Sylvania

Radio Tube Characteristics Chart





Notice

This chart has been completely revised and many new and old types have been added to make it of more use to servicemen.

Please note that the inclusion of many of these old types does not mean that they are available from Sylvania. They are included for your reference in finding substitutes, etc. Consult our price list for types currently available.

The data published here have been compiled from various sources and while believed to be accurate, no responsibility can be assumed in case of error.

How To Use This Chart

The types are listed in numerical and alphabetical order because there are now so many types it is difficult to remember even the style of construction or whether it has a filament or cathode as emitter. The second column now lists the style of construction. Lock-In, Miniature and GT are, of course, well known, but the letters "T" and "ST" may need explaining. "T" means tubular bulb and "ST" is the dome topped bulb as now used in Type 6D6, 24, etc. The following number gives the nominal maximum diameter in eighths of inches.

New columns have been added to show the type of emitter, (cathode or filament), and for interelectrode capacitances on those types having capacitance ratings. On converters the capacitances shown are respectively, Signal Grid to Plate; R-F Input; and Mixer Output. The capacitance values shown are for a shielded tube when the data are available, since this is the latest standard method. Except in the case of obsolete (or newly announced) types, more complete technical data may be found in the Manual.

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EMPORIUM, PENNA.

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COMMERCIAL ENGINEERING DEPARTMENT

SYLVANIA ELECTRIC PRODUCTS, INC.

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Туре		Construction			Emitter	,	Cal	Vote (1) (apacitanc in u.uf.	CES	Use	Plate	Negative Grid	e Screen	Plate Current	Screen Current	Plate Resistance	Micromho Mulual		Chms Load for Stated	torted Power Output	Тура
	Style	Class	Basing Diag.		Volts	Amos	C40.	Cin.	Cout.	016	Volts		Volts	Ma.	Ma.	Ohms	Conduct-		Power Output	Milli- watts	1794
OA4G	ST-12	Gas Triode	4-V	Cold K	1400		11111		1	Relay Tube	Peak Ca	thode Me.	-100.D-C C	athode Ma.	-25 Max. Str	arter Anode Drop	p-60V. A	pprox. Anode	Drop = 70V	/ Approx.	OA4G
OB3/VR90-30	ST-12	Diode	4-W	Cold K	-	0.000			20.00	Voitage Regu	ulator with	h starting Vo	oltage at 125.	5. Operating	Volts 90, Op	perating Current	10 Ma. Mi	lin. 30 Ma. Ma	D K		OB3 VR90-30
OC3/VR105-30	57-12	Diode	4-W	Cold K				0.7.1		Voltage Regu	ulator with	h starting Vo	oltage at 135,	5, Operating '	Volts 105, O	Operating Curren	nt 5 Ma. Mi	in. 40 Ma. Ma:	BR.		OC3/VR105-30
OD3/VR150-30		Diode	4-W	Cold K		11.0		****		Voltage Regu	ulator with	h starting Vo	oltage at 180,	0, Operating 1	Valts 150, O	Operating Current	nt 5 Ma. Mi	in. 40 Ma. Ma	ax.		OD3/VR150-30
OZ4	Metal	Gas Duodi.	4-R	Cold K		****		****	1111	F-W Rect	300 A.C	C. Valts Per	er Plate, RMS.	5, 90 Ma. Ma	4ax. 30 Ma. M	Min. Output Cun	rrent.				OZ4
OZ4G	T-7	Gas Duodi.	4-R	Cold K		2.05	0.0		11.11	F-W Rect	300 A.C	C. Volts Per		5, 90 Ma. Ma		Min. Output Cum	rent.				OZ4G
01 A	ST-14	Triode	4-D	Filament		0.25	8.1	3.1	9.2	Amplifier	90 135	4.5 9.0	*****	9.5 3.0	0.000	11,000	725 800	8.0	222		O1A
	Miniature	Diode		The state of the s	the second second	0.15	122	1000		Detector			de Type Rectil								1A3
1A4P	ST-12	Pentode	4-M	Filament	2.0	0.06		m 5.0		R-F Amp.	135	3.0	67.5 67.5	2.2	0.9	1 Meg. 1 Meg.	625 725	0.34434	41441		1A4P
1A4T	ST-12	Tetrode	4-K	Filament	2.0	0.06	01 Om	m 5.0	11.0	R-F Amp	135	3.0	67.5 67.5	9.9 9.9	0.7	350,000 600,000	625 650	0.000	2000		1A4T
1A5GT	GT	Pentode	6-X	Filament	1.4	0.05	With F	1000		Power Amp	85	4.5	85	3.5	0.7	300,000	800	45.11.61	25,000	100	1A5GT
1 A6	ST-12	Heptode	6-L	Filoment	2.0	0.06	0.25	10.5	9.0	Converter	135	3.0	90 67.5	1.8	9.1	400,000	850 275▲			0 Ma.)	1A6
1A7GT	GT	- Uselede	77	Pilaman	4-4	0.05			-		180	3.0	67.5	1.5	2.0	500,000	300▲	The Residence of the Residence of the Party			1.101
1AB5	Lock-In	Heptode	7-Z 5-BF	Filament			0.5m		10.0	Converter	90	0.0	45	0.55	0.60	600,000	250▲	_		T	1A7GT
		Pentode	5-Br	Filament	1.2	0.13	0.25m	2.80		R-F Amp	90 150	0	90 150	3.5 6.8	0.8 2.0	275,000 120,000	1,100 1,350	000000	11715	*****	1 A B 5
184P	ST-12	Pentode	4-M	Filament	2.0	0.06	.007m	n 5.0*	11.0*	R-F Amp.	135	3.0	67.5 67.5	1.6	0.7	1.5 Meg. 4 1.5 Meg. 6	560 650	114000		0111	1 B4P
1B5 25S	ST-12	Duodiode-Tri	6-M	Filament	2.0	0.06	3.6	1.6	1.9	Det. Amp.	135	3.0	07.5	0.8	-	35,000	575	20			1B5/95S
1B7GT	GT	Heptode	7-Z	Filament	The second	0.10		7.0	7.5	Converler	90	0.0	45	1.5	1.3	350,000	350▲	_	1.6 Ma.)		1B7GT
1C5GT	GT	Pentode	6-X	Filament		0.10	The last	-	-	Power Amp	83	7.0	93	7.0	1.6	110,000	1,500	165	9,000	200	1C5GT
1C6	ST-12	Heptode	16-L	Filament		0.19	0.3	10.0	10.0	Converter	90	7.5	90 67.5	7.5	1,6	115,000	1,550	180 (G2 = 135 V	8,000 /. Max. 3	240 I.1 Ma.)	1C6
1C7G	ST-12	Heptode	7-Z	Filoment					14.0	Converter	180	3.0	67.5	1.3	9.0	700,000	325▲	(G2 - 180 V (G2 - 135 V	/. Max. 4	1.0 Ma.)	1C7G
1D5GP	ST-12	Pentode	5-Ý	Filament							180	3.0	67.5	1.5	₹.0	700,000	395▲		/ D Max. 4	0 Ma.)	
						0.06		m 5.0*		R-F Amp.	135 180	3.0 3.0	67.5 67.5	2.2 2.3	0.9	1 Meg. 1 Meg.	625 725		1		1D5GP
1D5GT	ST-12	Tetrode	5-R	Filament		0_06	.01 0m	4.4	10.8	R-F Amp.	135	3.0	67.5 67.5	2.2	0.7 0.7	350,000 600,000	625 650	0.000			1D5GT
1D7G	ST-12	Heptode	7-Z	Filament	2.0	0.06	0.25	10.5	9.0	Converter	135	3.0	67.5 67.5	1.8	2.1 2.0	400,000 500,000	275▲	(G2=135 V (G2=180 V	/. Max., 9	2.0 Me.) 2.5 Me.)	1D7G
1D8GT	GT	Diade Triade Pentade	8-AJ	Filament	1.4	100			199	Det. Amp.	45	0	67.5	0.3	774	77,000	325	95 95	1	(Ivi)	1 DBGT
	1	. •								O A	67.5 90	0	45	0.6 1.1	0.3	55,500 43,500	450 575 650	25	20,000	35	
	1									Power Amp.	45 67.5	4.5 6.0	45 67.5	1.6 3.8	0.8	300,000¢ 200,000¢	650 875		16,000	100	
1E4G	Gī	Triode	5·S	Filament	1.4	0.05	2.4	2.4	6.0	Amplifier	90	9.0	90	5.0	1.0	11,000	925 1.325	14.5	12,000	900	1E4G
1Ë5GP	ST-19	Pentode	5.Y								90	3.0		1.5		17,000	825	14			1E5GP
	21.14	гелюде	5.7	Filament	2.0	0.06	.007m	5.5	12.0	R-F Amp	135	3.0	67.5 67.5	1.6	0.7	1.5 Meg. 4 1.5 Meg. 4	560 650				1E5Gr
1E7G	ST-1 2	Duo. Pentade	8-C	Filament	2.0	0.24			1 2 3	Power Amp.	135	7.5	1 35	7.0	2.0♦	220,000	1,600	350	24,0004	575	1E7G
1F4	ST-12	Pentode	5-K	Filament		0.12				Power Amp.	135	4.5	135	8.0	2.4	200,000	1,700	330	16,000		1F4
1F5G	ST-12	Peniode	6-X	Filament	2.0	0.12			Trans.	Power Amp.	135	4.5	135	8.0	2.4	200,000	1,700		16,000		1F5G
1F6	ST-1 2	Duodi. Pent.	6.W	Filoment	2.0	0.06	.007m	4.0	9.0	R-F or I-F	180	1.5	67.5	2.2	0.7	1 Meg	650			Sterry	1F6
1F7G	ST-12	Duodi. Pent.	7-AD	Fllament	20	0.06	.01 m	3.8*	9.5*	A-F Amp R-F or I-F	135	9.0	(Screen Supp	2.9	7. Thru 0.8 Me 0.7	leg. Res., Grid R. 1 Meg.	650 Mes. = 1.0 Mes	T T			1F7G
1F7GV	- FT . 0	D. J. Dank	TAR		1					A-F Amp.	135	2.0 ((Screen Suppl	ply = 1 35 V.	. Thru 0.8 Mes	eg GRID Res		Voltage Gain	46.1		
1G4GT	ST-1 2	Duodi. Pent.				0.60			-	Same as 1F7G			Above the C	The second second	egative Fllame						1F7GV
1G5G	ST-14	Triode	5-S	Filament		0.05				Amplifier	90	6.0	7	2.3		10,700	895	8.8	100		1G4GT
1G6GT	S1-14 GT	Pentode				0.12			1	Power Amp.	90	6.0	90	8.5	2.5	133,000	1,500		8,500		1G5G
_	Gi	Duotriode	J-AD	Filament	1,4	0.10	41111		100	Power Amp.	90	0.0		1.0		45,000	675	30	(Each Triod		1 G6GT
TH4G	ST-1 2	Itiode	5-S	Fliament	0.2	0.06	4 constant			Class B Det Amp	90	4.5		2.5		11,000	850	9.3	12,000*	675	1H4G
				1						Det	135	9.0		3.0		10,300	900 900	9.3 9.3	1 444 1		11110
1H5GT	GT	Diode Triode		Filament		0.05	1.1	0.35	4.0	Det. Amp.	90	0.0	-	0.15		240,000	275	65			1H5GT
1H6G	ST-12	Duodiode-Tri.				0.06	3.6	1.6		Det. Amp	135	3.0		0.8		35,000	575	20			1H6G
1J5G	ST-1 4	Pentode		Filament		0.12		11.11		Power Amp	135	16.5	135	7.0	2.0	125,000	1,000	125	13,500		1J5G
1J6G	ST-12			Filament		0.24		Level.		Power Amp			e as Type 19.				-	-			1J6G
	Miniature	Pentode	6-AR	Filament	1.4	0.05	.008m	3.8	7.5	R-F Amp	90 90	0	67.5	2.9 4.5	1.9	600,000 350,000	925 1,025	+(++)-1+	10000		1L4
1LA4	Lock-In	Pentode	5-AD	Filament	1.4	0.05			3000	Power Amp.	85	4.5 4.5	90 85	3.5	0.7	300,000	800	161111	25,000		1LA4
											90	4,5	90	4.0	0.8	300,000	850	territary.	25,000	115	

Type		Construction			Emitter			ote pacitan in uμ1.		Use	Volts Volts Ma. Ma Ohms Conduct- Factor Power Milli-										Туре
1100	Style	Class	Basing Diag.	Type	Volts	Amps	Сдр	Cin.	Cout		Volts	Volts	Volts								.,,,,
1LA6	Lock-In	Heptode	7-AK	Filament	1.4	0.05	0.4	7.5	8.0	Converter	90	0.0	45	0.55	0.6	750,000	250▲	(G2 90 V.	Max., 1.9	Ma.)	1LA6
TLB4	Lock-in	Pentode	5-AD	Filament	1.4	0.05	(000)	4+1-4	***	Power Amp.	45 67.5 90	4,5 6.0 9.0	45 67.5 90	1.6 3.8 5.0	0.3 0.8 1.0	300,000 200,000 200,000	650 875 925	75 01 0 75 01 5	20,000 16,000 12,000	35 100 200	1LB4
1LC5	Lock-in	Pentode	7-AO	Filament	1.4	0.05	.007m	3.2	7.0	Amplifier	45 90	0.0	45 45	1.1	0.95	700,000 1.5 Meg.	750 775	*******	100		1LC5
1LC6	Lock-in	Heptode	7-AK	Firameni	1.4	0.05	0.28	9.0	5.5	Converter	45 90	0.0	35 35	0.7	0.75	300.000 650,000	250▲	(G2 45 V. (G2 45 V.	Max., 1.4 Max., 1.4		fLC6
1LD5	Lock-in	Diode Pent.	6-AX	Filament	1.4	0.05	018	3.2	6.0	Amplifier	45 90	0.0	45 45	0.55 0.6	0.12	750,000 750,000	550 575	Estrate.		11/10	1 L D 5
1LE3	Lock-in	Triode	4-AA	Filament	1.4	0.05	1.7	; 1.7	3.0	Amplifier	90 90	0.0 3.0	11.02	4.5 1.7		11,200 16,500	1,300 850	1 4.5 14.0		China China	1 LE3
1LH4	Lock-in	Diode-Triode	5-AG	Filament	1.4	0.05				Det. Amp.	90	0.0	Lilyna	0.15		240,000	275	65	* * * * *	37.113	1LH4
1LN5	Lock-in	Pentode	7-AO	Filament	1.4	0.05	.007 m	3.4	8.0	Amplifier	90	0.0	90	1.6	0.35	1.1 Meg.	800	NAME OF TAXABLE PARTY.			1LN5
1N5GT	Gī	Pentode	5-Y	Filament	1.4	0.05	.007m	3.4	10.0	R-F Amp.	90	0.0	90	1.9	0.3	1.5 Meg. #	750			41.00	1N5GT
1N6G	GT	Diode Pent	7-AM	Filament	1.4	0.05				Det. Amp.	90	4.5	90	3.4	0.7	300,000	800		25,000	100	1N6G
1P5GT	Gī	Pentode	5-Y	Filament		0.05	.007m	3.0	10.0	Amplifier	90	0.0	90	2.3	0.7	800,000	750		20,000		1P5GT
1Q5GT	GT	Beam Amp.	6-AF	Filament		0.10				Power Amp.	90	4.5	90	9.5	1.3	/555	2,200	11-1-11	8,000	270	1Q5GT
1R4-1294	Lock-in	H. F. Diode	-	Cathode		.150		-		Detector					Frequency Us		2,200		0,000	2.0	1R4-1294
	Miniature	Heptode	7-AT	Filament	-	0.05	0.4m	7.0	190	Converter	45	0.0	45	0.7	1.9	600,000	235▲		_		1R5
1R5				Filament		0.1		-	. 1.0	Power Amp.	90	0.0	67.5 45	1.7	3.0	100,000	300A 1,250	11.00	0.000	-1	154
154	Miniature	Pentode	7-AV								90	7.0	67.5	7.4	1.4	100,0000	1,575		9,000 8,000	65 270	
1\$5	Miniature	Diode Pent.	6-AU	Filament	1.4		0.2	2.0	4.0	Det. Amp.	67.5	0.0	67.5	1.6	0.4	600,000	625		11000	*****	1\$5
1SA6GT	GT	Pentode	6-BD	Filament	1.4	0.05	.01 m	5.2	8.6	R-F Amp.	45 67.5 90	0	45 67.5 67.5	1.1 2.4 2.45	0.3 0.7 0.68	700,000 600,000 800,000	750 950 970	*******			1SA6GT
1SB6GT	GT	Diode Pent.	6-BE	Fliament	1.4	0.05	0.25	3.2	3.0	Det. Amp.	90 45	0	67.5 45	1.45	0.38	700,000	665 500	1937009	1000	Literary.	1SB6GT
1T4	Miniature	Pentode	6-AR	Filament	1.4	0.05	.008m	3.8	7.5	R-F Amo.	45 90	0.0	45 67.5	1.9	0.7 1.25	350,000 500,000	700 900	++1-1-1-	-100	11111	1 T4
115GT	GT	Beam Amp.	6-AF	Filament	1.4	0.05	0.5	4.8	8-0	Power Amp	90	6.0	90	6.5	1.4	16.77.77	1,150		14,000	170	1T5GT
17	ST-12	Dlode	4-G	Cathode	6.3	0.30				H-W Rect.	325 A. (. Volts Pa	Plate, RMS	S. 45 Ma. C	Sutput Current	Condenser	input to Filter				1V
9A3	ST-16	Triode	4-D	Filament	2.5	2.50	16.0	7.0	5.0	Power A p	250	45.0	11.000	60.0	distant.	800	5,250	4.9	2,500	3,500	2A3
2A4G	ST-12	Gas Triode	5-5	Filament		2.50	-	1001	10000	Class AB1 Relay Tube				Anode Volts	Tube, Push P = 200 Peak A	Anode Amps.	5		3,000	15,000	2A4G
2A5	ST-14	Pentode	6-B	Cathode	2.5	1.75			-	Pawer Amp.			15 Seconds. as Type 6F6		ng Time — 2 S	Seconds.					2A5
246	SI-12	Duodiode Iri.	6-G	Calnoue	2.5	0.80	1.7	1.7	3.8	Del. Amp.	250	2.0		0.9		91,000	1,100	100			2A6
2A7, 2A75	ST-12	Heptode	7-C	Cathode	2.5	0.80	0.3m		9.0	Converter	Charactes		as Type 6A				.,,				2A7, 2A7S
287, 287S	ST-12	Duodi. Pent.	7-D	Cathode		0.80		Type	Character Con-	Del. Amp.		and the second second	as Type 6B		-	*					2B7, 2B7S
AND RESTORATED THE PARTY OF	T-9	Electron Ray	6-R	-	2.5	0.80		- 7	-	Indicator	-		as Type 6ES								2E5
2E5	ST-12	Commence of the Parket of the	5-D	Cathode	2.5	1.35				Detector	man and			-	ately 40.0 M	- wish EO Va	It. D.C. on th	n Distant		_	25. 45
25/4S		Duodiode	-	-	income to the	5.0				H-W Rect.											2V3G
₹A3@	ST-12	Diode	4-Y	Fllament	-		1111		11.11		The state of the last				Output Cument		the second secon				
2W3GT	GT	Diode	4-X	Filament	-	1.50	274.24		1111	H-W Rect.					Output Current						2W3GT
2X2 879	ST-12	Diode	4-AB	Cathode	2.5	1.75	1 4 7 1	-1-11		H-W Rect.					Output Curre		er input to Fil	ter.			2X2 879
2Z2/G84	ST-12	Diode	4-B	Filament		1.50			7.0	H-W Rect.					Dutput Current						9Z9 G84
3A4	Miniature	Pentode	7-BB	Filament	2.8	0.10	0.35m	4.8	7.0	Amplifier	135	7.5 8.4	90	14.8	2.6	90,000	1,900	101000	8,000	600 700	3A4
3A5	Miniature	Duotriode	7-BC	Filament	1.4 2.8	0.22	Section.	1.1	1.9	Amplifier	135	2.5 20.0	111111	3.7	Push-Pull Cla	8,300 · 155 C R. F. A	1,800 mplifier	15		2000	3A5
3A8GT	GT	Diode TriPent.		Filament	2.8	0.05	2.0 .01 2m	2.6 3.0	4.9 10.0	TriAmp. PentAmp	90 90	0.0	90	0.15 1.20	0.3	940,000 600,000	275 750	******	11111		3A8GT
3B5GT	GT	Beam Amp.	7-AP	Filament	2.8	0.10	11711	1117	1111	Amplifier	45 67.5	4.5 7.0	45 67.5	6.7	0.3	100,000	1,400 1,500		8,000 5,000	70 180	3B5GT
3B7-1 291	Lock-in	Duotriode	7-BE	Filoment	9.8	110		1.4	2.6	Osc. Amp.	135 180	0	1000	22.0 25.0	(Class AB2) (Class C)	1,900 R. F. Pow. /	20 Amp. 2800 m	w at 25 mc 14	16,000 00 mw at 1		3B7-1 291
3D6-1 299	Lock-in	Beam Amp.	6-BB	Filament	2.8	.t 10 .220		7.5	6.5	Power Amp.	150 150	4.5 20.0	90 135	10.9 93.0	1.8 6.0	(Class A) (Class C)		Amp. at 50 m	14,000 ic.	600 1,400	3D6-1299
3LF4	Lock-in	Beam Amp.	6-88	Filament	1.4	0.10 0.05	1911	75.77	::::	Power Amp	90 110 90 110	5.0 4.5 6.6 4.5 6.6	85 90 110 90	7.0 9.5 10.0 8.0 8.5	0.8 1.3 1.4 1.0	70,000 90,000 100,000 80,000 110,000	1,950 2,200 2,200 2,000 2,000	*******	9,000 8,000 8,000 8,000	950 970 400 930 330	3LF4
204	Miniature	Pentode	7.RA	Filament	1.4	0.10				Power Amp.	85	5.0	85	6.9	1.5	120,000	1,975		10,000		304
3Q4		rentode			2.8	0.05	177.15	22		Plate and Target	90 90	4.5	90 90	9.5 7.7	9.1 1.7	100,0004	2,150 2,000		10,000	970 940	on Condustance

 ⁽¹⁾ Values are given shielded unless marked with (*).
 (2) Convertes tube capacitances given are signal grid to plate; RF Input; Mixer Output.

m maximum.
Applied through 250,000 ohms,
Per Tube or Section—No Signal.

Plate and Target Supply Voltage With Average Power input of 320 Mw. Grid to Grid.

¶Plate to Plata.

□ Applied through 20,000 ohms. Approximate.

◆Conversion Conductance. 150 Volts RMS applied to two grids.

	1			1				Note (1)	(2)						1				Chims	Canals.	
Type		Construction			Emitter			apecitant inuµf.	nces	Use	Plate		Screen	Plate Current	Screen Current	Plate Resistance	Micromhos Mutual	s Ampli- fication	Load for Stated	torted Power Output	
	Style	Class	Basing Diag.		Volt	ts Amos	Cqo.	Cin.	Cout.		Volts		Volts	Ma.	Mai	Ohms	Conduct-	Factor	Power	Milli- watts	
3Q5GT	GT	Beem Amp.	7-AP	Filament	1.4	0.10		100		Power Amp.	90	4.5 4.5	90 90	9.5 8.0	1.3	75,000 80,000	2,200	1.00	8.000	270	3Q5GT
354	Miniature	Pentode	7-BA	Filament		0.10	.30	5.0	7.0	Power Amp	90	7.0	67.5	7.4	1.4	1 00,000	1,575	TH teat	8,000	970 935	3\$4
4A6G	ST-1 2	Duotriode	8-L	Filament		0.19	- 1	+-3	1111	Power Amp.	90	1.5	07.5	1.1		26,500	750	20			4A6G
5 T 4	Metal	Duodlode	5-T	Filament	of Persons Stewart &	2.0	111	73.10	1	Recliffer	90 450 A				Class B. Max a. Output Current	nt. Condenser	Input to Filte	et.	8,000	1,000	514
5U4G	ST-16	Duodiode	5.T	Filament	5.0	3.00		1	-	F-W Rect.		THE RESERVE SHAPE AND ADDRESS.			 a. Output Curren a. Output Curren 		put to Filter. er Input to Filt	bot			5U4G
5V4G	ST-14	Duodiode	3-1	Cathode		2.00		1		F.W Rect.					a. Output Curren		er input to Filt	Committee of the Commit			5V4G
5W4GT	GT	Dundlode	5-T	Filament	THE PARTY NAMED IN	1.50			-	F-W Rect					a. Output Curren		er Input to Filt				5W4GT
5X3	ST-14	Duodiode	4-C	Filament		2.0				Rectifler	400 A.	. C. Volts Po	er Plate, RM	45, 110 Ma	a Output Curren a Output Curren	nt. Choke or	Condenses In	put to Filter.			5X3
5×4G	ST-16	Duodiode	5-Q	Filament	5.0	3.00		1		F-W Rect					a. Output Curren		e Input to Filte				5X4G
5Y3GT	GI	Duodiode	5-T	Filament		2.00			1000	F-W Rect.	350 A.	. C. Volts Pe	er Plate, RM	45, 125 Ma	a. Output Current a. Output Current	nt. Condenser	er Input to Filte				5Y3GT
574G	ST-14	Duodlode	5-Q	Filament	5.0	2.00	1		Lang	F-W Rect.			e as Type 5Y		Cuiba. Cant.	t. Chort in.	Tat to I made.				574G
5Z3	ST-16	Duodiode	4.C	Filament	1 5.0	3.00	-			F-W Rect		The second secon	the latest the latest terminal	-	a. Output Current	t Condense	r Input to File	iet.			5Z3
52.4	Metal	Duodiode	5-I.	Cathode	5.0	2.00			20.00	F-W Rect					ept Capaciances						524
5Z4GT	GI	_ Duodiode	5-L	_		2.00				F.W Rect.			and a company of the		. Output Curren		r Input to Filt	iq.r.			5Z4GT
6A3	ST-16	Triode	4-D	Filament	6.3	1,00	16.0	7.0	5.0	Power Amp.	250 325 325	45.0 68.0		60.0 40.0 40.0	(Push Pull, Fix (Push Pull, Seli		5,250 r 850 (Chms)	4.9	2,500 3,000° 5,000°	3,200 15,000 10,000	1
6A4/LA	ST-14	Pentode	5-B	Filament	6.3	0.30	0.1	10.7%	PE 9 T	Power Amo.	135	9.0	135	13.0	2.8	59,600 60,000	2,100 2,500	150	9,500	700	6A4/LA
6A5G	ST-16	Triode	6-T	Cathode	6.3	1.25		101-10	FE 1+	Power Amp.	250 325	45.0 68.0	100	60.0	Tube, Push Pull,	800	5,250	4.9	2,500 3,000°	3,750	
6A6	ST-14	Ductilode	7-8	Cathode	6.3	0.80	1.4	-572	4-	Power Amp. Drives Drives	300 250 294	0.0 5.0 6.0			er Plate, Class B		Zero Signal 3,1 00 3,2 00	35 35	10,000 ⁴ (Class A Da	10,000 blver)	
6A7, 6A7S	ST-12	Heptode	7-0	Cathode		0.30	The state of the s	8.5	9.0	Converter	-		as Type 64		of Capacitances.	11.000	3.200	35	(Class A Di	//ver)	6A7, 6A7S
648	Metal	Heptode	B-A	Cathode		0.30		-	12.0	Converter	Characte	eristics Same	as Type 6A	A8G, Excep	pt Capacitances						6A8
6A8G G1	ST-19 GT	Heptode	8-A	Cathode	6.3	0.30	.96	9.5	12.0	Converter	100	1.5	50	1.1	1.3	600,000	360▲		V., 2.0 Ma		6A8G
6AB5 6NS	T.9	Electron Ray	6-R	Cathode	63	0.15		-		Indicator	250 135§	3.0	100	3.5	2.7	360,000	550▲		Vo, Max.,	4.0 Ma.)	GI
6AB7	Metal	Pentode	8-N	Cathode	1	0.45	.015m	8.0	5.0	Amplifier	300	3.0	200	12.5	, Target Current S	700,000¢		3,500	.)		6AB5 6N5
6AC5GT	T-9	Triode	6-Q	Cathode		0.40	101311	11 01	25.65	Power Amp.	250 250	-13 (Blas From	76 Driver)	32 O	(Class A1, On	36,700 ne Tube, Dyna	3,400	125	7,000	3,700	6AC5GT
6AC7	Metal	Pentode	8-N	Cathode	6.3	0.45	.015m	110	5.0	A - wife on	250	0.0	170	5.0	(Class 8, Two 1		0.200	-1 === A	10,0001	8,000	
6ADSG, GI	ST-12, GT			Cathode	6.3		3.3±	4.1+	3.9*	Amplifier	300	2.0	150	10.0	2.5	750,0004			as Res = 16		6AC7
6AD6G	1.9	Electron Ray	Married III Management	Cathode	6.3	0.15	3.3	4.1-	3.7	Amplifier	250 100€ (R	2.0 Ray Control	Valte = 45	O.9	For O Shadow, A	66,000 Approx. = 9:	1,500 23 Volts for 13	100		71.111	6ADSG, GT
6AD7G	ST-14	Tri. Pentade	-	Cathode		0.85	-	_		1zīAmp.		Ray Control		Approx. F	For O Shadow; A	Approx. = \$6	0 Volts for 13	35 Shadow.)			6AD6G
							- 111		****	Pent Amp	250	25.0 1 6.5	250	4.0 34.0	6.5	19,0000	2,500	6	7,000	3,200	6AD7G
6AE5GT 6AE6G	GT ST-1Ω	Triode	and the second second	Cathode	6.3	0.30		1111		Amplifier	95	1.5	111111	7,0		3,500	1,200	4.9		-	6AE5G1
QAEOU	21-13	Duo Plate Triode	PAD	Cathode	6.3	0.15	-14	1000		Remote Cut-Off Sharp	1 250 1 250 1 250	1.5 35.0 1.5	1320	6.5 0.01 4.5		3,500	1,000 950	25 33	4.000	100,000	6AE6G
A CREEK	CY		-				-	-		Cut-Off	1 250	9.5	111111111111111111111111111111111111111	0.01		3,300	750	33	Y 201412	111111	
6AE7GT	GT	Duotriode	7-AX	Cathode	6.3	0.50	#2.5	3.0	1.8	Amplifier	250 (Delver for Bias Devi	13.5 or P.P. 6AC5 veloped in C	GT 250 V	10.0 /. 10 Ma., 6	6AC5GT Plate A	4,650 Ma 64 Oi	3,000 Julput 9.5 Wat	14 its with 10,000	0 Ohms Loar	d,	6AE7G1
6AF5G	ST-12	Triode	6-0	Cathode	6.3	0.30			12.00	Amplifier		18.0		7.0	T	4,900	1,500	7.4	Trees 1		6AF5G
6AF6G	1-9	Twin Elec.		Cathode		0.15				Indicator	The second second	the second second	Volt = Ap	- I mileston	or O' Shadow, A				14441		6AF6G
1101		Ray	- 000						-		1359 (Ra		Volts Apr	pprox 81 fo	or O' Shadow, A	Approx. Zero	Volts for 100				
6AG5	Miniature	Pentode	7-80	Cathode	6.3	0.30	0.25m	6,1	2.3	R-F Amb.	100 125 250		100 125 150	5.5 7.2 7.0	1.6 9.1 2.0	300,000 ¢ 500,000 ¢ 800,000 ¢	4,750 5,100 5,000	Cathode Bias	s Resistor - 1	00 Ohms	oA5G
6AG7	Metal	Pentode		Cathode		0.65	.06m	13.0	7.5	Amplifier	300	1 0.5	300	25.0	THE RESERVE AND ADDRESS OF THE PARTY OF THE	100,000	7.700			1-1-	5AG1
6AH7GT	GT	Duotriode		Cathode		0.30			-	Amplifier			as Type 19A	AH7GT.							SAH7GT
6AH5G	ST-16	Beam Amp.		The second secon		0.9			1100	Amplifier	350	18	250	54	2.5	33,000	5,200	10.10.00		10,800	5AH5G
6AK5	Miniature	Pentade	7-BD	Cathode	6.3	0.175	.01	3,9	9.85	R-F Amp.	120 150 180	1+	190 140 190	7.5 7.0 7.7	2.5 2.2 2.4	340,000 420,000 690,000	4,300	1,700 1,800 3,500	Blas Res. 9 Blas Res. 3 Blas Res. 2	330 ohms	5AK5
6AL5	Miniature	Duodiode	6-BT	Cathode	6.3	0.30		E-	450	Detector	150	I From I	1	9.0	High Perveand						6AL5
6AL6G	ST-16	Beam Amp.			6.3	0.9		4575	1000	Power Amp		ristics Same	as Type 6L6		-			7			6AL6G
6AQ6	Miniature	Duadlade-Tri	7-BT	Cathode	6.3	0.15	1.8	1.7	1.5	Det. Amp.	100	1,0	1111	8.0	I meren il	61,000	1,150	70	11111		6AO6
6B4G	\$7-16	Triode	5-5	Filament	6.3	1.00	16.0	7.0	5.0	Power Amp	250 Character	3.0 inistics Same	as Type 6A3	1.0	1000	58.000	1,200	70	1		6B4G

Type		Construction			Emitter			ote (*) (pacitant in #µf.		Use	Plate	Negative Grid	Screen	Plate Current	Screen Current	Plate Resistance	Micromhos Mutual	Ampli- fication	Ohms Load for Stated	Undis- torted Power Output	Type
	Style	Class	Basing Diag.	Type	Volts	Amps	Csp	Cin.	Cout.		Volts	Volts	Volts	Ma.	Ma,	Ohms	Conduct-	Factor	Power	Milli- watts	
685	ST-14	Duotriode	6-A5	Cathode	6.3	0.80				Power Amp.	Characta	ristics Same	as Type 6N	16G.					-		6B5
686G	ST-12	Duodiode-Tri.	7.V	Cathode	6.3	0.30	1.7	1.7	3.8	Det. Amp.	250	2.0	_	0.9		₹1,000	1,100	100			6B6G
6B7	67.40	Duodi. Pent.	7.D	Cathode	6.3	0.30	.007	3.5≉	9.5*	R-F or I-F	100	3.0	100	5.8	1.7	300,000	950		SDL		6B7
687S	ST-12									Del. Amp.	180	3.0	75.0 100	3.4 6.0	0.9 1.5	1 Meg. 800,000	1,000		7770	7744	6875
			-	7.7.	-				-	A-F Amp	250	4.5	50.0	0.65	-		1-11-11-11	LINK III	13 1117	HEXE	770
688	Metal	Duodi. Pent.	8-E	Cathode	-	0.30	.005m	3.6	9.0	Del. Amp.	_			7, Except Ca	Dacitances						688GT, 688G
6B8GT 6B8G	GT,ST-12 Miniature	Duodi. Pent.	8-E	Cathode	6.3		,01 m 1.4	1.8	2.5	R-F Osc.	300	27	as Type 6B	25				1	Class C	5,500	604
00.4	Militatore	IIIDQe	0.00	Catilidae	0.5	0.13		1.0	2.3	R-F Amp.	250	8.5		10.5		7,720	2,200	17	(1032 C	3,300	
7.50	- n.d4-1	Total.	6-C)	Cathode	-4.2	0.30	0.0	3.0	11.0	A == 116	100	0	Y 4C	11.8	Capacitances	6,250	3,100	19.5		17777	5C5
6C5 6C5GT	Metal GT	Triode	6-Q	Cathode	6.3	0.30		4.8	12.0	Amplifier	250	B.O	as tabs or	8.0	Capacitances	10,000	2,000	20	1.00		6C5GT
606	51-12	Pentode	6-F	Cathode	-	0.30	.007 m		6.5*	Amplifier	100	3.0	100	2.0	0.5	1 Meg.	1,185	-	Direct	12500	606
			-	-		-					250	3.0	100	2.0	0.5	1 Meg. +	1,225		Diffe	111111	100
6C7	ST-12	Duodiode-Tri	7-G	Cathode	6.3	0.30	D 4	n.4	-0.0	Det. Amp.	250	9.0		4.5	_	16,000	1,250	36	100000	tion)	6C7 6C8G
6C8G	ST-12	Duotriode	8-G	Cathode	0,3	0.30	1.8	₹.6 1.3	2.0	Amplifier	250 250	4.5 3.0	Plate Load	3.9 100,000 O	hms, Self-Bias	22,500 Resistor 1,50	1,600 10 Ohms, Volt		(One Sec	tion)	0000
	-														for Inverter			14.6.0			404
6D4	Miniature	Gas Triode	5-A)			0.25	- 007-	4.75	4.89	Relay Tube	350	50			management is the	The second second second	t = 25 Me. Ap	prox. Volt D	rop @ 25 M	a = 16V	6D4 6D6
6 D6	ST-12	Pentode	6-F	Cathode	6.3	0.30	,007 m	4.7	6.5*	Amplifier	100	3.0	100	8.0 8.2	2.2	800,000	1,500				000
6D7	ST-12	Pentode	7-H	Cathode	6.3	0,30	200		4-11	Amplifier	Characte	ristics Same	as Type 6C	6.							607
6D8G	ST-19	Heptode	8-A	Cathode	6.3	0.15	0.2	8.0	11.0	Converter	135 250	3.0	67.5 100	1.5	1.7 2.6	400,000	325▲	(G2 -135) (G2 -250	V., 1.8 Ma.	()	6D8G
ôE5	7-9	Electron Ray	6-R	Cathode	6.3	0.30	-	-	111	Indicator	100%	(Series Pia	le Resistor C	.5 Meg. Tar	get Current 1.	0 Ma. Grid E	Bias = 3.3 for 9	O Shadow.)	V. L., 4.5 P	14./	6E5
454	ST-14	Duotriode	7.8	Cathoda	6.3	0.60				Power Amp	180	Series Pla 20.0	ate Resistor 1	1.0 Meg. Tar 11.5	gel Current 4	.0 Ma. Grid I	1.400 for 9	6.0	15,000	750	6E6
6 E6	21-14	Ducillode	1.8	Camous	0.3	0.00	14.1	111	111	(1 Section)	250	27.5		18.0		3,500	1.700	6.0		1,600	
6E7	\$1-12	Pentode	7-H	Cathode	-	0.30				Amplifier			as Type 6D								6E7
6F5	Metal	Triode	3 M	Cathode	6.3	0.30		5.5	4.0	Amplifier			as Type 6F			44.000	1 4 500	4.00	_		6F5GT
6F\$GT	Metal	Triode	5-M 7-S	Cathode	6.3	0.30	2.8*	2.2*	3.2*	Amplifier Power Amp	250	16.5	250	34.0	6.5	80,000	2,500	100	7,000	3,900	6F6, 6F6G
6F6, 6F6G, 6F6GT	ST-14 GT	Pentode	1.3	Caunage	0.3	0.70				P.P. A1 Amp.	285 315	20.0 24.0 26.0	285 285 250	38.0 62.0 34.0	7.0 12.0 5.0	78.000 (Current &	2,550 Output for Two Output for Two		7,000 10,000*	4,800 11,000 18,000	6F6GI
6F7, 6F7S	5T-12	PentTriode	7.E	Cathode	6.3	0.30	.008m	3.2	19.5	P.P. AB2Amp Pent. Amp.	100	3.0	100	6.3	1.6	290.000	1,050	0 14061)	Pentode S		6F7, 6F75
OFF, OFFS	31-12	T WING. THOUSE	,	Cathoat	0.0					Pent. Amp.	250	3.0	100	6.5	1.5	850,000	1,100	8.5	Pentade S	Section	
4500	ST-12	Duotriode	8-G	Calhode	ģ.3	0,60	2.0*	3.2*	3.0° 1.0°	Amplifier	250	8.0	-	9.0	-	7,700	2.600	20	(One Sec		6F8G
6F8G	31.12	Daguiode	6.0	Carnode	Q. 3	0,00	3.2*	1.9*	1.9*	Inverter	250	5.5		d 50,000 O	hms Per Plate tput Volts 65	, Sell Bias Re	sistor 1,150 O		(One see		
6G6G	\$1-12	Pentode	7-S	Cathode	6.3	0.15		11111	1.1	Power Amp.	135 180	6.0 9.0	180	11.5 15.0	2.0	170,000	2,100	Table to	12,000	1,100	6G6G
6H4GT	GI	Diode	S-AF	Cathode	6.3	0.15				Rectifies	100	- 7.0	160	4.0	2.3	173,000	2,300		10,000	1,100	6H4GT
6H6	Metal	Duodiode	7-0	Cathode	6.3	0.30		14		Rectifier		ristics Same	as Type 6H	-							6H6GI
6H6GT	Gī	Duodlode	7-0	Cathode	6.3	0.30		100		Rectifier					ulput Current						615
6.15	Metal	Triode	6-0	Cathode	6.3	0.30		3.4	3.6	Amplifier			as Type 6J!		Capacitances		0.400				6J5GT 6J6
6J5GT	GI	Triode	6-Q 7-BF	Cathode	6.3	0.30		2.3	1.6	Amplifier R-F Amp.	100	8.0		9.0		7,700	2,600 5,300	30	Bias Res. S	50 Ohms	0.00
616	Miniature	Duotriode	1-01	Cathode	6.3		1.4	2.3	1.0	Osc. Amp.	150	10		30			lass C Operatio		DIES NES.	3,500	6J7
6J7	Metal	Pentode	7-R	Cathode	6.3	0.30	.005m	and the same of th	12.0	Amplifier	- MONOROW -		as Type 6J		Capacitances						6J7GT
6J7GT	ST-12, GT	Pentode	7-R	Cathode	6.3	0.30	.007m	_	12.0	Amplifier	250	3.0	100	2.0		1.U Meg	1,225	10 11 (1)		440.4	6)8G
618G	ST-12	TriHeptode	8-H	Cathode	6.3	0.30	.02m	4,4	10.0	Oscillator		e Supply Ti	100 hru 20,000 R		g.g sistor 50,000.		990▲ 0.4 Ma. Plate			ection)	6H6
6K5G	ST-12 GT	Triode	5-U	Cathode	6.3	0.30	2.0	2.9	5.75	Amplifier	100 250	1.5		0.35	1 11/44	78,000 50,000	1,400	70	24484	11101	6K5G 6K5GT
6K5GT	GT	Pentode	7-5	Cathode	6.3	0.40	2.0	A.7	1111	Power Amp.	100 250	7.0 18.0	100 950	9.0 32.0	1.6	104,000	1,500	E OF	12,000	350 3,400	6K6GT
445	N. d. ed ed	- Destant	7.0	Cathode	4.7	0.30	005-	7.0	10 0	Amplifler	315 Character	21.0	250	25.5	4.0 Capacitances	75,000	2,100		9,000	4,500	6K7
6K7	Metal	Pentode	7-R		_	0.30	.003m	_		Amplifier	90	3.0	90.0	5.4		300,000	1,275				6K7G
6K7G	ST-12	Pentode	7-R	Cathode	0.3	0.30	.00/m	3.U	12.0	Ampliher	180 250	3.0 3.0	75.0 100	4.0 7.0	1.0 1.7	1 Meg. 800,000	1,100				
6K7GT	GT	Pentode	7-R	Cethode	6.3	0.30	.005 m	4.6	12.0	Amplifier	Character	istics Same	as Type 6K	7G, Except C	apacitances.						6K7GT
6K8	Metal	Tri -Hexode	8-K	Cathode	6.3	0.30	.03m	6.6	3.5	Mixer Osc.	Character	istics Same	as Type 6KI	BG, Except (Capacitances.						6KB

m maximum.

**Plate and Target Supply Voltage.

**Applied through 250,000 ohms.

**Per Tube or Section—No Signal.

**Applied through 200,000 ohms.

**Triode Operation.

**Triode

△Conversion Conductance. | 50 Volts RMS applied to two gride.

⁽¹⁾ Values are given shielded unless marked with (*).
(2) Convertet tube capacilances given are signal grid to plate;
RF Input, Mixer Output.

The Real Property lies, the Party lies, the Pa	Name and Address of the Owner, where			-				. (1)	- 00	The same of the same of			-	-	100		1	1	Ohms	Undis-	
Type		Construction		1	mitter			ote (1) (pacitano inuµl.		Use	Plate	Negative Grid	Screen	Plate Current	Scieen	Plate Resistance	Micromhos	fication	Load for Stated	Power Output	Туре
	Style	Class	Basing Diag.	Type	Valts	Amos	Cgp.	Cin.	Cout.		Volts	Volts	Volts	Ma.	Ma.	Ohms	Conduct-	Factor	Power	Milli- watts	
6K8G 6K8GT	\$T-12 GT	TriHexode	8-K	Cathode	6.3	0.30	.OBm	4.6 5.0	4.8	Mixer	250 100	3.0 Grid Re	100 sider 50 000	2.5 O Plate Curren	6.0 t 3.8 Ma., h	600,000 Autual Conduct	350± tance 3,000 ((Hexode Section	ion) not Oscilla	eting)	6K8GT
6L5G	ST-12	Triode	6.0	Cathode	6.3	0.15		2.8	5.0	Amplifier	100	3.0	17114	4.0	THE PARTY OF	10,000	1,500	15	Thor		6L5G
6L6 6L6G 6L6GA	Metal ST-16 ST-14	Beam Amp	7-AC	Cathode	6.3	0.90	100.00	1007	1111	Power Amp. P.P. A 1 Amp. P.P. AB1 Amp. P.P. AB2 Amp.	250 350 270	14.0 18.0 17.5 99.5	250 250 250 250 270 270	72.0 54.0 134.0 88.0 88.0	5.0 2.5 11.0 5.0 5.0	22,500 33,000 23,500 Current & O	6,000 5,200 5,700 Sutput for Two	Tubes	2,500 4,200 5,000 6,600 3,800	6,500 10,800 17,500 26,500 47,000	6L6 6L6G 6L6GA
6L7	Metal	Heptode	7-T	Cathode	6.3	0.30	.001 m	7.5	11.0	Mixer	Characte	eristics Same	e as Type 61	L7G, Except (Capacilances						6L7 6L7G
6L7G	ST-12	Heptode	7-T	Cathode	6.3	0.30	,005m	6.0	10.0	Amplifier Mixer-Amp.	250 250	6.0 3.0	150	3.3 5.3	9.2 6.5	1 Meg	350▲ 1,100	(G3 = Neg (G3 = Neg	3.0 Volts)	
6N6G	ST-14	Duotriode	7-AU	Cathode	6.3	0.80	414(1)		1000	Power Amp.	300	0.0	(Input Sect		8.0 45.0	24,000♦	2,400	58	7,000	4,000	6N6G
6N7	Metal	Duotriode	8-B	Cathode		0.80		-		Amplifier	- Contract of	THE RESERVE THE PERSON NAMED IN	e as Type 61						0.0001	10.000	6N7
6N7GT	GT	Duotriode	8-8	Cathode	6.3	0.80				Power Amp. Driver Driver	300 250 294	0.0 5.0 6.0		17.5 Per 6.0 7.0	Plate, Class	11,300 11,000	3,100 3,200	35 35	(Class A	10,000 Driver) Driver)	6N7GT
6P5GT	GT	Triode	6-Q	Cathode	6.3	0.30	2.6	3.4	5.5	Amplifier Detector	250 250	13.5	111444	5.0	ent to be adia	9,500 usted to 0.2 M	1,450	13.8		200	6P5GI
6P7G	ST-1 2	PentTriode	7-U	Cathode	6.3	0.30	.007m 9.0	2.8	12.0	Amplifier			e as Type of	7, Except Car							6P7G
6Q7	Metal	Duodiode-Trl.	7-V	Cathode	6.3	0.30		5.0	3.8	DetAmp.	Characte	eristics Same	e as Type 60	37G, Except	Capacitances						607
6Q7G	ST-12	Duodiode-Trì.	7-V	Cathode	6.3	and the same of	1.5	3.2	5.0	Del-Amp.	100	1.5 3.0		0.35		58,000	1,200	70			6Q7G 6Q7GT
607GT 6R6G	ST-12	Duodiode-Tri.	7-V	Cathode	1	0.30		2.2 4.5*	5.0 11.0°	Amplifier	250	3.0	100	7.0	1.7	800,000	1,450	1,160	*****	111711	6R6G
6R7	Metal	Pentode Duodiode-Tri.	7.V	Cathode	6.3	0.30		4.3	3.8	DetAmp.				R7GT, Except	-						6R7
6R7GT	GT	Duodiode-Tri	7.V	Cathode	-	0.30	-	2.6	5.2	DetAmp.	250	9.0		9.5		8,500	1,900	16			6R7GT G
6\$7	Metal	Pentode	7-R	Cathode	6.3	0.15	.005m		10.5	Amplifier	Characte	eristics Same	e as Type 65	STG, Except C	Capacitances.						6\$7
657G	ST-12	Penlode	7-R	Cathode	6.3	0.15	.008m		8.0	Ampilfier	1 35 250	3.0	67.5	3.7 8.5	0.9	1 Meg. 1 Meg.	1,250 1,750	375 1,100			6\$7G
6\$A7	Metal	Heptode	E-R	Cathode	63	0.30	.13m	9.5	12.0	Converter				ATGT, Exce	and the same of						65A7
6SA7GT	GI	Heptode		Cathode		0.30	.5m	11.0	11.0	Converter	100	2.0	100	3.3	8.5	500,000+	475▲	- COCCUTOR		60030	6SA7GT
100-				-			*100			A 116	250	2.0	100	3.5	8.5	1.0 Meg. 5	450▲	70	(Each T	eloda)	6SC7
6SC7	Metal	Duotriode	8-5	Cathode			2.0	2.2	3.0	Amplifier	250	2.0		9.0		53,000	1,325	70	(Each T		6SC7GT
65C7G1	GT	Duotriode	8-5	Cathode	model of the	0.30			7.1	Amplifier	250	2.0	100	5.7	2.0	250,000	3.350		- (2001)	110007	65D7GT
6SD7GT	GT	Pentode	8-N	Cathode	6.3	0.30	.0035	9.0	7,5	Amplifier	100 250	2.0 2.0	100	6,0	1.9	1.0 Meg. #	3,600	11000000			
6SE7GT	GT	Pentode	8-N	Cathode	6.3	0.3	.0035m	6.0	7.5	Amplifer	100 250	1.0 1.5	100 100	5.5 4.5	2.4 1.5	250,000 ¢ 1,000,000 ¢	3,100 3,400	0.00%	1771		6SE7GT
6SF5	Metal	Triode	6-AB	Cathode	6.3	0.30	2.4	4.0	3.6	Amplifier		ristics Samo	e as Type 69	F5GI, Excep	t Capacitance						6SF5
6SF5GT	GT	Trìode	6-AB	Cathode	6.3	0.30	2.6	4.2	3.8	Amplifier	250	2.0		0.9		66,000	1,500	1 00	111111		6SF5GI 6SF7
6SF7	Metal	Diode Pent	7-AZ	Cathode	6.3	0.30	.004m	5.5	6.0	DetAmp.	100 250	1.0	100	12	3.4	200,000¢ 700,000¢	1,975 2,050				0377
6SG7	Metal	Pentode	8-BK	Cathode	6.3	0.30	.003m	8.5	7.0	R-F Amp.	-	ristics Same	e as Type 65	G7GT, Exces	pt Capacitane	es.					65G7
65G7GT	GT	Pentode	8-BK	Cathode		0.30	.004m	8.5	7.0	R-F Amp.	100 250	1.0	100 125	8.2 11.8 9.2	3.9 4.4 3.4	250,000 ♦ 900,000 ♦ 1 Meg	4,100 4,700 4,000				6SG7GT
6SH7	Metal	Dontada	n DV	Called	- ()	0.20	- 002-	0.5	7.0	R-F Amp.	250	2.5 eristics Samo	150	H7GT, Excep		-	4,000				6SH7
6SH7GT	GT	Pentode Pentode	8-BK	Cathode	6.3	0.30	.003m	8.5 8.5	7.0	R-F Amp.	100	1.0	100	5.3	2.1	350,000♦	4,000				5SH7GT
4012								-		A 116	250	1.0	150	10.8	4.1	900,000	4,900				6SJ7
6SJ7GT	Metal	Pentode	8-N	Cathode		0.30	.005m	6.3	7.0	Amplifier Amplifier	100	3.0	100	2.9 3.0	0.9 0.8	700,000 a 1.5 Meg.	1,575				6SJ7GT
6SK7	Metal	Pantada	0.11	Cabada	75	0.30	000	40	3.0	Amplifier	250	3.0		K7GT, Excep			1,030				6SK7
69K7G1	GT	Pentode Pentode	8-M	Cathode	6.3	0.30	.003m		7.0	Amplifier	100	1.0 3.0	100	13.0	4.0 2.6	120,000	2,350 2,000				6SK7GI
6SL7GT	GT	Duotriode	0.00	Cathode	4.2	.300	-	-	-	Amplifier:	250	2.0	- 100	2.3	2.0	44,000	1,600	70			SSL7GT
65N7GT	GI	Duotriode	8-BD	Cathode		1-	3.8*	2.8*	0.8*	Amplifier	90	0	-	10		5,700	3,000	80			65N7GT
-				2011006	0,3		4.0*	3.0*	1.2*	(per unit)	250	8		9		7,700	2,600	20			4507
6SQ7	Metal	Duodiode-Tri.		Cathode		0.30		3.2	3.0	DetAmp			e as Type 6S	OTGT, Excel	pt Capacitano		1 100	100			65Q7 65Q7GT
6SQ7GT	GT	Duodiede-Tri.		Cathode		0.30		4.2	3.4	DetAmp.	250	2.0		0.9		91,000	1,100	100			6SR7
65R7	Metal	Duodlode-Tzi.		Cathode		0.30		3.0	3.0	Det -Amp.			e as Type 6S			8,500	1,900	16			6SR7GT
6SR7G1	GT	Duodiode-Trl.		Cathode		C.30		3.5	3.8	DelAmp.	250	9.0	100	9.5	2.1	120,000	1,950	10			6\$\$7
6557	Metal	Pentode	8-N	Cathode	-		.004m		7.0	R-F Amp.	100 250	1.0	100	9.0	3.1 2.0	1,000,0004	1,850	14.0			
6ST7	Metal	Duodiode-iri.		Cathode		0.15	1.5	9.8	3.0	DetAmp.	250	9.0		9.5		8,500	1,900	16.0	Illumin et		6517 6T5
675	ST-12	Electron Ray		Cathode		0.3				Indicator	250		ate Resistor 1		get Current 3.		680	for Max. Target	: III WITH I THE		6176
617G	ST-12	Duodiode-Tri.	7.٧	Cathode	6.3	0.15	1.7	1.8	3.1	DetAmp.	100	1.5 3.0		0.3 1.2		95,000 62,000	1,050	65		14.00	

Type		Construction			Emitter		Cap	lote (1) (spacitanc in µµf.	ices	Use	Plate	Negative Grid	Screen	Plate Current	Screen Current	Plate Resistance	Micromhos Mutual	Ampli- fication	Ohms Load for Stated	Undis- torted Power Output	Type
	Style	Class	Basing Diag	Type	Volts	Amps	s Cgp.	Cin.	Cout		Volts	Volts	Volts	Ma.	Ma.	Ohms	Conduct-	Factor	Power Output	Milli- walts	1464
6U5 6G5	T-9	Electron Ray	6-R	Cathode	6.3	0.30		1100	= h h	Indicator	100:	(Series P	late Resistor	0.5 Meg., T	larget Current	1.0 Ma., Grid	d Bias -8.0 for	O Shadow.)	1		6U5/6G5
6U6GT	GT	Beam Amp.	7-AC	Cathode	6,3	0.75		+4-6	200	Power Amp.	110	10.5	110	44.0 55.0	4.0 3.0	10,0004	5,600	10 3	2,000	2,000 5,500	6U6GT
6U7G	ST-1 2	Pentode	7-R	Cathode	6.3	0.30	.007m	5.0	9.0	Amplifier	100	3.0	100	8.0	2.2	250,000	1,500		5,855	3,300	6U7G
6V6	Metal	Beam Amp	7-AC	Cathode	6.3	0.45	0.3	10.0	11.0	Power Amp.			A COMPANY OF A STREET	CS, Except Ca	and the second s	1 555,5	1 1122				6V6
6V6G1	GT	Beam Amp.	7-AC	to the second se	6.3	0.45	0.7*	9.5*	7.5*	Power Amp.	Character		le as Type 7C								6V6GT
6 V7 G	ST-12	Duodiode-Tri.	i. 7.V	Cathode	6.3	0.30	1.3	1.5	6.0	Det -Amp.	135 180 250	10.5 13.5 20.0	11111	3.7 6.0 8.0	10.00	11,000 8,500 7,500	750 975 1,100	8.3 8.3 8.3	25,000 20,000 20,000	75 160 350	6 V 7G
6W5G	ST-12	Duodiode	6-5	Cathode	6.3	0.9			1111	Rectifies	395 A-0	-C Volts Pe		IS, 90 Ma. O		t. Condenser in	Input to Filter.	6.3	20,000	330	6W5G
6W6GT	GI	Beam Amp	7-AC	Cathoda	6.3	1.25	1	1	1	Power Amp.	135	9.0	135	58.0	2.8	CHORE INPL.	9,000	215	2,000	3,300	6W6GT
6W7G	ST-17	Pentode	7.2	Cathode		0.15	.007m	5.0	8.5	Amplifier	250	3.0	100	2.0	0.5	1.5 Meg. ♦	and the same and		1	3,0-1	6W7G
6X5	Metal	Duodlode	6-5	Cathode		0.60		3000	-7.0	F-W Rect.	Characte	affair on a second tree	e as Type 6X	the second second							6X5
6X5G1	GT	Duodiode	6-\$	Cathode		0.60	1000	1000	9124	F-W Rect.	325 A-0 450 A-0	-C Volts Pe -C Volts Pe	er Plate, RMS er Plate, RMS	15, 70 Ma. O 15, 70 Ma. O	Dutput Current.	t. Condenser I d. Choke Input	ut to Filter.				6X5GT
673G	ST-12	Diode		Cathode		0.7	-			Rectifier							or Condenser Ing	put to Filter.			6Y3G
6Y5	ST-12	Ducdlode	6-J	Cathode		0.80			2010	F-W Rect					Dulput Current.						6Y5
676G	ST-14	Beam Amp.	7-AC	Cathode	6.3	1.25	2.6.4	31.11	1-	Power Amp.	135	13.5 14.0	135 135	\$8.0 61.0	3.5	9,300 18,300	7,000		2,000	3,600	676G
6Y7G	ST-12	Duotriode	8-8	Cathode	6.3	0.60	100	Tret	meth	Power Amp.	180	0.0	135	7.5	14111111	(Class B C	Operation)		7,000° 14,000°	5,500 8,000	6Y7G
625	ST-19	Duodlode	6-K	Cathode	6.3 12.6	0.80		1111	TPIN	F-W Rect.			I Plate, RM		Output Current		Distraction,		17,000	6,000	6Z5
6ZY5G	ST-12	Duadlade	6-\$	Cathode		0.30				F-W Rect.	325 A-	C Volts Pr	er Plate, RM	S. 40 Ma. C	Julput Current	1. Condenser in	input to Filter.		-		6ZY5G
6Z7G	ST-12	Duotriode	8-8	Cathode		0.30	1.07.17		1119 *	Power Amp.	135	0.0	- C	3.0 4.2		(Class B C	Operation) Operation)	Physic	9,0001 12,000°	2,500§ 4,200§	
7A4	Lack-in	Triode	5-AC	Cathode	6.3	0.30	4.0	3,4	3.0	Amplifier	90 250	0.0	1951	10.0	HOLDER TRIALS	6,700 7,700	3,000 2,600	20	1100	4,200,	7A4
7A5	Lock-in	Beam Amp	6-AA	Cathode	6.3	0.75	0.44	13,0	7.2	Power Amp.	110 125	7.5 9,0	110 125	40.0 44.0	3.0	14,000	5,800 6,000	THE P	2,500 2,700	1,500 2,200	7A5
7A6	Lock-in	Duodlode	7.AJ	I have been been been been been been been be		0.15	111	72.11	1111	DetRect.	150 A-0	C Volts Pe			ulpul Current P						7A6
7A7	Lock-in	Pentode	8-4	Cathode		0.30			7.0	Amplifier	100	1.0 3.0	100	13.0	4.0 2.6	120,000	2,000		Here		7A7
7 AF7	Lock-in	Duotilode	8-AC	Cathode	6.3	0.30	2.3	2.2	1.6	Amplifier Sper unit)	100 100 250	0 3.0 10	111111	10.8 5.0 9.0	7+16/14/ 7+11+17	6,500 8,400 7,600	2,600 1,900 2,100	17 16 16	11124 14-46	1+0 =	TAFT
7A8	Lock-in	Octobe	B-U	Cathode	6.3	0.15	0,15m	7.5	9.0	Converter	100	3.0	75 100	1.8	2.7	650,000 ¢	375▲	(G2 = 10)	00 V., 9.8 N	Aa.)	7A8
784	Lock-in	Triode	5-AC	Cathode	6,3	0,30	1.6	3.2	3.2	Amplifier	100	1.0	100	0.4	3.3	85,000 66,000	1,150	100	V.L., 4.2	Z Ma.)	7B4
7 8 5	Lock-in	Pentode	6-AE	Cathode	6.3	0.40	0.8	7.4	8.0	Power Amp.	1 00 250	7.0	100 250	9.0 32.0	1.6	104,000	1,500 2,300		12,000 7,600	3,400	7B 5
7B6	Lock-in	Duodiode-In.	8-W	Calhode	6.3	0.30	1.6	3.0	2.4	DetAmp.	100 250	1.0	250	0.4 0.9	4.0	75,000 110,000 91,000	900 1,100	100	9,000	4,500	786
7B7	Lock-in	Pentode	8-7	Cathoda	6.3	0.15	.007m	5.0	6.0	Amplifier	100	3.0	100	8,2 8.5	1.8	300,000 750,000	1,675	100		*****	7B7
7B8	Lock-in	Heptode	8-X	Cathode	6.3	0.30	0.2m	10.0	9.0	Converter	100	1.5	50	1.1	1.3	000,000	360▲	(G2 = 10 (G2 = 25	00 V., 9.0 M	Ma.) 0 Ma.)	7B8
7C4-1 203A	Lock-in	H. F. Diode	6-AH	Cathode	6.3	0.15	417.61	50.00		Detector					h Frequency Us			10	0 4,	TYIG.,	7C4-1203A
7C5	Lock-in			Cathode		0.45	0.40	9.5	9.0	Power Amp. Class A	180 250	8.5 12.5	180	29.0 45.0	3.0 4.5	58,000 52,000	3,700 4,100	100000	5,500 5,000	4,500	7C5
						1	1 1	(/	1 /	Class AB1	250	15.0	225 250	70.0	5.0		Two Tubes)	255555	10,000	10,000	
706	Lock-in	Duodiode-Tri.	8-W	Cathode	6,3	0.15	1.6	2.4	2.4	Det. Amp.	100	19.0 0.0 1.0	285	1.0	4.0	(Class AB1 1 100,000	850	85	8,000		7C6
7C7	Lock-in	Pentode	8-V	Cathode	6.3	0.15	.007m	5.5	6.5	Amplifier	250 100 250	3.0 3.0	100	1.8 2.0	0.4	100,000 1.9 Meg. •		100			7C7
7E5-1 201	Lock-in	Triode	8-8N	Cathode	6.3	0.15	1.5	3.6	2.8	Osc. Amp.	250 250 150	3.5 10.2	141111	13.0 16.0	0.5	Q.0 Meg. (1,300 for 750 mc Servi Amplifier for 30	vice.	13.10-7	200	7E5-1201
7E6	Lock-In	Duodlode-Tri.	8-W	Cathode	6.3	0.30	1.5	3.0	2.4	Det. Amp.	250	9.0		9.5	Tarana .	8,500 11,000	1,900 1,500	16 16.5			7E6
767	Lock-in	Duodi. Pent.	8-AE	Cathode	6.3	0.30	.005m	4.6	5.5	Det. Amp.	100	1.0	100	10.0	2.7 1.6	150,000 ¢	1,600	10000			7E7
			-					$\overline{}$			X 3 U	3.0	100	J.3	1.0	700,0004	1,300		10000	1111	

Values are given shielded unless marked with (*).
 Converter tube capacitances given are signal grid to plate;
 RF input; Mixer Output.

m maximum.

*Plate and Target Supply Voltage:

*Applied through 250,000 ohms:

*Par Tube or Section—No Signal.

*Triode Operation.

*Triode Operat

Туре		Construction			Emitter		Ces	ote (¹) (pacitano inµµf.		Use	Plate	Negative Grld	Screen	Plate Current	Screen Current	Plate Resistance	Micromhos Mutuai	Ampli- fication	Ohms Load for Stated	Undis- lorted Power Output	Type
	Style	Class	Basing Dias.	Type	Volts	Amps	Cop.	Cin.	Cout.		Volts	Volts	Volts	Ma.	Ma.	Ohms	Conduct-	Factor	Power	Milli- watts	1,754
7F7	Lock-in	Duotriode	8-AC	Cathode	6.3	0.30	1.6	2.4	2.0	Amplifier	100 250	1.0		0.65 2.3	+1++++	62,000¢ 44,000¢	1,125	70		*****	7F7
7F8	Lock-in	Duotriode	8-BW	Cathode	6.3	0.30	1.2	Z. B	1.4	R-F Amp	250	1111	13.143.1	10.5	21 (1117)	110000	5,200	50	Cathoda		7F8 or = 200Ohms
7G7/1232	Lock-in	Pentode	8-V	Cathode	6.3	0.45	.007m	9,0	7.0	Amplifier	250	2.0	100	6.0	2.0	800,0000	4,500	-30	(Casuade	DIAS RESISCO	7G7/1232
7G8/1906	Lock-in	Duotet:ode	8-BA	Cathode	and the second	-	0.15m	3.4	2.6	R-F Amp.	250	2.5	100	4.5	8.0	995,000	9,100				7G8/1206
7H7	Lock-in	Pentode	8-V	Cathode	6.3	0.30	.007m	8.0	7.0	Amplifier	100	1.0	100 150	10.0	3.3 3.2	250,000 800,000	4,800 4,200	(Cath. Bias R	lesistor = 18	Ohm)	7H7
717	Lock-in	TrlHeptode	8-BL	Cathode	6.3	0.30	.03m	4.6	7.5	Hep. Mixer Tri. Osc.	100 250 100 250	3.0 3.0 0.05 / 0.05 /		f .5 1 .4 3 .2 5 .0		500,000 1.5 Meg. Grid Current 0 Grid Current 0		15114-	1/A/A 4/A-4	*****	7,17
7K7	Lock-in	Duodiode-Tri.	8-BF	Cathode	6.3	0.30	1.8	2.6	3.0	Det. Amp.	250	2.0		2.3	4111111	44,000	1,600	70		*****	7K7
7L7	Lock-in	Pentode	8-V	Cathode	6.3	0.30	.01 0m	8.0	6.5	Amplifier	100	1.0	100	5.5 4.5	9.4 1.5	100,0000 1.0 Meg.	3,000 3,100		-11-1		7L7
7N7	Lock-in	Duotriode	8-AC	Cathode	6.3	0.60	3.0	3.4	9.0 9.4	Amplifier (per unit)	90 250	0.0	10000	10.0	361-117	6,700	3,000	90 90	11.444	XX-(W+	7N7
701	Lock-In	Heptode	8-AL	Cathode	6.3	0.30	0,20m	9.0	9.0	Converter	100	2.0	100	3.3	8.5	500,000	525A	Osc. Grid R			707
7R7	Lock-In	Duodi. Pent.	8-AE	Cathode	6.3	0.30	.004m	5.6	5,3	Del. Amp.	100 100 250	2.0 2.0 1.0 2.0	100 100 100 100	3.5 3.4 5.5 3.5	1.0 2.2 1.0	1.0 Meg. 500,0000 350,0000 1,800,0000	2,100 3,000 2,200	Osc. Grid C	urrent 0.5 A	Aa.	7R7
757	Lock-in	TriHeptode	8-BL	Cathode	6.3	0.30	.03m	5.0	8.0	Hep. Mixer	100	2.0	100	1.9	3.0	500,0004	3,400 500 4		2000		757
										Trl. Osc.	250	2.0	100	1.8	3.0	1 25 Meg. 6 Grid Current (525▲	-0.0		11	
17.	Last in	D 1-1	7.14	6.0.1	4.3		005	0.0	7.0		250 □	0.05 A	Meg.	3.0 5.0	(Triode	Grid Current O	.4 Ma.)	10.114.11			
717	Lock-in	Pentode	g.V	Cathode		0.3	.005m		7.0	Amplifier	250 100	10.8	150	10.8	4.1 2.1	900,000 ¢	4,900 4,000				717
7V7 7W7	Lock-in	Pentode	B-A	Cathode	6.3	0.45	.004m	-	6.5	Amplifier	300	- 1	150	10.0	3.9	300,000	5,800	(Cath. Bias R	esistor = 161	Ohms)	7 17
TX7/XXEM	Lock-in	Pentode Duodiode-Tri	8-87	Cathode	6.3	0.45	.0025m	9.5	7.0	Amplifier Det. Amp.	100	ristics Same	as Type 7V	7, Except Ca 1.2	pacitances.	85,000	1,000	85		10.10	7W7 7X7/XXFM
TY4	Lock-in	Duodiode	5-AB	Cathode	6.3	0.50		-	17.1-	F-W Rect.	250 325 A-	1.0 Volts Pe	Plate, RMS	1.9	Inul Current	67,000 Condenser In	1,500	1 00	p ==		774
124	Lock-In	Duodiade	5-AB	Cathode	6.3	0.90				F-W Rect.	450 A-	C Volts Pe	Plate, RMS	, 70 Ma. Ou	tput Current.	Choke Inpu!	to Filter.				7Z4
											450 A-	C Volts Pe	r Plate, RMS	, 100 Ma. C	Sutput Cument	. Choke Inpu	to Filter.				
10	ST-16	Triode	4-D	Filament	7.5	1.25	7.0*	4.0*	3.0*	Power Amp	250 350 425	23.5 32.0 40.0	000	10.0 16.0 18.0	00 00 00 00 00 00 00 00 00 00 00 00 00	6,000 5,150 5,000	1,330 1,550 1,600	8.0 8.0	13,000 11,000 10,200	400 900 1,600	10
12A	ST-14	Triode	4-D	Filament	5.0	0.25	8.5*	4.0™	2.0*	Det. Amp.	90 135 180	4.5 9.0		5.0 6.2 7.7		5,400 5,100	1,575	8.5 8.5	5,000	35 130	12A
12A5	ST-12	Pentode	7-F	Cathode	19.6	0.30	0.3	9.0	9.0	Power Amp	100	15.0	100	17.0	3.0	4,700 50,000+	1,800	8.5	4,500		12A5
12A6	Metal	Beam Amp.	7-AC	Cathode		0.15	1.1 1	-1		Power Amp.	250	12.5	190	30	3.5	70,000	3,000	110111	7,500	3,400	19A6
12A7	ST-12	Diode-Pent	7-K	Cathode	12.6	0.30		HI-	110	Rectifier Amplifier	195 RM 135		135	30.0 Mas 9.0	£.,		975	100	13,500		12A7
12A8GT	Gī	Heptode	8-A	Cathoda	12.6	0.15	.26	9.5	12.0	Converter			as Type 6A		2.5	102,000	9/3	100	13,200	_	12A8GT
19AH7GT	GT	Duotriode	8-BE	Cathode	12.6		3.D	2.8 3.2	2.6	Amplifier	100	3.6	2010	3.7		10,300	1,550	16		-	12AH7GT
12B8GT	GT	Pentode Tri.	8-T	Cathode	12.6	0.30	.015*	5.2* 5.0	9.6"	(per unit) Pent - Amp	100	3.0	100	7.6 8.0	2.0	170,000	2,100	360	Pentode S		1 2B8G7
12C8	Metal	Duodiode	8-E	Cathode	12.6	0.15	2.3 .005m	6.0	9.0	Det. Amp.	100 Character	1.0 Istics Same	as Type 686	0.6		73,000		110	Triode Sec		1208
12F5GT	- GT	Pentode Triode	5-M	Cathode	12.6	0.15	2.8*	2.2*	3.22	Amplifier	Character	ielias Cama	as Type 6F5	GT							12F5G [‡]
12H6	Metal	Duodiode		Cathode		0.15				Rectifier			as Type 6H								12H6
19J5GT	GI	Triode	-	Cathode		0.15	3.8	4.2	5.0	Amplifier	The state of the s		as Type 615								12J5GT
12J7G1	GT	Fentode	7-R	Cathode		0.15	,007m		12.0	Amplifier			as Type 617			_					12J7GT
12K7GT	GI	Pentode	7-R	Cathode		0.15	.007m	5.0	1 2.0	Amplifier			as Type 6K7								12K7GT
12KB	Metal	TriHexode	8-K	Cathode		0.15		6.6	3.5	Mixer Osc.			as Type 6K8								1 2KB
12K8GT	GT	TriHexade		Cathode		0.15	.009m		4.3	Converter	Character	istics Same	as Type 6K8	IGT.							19KBGT
19L8GT	GT	Duo. Pentode		Cathode		0.15		5.07	6.0*	Power Amp.	110 180	5.5 9.0	110 180	6.1 13.0	1.3 ± 2.8	990,000 = 160,000	1,680# 2,150 -		14,000	300 1,000	12L8GT
1207GT	GT	Duodiode-Tri.		Cathode		0.15		2.2	5.0	Det. Amp.	-		as Type 6Q								12Q7GT
125A7	Metal	Heptode		Cathode			,13m		19.0	Converter			as Type 654								12SA7
125A7GT 125C7	GT	Heptode		Cathode					11.0	Converter			as Type 654								125A7GT
12SF5	Metal	Duotrio de Trio de		Cathode		0.15		2.2	3.0	Amplifier			as Type 6SC								12SC7
12SF5GT	GI	Triode		Cethode		0.15		4.0	3.6	Amplifier Amplifier			as Type 6SF								1 2SF5 1 2SF5G7
		1	5 240	COMMONE	. 2.0	0.13		100	3,0	- Whilles	Cualactel	ianca game	as sking Ogs	201							1237301

Туре		Construction			Emitter		Ca	ote () (pacitant in uµl.		Use	Plate	egative Grid	Screen	Plate Current	Screen Current	Plate Resistance	Micromhos Mujual	Ampli- fication	Ohms Load for Stated	Undis- torted Power Output	[ype
	Style	Class	Basing Diag	Type	Vo!ts	Amps	Cgp.	Cin.	Cout.			Voits	Voits	Ma.	Ma.	Ohms	Conduct-	Factor	Output Output	Milli- watts	
12SF7	Metai	Diode Pent	17-AZ	Cathode	12.6	0.15	,004m	5.5	6.0	Det. Amp.	Characteristi	ics Same	as Type 6S	F7.							1 9SF7
12SG7	Meial	Pentode	B-BK	Cathode	12.6	0.15	.003m	8.5	7.0	R-F Amp.	Characteristi										12SG7
12SH7	Metal	Pentode	8-BK	Cathode	12.6	0.15	.003m	8.5	7.0	R-F Amp.	Characteristi	ics Same	as Type 65	H7.							12SH7
19SH7GT	Gī	Pentode	8-BK	Cathode	12.6	0.15	.004m	8.5	7.0	R-F Amp.	Characteristi	ics Same	as Type 6SI	H7GT							12SH7GT
19SJ7	Metal	Pentode	8-N	Cathode	12.6	0.15	,005 m	-	7.0	Amplifier	Characteristi	ics Same	as Type 6S.	J7.							1 2SJ 7
12S17GT	GT	Pentode	8-N	Cathoda	12.6	0.15	.005m	6.3	7.5	Amplifier	Characteristi	ics Same	as Type 6S.	J7, Except C	apacitances						t 2SJ7GT
19SK7	Mela	Pentode	8-N	Calhode		0.15	.003 m		7.0	Amplifier	Characteristi										12SK7
125K7G1	_Gſ	Pentode	8-N	Cathode		0.15	.005m	6.5	7.5	Amplifier	Characteristi	les Same i	as Type 6SI	K7GT.							12SK7GT
12SL7GT	Gī	Duotriode	8-BD	Cathode		0.15	1-11			Amplifier	Characteristi										1 2SL7GT
195N7GT	GI	Duotilode	8-80	Calhode		0.30				Amplifier	Characteristi									_	125N7GT
12SQ7 12SQ7GT	Metal	Duodiode-Trl.	8-Q	Cathode	-	0.15		3.2	3.0	Det. Amp.	Characteristi	Decision and the									195Q7 195Q7GT
1 2SR7	GT Mela	Duodiode-Iri.	8-Q	Cathode	State State of	0.15	Name and Address of the Owner, when the Owner, which the Owner, wh	4.2	3.4	Det Amp.	Characteristi								-	-	12\$Q7G1
12Z3	51-12	Duodiode-Tri.	4-6	Cathode		0.15	2.3	3.0	3.0	Det Amp. H-W Rect.	Characteristi	THE RESERVE TO A STATE OF THE PARTY OF THE P			dant Comen	Candania	Input to Filter				1923
14A4	Lock-in	Triode	5-AC	Cathode		0.15	4.0	3.4	3.0	Amplifier	Characteristi	-			Itput Current	CONDENSE	input to ritter				14A4
14A5	Lock-in	Beam Amp.	6-AA	Cathode		0.15		6.8	7.0	Power Amp.		19.5	250	30,0	3.5	70,0000	3,000	_	7,500	2,800	14A5
14A7 19B7	Lock-in	Pentode	8-V	Cathode		0.15	.005m	1-	7.0	Amplifier	Characteristi				3.3	10,000	3,000		1,500	0,000	14A7/19B7
14AF7 XXD	Lock-in	Duotriode	B-AC	Cathode	Antonno III	0.15		9.9	1.6	Amplifier	Characteristi										14AF7/XXD
1 486	Lock-in	Duodiode-Til.	8-W	Cathode		0.15		3.0	2.4	Det. Amp	Characteristi										1486
14B8	Lock-in	Heptode	8-X	Cathode	12.6	0.15	0.2m	10.0	9.0	Converter	Characteristi										1488
1 4C5	Lock-in	Beam Amp	6-AA	Cathode	12.6	0.225	Special Co.	9,5	9.0	Power Amp	Characteristic										14C5
1407	Lock-in	Pentode	8-V	Cathode	12.6	0.15	.007m	6.0	6.5	Amplifier	100	1.0	100	5.7	1.8	400,000 t	9,275 1,575	1227			1407
14E6	Lock-in	Duodlode-Tri.	B-W	Cathode	12.6	0.15	1.5	3.0	9.4	Det. Amp.	Characteristi										14E6
14E7	Lock-in	Duodi. Pent.	8-AE	Cathode	19.6	0.15	.005m	4.6	5.5	Det Amp.	Characteristi										14E7
14F7	Lock-in	Duotilode	B-AL	Cathode	12.6	0.15	1.6	2.4	2.0	Amplifler	Characteristi										14F7
14H7	Lock-in	Pentode	8-7	Cathode	12.6	0.15	.007m	8.0	7.0	Amplifier	Characteristi	les Same	as Type 7H	17.							14H7
1417	Lock-in	TriHeptode	8-BL	Cathode	12.6	0.15	0.03m	4.6	7.5	Mixer Osc.	Characteristi	ics Same	as Type 7J	7.							14J7
14N7	Lock-in	Duotriade	B-AC	Cathoda	12.6	0.30		See	7N7	Amplifier	Characteristi	ics Same a	as Type 7N	17.							14N7
1407	Lock-in	Heptode	8-AL	Cathode	12.6	0.15	0.2m	9.0	9.0	Conveiter	Characteristi	les Same	as Type 7C	27							1407
14R7	Lock-in	Duodi. Pent	8-AE	Cathode	-	0.15	.004m	-	5.3	Del. Amp.	Characteristi	ics Same	as Type 7R	7.							14R7
1457	Lock-in	Tri. Heptode	8-BL	Cathode		0.15	.03m	5.0	8,0	Mixer Osc.	Characteristi	ics Same	as Type 75	7.							1457
14W7	Lock-in	Pentode	8-BJ	Cathode		0.225	.0025m	9.5	7.0	Amplifier	AND DESCRIPTION OF THE PERSON NAMED IN			7, Except Ca							14W7
1474	Lock-in	Duodiode	5-A8	Cathode	12.6	0.30	ACT SO	4 + 1 1	1000	F-W Rect					utput Current. utput Current.		nput to Fister.				1474
15	5T-12	Pentode	5-F	Cathode	2.0	0.22	.01 m	2.4*	8.0*	R-F Amp.	67.5 135	1.5	67.5 67.5	1.85 1.85	0.3	000,008 000,008	71 0 750	450 600	Hen	4411	15
18	ST-14	Pentode	6-B	Cathode	14.0	0.30			712	Power Amp.	Characteristi	cs Same	as Type 6F	6G.							18
19	ST-19	Duotriode	6-0	Filament	2.0	0.96	711.11	- 11		Power Amp.	1 3 5 1 3 5	3.0	HILL	5.0 1.7	97117	(Class B (Operation) Operation)		10,000	2,100 1,900	19
20	T-8	Triode	4-D	Filament	3.3	0.132	1000		-	Power Amp.	90	16.5		9.8		7,800	Operation) 450	3.5	9,600	1,600	20
												22.5		6.0		5,850	600	3.5	6,500	130	
29	ST-14	Tetrode	4-K	Filament		0.139		-	10.0*	R-F Amp.	1 3 5	1.5	67.5	3.7	1.3	250,000	500	125			22
24A, 245	ST-14	Tetrode	5-E	Cathode	2.5	1.75	.007sn	5.3	10.5	R-F Amb.	180 250	3.0	90	4.0	1.7	400,000 600,000	1,000	400 630	1000		24A, 24S
-					-	-				Detector	250*		20 to 45		nt to be adius	sted to 0.1 M	anl on thiw a	ut Signal.)			
25 A 6	Metai	Pentode	7-S	Cathode	-	0.30		12	1211	Power Amp.	Characterist										25 A 6
25A6GT	Gĭ	Pentode	7-5	Calhode	25.0	0.30			7477	Power Amp,	135	15.0	95 135	20.0 37.0	4.0 8.0	45,000 35,000 42,000	2,000 2,450 2,375	10101111	4,500 4,000 5,000	900 2,000 2,200	25 A6G1
25 A 7GT	Gī	Diode Pent.	8-F	Cathode	25.0	0.30		-)-	1	H-W Rect	117 A-C V			33.0 75 Ma. Ou				1			25A7G1
25AC5GT	GT	Triode	6-0	Cathode	25.0	0.30		_		Power Amp.	110		100		4.0	50,000 15,200	1,800	58	4,500	770	25AC5GT
25B5	\$T-19	Duotriode	6-D	Cathode	0.00	0.30	-	_		Coupled Amp					nic Coupled	with 6AE5GT	Drivet		2,000	2,000	25B5
2586G	ST-14	Pentode	7-5	Cathode		0.30	-		-	Power Amp	Characteristi		105	48.0	9.0	15,500	4,800		1,700	2,400	2586G
20000	21/14	L SHIDGE	, -3	~ araind 6	23.0	0.30				ZOWER PAIND	200	16.0 23.0	135	62.0	1.9	18,000	5,000		2,500	7,100	10000
25B8GT	GT	PentTriode	8-1	Cathode	25.0	0.15	.02	5.5 5.0	10.0	Pent. Amp.	100	3.0	100	7.6 0.6	2.0	185,000	2,000 1,500	370 112.5	Pentode S		25B8G1
25C6G	ST-14	Beam Amp.	7-AC	Cathode	25.0	0.30	17500		1	Power Amp.	Characteristi		as Type 67								25C6G
25L6	Metal	Beam Amp.	7-AC	Cathode	25.0	D.30	0.3	16.0	13.5	Power Amp.	Characteristi										25L6
25L6GT	GT	Beam Amp	7-AC	Cathode	25.0	0.30			10.0*	Power Amp	110	7.5	110	49.0	4.0	13,000	9,000		2,000	2,100	25L6GT
40. 24-1-		4 .4. = 4	A 100 100		_		_) no	200	8.0	110	50.0	9.0	30,000	9,500	Pi .	3,000	4,300	Candustana

⁽¹⁾ Values are given shielded unless marked with (*).
(2) Converter tube capacilances given are signal grid to plate; RF Input; Mixer Output.

m maximum.

*Plate and Target Supply Voltage. *** With Average Power Input of 320 Mw. Grid to Grid.

*Applied Brough 250,000 ohms.

*Per Tube or Section—No Signal

*Applied through 200,000 ohms.

*Triode Operation.

**Triode Operation.

**Triode Operation.

**Triode Operation.

**Triode Operation.

**Applied through 200,000 ohms.

**Triode Operation.

**Applied through 200,000 ohms.

AConversion Conductance. 150 Volts RMS applied to two grids

Туре		Construction			Emitter			ote () pacitan in µµl.		Use	Plate	Negative Grid	e Screen	Plate Current	Screen Current	Plate Resistance	Micromho: Mutual	s Ampli- fication	Ohms Load for Stated	Undis- torted Power Output	Гуре
	Style	Cless	Basing Diag	Туре	Volts	Amps	Cgp.	Cin.	Cout.		Volts	Volts	Volts	Ma.	Ma	Ohms	Conduct-	Factor	Power Output	Milli- watts	
25N6G	ST-12	Duotriode	7-W	Cathode		0.30		Tes		Power Amp.	110 180	0	110 100	45 46	7.0 5.9	Direct Coupled	2,200 2,300		2,000 4,000	2,000 3,800	25N6G
2575	ST-1 9	Duodiode	6-E	Cathode	The same of the last	0.30			-	Rect. Doubles					Output Current	Per Plate.					2575
25Z5 25Zć	Metal	Duodiode	7-Q	Cathode		0.30				Doubler Rectifier	-	-	ne as Type 2 ne as Type 2							_	25Z5 25Z6
25Z6GT	GT	Duodiode	7-0	Cathode	Service No.	0.30				Doubler					Dutput Current	Per Plate.					25Z6GT
-	07.1		1.5	mil			ā			H-W Rect	235 A-	C Valts, F	RMS, 75 Ma	Output Cu	rrent Per Plate.				_		
26	ST-1 4	Triode	4-D	Filamen	1.5	1.05	8.1*	2.8*	2.5*	Amplifer	90 135 180	7.0 10.0 14.5		2.9 5.5 6.2		8,900 7,600 7,300	935 1,100 1,150	8.3 8.3	1001	010	26
26A7G1	GT	Duo. Beam Amplifler	8-BU	Cathode	26.5	0.6	1.2*	16.0*	13.0*	Power Amp.	26.5	4.5	26.5	20.0	2.0	2,500	5,500	OUR ARE	1,500	200	26A7GT
27, 27\$	ST-1 2	Triode	5-A	Cathode	2.5	1.75	3,3*	3.9*	2.3*	Amplifier Detector	90 135 180 250 250	6.0 9.0 13.5 21.0 30.0		3.0 4.7 5.0 5.9 (Plate Cur	rent to be adju	10,000 9,000 9,000 9,250 sted to 0.2 M	900 1,000 1,000 975 la with no In	9.0 9.0 9.0 9.0 put Signal.)	1770.4		27, 275
28D7	Lock-in	Duo Beam Amplifier	8-85	Cathode	0.89	0.40				Ampilifier (per section)	28	3.5	28	9.0	0.7	(Cathode Bi 4,200	es Resistor = 3 3,400	390 Ohms)	4,000 4,000	80 100	2907
98Z5	Lock-in	Double Diode	6-BJ	Cathode	28.0	0.94	-	-	_	P.P.A. Total F-W Rect.	325 A-	Volts Pe	28 er Plate, RM	64.0 S, 100 Ma.	4.0 Output Current Output Current	t. Condenser		- Parister	1500*	600	2875
30	ST-12	Triode	4-D	Filamen	2.0	0.06	6.0*	3.0*	2.1*	Det. Amp.	90 135	4.5 9.0	ET FIBEE, KIN	2.5 3.0	Outpar Curren	11,000	950 900	9.3 9.3	1777	-17/4	30
31	ST-1 2	Triode	4-D	Filamen	2.0	0.13				Power Amp	180 135 180	13.5 22.5 30.0	-	3.1 8.0 12.3		4,100 3,600	900 925 1,050	9.3 3.8 3.8	7,000 5,700	185 375	31
32	ST-14	Tetrode	4-K	Filamen	2.0	0.06	.01 5m	5.3*	10.5*	R-F Amp.	135 180	3.0	67.5 67.5	1.7	0.4	950,000 1.2 Mag.	640 650	610 780	3,700	3/3	39
39L7G1	GT	Diode-Beam Amplifier	8-Z	Cathode	32.5	0.30		100		Detector Rectifier	180 125 RM		110	60 40	rent to be adju				0.400		39L7G1
33	ST-14	Pentode	5-K	Filamen	9.0	0.96	1.0*	8.0*	12.0*	Power Amp.	110 135 180	7.5 13.5 18.0	135	14.5	3.0 3.0 5.0	15,000	6,000 1,450 1,700	81 70 90	7,000		33
34	ST-14	Pentode	4-M	Filamen	2.0	0.06	.015m	6.0*	11.0*	R-F Amp.	67.5 135 180	3.0 3.0 3.0	67.5 67.5 67.5	2.7 2.8 2.8	1.1 1.0 1.0	55,000 400,000 600,000	560 600 620	224 360 620	6,000	1,400	34
35/51, 355/515	ST-14	Tetrode	5-€	Cathode	2.5	1.75	.007m	5.3*	10.5*	R-F Amp.	180 250	3.0	90.0 90.0	6.3 6.5 0.5	2.5 2.5	1 Meg 300,000 400,000	1,020	305 420			35 51, 35S 51S
35A5	Lock-in	Beam Amp.	6-AA	Cathode	35.0	0.15				Power Amp	110 200	7.5 8.0	45 to 67.5 110 110	40.0	3.0	2 Meg. 14,000 ¢ 40,000 ¢	5,800		9,500 4,500	1,500	35A5
35L6GT	GT	Beam Amp.	7-AC	Cathode	35.0	0.15	0.8*	13.0*	9.5*	Power Amp.	110	7.5	110	40.0	3.0	14,000	5,800		9,500 4,500	1,500	35L6G1
3574	Lock-in	Diode	5-AL	Cathode	35.0	0.15	- Court	1,11		H-W Rect.	235 Ma	x. A-C V	olls, RMS,	60 Ma. Out	put Current wit	h Panel Lamp		1	4,300	3,300	3574
35Z3	Lock-in	Diode	4-Z	Cathode	35.0	0.15			23.14	H-W Rect.	235 Ma		35Z3								
35Z4GT	GT	Diode	5-AA			0.15				H-W Rect.		and the second of		man and a professional section	urrent, Conder	ser Input to F	ilter.				35Z4GT
35Z5G1	GT	Diode	7-Q	Cathode		0.15	-			H-W Rect.				0Z5 45Z5G	Output Current			_			35Z5G1
35Z6G	ST-14	Duodiode	11-0	Cathode	33.0	0.30			1 -0 -0 10	Doubler H-W Rect.	the second leaves to				Output Current		-			-	35Z6G
30	ST-12	Tetrode	5-E	Cathode	6.3	0.30	.007m	3.7*	9.2*	R-F Amp.	1 35 1 80 250	1.5 3.0 3.0	67.5 90.0 90.0	2.8 3.1 3.2	Not Over	575,000 500,000 550,000	1,000 1,050 1,080	475 525 595	1 THE P. LEWIS CO.	18-14 (+7-6) 11164	36
37	ST-1 2	Triode	5-A	Cathode	6.3	0.30	2.0≠	3.5*	2.9*	Detector	250 135 180	9.0 13.5	20 to 25 (Plate Current 4.1 4.3	to be adjusted	10,000 10,200	925 900	9.9 9.9	11111		37
38	ST-12	Pentode	5-F	Cathode	6.3	0.30	0.3*	3.5*	7.5*	Power Amp.	250 135 180	18.0 13.5 18.0	135	7.5 9.0 14.0	1.5	8,400 130,000 110,000	1,100 925 1,050	9.9 190 190	13,500 11,600		38
39 44	ST-1 2	Pentode	5-F	Cathode	6.3	0.30	.007m	3.51	10.0*	R-F Amp.	90 180	25.0 3.0 3.0	90.0 90.0	99.0 5.6 5.8	3.8 1.6 1.4	100,000 375,000 750,000	1,200 960 1,000	1 20 360 750	10,000	2,500	39/44
										A-F Amp.	250 250	3.0 1.0	90.0 67.5	5.B 0.5	1.4	1 Meg. 2 Meg.	1,050	1,050			
40	ST-14	Triode	4-D	Filament		0.25	8.0	2.8	2.2	Amplifier	135 180	1.5	2000	0.9	Service	150,000 150,000	200 200	30 30			40
4025/45Z5GT	GT	Diode	6-AD	Cathode	45.0	0.15	1000	11111		H-W Rect.	117 A-C	Volts, R	MS, 100 M	a. Output Ci	urrent without F	Panel Lamp Co	onnected, or i	60 Ma. with P	anel Lamp.		40Z5/45Z5G1
41	ST-12	Pentode	6-B	Cathode	6.3	0.40				Power Amp	Character	istics Sam	e as Type 61	K6GT.							41
49	ST-14	Pentode	6-B	Cathode	6.3	0.65	- 11111	44.12	1144	Power Amp.	Character	ristics Sam	e as Type 61	F6G.							49
43	ST-14	Pentode	6-B	Cathode		0.30				Power Amp.			e as Type 2							-	43
															-			-			

Туре		Construction			Emitter		Ca	ote (') (pacitano in uµf.		Use	Plate	Negativ Grid	Screen	Plate Cyrrent	Screen	Plate Resistance	Micromhos Mutual	Ampli- fication	Ohms Load for Stated Power	Undis- torted Power Output Milli-	Type
	Style	Class	Basing Diag.	Type	Volts	Amps	Cgp.	Cin.	Cout.		Volts	Volts	Volts	Ma.	Ma	Ohms	Conduct-	Factor	Output	watts	
45	ST-14	Triode	4-D	Filament	2.5	1.50	7.0*	4.0*	3.0*	Power Amp	180 250 275	31.5 50.0 56.0		31.0 34.0 36.0		1,650 1,610 1,700	2,125 2,175 2,050	3.5 3.5 3.5	9,700 3,900 4,600	1,600 2,000	45
45Z3	Miniature	Diode	E ANA	Cathode	45.0	0.075	-	-	-	H-W Rect.			Per Plate, RMS		utput Current	1,700	2,000	3.3	1,000	2,000	45Z3
46	ST-16	Dual Grid	5-C	Filament	14-	1.75	-1919		_	Power Amp.	250	33.0	Tie Gs to P	and the second	alper Cameno	2,380	2,350	5.6	6,400	1,950	46
		Triode		11101110111	2.0						300 400	0.0	Tie Gs to G Tie Gs to G	4.0 6.0	STATE OF THE PARTY.	(Class B (Operation) Operation)	101	5,200° 5,800°		
47	ST-16	Pentode	5-B	Fllament	-	1.75	1.2*	8.6*	1.3*	Power Amp.	250	16.5	250	31.0	6.0	60,000	2,500	150	7,000	2,700	47
48	ST-16	Tetrode	6-A	Cathode	30.0	0.40				Power Amp.	95 125	20.0	95.0 100	52.0 52.0	19.0	4,000	3,900	15.6 43	1,500	3,000	48
49	ST-14	Dual Grid Triode	5-C	Filament	2_0	0.12			1	Power Amp.	135	20.0	Tie Gs to P	6.0		4,175	1,125 bes Class B O	4.7 peration)	11,000 12,000	170 3,500	49
50	ST-16	Triode	4-D	Filament	7.5	1.25	7.1*	4.2*	3.4*	Power Amp.	300 350 400 450	54.0 63.0 70.0 84.0	0.00	35.0 45.0 55.0 55.0		2,000 1,900 1,800 1,800	1,900 2,000 2,100 2,100	3.8 3.8 3.8	4,600 4,100 3,670 4,350	1,600 2,400 3,400 4,600	50
50A5	Lock-in	Beam Amp	6-AA	Cathode	50.0	0.15	100	11 1		Power Amp.	110	7.5	110 110	49.0 50.0	4.0	10,000¢ 35,000¢	8,200 8,250		2,000	2,100 4,300	50A5
50C6G	ST 14	Beam Amp	7-AC	Cathode	50.0	0.15			-	Power Amp.	Charact	eristics Sar	me as Type 6)	/6G.							50C6G
50L6GT	GT	Beam Amp.	7-AC	Cathode	50.0	0.15			100	Power Amp	Charact	eristics Sar	me as Type 25	L6GT.							50L6G1
50Y6GT	GT	Duodiode	7-0	Cathode	50.0	0.15				F-W Rect.	Charact	eristics Sar	me as Type 25	Z6GT.							50Y6GT
50Z7G	ST-12	Duodiode	8-AN	Cathode	50.0	0.15	15	1-1		Doubler H-W Rect	117 A- 235 A-	C Volts P	Per Plate, RMS RMS, 65 Ma.	6, 65 Ma. O Output Cum	utput Current ent.	Per Plate. W	ith Current pas	sing thru Pane	el Lamp Sec	ction.	50Z7G
52	ST-14	Dual Grid Triode	5-C	Filament	63	0.30	-1,1		es.in	Class A Amplifier Class B	110	0	(000)6	43 1.5 #	G: to P	1,750 Two Tubes	3,000 in P P	5.2	2,000°	1,500	59
53	ST-14	Duotriode	7-B	Cathode	0.5	2.0	_			Power Amp.			me as Type 6		01100.	140 1406			10,000	-	53
55, 55\$	SI-12	Duodiode-Tri.	6-G	Cathode	-		1.5=	1.5+	4.3*	Det. Amp.			ne as Type 6								55, 55\$
56, 565	ST-19	Trioda	5-A	Cathode			2.8*	3.5*	2.5₩	Amplifier Detector	250 250	13.5	T	5.0	ent to be adju	9,500 sted to 0.2 M	1,450 la. with no inp	13.8 out Signal)	1	Herei	56, 56\$
56AS	ST-12	Triode	5-A	Cathode	6.3	0.40	-			Amplifier			me as Type 56								56AS
57, 57\$	ST-12	Pentode	6-F	Cathode	2.5	1.00	.007m	5.0*	6.5*	Amplifier	100 950	3.0	100	2.0 2.0	0.5 0.5	1 Meg. 1 Meg.	1,185 1,925	out Cinnell	1.01	2.2	57, 575
57AS	CT 40		4.5	F 11 1	4.0	0.40		-		Detector	250°	4.3 ¢	1 00 me as Type 57		sut to be stale	isted to U.1 N	la. with no inp	out Signal)			57AS
58, 585	ST-12 ST-12	Pentode Pentode	6-F	Cathode	1	1.00	.007m	4.7*	6.0≖	Amplifier Amplifier	100	3.0	100	8.0	2.2	250,000	1,500	Trabai	p 1000	1 11-11-	58, 585
58AS	ST-12	Pentode	6-F	Cathode		0.40	-			Amplifier	250 Charact	3.0	100 me as Type 58	8.2	9.0	800,000	1,600	44.11	1.000	-	58AS
59	ST-16	Pentode	7-A	Cathode		2.0	-	-	-	Power Amp.	250	28.0	Tie Gs to P	26.0	I make the	2,300	2,600	6.0	5.000	1,250	59
"	31.10	rentoge	/	Cathode	2.3	2.0	******			TOWE PRINE.	9501 300 400	18.0	250 Tie Gs to G and Su to P	35.0 20.0		40,000 (Class B	9,500 Operation Ty Operation Ty	100 vo Tubes)	6,000 4,600	3,000	
70A7GI	GT	Diode-Beam Amplifier	8- AB	Cathode	70.0	0.15	11111	-		H-W Rect.	125 A	-C Volts 7.5	Per Plate, RM 110	S, 60 Ma. C	Output Current		5,800		2,500	1,500	70A7GT
70L7GT	GT	Diode-Beam Amplifier	8-AA	Cathode	70.0	0.15	4000	15		Rectifier Amplifier			RMS, 70 Ma.	Output Curr	ent. Condens	er Input to Fil	ter. 7,500		2,000	1,800	70L7GT
71 A	ST-14	Triode	4-D	Flament	5.0	0.25	7.5*	3.2*	2.91	Power Amp.	90	16.5	1 110	10.0	3.0	2,170 1,820	1,400	3.0	3,000	1 25	71 A
											180	40.5		20.0		1,750	1,700	3.0	4,800	790	
75, 75\$	ST-12	Duodiode-Tri.	6-G	Cathode	6.3	0.30	1.7*	1.7*	3.8*	Det. Amp.	250	2.0	1	0.9		91,000	1,100	100			75, 75\$
76	ST-12	Triode	5-A	Cathode	6.3	0.30	2.8*	3.5*	2.5*	Amplifier Detector	250 250	13.5 20.04		5.0	ent to be adia	9,500 isted to 0.2 M	1,450 la. with no Ing	13,8	14000	11.650	76
77	ST-12	Pentode	6-F	Cathode	6.3	0.30	.007m	4.7*	11.0*	Amplifler	100	1.5	60.0	1.7	0.4	600,000 t	1,100	l seller		-0.44	77
78	ST-12	Pentode	6-F	Cathode	6.3	0.30	.007m	4.5*	11.04	Amplifier	90 180 250	3.0 3.0 3.0	90.0 75.0 100	5.4 4.0 7.0	1.3	300,000 ¢ 1 Meg. ¢ 800,000 ¢	1,275 1,100 1,450	107.0		12.11	78
79	ST-12	Duatriode	6-H	Cathode	6.3	0.60	0.00			Power Amp.	180	0.0	100	7.5		(Class B (Operation)		7,000€	5,500	79
80	ST-14	Duodtode	4-C	Filament	5.0	2.00			-	F-W Rect.	250 350 A	O.D -C Voits F	Per Plate, RM	10.5 S, 125 Ma. C	Output Curren	t. Condenser	Operation) Input to Filter		14,0004	8,000	80
P1	- OT	- Di 1	1.5	Pol	9.5	-	-		-	LI W D			Per Plate, RMS								B1
B1	ST-16	Diode	4-B	Filament		1.25				H-W Rect.							input to Filter				82
89	ST-14	Duodiode	4-C	Filament		3.0				F-W Rect.							Input to Filter				83
B3 \	ST-16	Duodiode	4-C			3.00				F-W Rect.							Input to Filter				83V
84 624	ST-14	Duodiode		Cathode		0.50				F-W Rect.							Input to Filter				84 624
85	ST-12	Duodiode Tri	5-D 6-G	Cathode		0.30	1.59	1.5*	4.3*	Det. Amp.			me as Type 6		Japan Carren	Condenser	per to ritter				65
85 AS	ST-12	Duodlode-Tri.				0.30	1.3	1.3	4.3	Del. Amp.	250	9.0	ar irpe o	4.5		16,000	1,250	20			85 AS
41.14.1		1 1 1 1		43						Plate and Target	***	77	CENVIA A		ut of 200 has					АСориом	ion Conductance

Values are given shielded unless marked with (*).
 Converter tube capacitances given are signal grid to plate, RF Input; Mixer Output.

m maximum. | Plate and Target Supply Voltage| | With Average Power Input of 320 Mw. Grid to Grid. | Plate to Plate. | Applied through 250,000 ohms. | Triode Operation. | Per Tube or Section—No Signal. | Applied through 200,000 ohms. | TFor two tubes with 40 volts RMS applied to each grid. | Approximate.

two grids.

Type		Construction		1	Emitter		Ca	ote (1) (pacitano in /µf		Use	P at 2	Negative Grid	Screen	Plate Current	Screen Current	Plate Resistance	Micromhes Mutual	Ampli- fication	Ohms Load for Stated	Undis- torted Power Output	Type
	Style	Class	Basing Diag.	Гуре	Volts	Amps	Cro.	Cin.	Cout		Vo ts	Vaits	Volts	Ma.	Ma	Ohms	Conduct-	Factor	Power Output	Milli-	1700
89	ST-12	Pentode	6-F	Cathode	6.3	0.40			1-	Power amp.	160** 180‡ 180	20.0 18.0 0.0	Gs&Su to P	17.0 20.0 3.0	3.0 Class B Oper	3,300 80,000 m. Tie Su to F	1,425 1,550 A Gs to G (4.7 193 Two Tubes)	7,000 8,000 9,400	300 1,500 3,500	89
VR-90-105-150				Cold				-		Now Listed a			D3,				W -7.10 - ,	140,000-,		-,,,,,	VR-90-105-150
V-99	7-8	Triode	4-E	Filament	3.3	0.063	3.5*	2.5*	2.2"	Det. Amp.	90	4.5		2.5	I I	15.500	425	6.6	1		V99
X99	1-9	Triode	4-D	Filament	3.3	0.063	3.5*	2.5*	9.21	Det. Amp.	90	4.5		2.5		15,500	425	6.6			X99
117L7 M7G1	G1	Diode-Beam Amplifier	8-AO	Cathode	117	0.09	111111			H-W Rect. Power Amp.			MS, 75 Ma. 105		rent. Condense	1		0.0	4,000	850	117L7/M7GT
1171/161	GI	Diode-Beam Amplifier	8-AV	Cathode	117	0.09				H.W Rect.	117 A-	C Voits, RI 6.0	MS, 75 Ma.	Outpui Cum 51	ment Condense	1.0			3,000	1,200	117N7G1
117P7G1	G1	Diode-Beam Amplifier	8-41	Cathode	117	0.09				H-W Rest. Power Amp	117 A-	C Volts Per	Plate, RMS		Output Current.	17,000	5,300		4,000	850	11727GT
117Z4GT	G1	Diode	5-AA	Cathode	117	0.04	-	(412)		H-W Rect.	117 A	C Volts Pe	Plate, RMS	5, 40 Ma. C	Sutput Current						11 Z4GT
117Z6GT	Gī	Duadiade	7-0	Cathode		0.075				Doublet					Output Current F	Per Plate.	_				117Z6G1
1898 489B	\$1-14	Triode	4-D	Filament	5.0	1.25	10000			Power Amp.	250	35.0		20.0		2,500	2,000	5.0	4,500	1,350	182B/462B
183 483	ST-14	Triode	4-D	Filament	5.0	1.25			Jane 1	Power Amp	250	65.0		20.0		2,000	1,500	3.0	4,500		183 483
210-T	ST-16	Triode	4-D	Filament	7.5	1.25	7.0*	4.0*	3.0*	Power Amp	(Standare		with Ceramic		Type 10 Charac		- /		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,	210-T
485	ST-12	Triode	5-A	Cathode	3.0	1.25	71.00			Det. Amp.	180	9.0	-	5.8		00·4,8	1,400	12.5			485
864	T-9	Triode	4-D	Hiament	1.1	0.95	5.3*	3.3*	9.19	Det. Amp.	90	4.5		9.9	1000	13,500	610 645	8.9	-		864
894	ST-12	Gas Triode	6-0	Cathode	6.3	0.6	6.0*	2,0*	0.6*	Relay Tube	300	30	- 11	75	For Relay O	peration Limit	Time to 30 S		Peak Curre	nt,	884
885	ST-12	Gas Triode	5-A	Cathode	2.5	1.5	6.0*	2.02	0.6*	Relay Tube	Characte	eristics Semi	e as Type 88	4							885
95 U	ST-14	Pentode	5-K	Filament	2.0	0.12			** * * *	Power Amp.	135	16.5	135	7.0	2.0	125,000	1,000	125	13,500	575	950
1204	Lock-in	Pentode		Cathode	6.3	0.15	.06m	3.5	4.0	Amptifier	250	2.0	100	4.0	1.3	500,000	1,800			11111	1204
1221	ST-12	Pentode	5-F	Cathode	6.3	0.30	111	4.50		Amplifer	Special	Non-Micro	phonic Tube	. Characteris	stics Same as Ty	De 6C6					1221
1923	ST-1 2	Pentode	7-R	Cathode		0.30	2000	414		Ampilfier			Type 1221								1223
1 2 2 9	ST-1 2	Tetrade	4-K	Filament	2.0	0.06			1						ent Applicatio	ns.					1229
1231	Lock-in	Pentode	8-7	Cathode	6.3	0.45	.015m	8,5	6.5	Pent. Amp. Tet. Amp.	300	11.54	150 150	10.0 19.0	2.5 0.5	700,000	5,500 6,500	3,850 3,500	Bias Res. =	900 Ohms 900 Ohms	s 1231
1960	GT	Diode	4-W Exc. Jumper	Cold K		14.17	1-1 11	1144	14114	Regulator	Voltage	Regulator	Similar to Ty	pe OB3/VF	R-90-30, Exces	ot Regulating					1266
1257	Gī	Gas Triode	4-V	Cold K		****		41		Relay Tube	Similar t	o Type O	A4G.								1267
1 1 7 5	ST-16	Duodiodean	4.C	Filament	5.0	1.75				Reclifier	Similar t	o Type 5Z	3.								1275
1276	\$1-16	Triode	4-D	Filament	4.5	1.14				Amplifier	Similar 1	o Type 6A	3 .								1276
1 273	Lock-in	Triode	4-AA	Filament	1.4	.11	1,7	1.7	3.0	Ostillator	90 90	20		5.2 13.25	120 Mc. Os	cillator Rg =	1,500 10,000 Ohm	15	1	1 441	1293
1019	Metal	Heptode	7-1	Cathode	6.3	0.30	.DO1 m		11.0	Mixer Amp	Characte	ristics Same	e as Type 6L	7.							1612
1626	ST-12	Triode	6-Q	Cathode	12.6		4.4*	3.2*	3,4	Oscillator	250	70		25	Class C. Ost	illator or Am	plifier.			4,000	1626
1629	GI	Electron Ray	7-AL	Cathode	12.6	0.15				Indicator	Characte	elsties Same	as Type 6E	5.							1629
2050	ST-12	Gas Tetrode		Cathode	6.3		0.26*	4.2*	3.6*	Relay Tube	400 220	5.0 4.0	0	100 75	For Relay Or 1 Amp. Peal	peration Limit Current, 8 N	Time to 30 S Volts Tube Dr	ecs. op.			2050
2031	\$T-12	Gas Tetrode	8-BA	Cathode	6.3	0.6	0.26*	4,2*	3.6*	Relay Tube	290	4.0	0	75			fime to 30 S Volts Tube Di				2051
XXD					Now	listed a	s 14AF7	/XXD													
XXL	Lock-in	Triode	\$-AC	Cathode	6.3	0.30	->>>			Amplifier	100 250	0.0	1	10.0	16/6/04	7,000 8,700	3,600 2,300	25 20		*****	XXL

(1) Values are given shielded unless marked with (*).
 (2) Converter tube capacitances given are signal grid to plate; RF Input, Mixer Output

m maximum.

**Plate and Target Supply Voltage

**Applied though 250,000 ohms.

**Friode Operation.

**Per Tube or Section—No Signal.

**Applied through 200,000 ohms.

**Signal.

**Applied through 200,000 ohms.

**Signal.

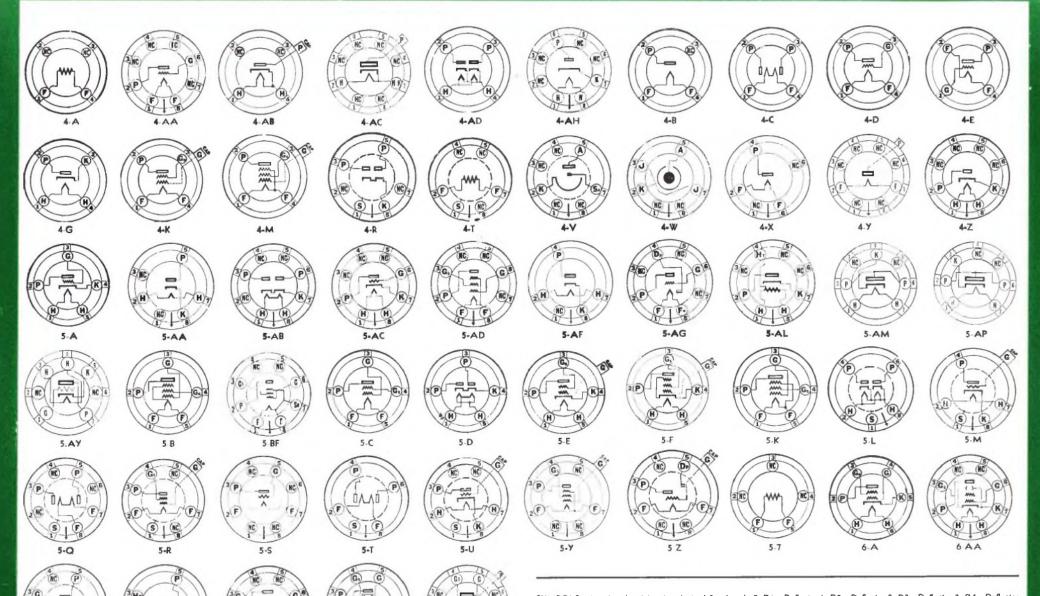
**Applied through 200,000 ohms.

**Applied through 200,000 ohms.

**For two tubes with 40 volts RMS applied to each grid

**Applied through 200,000 ohms.

TUBE AND BASE DIAGRAMS (VIEWED FROM BOTTOM OF BASE-)



SYMBOLS: A—Anode; A1—Anode 1, A2—Anode 2, D1—Deflector 1, D2—Deflector 2, D3—Deflector 3, D4—Deflector 4, Dp—Diode Plate; F—Filament, Fc—Filament Center, G—Control Grid; Ga—Anode Grid; Gm—Modulator Grid, Go—Oscillator Grid; Gs—Screen Grid, H—Heater, Hc—Heater Center; Ht—Heater Tap; IC—Internal Connection, IS—Internal Shield; J—Jumper, K—Cathode; NC—No Connection; P—Plate, Rc—Ray Control; S—Metal Shelf; SA—Starter Anode; Su—Suppressor Grid; T—Target; XS—External Shield; —Top Cap; —>Locating Pin.

6-AM

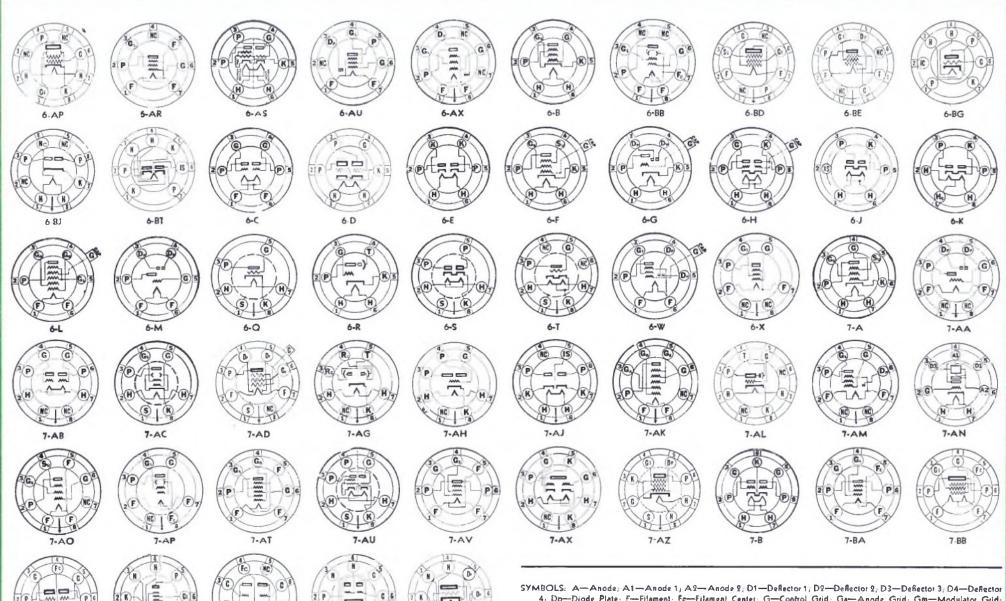
6-A.B

6.AD

6-AE

6-AF

TUBE AND BASE DIAGRAMS (VIEWED FROM BOTTOM OF BASE - CONTINUED)



SYMBOLS: A—Anode; A1—Anode 1, A2—Anode 2; D1—Deflector 1, D2—Deflector 2; D3—Deflector 3; D4—Deflector 4, Dp—Diode Plate; F—Filament; Fc—Filament Center; G—Control Grid; Ga—Anode Grid; Gm—Modulator Grid; Go—Oscillator Grid; Gs—Screen Grid, H—Heater; Hc—Heater Center; Hi—Heater Tap; IC—Internal Connection; IS—Internal Shield; J—Jumper, K—Cathode; NC—No Connection; P—Plate; Rc—Ray Control; S—Metal Shelf; SA—Starter Anode; Su—Suppressor Grid; T—Target; XS—External Shield; ——Top Cap;——>Locating Pln.

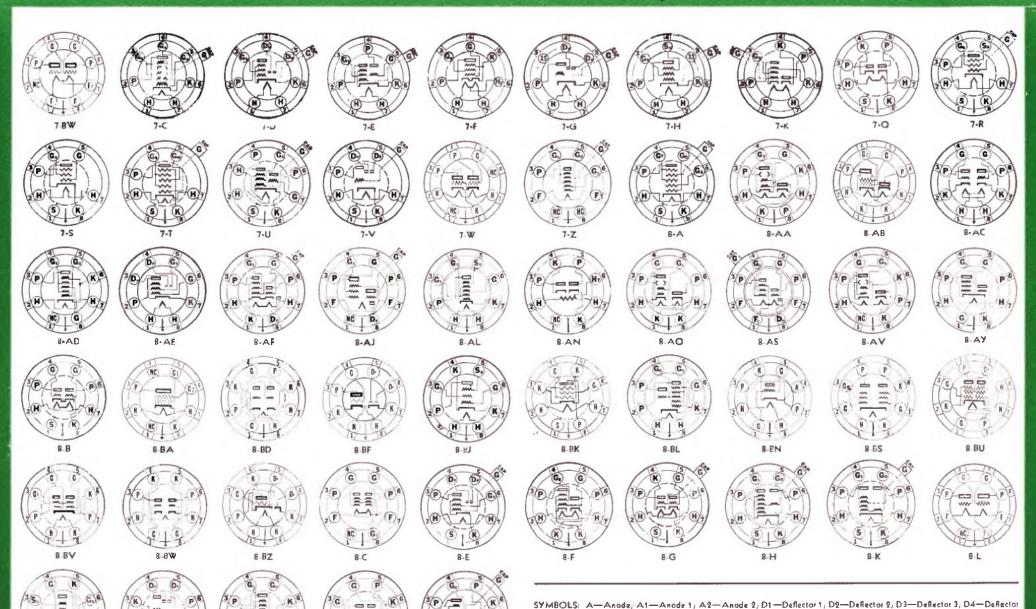
7 -81

7-8F

7-BC

7-BD

TUBE AND BASE DIAGRAMS (NIEWED FROM BOTTOM OF BASE-CONTINUED)



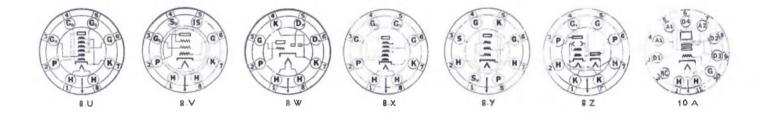
4; Dp—Diode Plate; F—Filament; Fc—Filament Center; G—Control Grid; Ga—Anode Grid; Gm—Modulator Grid; Go—Oscillator Grid; Gs—Streen Grid; H—Heater; Hc—Heater Center; Ht—Heater Tap; IC—Internal Connection; IS—Internal Shield; J—Jumper; K—Cathode; NC—No Connection, P—Plate; Rc—Ray Control; S—Metal Shelf; SA—Starter Anode; Su—Suppressor Grid; T—Target; XS—External Shield; □—Top Cap; —→Locating Pin.

8-T

8.5

8-Q

TUBE AND BASE DIAGRAMS (NIEWED FROM BOTTOM OF BASE CONTINUED)



SYLVANIA PANEL LAMP CHARACTERISTICS

_		De	sign		D 11	A 41-1-A	Usual	7	Type	Circuit	De	sign	
No.	Circuit Volts	Volts	Amp.	Bead Color	Bulb Style	Miniature Base	Service	Type No.	No.	Volts	Volts	Amp.	Č
540	6-8	6.3	0.15	Brown	T-3 1/4	Screw	Radio Dials	\$40	*\$49	2.0	2.0	0.06	F
541	2.5	2.5	0.50	White	T-3 1/4	Screw	Radio Dials	\$41	\$50	6-8	7.5	0.90	W
S49	3.2	3.2	0.35	Green	T-3 1/4	Screw	Radio Dials	\$49	S51	6-8	7.5	0.20	W
\$43	2.5	2.5	0.50	White	T-314	Bayonet	Radio Dials and Tuning Meters	\$43	331	0-8	7.3	0.20	
644	- 10	- ()	0.05	- Divi	T-3 %	Bayonet	Radio Dials and		\$55	6-8	6.5	0.40	V
S44	6-8	6.3	0.25	Blue	1+3/4	Dayonet	Tuning Meters	344	5292	2.9	2.9	0.17	V
\$45	3.2	3.9	0.35	White	T-314	Bayonet	Radio Dials	\$45	S292 A	2.9	9.9	0.17	- 4
\$46	6-B	6.3	0.25	Blue	T-31/4	Screw	Radio Dials and	\$46	2141 W	2.9	2.9	0.17	
							Tuning Meters		\$1455	18.0	18.0	0.25	В
*S47	6-9	6.3	0.15	Brown	T-314	Bayonet	Radio Dials	*547	S1 455 A	18.0	18.0	0.25	В
548	2.0	2.0	0.06	Pink	T-314	Screw	Battery Set Dials	\$48	3143371				_

Type No.	Circuit Volts	Design		Bead	Bulb	Miniature	Usual	Tues
		Volts	Amp.	Color	Style	Base	Service	Type No.
*\$49	2.0	2.0	0.06	Pink	T-314	Bayonet	Battery Set Dials	*\$49
\$50	6-8	7.5	0.20	White	G-312	Screw	Auto Sets, Flash Lights	550
\$51	6-8	7.5	0.20	White	G-3 L ₂	Sayonet	Auto Sets, Auto Paneis	\$51
\$55	6-8	6.5	0.40	White	G-4 2	Bayonet	Auto Sets, Parking Lights	\$55
5292	2.9	2.9	0.17	White	T-314	Screw	Redio Dials	5292
\$292 A	2.9	2.9	0.17	White	T-31,	Bayonet	Radio Dials Coin Machines	\$292
\$1455	18.0	18.0	0.25	Brown	G-5	Screw	Coin Machines	\$1455
S1 455 A	18.0	18.0	0.95	Brawn	G-5	Bayonet	Coin Machines	\$1455

*Sylvania Types S47 and S49 are interchangeable with Types 40A and 49A, respectively, in other brands.