



RCA CUNNINGHAM RADIOTRON CHART



TYPE	NAME	BASE	SOCKET CONNECTIONS	DIMENSIONS MAXIMUM OVERALL LENGTH X DIAMETER	CATHODE TYPE #	RATING			USE Values in right glow operating conditions and characteristics for indicated typical use	PLATE SUPPLY VOLTS	GRID VOLTS	SCREEN VOLTS	SCREEN MILLI-AMP.	PLATE MILLI-AMP.	A-C PLATE RESISTANCE OHMS	MUTUAL CONDUCTANCE MICRO-MHOS	VOLTAGE AMPLIFICATION FACTOR	LOAD FOR STATED POWER OUTPUT OHMS	POWER OUTPUT WATTS	TYPE
						FILAMENT OR HEATER	PLATE	SCREEN												
1A6	PENTAGRID CONVERTER	SMALL 6-PIN	FIG. 28	4 1/2" x 1 1/8"	D-C FILAMENT	2.0	0.06	180	67.5	—	—	—	—	—	50000	—	—	—	—	1A6
1C6	PENTAGRID CONVERTER	SMALL 6-PIN	FIG. 28	4 1/2" x 1 1/8"	D-C FILAMENT	2.0	0.12	180	67.5	—	—	—	—	—	75000	—	—	—	—	1C6
2A3	POWER AMPLIFIER TRODE	MEDIUM 6-PIN	FIG. 1	5 1/2" x 2 1/8"	FILAMENT	2.5	2.5	300	—	—	—	—	—	—	800	5250	4.2	2500	3.5	2A3
2A5	POWER AMPLIFIER PENTODE	MEDIUM 6-PIN	FIG. 15A	4 1/2" x 1 1/8"	HEATER	2.5	1.75	250	150	—	—	—	—	—	100000	2200	220	3000	3.0	2A5
2A6	DUPLEX-DIODE HIGH-MU TRODE	SMALL 6-PIN	FIG. 13	4 1/2" x 1 1/8"	HEATER	2.5	0.8	250	—	—	—	—	—	—	—	—	—	—	—	2A6
2A7	PENTAGRID CONVERTER	SMALL 7-PIN	FIG. 20	4 1/2" x 1 1/8"	HEATER	2.5	0.8	250	100	—	—	—	—	—	—	—	—	—	—	2A7
2B7	DUPLEX-DIODE PENTODE	SMALL 7-PIN	FIG. 21	4 1/2" x 1 1/8"	HEATER	2.5	0.8	250	125	—	—	—	—	—	—	—	—	—	—	2B7
6A4	POWER AMPLIFIER PENTODE	MEDIUM 6-PIN	FIG. 6	4 1/2" x 1 1/8"	FILAMENT	6.3	0.3	180	180	—	—	—	—	—	—	—	—	—	—	6A4
6A6	TWIN-TRODE AMPLIFIER	MEDIUM 7-PIN	FIG. 24	4 1/2" x 1 1/8"	HEATER	6.3	0.8	300	—	—	—	—	—	—	—	—	—	—	—	6A6
6A7	PENTAGRID CONVERTER	SMALL 7-PIN	FIG. 20	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	100	—	—	—	—	—	—	—	—	—	—	6A7
6B7	DUPLEX-DIODE PENTODE	SMALL 7-PIN	FIG. 21	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	125	—	—	—	—	—	—	—	—	—	—	6B7
6C6	TRIPLE-GRID AMPLIFIER	SMALL 6-PIN	FIG. 11	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	100	—	—	—	—	—	—	—	—	—	—	6C6
6D6	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	SMALL 6-PIN	FIG. 11	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	100	—	—	—	—	—	—	—	—	—	—	6D6

Grids #3 and #5 are screen. Grid #4 is signal-input control-grid. *Applies through plate coupling resistor of 250000 ohms. **For grid of following tube. †Requires different socket from small 7-pin.

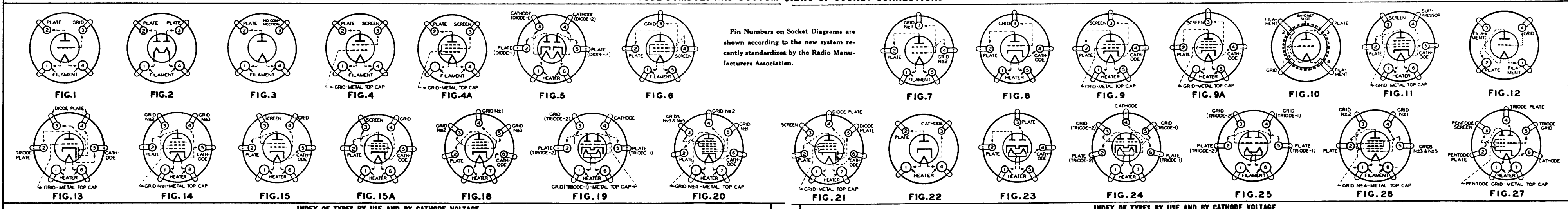
TYPE	NAME	BASE	SOCKET CONNECTIONS	DIMENSIONS MAXIMUM OVERALL LENGTH X DIAMETER	CATHODE TYPE #	RATING			USE Values in right glow operating conditions and characteristics for indicated typical use	PLATE SUPPLY VOLTS	GRID VOLTS	SCREEN VOLTS	SCREEN MILLI-AMP.	PLATE MILLI-AMP.	A-C PLATE RESISTANCE OHMS	MUTUAL CONDUCTANCE MICRO-MHOS	VOLTAGE AMPLIFICATION FACTOR	LOAD FOR STATED POWER OUTPUT OHMS	POWER OUTPUT WATTS	TYPE
						FILAMENT OR HEATER	PLATE	SCREEN												
40	VOLTAGE AMPLIFIER TRODE	MEDIUM 6-PIN	FIG. 1	4 1/2" x 1 1/8"	D-C FILAMENT	5.0	0.25	180	—	—	—	—	—	—	—	—	—	—	—	40
41	POWER AMPLIFIER PENTODE	SMALL 6-PIN	FIG. 15A	4 1/2" x 1 1/8"	HEATER	6.3	0.4	250	250	—	—	—	—	—	—	—	—	—	—	41
42	POWER AMPLIFIER PENTODE	MEDIUM 6-PIN	FIG. 15A	4 1/2" x 1 1/8"	HEATER	6.3	0.7	250	250	—	—	—	—	—	—	—	—	—	—	42
43	POWER AMPLIFIER PENTODE	MEDIUM 6-PIN	FIG. 15A	4 1/2" x 1 1/8"	HEATER	25.0	0.3	135	135	—	—	—	—	—	—	—	—	—	—	43
45	POWER AMPLIFIER TRODE	MEDIUM 6-PIN	FIG. 1	4 1/2" x 1 1/8"	FILAMENT	2.5	1.5	275	—	—	—	—	—	—	—	—	—	—	—	45
46	DUAL-GRID POWER AMPLIFIER	MEDIUM 6-PIN	FIG. 7	5 1/2" x 2 1/8"	FILAMENT	2.5	1.75	—	—	—	—	—	—	—	—	—	—	—	—	46
47	POWER AMPLIFIER PENTODE	MEDIUM 6-PIN	FIG. 8	5 1/2" x 2 1/8"	FILAMENT	2.5	1.75	250	250	—	—	—	—	—	—	—	—	—	—	47
48	POWER AMPLIFIER TRODE	MEDIUM 6-PIN	FIG. 18	5 1/2" x 2 1/8"	D-C HEATER	30.0	0.4	125	100	—	—	—	—	—	—	—	—	—	—	48
49	DUAL-GRID AMPLIFIER	MEDIUM 6-PIN	FIG. 7	4 1/2" x 1 1/8"	D-C FILAMENT	2.0	0.12	—	—	—	—	—	—	—	—	—	—	—	—	49
50	POWER AMPLIFIER TRODE	MEDIUM 6-PIN	FIG. 1	6 1/2" x 2 1/8"	FILAMENT	7.5	1.25	450	—	—	—	—	—	—	—	—	—	—	—	50
53	TWIN-TRODE AMPLIFIER	MEDIUM 7-PIN	FIG. 24	4 1/2" x 1 1/8"	HEATER	2.5	2.0	300	—	—	—	—	—	—	—	—	—	—	—	53
55	DUPLEX-DIODE TRODE	SMALL 6-PIN	FIG. 13	4 1/2" x 1 1/8"	HEATER	2.5	1.0	250	—	—	—	—	—	—	—	—	—	—	—	55
56	SUPER-TRODE AMPLIFIER	SMALL 6-PIN	FIG. 8	4 1/2" x 1 1/8"	HEATER	2.5	1.0	250	—	—	—	—	—	—	—	—	—	—	—	56
57	TRIPLE-GRID DETECTOR	SMALL 6-PIN	FIG. 11	4 1/2" x 1 1/8"	HEATER	2.5	1.0	250	100	—	—	—	—	—	—	—	—	—	—	57

*For Grid-leak Detection—plate volts 45, grid return to + filament or to cathode. †Grids #1 and #2 connected together. **For grid of following tube. ††Applies through plate coupling resistor of 250000 ohms.

RECTIFIERS

TYPE	NAME	BASE	SOCKET CONNECTIONS	DIMENSIONS	CATHODE TYPE #	FILAMENT OR HEATER	PLATE	SCREEN	USE	PLATE SUPPLY VOLTS	GRID VOLTS	SCREEN VOLTS	SCREEN MILLI-AMP.	PLATE MILLI-AMP.	A-C VOLTAGE PER PLATE (Volts RMS)	MAXIMUM D-C OUTPUT CURRENT (Maximum MA)	TYPE
523	FULL-WAVE RECTIFIER	MEDIUM 6-PIN	FIG. 2	5 1/2" x 2 1/8"	FILAMENT	5.0	3.0	—	—	—	—	—	—	—	500 Volts, RMS 250 Milliamperes	523	
1223	HALF-WAVE RECTIFIER	SMALL 4-PIN	FIG. 22	4 1/2" x 1 1/8"	HEATER	12.6	0.3	—	—	—	—	—	—	—	250 Volts, RMS 60 Milliamperes	1223	
2525	RECTIFIER-DOUBLER	SMALL 6-PIN	FIG. 25	4 1/2" x 1 1/8"	HEATER	25.0	0.3	—	—	—	—	—	—	—	125 Volts, RMS 100 Milliamperes	2525	
1-1/2	HALF-WAVE RECTIFIER	SMALL 4-PIN	FIG. 22	4 1/2" x 1 1/8"	HEATER	6.3	0.3	—	—	—	—	—	—	—	350 Volts, RMS 50 Milliamperes	1-1/2	
80	FULL-WAVE RECTIFIER	MEDIUM 4-PIN	FIG. 2	4 1/2" x 1 1/8"	FILAMENT	5.0	2.0	—	—	—	—	—	—	—	350 400 550 125 110 135	80	
'81	HALF-WAVE RECTIFIER	MEDIUM 4-PIN	FIG. 3	6 1/2" x 2 1/8"	FILAMENT	7.5	1.25	—	—	—	—	—	—	—	700 Volts, RMS 85 Milliamperes	'81	
82	FULL-WAVE RECTIFIER	MEDIUM 4-PIN	FIG. 2	4 1/2" x 1 1/8"	FILAMENT	2.5	3.0	—	—	—	—	—	—	—	500 Volts, RMS 125 Milliamperes	82	
83	FULL-WAVE RECTIFIER	MEDIUM 4-PIN	FIG. 2	5 1/2" x 2 1/8"	FILAMENT	5.0	3.0	—	—	—	—	—	—	—	500 Volts, RMS 250 Milliamperes	83	
83-V	FULL-WAVE RECTIFIER	MEDIUM 4-PIN	FIG. 2	4 1/2" x 1 1/8"	HEATER	5.0	2.0	—	—	—	—	—	—	—	400 Volts, RMS 200 Milliamperes	83-V	
84	FULL-WAVE RECTIFIER	SMALL 6-PIN	FIG. 23	4 1/2" x 1 1/8"	HEATER	6.3	0.5	—	—	—	—	—	—	—	350 Volts, RMS 50 Milliamperes	84	

†Grid #1 is control grid. Grid #2 is screen. Grid #3 tied to cathode. *Either A. C. or D. C. may be used on filament or heater, except as specifically noted. For use of D. C. on A-C filament types, decrease stated grid volts by 1/2 (approx.) of filament voltage. †Requires different socket from small 7-pin. ††Mercury Vapor Type. *Interchangeable with Type 1. †Cathode connected to No. 4 base pin.



INDEX OF TYPES BY USE AND BY CATHODE VOLTAGE

CATHODE VOLTS	POWER AMPLIFIERS	VOLTAGE AMPLIFIERS Including Duplex-Diode Types	CONVERTERS IN SUPERHETERODYNES	DETECTORS	MIXER TUBES IN SUPERHETERODYNES	RECTIFIERS	CATHODE VOLTS
1.1	—	—	—	11, 12	—	—	1.1
1.5	—	26	—	—	—	—	1.5
2.0	2A3, 2A5, 45, 46, 47, 53, 59	2A6, 2B7, 2A-4, 27, 35, 55, 56, 57, 58	—	30, 32	1A6, 1C6, 34	—	2.0
2.5	—	—	—	—	2A7, 24-A, 35, 57, 58	—	2.5
3.3	'20	22, 99	—	99	—	—	3.3

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CATHODE VOLTS	POWER AMPLIFIERS	VOLTAGE AMPLIFIERS Including Duplex-Diode Types	CONVERTERS IN SUPERHETERODYNES	DETECTORS	MIXER TUBES IN SUPERHETERODYNES	RECTIFIERS	CATHODE VOLTS
5.0	112-A, 71-A	—	—	00-A, 01-A, 40, 112-A	—	523, 80, 83, 83-V	5.0
6.3	6A4, 6A6, 38, 41, 42, 79, 89	6B7, 6C6, 6D6, 6F7, 36, 37, 39-44, 75, 76, 77, 85	—	6A7, 6F7	—	'81	6.3
7.5	—	—	—	—	—	'81	7.5
12.6	—	—	—	—	—	1223	12.6
25.0	—	—	—	—	—	2525	25.0
30.0	—	—	—	—	—	—	30.0