMALL MONTHLY PAYMENT

| MONTHLY<br>PAYMENT | UNPAID BALANCE<br>TOTAL AMOUNT LESS<br>ANY PAYMENT |
|--------------------|----------------------------------------------------|
| ONLY               | BUYS UP TO                                         |
| \$ 5               | \$ 20-100                                          |
| \$ 6               | \$101-120                                          |
| \$ 7               | \$121-140                                          |
| \$8                | \$141-160                                          |
| \$ 9               | \$161-180                                          |
| \$10               | \$181-200                                          |
| \$11               | \$201-220                                          |
| \$12               | \$221-240                                          |
| \$13               | \$241-260                                          |
| \$14               | \$261-280                                          |
| \$15               | \$281-300                                          |
| \$16               | \$301-320                                          |
| \$17               | \$321-340                                          |
| \$18               | \$341-360                                          |
| \$19               | \$361-380                                          |
| \$20               | \$381-400                                          |
| \$21               | \$401-420                                          |
| \$22               | \$421-440                                          |
| \$23               | \$441-460                                          |
| \$24               | \$461-480                                          |
| \$25               | \$481-500                                          |
|                    |                                                    |

ACCOUNTS OVER \$500 Monthly Payments are figured at \$1.00 addi-tional for each \$20. (For instance: \$580 @ \$29.00 monthly).

### APPLICATION FOR THOSE WHO DO NOT HAVE A B-A REVOLVING CHARGE ACCOUNT IF UNDER 21. PLEASE HAVE PARENT OR GUARDIAN SIGN AND FILL OUT APPLICATION

| WHERE<br>DO<br>YOU<br>LIVE?                              | WIFE'S<br>NAME<br>PREVIOUS                                                                                                                    |                                       | HOW LONG AT<br>PRESENT ADDRESS<br>CITY      |        | SINGLE SEI                                     | S<br>RENT<br>MORTO<br>VORCED<br>PARATED | TATEC<br>OR<br>GAGE PMT. \$<br>NUMBER OF DI<br>PENDENT CHIL<br>HOW LONG      | E-<br>DREN                                                                                                         |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------|--------|------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| DO YOU<br>HAVE A<br>STEADY<br>INCOME?                    | PREVIOUS<br>EMPLOYER<br>WIFE'S<br>EMPLOYER<br>AUTO<br>OWNED<br>IF A<br>FARMER<br>IF SELF<br>EMPLOYED                                          | NAME<br>NAME<br>MAKE<br>TYPE OF OPERA |                                             | NUMBER | ADDRESS<br>OF ACRES                            | 2                                       | HOW LONG?.<br>MONTHLY<br>INCOME \$<br>MONTHLY<br>PAYMENT<br>NY ACRES UNDE    | DOPEN<br>CLOSED                                                                                                    |
| WHERE<br>YOU<br>BANK<br>AND YOUR<br>CREDIT<br>REFERENCES | BANK ACCOUNT<br>WITH<br>HOME MORTGAGE<br>OR RENT<br>CREDIT ACCOUNT<br>WITH<br>CREDIT ACCOUNT<br>WITH<br>NAME OF RELATIVE<br>NOT LIVING WITH Y | NAME<br>NAME<br>NAME<br>NAME<br>DU    | STREET<br>STREET<br>STREET<br>STREET<br>AME |        | CITY<br>CITY<br>CITY<br>CITY<br>CITY<br>DDRESS | STATE<br>STATE<br>STATE<br>STATE        | OPEN<br>CLOSED<br>OPEN<br>CLOSED<br>CLOSED<br>OPEN<br>CLOSED<br>RELATIONSHIP | CHECKING<br>SAVING<br>LOAN<br>TOTAL OF ALL<br>MONTHLY PAY-<br>MENTS INCLUD-<br>ING CAR AND<br>MORTGAGE<br>PAYMENTS |
| MILITARY<br>SERVICE<br>INFORMATION                       | SELECTIVE<br>SERVICE<br>CLASS<br>SERIAL<br>NUMBER                                                                                             |                                       | ILITARY<br>DDRESS<br>COMMANDING<br>OFFICER  |        | YOUR TIME<br>IN SERVICE                        |                                         | _RANK<br>YRS                                                                 |                                                                                                                    |

| но     | W WE                                                     | SHIP        | . (              | OF    | RDER                | 6                                |                                   |         | P       | LEASE FILL IN<br>AMOUNT ENC                |                  | w               |
|--------|----------------------------------------------------------|-------------|------------------|-------|---------------------|----------------------------------|-----------------------------------|---------|---------|--------------------------------------------|------------------|-----------------|
| PRACT  | IP BY PARCE<br>ICAL. EXPRE<br>SED FOR SPEC<br>RGE ORDERS | SS OR TRU   | RE<br>CK<br>NG   |       | ANK                 |                                  |                                   | 1       |         | DER                                        | \$               |                 |
| US TO  | SHIP THE B<br>JR CHOICE,                                 | EST WAY.    |                  |       | IL TO               |                                  | 71-                               | • )     | CRI     | OLVING CHARGE<br>DIT ORDER<br>WN PAYMENT)  | \$               |                 |
| THIS   | ORDER SEL                                                | ECTED FRO   | ом /             | API   | PLEBEE              |                                  | N-APPLEBEE                        |         |         | OLVING CHARGE<br>D-ON ORDER<br>WN PAYMENT) | \$               |                 |
|        | DG NO                                                    |             | KAN              | ISAS  | ERCIER<br>CITY, MO. | EVERYTHING<br>AND ELEC           | IN RADIO-TV                       |         |         | .D. ORDER<br>% DEPOSIT}                    | \$               |                 |
| 100    | ACCOUN                                                   |             |                  | 0     | 4111                | -                                | -                                 |         | DO N    | IOT USE TI                                 | HIS S            | PAC             |
| (PLEA  | SE SIGN RE                                               | VERSE SIDE  | - [              |       | DER INFORMATIO      | 6) 561-5460                      |                                   | ICE     |         |                                            |                  |                 |
| PLEASE | E PRINT OR                                               | WRITE PLAII | NLY: DA          | TE    |                     | IF YOU HA                        | VE MOVED SI                       | NCE LA  | ST ORDE | R, GIVE OLD                                | ADDRES           | SS:             |
| NAME_  |                                                          |             |                  |       |                     | ADDRESS                          |                                   |         |         |                                            |                  |                 |
|        | (First Name)                                             |             | (Middle Initial) |       | (Last Name)         |                                  |                                   |         |         | STATE                                      |                  |                 |
| ADDRE  | SS                                                       |             |                  |       |                     | ROUTE                            |                                   | BOX     |         | ZIP CODE                                   |                  |                 |
| STATE_ |                                                          |             | Z                | P COD | ε                   |                                  | ITEMS NOT                         | SHIPPED |         | ED IMMEDIAT<br>IATELY, B-A C<br>LLOWS:     |                  |                 |
|        |                                                          |             |                  |       | GIVE DETAILS:       | B.O. Bac                         | kordered                          |         | T.O.    | Temporary Out<br>Reorder in 2 or           | - Plea<br>3 Week | se              |
|        |                                                          |             |                  |       |                     | S.O. Sold                        | -Out                              |         |         |                                            |                  |                 |
| CITY   |                                                          |             |                  |       |                     |                                  | itituted Item o<br>I Quality or B |         |         |                                            |                  |                 |
| STATE_ | IMPORTANT!                                               |             | ZII              |       | SIZE, COLOR, DI     | SCRIPTION                        | UNIT                              | TOTA    | L PRICE | OO NOT USE                                 | SHPG             | i. WT.          |
| NO.    | B-A STOCK NO                                             | . MANY      | THIS SPACE       |       | OF ITEMS W          | ANTED                            | PRICE                             | THIS    | COLUMN  | THIS COLUMN                                | LBS.             | OZS.            |
|        |                                                          |             |                  |       |                     |                                  |                                   |         |         |                                            |                  |                 |
|        |                                                          |             |                  |       |                     |                                  |                                   |         |         |                                            |                  |                 |
|        |                                                          |             |                  |       |                     |                                  |                                   |         |         |                                            |                  |                 |
|        | _                                                        |             |                  |       |                     |                                  |                                   |         | _       |                                            |                  |                 |
|        |                                                          |             | -                |       |                     |                                  | _                                 |         | _       |                                            |                  |                 |
|        |                                                          |             |                  |       |                     |                                  |                                   |         |         |                                            |                  |                 |
|        |                                                          |             |                  |       |                     |                                  |                                   |         |         |                                            |                  |                 |
|        |                                                          |             |                  | +     |                     |                                  |                                   |         |         |                                            |                  |                 |
|        |                                                          |             |                  |       |                     |                                  |                                   |         |         |                                            |                  |                 |
| NOTE   | : MINIMUM                                                | MAIL ORD    | ER \$5.00.       | FOR   | LARGER ORDERS       | OMIT THIS SER                    | VICE CHAR                         | GE —    | → 50¢   |                                            | I                |                 |
|        | PLEASE                                                   | DO NOT U    | SE THIS SI       | PACE  | AMOUNT              | FOR GOODS                        |                                   |         |         |                                            |                  | TAL             |
|        |                                                          |             |                  |       | AMOUNT              | LLOWED FOR PO                    | STAGE                             |         |         |                                            |                  | ozs             |
|        |                                                          |             |                  |       |                     | KANSAS, COLOR<br>RS ADD 3% TAX   | ADO, OKLA.                        |         |         |                                            | ]                |                 |
|        |                                                          |             |                  |       | INSURANC            | E FOR SAFE ARR                   | IVAL                              |         |         |                                            |                  |                 |
|        |                                                          |             |                  |       | AMOUNT              | DUE B-A ON PRE                   | VIOUS ORDER                       |         |         |                                            | TOTA<br>IN       | L WT<br>LBS.    |
|        |                                                          |             |                  |       | TOTAL AM            | OUNT OF ABOVE                    |                                   |         | _       |                                            |                  |                 |
| LABEL  |                                                          |             | N                | 0. OF | DATE                | OUNT ENCLOSED                    |                                   |         |         |                                            | Please           | e rem<br>icient |
|        | PRICED FI                                                | LLED CHECKE |                  | RTONS | SHIPPED C TRANSF    | ERRED TO BACK C                  | RDER CREDI                        | Г       |         |                                            | postag           |                 |
| OK     |                                                          |             |                  |       |                     |                                  |                                   |         |         |                                            | exce             | 122 12          |
|        |                                                          |             |                  |       |                     | YOU (REFUND E<br>B-A (DEBIT ATTA |                                   |         |         |                                            |                  | rned.           |

# **IT'S EASY TO OPEN A B-A REVOLVING CHARGE ACCOUN**

### AGREEMENT FOR B-A'S REVOLVING CHARGE ACCOUNT

AGREEMENT FOR B-A'S REVOLVING CHARGE ACCOUNT The undersigned, hereinafter called customer, hereby agrees with Burstein-Applebee Co., hereinafter called creditor; that customer may from time to time make purchases of goods and services, as approved by creditor, that all said purchases will be charged to customer's revolving charge account, thereby increasing the amount owed; that customer will pay the full amount of any said purchases within 30 days of the first billing date thereafter without charge, or customer will pay in monthly installments to creditor, computed as to amount according to the revolving charge account payment table shown hereon (minimum payment \$5.00 in the event the balance of the account is less than \$100.00) until the full amount of all purchases and FINANCE CHARGE thereon, including the minimum FINANCE CHARGE of 50 cents per month, are paid in full. Customer agrees to pay a FINANCE CHARGE of 1½ per cent per month on all sums to \$500.00 and ¾ per cent per month on all sums in excess of \$500.00 each month (minimum FINANCE CHARGE of 50 cents per month). Customer further agrees to pay any late charges permitted by state law and all collection costs including reasonable attorney's fees if permitted by law. Customer grants creditor a security interest in all goods purchased until the purchase price and FINANCE CHARGE have been paid in full, and grants creditor the right to accelerate the balance In the event of default in the payment of any install-ment, and further grants creditor the right to accelerate the balance In the event of any default. Customer acknowl-edges receipt of credit cost disclosure this merchandise in the event of any default. Customer acknowl-edges receipt of credit cost disclosure this merchandise in the event of any default and the method of treating FINANCE CHARGE on existing outstanding balances as set out.

PLEASE SIGN HERE X\_

### IT'S EASY TO OPEN A NEW ACCOUNT ....

Just answer questions shown below and sign the Agreement and the Application on the lines marked "X". You do not need to figure shipping charges; they are prepaid and will be added to your account.

Your first order should be at least \$35.00.

### TO "ADD-ON" AN ORDER **TO YOUR CHARGE ACCOUNT**

Put your account number in the space provided below and sign the contract on the lines marked "X". No need to fill in personal information unless your account has been closed over a year. Your "add-on" order should total \$5.00 or more.

ACCOUNT NUMBER

SEE DISCLOSURE OF CREDIT INFORMATION ON PAGE 258G. COST

## **REVOLVING CHARGE ACCOUNT** PAYMENT TABLE

USE IT TO EASILY DETERMINE YOUR SMALL MONTHLY PAYMENT

| MONTHLY | UNPAID BALANCE    |
|---------|-------------------|
|         | TDTAL AMOUNT LESS |
| PAYMENT | ANY PAYMENT       |
| ONLY    | BUYS UP TO        |
| \$ 5    | \$ 20-100         |
| \$ 6    | \$101-120         |
| \$ 7    | \$121-140         |
| \$8     | \$141-160         |
| \$ 9    | \$161-180         |
| \$10    | \$181-200         |
| \$11    | \$201-220         |
| \$12    | \$221-240         |
| \$13    | \$241-260         |
| \$14    | \$261-280         |
| \$15    | \$281-300         |
| \$16    | \$301-320         |
| \$17    | \$321-340         |
| \$18    | \$341-360         |
| \$19    | \$361-380         |
| \$20    | \$381-400         |
| \$21    | \$401-420         |
| \$22    | \$421-440         |
| \$23    | \$441-460         |
| \$24    | \$461-480         |
| \$25    | \$481-500         |

ON ACCOUNTS OVER \$500 Monthly Payments are figured at \$1.00 addi-tional for each \$20. (For instance: \$580 @ \$29.00 monthly).

### APPLICATION FOR THOSE WHO DO NOT HAVE A B-A REVOLVING CHARGE ACCOUNT IF UNDER 21, PLEASE HAVE PARENT OR GUARDIAN SIGN AND FILL OUT APPLICATION

| WHERE<br>DO<br>YOU<br>LIVE?           | PRINT<br>FULL<br>NAME<br>HOME<br>ADDRESS<br>HOME<br>PHONE<br>WIFE'S<br>NAME<br>PREVIOUS<br>ADDRESS |                        | -HOW LONG AT<br>PRESENT ADDRESS<br>CITY | CITY<br>MARITAL<br>STATUS | OWN HOME  RENT  MARRIED  SINGLE | S<br>E RENT | TOR<br>TGAGE PMT. \$<br>NUMBER OF<br>PENDENT CH<br>HOW LOI                                                 | DE-<br>IILDREN                               |
|---------------------------------------|----------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------|---------------------------|---------------------------------|-------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| DO YOU<br>HAVE A<br>STEADY<br>INCOME? | PREVIOUS<br>EMPLOYER<br>WIFE'S<br>EMPLDYER<br>AUTO<br>OWNED                                        | STREET<br>NAME<br>MAKE | CITY<br>FINANCED BY                     | PO\$IT                    | TIONHOVLONLON                   | NG          | MONTHLY<br>INCOME \$_<br>HOW MANY<br>ON PRESEN<br>HDW LDNG<br>MONTHLY<br>INCOME \$_<br>MONTHLY<br>PAYMENT_ | YEARS                                        |
| L                                     | FARMER<br>IF SELF<br>EMPLOYED                                                                      | TYPE OF OPERATION      | IESS                                    |                           | OF ACRES                        | HOW MA      |                                                                                                            | DER CULTIVATION                              |
|                                       | BANK ACCOUNT<br>WITH                                                                               |                        |                                         |                           |                                 |             |                                                                                                            | CHECKING<br>SAVING<br>LOAN                   |
| WHERE<br>YOU                          | HOME MORTGAGE                                                                                      | NAME                   | STREET                                  |                           | CITY                            | STATE       |                                                                                                            | LOAN<br>TOTAL OF ALL                         |
| BANK<br>AND YOUR                      | CREDIT ACCOUNT                                                                                     | NAME                   | STREET                                  |                           | CITY                            | STATE       |                                                                                                            | MONTHLY PAY-<br>MENTS INCLUD-<br>ING CAR AND |
| CREDIT                                | CREDIT ACCOUNT                                                                                     | NAME                   | STREET                                  |                           | CITY                            | STATE       |                                                                                                            | MORTGAGE                                     |
|                                       | NAME OF RELATIVE                                                                                   |                        | STREET                                  |                           | CITY                            | STATE       | CLOSED                                                                                                     | \$                                           |
|                                       |                                                                                                    | NAME                   |                                         | Al                        | DDRESS                          |             |                                                                                                            | IF                                           |
|                                       | SELECTIVE<br>SERVICE<br>CLASS                                                                      | MILITARY<br>ADDRESS    |                                         |                           |                                 |             |                                                                                                            | PAY<br>GRADE                                 |
| INFORMATION                           | SERIAL<br>NUMBER                                                                                   | COM OFF                | MMANDING<br>FICER                       |                           | YOUR T                          |             | YRS                                                                                                        |                                              |

THE INFORMATION ABOVE WILL BE KEPT STRICTLY CONFIDENTIAL

### YOU SHOP EASIER...FASTER...BETTER E-Z PAY CHARGE ACCOU B-A

TAKE ADVANTAGE OF OUR MANY WONDERFUL BUYS! IT COSTS SO LITTLE FOR CONTINUOUS BUYING POWER

## DISCLOSURE OF CREDIT COST

For Burstein-Applebee Revolving Charge Account

1. If full cash price is paid within 30 days of receipt of merchandise or within 30 days of first billing date, whichever is later, NO FINANCE CHARGE will be imposed. 2. The FINANCE CHARGE will be imposed initially on the outstanding balance of the account 30 days after receipt of the merchandise or 30 days after the first billing date, whichever is later. Any subsequent FINANCE CHARGE will be imposed on the outstanding balance of the account as of the last previous billing date without deducting current payments and/or credits.

3. The FINANCE CHARGE will be determined by multiplying the balance due at the last billing date by 11/2% on all sums to \$500.00 and 34% on all sums in excess of \$500,00 A minimum FINANCE CHARGE of 50c per cycle will be charged.

4. A periodic rate of 11/2% will be charged on all balances to \$500.00, yielding an ANNUAL PERCENTAGE RATE of 18%.

5. A periodic rate of 34% will be charged on all balances over \$500.00, yielding an ANNUAL PERCENTAGE RATE of 9%

6. Any late charges or delinquency charges or collection charges permitted by the law of your state will be added to the balance, in the event that you fail to make your monthly installments.

7. Burstein Applebee retains title and a security interest in all merchandise purchased on the Revolving Charge Plan until the entire balance, including FINANCE CHARGES, is paid in full.

8. The minimum monthly payment is 5% of the highest original balance of the account, and in the event that the highest original balance is \$100.00 or less, then the minimum monthly payment is \$5.00 or the balance of the account, whichever is less. The amount of any greater minimum required payment may be determined from the Revolving Charge Account Payment Table in this catalog.

9. The cash price of each item is as listed in the catalog. No discount is given to any consumer from catalog price. No down payment is required. Twelve payments per year, payable monthly, are required.

## 3-CONVENIENT WAYS TO SHOP B-A CATALOGS!

### \* BY MAIL ...

on" is just \$5.00.

Our ALL NEW high speed Kansas City plant is geared to process your order in just a few working hours. In most instances, it will be on its way back to you within 24 hours alter receipt.

BURSTEIN-APPLEBEE

SINCE 1927

IT'S SO EASY TO OPEN YOUR NEW ACCOUNT

Just fill in the application on the back of the B-A Order

Blank. Be sure to sign the Agreement. Then make out your first order for \$35 or more. There's no need to figure shipping costs. B-A prepays the shipment, adds the charges to your account. Your reserve buying power sum is set up in your name allowing you to spend up to a

definite amount. All or any part may be used as you like.

painlessly, because your monthly payments are so low. See B-A's payment table on the application. You pay only a small finance charge of  $1\frac{1}{2}$ % on each monthly balance ( $\frac{3}{4}$ % for portion of balance which is over \$500.) The minimum monthly charge is 50c.

or Just Say "CHARGE IT" ... No Finance Charge If you pay, within 30 days, the full amount of your pur-chase under your B-A Revolving Charge Account, there is

No Finance Charge. It's as easy as filling in the Application

Here's continuous buying power to bring you year around electronic enjoyment. Use the handy B-A Order Blank, fill in your Revolving Charge Account Number and sign the Agreement on the back of the order. The Minimum "add

Best of all ... you pay the same low monthly payment on "Add-Ons" if your new purchase does not exceed the

difference between your balance and the original purchase. To illustrate: an \$80 balance on a \$240 purchase permits you to buy up to \$160 more for the same monthly payment of \$12.00.0r, if you order more than \$160, your payments will be simply adjusted according to the Payment Table

EVERYTHING IN RADIO-TW

AND ELECTRONICS

on the back of the B-A Order Blank.

TO "ADD ON" AN ORDER AT ANY TIME

TAKE MONTHS TO PAY .

### ★ BY PHONE ...

From your home, local or long distance, you can phone your order. Call Area Code 816-531-5614. Tell our salesman you want to pick up your order from our plant or have it shipped.

### ★ IN PERSON ...

Visit the exciting, well stocked, fully staffed B-A store nearest you. There you will find the ultimate in dis-played merchandise. low prices and wonderful, helpful personal service.

### **B-A...SERVING MIDWEST AMERICA WITH 9 CONVENIENT STORES**

(+

- Kansas City, Missouri. 1012 McGee. (816) 221-6444
- Kansas City, Missouri. 3199 Mercier. (816) 531-5614 .
- Kansas City, Missouri. 301 E. 55th. (816) 363-8700 ٠
- .
- Kansas City, Missouri, Antioch Shopping Ctr. Sp Vivion Rd. & Chouteau Trfy. (816) 454-3200 (January '70 Opening)
- Tulsa, Oklahoma, 6353 E. 41st St. (918) 622-2520 (October '69 Opening)



wherever period of time is not otherwise specified in the listing, ma-terial and workmanship Guaranteed free of defects for 90 days.

LECENER IS IN THE POST OF T

Overland Park, Kansas. 6808 W. 75th. (913) 262-9535
 Overland Park, Kansas. 95th Metcalf Shpg. Ctr. (913) 381-0700
 Denver, Colorado. 800 Lincoln St. (303) 222-8986

- Springfield, Missouri. 1904 S. Glenstone. (417) 883-2324

SHOP AT HOME FOR CONVENIENT SERVICE

561-5460

**KANSAS CITY, MISSOURI** METROPOLITAN AREA

PICK UP MERCHANDISE AT **STORE OF YOUR CHOICE!** 

## CATALOG INDEX BY ITEM

| Adding Machine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antenna, Rotators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Antenna, Kotators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Ammeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Hi-Fi & Stereo7, 257<br>Musical Instrument73<br>Public Address63-65<br>Angle Brackets139<br>ANTENNAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 142, 191, 194<br>Citizens Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Ferrite Rod 119<br>FM & TV 201-204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 142, 194           Kits         142, 222           Rodio         222           Rotators         205,193           Appliances, Electric217-219           ASSORTMENTS         97, 103,           121, 135-138, 227, 231           Audio Cables, Connectors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 121, 135-138, 227, 231<br>Audio Cables, Connectors<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Auto Tape Ployers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Baffles, Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Baffles, Wall         68, 144           Bargain Index         226           Bargain Section         224-257           Barrier Strips         132           BATTERIES         96, 97           Holders         137, 240           Chargers         147           Binding Pasts134, 135, 241           Binaculars         78, 174           Blawers         147, 258           Blawers         145, 237           Bards, P.C.         128-131           Boaks & Monuals26, 82, 88, 89, 92, 185-187, 191           Boasters, TV         206, 207           Bottom Plates         143           Baxes, Plastic         128, 175           Burgers         143           Boxes, Plastic         128, 175           Burgers         137           Boxes         128-131           Boxes         128, 125           Burgers         137           Burgers         137           Bargers         138           Boxes         128, 125           Burgers         137           Burgers         137           Bargers         137           Bargers         137           < |
| Burglar Alarms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Cabinets, Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cameras                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cartridges, Phona6, 24, 25<br>Cassette, Tape Players<br>28-30, 32-34, 45, 51, 260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Tape                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cement & Chemicals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CHANGERS, RECORD<br>2-5, 256<br>Chassis, Bases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| CITIZENS BAND RADIO<br>EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Code Practice Keys &                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Chakes, Filter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Condensers<br>Fixed—All Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| CATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LO                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Varioble 137<br>CONNECTORS 124-127,<br>130, 133, 139, 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Jac                            |
| Converters, Power114, 115<br>TV, UHF, VHF189, 205<br>CORDS, AC Line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Jai<br>Jev                     |
| Variable 137<br>CONNECTORS 124-127,<br>130, 133, 139, 142<br>Converters, Power, 114, 115<br>TV, UHF, VHF189, 205<br>CORDS, AC Line 183<br>TV Cheater 208<br>Telephone 62, 220<br>Couplers, TV206-208<br>Crimping Tool 135<br>Crystals 121, 193, 223<br>Crystal Detectors 223                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ke<br>Ki                       |
| Decals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |
| Decals         145           Desk         Lomps         180           Dials & Accessories         136           Dial Lights         121-123, 241           Dimmers         181           Diades         80-82, 87-89, 91, 92           Drawing Sets         174,177           Drills, Electric         165-167                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Kn                             |
| 165 168 169 173 176 177                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |
| Dwell Meters 210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | L-F                            |
| Earphones 188, 239, 245<br>Educational Kits221-223<br>Elapsed Time Meters147<br>Electric Appliances217-219<br>Electric Scissors 179<br>ELECTRIC TOOLS161-168<br>Electical Sundries182, 183<br>Enclosures Hi.Fi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | La                             |
| Electric Scissors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | La<br>Lap<br>Lig<br>Lig<br>Lig |
| Enclosures, Hi-Fi<br>Enclosures, Hi-Fi<br>Enclosures, Hi-Fi<br>Enclosures, Hi-Fi<br>Encoser, Tape                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Loc                            |
| Fans 145, 237<br>Film, Mavie Slides 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ma                             |
| Files, Reomers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mo<br>Mo                       |
| 47, 118, 193, 195, 208<br>Fire Extinguishers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mo<br>Mo                       |
| Fans 145, 237<br>Film, Mavie Slides 76<br>Files, Reamers 168, 176<br>Filts, Choke 116, 112<br>Condenser 94-101<br>Line & Interference 178<br>Fire Extinguishers 178<br>Fish Paper 141<br>Flashbulbs 77<br>Flashgun 777<br>Flashgun 777<br>Flashgun 777<br>Flashgun 777<br>Flub 778<br>Flub 787<br>Flub 7 | Ma<br>Ma<br>Me<br>Mi           |
| Lamps, Tubes &<br>Starters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MI                             |
| Starters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |
| <u>c</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mir                            |
| Garage Door Opener213<br>Gauges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mii<br>Ma<br>Ma                |
| Glue Gun                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ma<br>Mu                       |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mu<br>Mu                       |
| Hammers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ne<br>Ne<br>Nit                |
| Headphones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |
| Headphones<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Opf<br>Osc<br>Ouf<br>Ouf       |
| EQUIPMENT           2-34, 252, 253, 256, 257           Amplifiers         7, 257           Receivers         7-11           Tuners         7, 64           Connectors, Cables73, 125           Haists         178           Holders, Battery137, 240           Hoak-Up Wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pai<br>Pai<br>Par<br>Par       |
| Holders, Battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Par<br>Par<br>Pec<br>Per       |
| Ignitian Systems, Auta210<br>Inductors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Pho<br>Pho                     |
| Inspection Light                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Pho                            |
| Inspection Light<br>160, 174, 180<br>Insulation Materials<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PH                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pho<br>PHO<br>Pho              |

| Varioble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | i i i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Varioble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Jacks, Phone, Phono                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Converters, Power, 114, 115<br>TV, UHF, VHF, 189, 205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Jacks, Phone, Phono<br>124, 126<br>Jars, Glass & Plastic 175                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CORDS, AC Line 183                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Jewelers Screwdrivers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Telephone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Telephone         62, 220           Couplers, TV         206-208           Crimping Tool         135           Crystals         121, 193, 223           Crystal Detectors         223                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Keys, Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Crystals 121, 193, 223<br>Crystal Detectors 223                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | KITS, Alignment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Educational 88 89 130 222 223                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Decals 145<br>Desk Lomps 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Photo Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Desk Lomps 180<br>Dials & Accessories 136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Printed Circuit130, 131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Diol Lights 121-123 241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Speoker Enclosure 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Diodes80-82, 87-89, 91, 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Test Instruments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Dimmers 181<br>Diodes80-82, 87-89, 91, 92<br>Drawing Sets 174,177<br>Drills, Electric 165-167                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Knobs & Dials 136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Drill Bits & Accessories<br>165, 168, 169, 173, 176, 177<br>Dwell Meters 210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Dwell Meters 210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L-Pads 104<br>Label Maker 174, 176<br>Lamp Cords 140, 183                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Lamp Cords                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Earphones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Flood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Elopsed Time Meters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LAMPS, Desk. 180<br>Flood 182<br>Fluorescent 179-181<br>Neon & Panel 121, 123<br>Designed inc. 77                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Electric Scissors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Language Records Tape 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Electicol Sundries182, 183                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Lapidary Equipment 221<br>Light Dimmers 181<br>Light Fixtures 181                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Enclosures, Hi-Fi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Light Fixtures 181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Epoxy 156, 157                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Lightning Arrestors. 142, 208<br>Line Testers                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Enclosures, Hi-Fi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | l consticks 119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Lubricants 157<br>Lugs, Solder 132, 139                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Fans 145, 237<br>Film, Mavie Slides 76<br>Files, Reomers 168, 176                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Machina Common 199                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Files, Reomers 168, 176                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Machine Screws                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| FILTERS, Choke 116, 118<br>Condenser 94-101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Magnifiers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Line & Interference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Manuals, Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| rish Paper [4]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 145, 165, 173, 174, 176                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Floshbulbs 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mossager 218<br>Mosts, Antenna 209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Flashgun 77<br>Flashlights 179<br>FLUORESCENT Fixtures 181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Megaphones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Lomos Jubes /r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Starters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 70.72 240 249 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Coble 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Frequency Meters 106, 184                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Starters. 181<br>Faat Control Switches. 106, 184<br>Frequency Meters. 147<br>Fuses & Holders. 120, 121, 183                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cable 140<br>Cartridges 72<br>Connectors 125, 126<br>Cantact 73<br>Mixers 69<br>Stands & Accessories                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 120, 121, 183                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cable 140<br>Cartridges 72<br>Connectors 125, 126<br>Cantact 73<br>Mixers 69<br>Stands & Accessories 69<br>Minibaxes 143<br>Mirrors, TV 160                                                                                                                                                                                                                                                                                                                                                                                |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Cable         140           Cartridges         72           Connectors         125, 126           Cantact         73           Mixers         69           Stands & Accessories         69           Minrors, TV         160           Madules         226           Mature Sneed         168                                                                                                                                                                                                                              |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Micrometers         173           MICROPHONES         140           Cotle         140           Cartridges         72           Connectors         125, 126           Cantact         73           Mixers         69           Stands & Accessories         69           Minibaxes         143           Mirrors, TV         160           Madules         226           Mota-Tools & Accessories         168                                                                                                              |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Cable 140<br>Cartridges 72<br>Connectors 125, 126<br>Cantact 73<br>Mixers 69<br>Stands & Accessories69<br>Munibaxes 143<br>Mirrors, TV. 160<br>Madules 226<br>Matar Speed Cantrol168<br>Mata-Tools & Accessories                                                                                                                                                                                                                                                                                                           |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mota-Tools & Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Cable         140           Cartridges         72           Connectors         125, 126           Cantact         73           Mixers         69           Stands & Accessories.         69           Minibaxes         143           Mirrors, TV.         160           Madules         226           Matar Speed Cantrol         168           Mota-Tools & Accessories.         165           Multimeters         147-155           Music Systems.         73           Music Systems.         16-21, 53, 215, 259, 260 |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mata-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mata-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mota-Tools & Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mota-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mata-Tools & Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Indeers       120, 121, 183         Garage Door Opener       213         Gauges       173         Glass Jars       175         Glue Gun       178         Grille Clath       16         Ground Rod & Wire       183         Cuitars       Amplifiers         Toround Rod & Wire       183         Cuitars       Amplifiers         Hammers       176         Handles       144, 244         Hardware, Nuts & Screws       137-139         Headphones       137, 139         Heatring Aids       188, 214, 244         Het Sinks       188, 214         Het Sinks       91, 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mata-Tools & Accessories<br>Multimeters 147-155<br>Musical Instruments73<br>Music Systems                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mata-Tools & Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mata-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mata-Tools & Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mata-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Garage Door Opener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mata-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Indeers       120, 121, 183         Garage Door Opener       213         Gauges       173         Glass Jars       175         Glue Gun       178         Grille Clath       16         Ground Rod & Wire       183         Cuitars       Amplifiers         Toround Rod & Wire       183         Cuitars       Amplifiers         Hammers       176         Handles       144, 244         Hardware, Nuts & Screws       137-139         Headphones       137, 139         Heatring Aids       188, 214, 244         Het Sinks       188, 214         Het Sinks       91, 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mata-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Insers & Honders         120, 121, 183         Garage Door Opener         Garage Sorr Opener         Glass Jars         Glass Jars         Glass Jars         Glue Gun         Grille Clath         Grinders         Ground Rod & Wire         Marmers         Harmers         176         Hammers         176         Handles         177, 190-194         Handles         137-139         Headphones         137-139         Headphones         137, 139         Heat Sinks         188, 239, 245, 251         Hearing Aids         188, 214         Heat Sinks         19, 188, 239, 245, 251         Hearing Aids         188, 214         Heat Sinks         19, 188, 239, 245, 251         Hearing Aids         188, 214         Heat Sinks         189         2-34, 252, 253, 256, 257         Amplifiers         7, 64         Connectars, Cables.73, 125         Haidts         Haidts <t< td=""><td>Mata-Tools &amp; Accessories<br/>Multimeters</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mata-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Indeers       120, 121, 183         Garage Door Opener       213         Gauges       173         Glass Jars       175         Glue Gun       178         Grille Clath       16         Grinders       165, 166         Grammets       137         Ground Rod & Wire       183         Cuitars, Amplifiers       73         Hammers       176         Handles       144, 244         Hardware, Nuts & Screws.         15, 188, 239, 245, 251         Hearing Aids       188, 214         Heat FibELITY         EQUIPMENT         2-34, 252, 253, 256, 257         Amplifiers       7, 24         Holders, Battery.       137, 125         Haids       171         Tuners       7, 64         Connectars, Cables.73, 125       178         Haidters, Battery.       137         Haiders, Battery.       140         Hole Plugs       137         Ignitian Systems, Auta.       210         Inductors       118, 119, 192                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mata-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Isses & Holders         120, 121, 183         Garage Door Opener         Gauges         T73         Glass Jars         Gile Clath         Grinders         165, 166         Grommets         Scuitars, Amplifiers         T3         Hammers         176         Hammers         176         Hammers         176         Haddphones         15, 188, 239, 245, 251         Headphones         15, 188, 239, 245, 251         Headphones         15, 188, 239, 245, 251         Headphones         15, 188, 239, 245, 251         Heat Sinks         91, 128         HIGH FIDELITY         2-34, 252, 253, 256, 257         Amplifiers         7,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mata-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Isses & Holders         120, 121, 183         Garage Door Opener         Gauges         T73         Glass Jars         Gile Clath         Grinders         165, 166         Grommets         Scuitars, Amplifiers         T3         Hammers         176         Hammers         176         Hammers         176         Haddphones         15, 188, 239, 245, 251         Headphones         15, 188, 239, 245, 251         Headphones         15, 188, 239, 245, 251         Headphones         15, 188, 239, 245, 251         Heat Sinks         91, 128         HIGH FIDELITY         2-34, 252, 253, 256, 257         Amplifiers         7,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mata-Tools & Accessories.<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Instant       Image Provided State St | Mata-Tools & Accessories.<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Isses & Holders.         120, 121, 183         Garage Door Opener.         Gauges         173         Glass Jars.         Ifficience         Gilass Jars.         Glass Jars.         Ifficience         Gilass Jars.         Glass Jars.         Ifficience         Gilass Jars.         Glass Jars.         Ifficience         Grainders.         Ifficience         Grand Rod & Wire.         Ifficience         Graudatass         Ifficience         Graudatass         Ifficience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mata-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Isses & Holders         120, 121, 183         Garage Door Opener         Gauges         IT73         Gauges         IT73         Gauges         IT73         Gauges         IT73         Glass Jars         IT75         Glue Gun         Grille Clath         Grinders         IS         Ground Rod & Wire         Bardian         Commets         Ground Rod & Wire         Bardian         Ground Rod & Wire         Hammers         IT76         Hammers         IT71         Gauges         Itata         Haddes         Itata         Itat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Mata-Tools & Accessories<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Isses & Holders.         120, 121, 183         Garage Door Opener.         Gauges         173         Glass Jars.         Ifficience         Gilass Jars.         Glass Jars.         Ifficience         Gilass Jars.         Glass Jars.         Ifficience         Gilass Jars.         Glass Jars.         Ifficience         Grainders.         Ifficience         Grand Rod & Wire.         Ifficience         Graudatass         Ifficience         Graudatass         Ifficience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mata-Tools & Accessories.<br>Multimeters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Plastic Boxes, Jars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Phone & Phono                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sto                          |
| Phone & Phono<br>124-126, 133<br>Telephone 62<br>Polystyrene Sheets &<br>Tubing 136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sto<br>SW                    |
| Tubing 136<br>PORTABLE, Radios48-54<br>Phonos 22-23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Swi                          |
| Recorders & Players<br>27, 29-34B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | T-I<br>Ta                    |
| Polystyrene Sheets &<br>Tubing136<br>PORTABLE, Radios48-54<br>Phonos22-23<br>Recorders & Players<br>27, 29-34B<br>Television Sets55<br>Potentiometers166, 167<br>Power Supplies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ta<br>Ta<br>Ta<br><b>T</b> A |
| POWER TOOLS 149, 150, 192                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| Powerstats 115<br>Printed Circuit Kits130, 131<br>Probes & Prods149, 158, 159<br>Projection Lamps 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |
| Projection Lamps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                            |
| Projection Lamps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |
| Punches 169, 171, 176, 177                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Te                           |
| Rabbit Ears 201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Te                           |
| Rock Ponels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TE                           |
| 45-47, 215<br>Communications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |
| Communications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |
| Kits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |
| RECORD Accessories25, 26<br>Cobinets 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |
| Changers 2-5, 256<br>Code Lesson. 191                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Те                           |
| RECORDERS, TAPE 27-35<br>Recording Accessories. 39-41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Te<br>TE                     |
| RECEIVERS        7-11, 189-192           RECORD Accessories        21           Changers        21           Changers        21           Changers        21           RECORDERS, TAPE        21-35           Recarding Accessaries39-41        21           Tape        36-38           Rectifiers         80-82, 88-92           REGULATORS        89, 114           Refrigeratar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |
| Refrigerator 216<br>RELAYS 110-114 193                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Te:<br>Th<br>Tir             |
| Relay Rack Panels 145<br>Remate Control Devices 184                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Tir                          |
| Remote Control Devices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | то                           |
| R. F. Chokes & Cails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | То                           |
| Rivet Taals & Rivets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tro                          |
| Rock Tumbler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TR                           |
| resource outline o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TR                           |
| Grammets137<br>S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Tro<br>Tri                   |
| Sanders                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Tri<br>Tri                   |
| Scissors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tru                          |
| Seria Conductors 80.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Tu<br>Tu<br>TU               |
| Service Aids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |
| SHORT WAVE Equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tw<br>Tw                     |
| Signal Generators152, 153<br>Signal Tracers152, 155, 159                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ту                           |
| Pilot Lomo 122, 123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Va                           |
| Tube, Transistor & IC<br>92, 127-130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ve<br>Vit                    |
| Solar Cells81, 89, 91, 229<br>SOLDER160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Vic<br>Vis                   |
| Aids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Va<br>VT                     |
| Solenaids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Vo<br>Vo                     |
| Sound Powered Phone62<br>Spacers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Wa                           |
| SPEAKERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | We                           |
| S           Sanders         166, 167, 174           Scriber         163, 171           Scissors         172, 177, 179           Screwdrivers         170, 171, 177, 179           Screwdrivers         170           Seizure Toals         170           Service Aids         156-160           Shielding         141           SHORT WAVE Equipment         189-191           Signal Generators         152, 153           Signal Tracers         152, 153           SOCKETS, Electrical         122, 123           Tube, Transistor & IC         122, 123           Tube, Transistor & Solar Cells         89, 91, 229           Solar Cells         81, 89, 91, 229           Solar Cells         18, 89, 91, 229           Solar Cells         132, 133, 139           Solar Cells         132, 133, 139           Solar Cells         132, 133, 139           Solar Cells         122, 123           Lugs         132, 133, 139           Solar Cells         132, 133, 139           Solar Cells         134, 47, 212, 253           Auta Radio.         47           65-68, 214, 251-253           Auta Radio.         47           < | Wa<br>Wa<br>We               |
| Paging & Trumpets66, 67<br>Spray Paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | We                           |
| Auta Radia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | We                           |
| Headphones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (                            |
| Receivers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Wr                           |
| Receivers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| 30, 33-35, 259, 260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Zer                          |

| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Systems<br>16-20, 53, 259, 260<br>Tape Players                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| T-Pads         104           Tachometers         210           Talking Books         26           Tap & Die Set169, 171, 177           TAPE         Decks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Recording     30-36       Accessories     39-41       Splicers     40,41       Transparent     (Scotch).158       Video     57       Telegraph     Keys193,239       Telephones     62,220       Amplifiers     62       Pickups     40,250       TELEVISION     Antennas       201-204     Boosters                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 201-204           Boosters, Amplifiers           206-207           Converters, UHF           205           Couplers           206-208           Filters           193, 208           Picture Tubes           95           Portable Sets           24, 55           Rotato           206-208           Picture Tubes           95           Portable Sets           24, 55           Rotato           209           Wall Plates           209           Wall Plates           206-208           Terminals, Solder & Solder           132, 134, 135, 139           Terst           201PMENT           147-155, 158, 159           Thermometers           159, 214           Timers           184           Timing Lights           210 |
| Toosfer         217, 219           TOOLS         131, 135, 159-179, 215, 221           Alignment         159           Chests         175                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Torches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tube Brightner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Vacuum Cleaners                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Walkie-Talkies 198-200, 220<br>Wall Baffles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| WIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Zener Diodes80, 81, 88-90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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