



# RCA CUNNINGHAM RADIOTRON CHART



TYPE	NAME	BASE	SOCKET CONNECTIONS	DIMENSIONS MAXIMUM OVERALL LENGTH X DIAMETER	CATHODE TYPE #	RATING			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 4-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	250	—	—	—	—	100000	2200	220	7000	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.  
 \*Requires different socket from small 7-pin.  
 †Applied through plate coupling resistor of 200000 ohms.  
 ‡Applied through plate coupling resistor of 250000 ohms.  
 §For grid of following tube.  
 ¶Applied through plate coupling resistor of 250000 ohms.

6F7	TRODE-PENTODE	SMALL 7-PIN	FIG. 27	4 1/2" x 1 1/8"	HEATER	6.3	0.3	100	—	—	—	—	—	—	17800	450	8	—	—	—	6F7
'00-A	DETECTOR TRODE	MEDIUM 4-PIN	FIG. 1	4 1/2" x 1 1/8"	D-C FILAMENT	5.0	0.25	45	—	—	—	—	—	—	30000	666	20	—	—	—	'00-A
01-A	DETECTOR AMPLIFIER	MEDIUM 4-PIN	FIG. 1	4 1/2" x 1 1/8"	D-C FILAMENT	5.0	0.25	135	—	—	—	—	—	—	11000	725	8.0	—	—	—	01-A
10	POWER AMPLIFIER TRODE	MEDIUM 4-PIN	FIG. 1	5 1/2" x 2 1/8"	FILAMENT	7.5	1.25	425	—	—	—	—	—	—	10000	800	8.0	11000	0.9	1.6	10
11	DETECTOR AMPLIFIER TRODE	WD 4-PIN	FIG. 12	4 1/2" x 1 1/8"	D-C FILAMENT	1.1	0.25	135	—	—	—	—	—	—	15500	445	6.6	—	—	—	11
12	DETECTOR AMPLIFIER TRODE	WD 4-PIN	FIG. 12	4 1/2" x 1 1/8"	D-C FILAMENT	1.1	0.25	135	—	—	—	—	—	—	15000	445	6.6	—	—	—	12
19	TWIN-TRODE AMPLIFIER	SMALL 6-PIN	FIG. 25	4 1/2" x 1 1/8"	D-C FILAMENT	2.0	0.26	135	—	—	—	—	—	—	—	—	—	—	—	—	19
'20	POWER AMPLIFIER TRODE	SMALL 4-PIN	FIG. 1	4 1/2" x 1 1/8"	D-C FILAMENT	3.3	0.132	135	—	—	—	—	—	—	—	—	—	—	—	—	'20
22	R-F AMPLIFIER TRODE	MEDIUM 4-PIN	FIG. 4	5 1/2" x 1 1/8"	D-C FILAMENT	3.3	0.132	135	67.5	—	—	—	—	—	—	—	—	—	—	—	22
24-A	R-F AMPLIFIER TRODE	MEDIUM 6-PIN	FIG. 9	5 1/2" x 1 1/8"	HEATER	2.5	1.75	275	90	—	—	—	—	—	—	—	—	—	—	—	24-A
26	AMPLIFIER TRODE	MEDIUM 4-PIN	FIG. 1	4 1/2" x 1 1/8"	FILAMENT	1.5	1.05	180	—	—	—	—	—	—	—	—	—	—	—	—	26
27	DETECTOR AMPLIFIER TRODE	MEDIUM 6-PIN	FIG. 8	4 1/2" x 1 1/8"	HEATER	2.5	1.75	275	—	—	—	—	—	—	—	—	—	—	—	—	27
30	DETECTOR AMPLIFIER TRODE	SMALL 4-PIN	FIG. 1	4 1/2" x 1 1/8"	D-C FILAMENT	2.0	0.06	180	—	—	—	—	—	—	—	—	—	—	—	—	30

\*For Grid-leak Detection—plate volts 45, grid return to + filament or to cathode.  
 †Applied through plate coupling resistor of 250000 ohms or 500-henry choke shunted by 0.25 megohm resistor.  
 ‡Maximum.

31	POWER AMPLIFIER TRODE	SMALL 4-PIN	FIG. 1	4 1/2" x 1 1/8"	D-C FILAMENT	2.0	0.13	180	—	—	—	—	—	—	—	—	—	—	—	—	31
32	R-F AMPLIFIER TRODE	MEDIUM 4-PIN	FIG. 4	5 1/2" x 1 1/8"	D-C FILAMENT	2.0	0.06	180	67.5	—	—	—	—	—	—	—	—	—	—	—	32
33	POWER AMPLIFIER PENTODE	MEDIUM 6-PIN	FIG. 6	4 1/2" x 1 1/8"	D-C FILAMENT	2.0	0.26	180	180	—	—	—	—	—	—	—	—	—	—	—	33
34	SUPER-CONTROL R-F AMPLIFIER PENTODE	MEDIUM 4-PIN	FIG. 4A	5 1/2" x 1 1/8"	D-C FILAMENT	2.0	0.06	180	67.5	—	—	—	—	—	—	—	—	—	—	—	34
35	SUPER-CONTROL R-F AMPLIFIER TRODE	MEDIUM 6-PIN	FIG. 9	5 1/2" x 1 1/8"	HEATER	2.5	1.75	275	90	—	—	—	—	—	—	—	—	—	—	—	35
36	R-F AMPLIFIER TRODE	SMALL 6-PIN	FIG. 9	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	90	—	—	—	—	—	—	—	—	—	—	—	36
37	DETECTOR AMPLIFIER TRODE	SMALL 6-PIN	FIG. 8	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	—	—	—	—	—	—	—	—	—	—	—	—	37
38	POWER AMPLIFIER PENTODE	SMALL 6-PIN	FIG. 8A	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	250	—	—	—	—	—	—	—	—	—	—	—	38
39-44	SUPER-CONTROL R-F AMPLIFIER PENTODE	SMALL 6-PIN	FIG. 8A	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	90	—	—	—	—	—	—	—	—	—	—	—	39-44

\*For Grid-leak Detection—plate volts 45, grid return to + filament or 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.  
 ‡Applied through plate coupling resistor of 250000 ohms or 500-henry choke shunted by 0.25 megohm resistor.  
 §Applied through plate coupling resistor of 100000 ohms.  
 ¶Maximum.

TYPE	NAME	BASE	SOCKET CONNECTIONS	DIMENSIONS MAXIMUM OVERALL LENGTH X DIAMETER	CATHODE TYPE #	RATING			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 4-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	250	—	—	—	—	—	—	—	—	—	—	—	—	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 POWER AMPLIFIER	MEDIUM 6-PIN	FIG. 7	4 1/2" x 1 1/8"	D-C FILAMENT	2.0	0.12	180	—	—	—	—	—	—	—	—	—	—	—	—	49
50	POWER AMPLIFIER TRODE	MEDIUM 4-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 AMPLIFIER	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.  
 †Requires different socket from small 7-pin.  
 ‡Grid next to plate tied to resistor.  
 §Two grids tied together.  
 ¶Applied through plate coupling resistor of 250000 ohms.  
 ††For grid of following tube.

58	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	SMALL 6-PIN	FIG. 11	4 1/2" x 1 1/8"	HEATER	2.5	1.0	250	100	—	—	—	—	—	—	—	—	—	—	—	58
59	TRIPLE-GRID POWER AMPLIFIER	MEDIUM 7-PIN	FIG. 18	5 1/2" x 2 1/8"	HEATER	2.5	2.0	—	—	—	—	—	—	—	—	—	—	—	—	—	59
71-A	POWER AMPLIFIER	MEDIUM 4-PIN	FIG. 1	4 1/2" x 1 1/8"	FILAMENT	5.0	0.25	180	—	—	—	—	—	—	—	—	—	—	—	—	71-A
75	DUPLEX-DIODE HIGH-MU TRODE	SMALL 6-PIN	FIG. 13	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	—	—	—	—	—	—	—	—	—	—	—	—	75
76	SUPER-TRODE AMPLIFIER	SMALL 6-PIN	FIG. 8	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	—	—	—	—	—	—	—	—	—	—	—	—	76
77	TRIPLE-GRID DETECTOR AMPLIFIER	SMALL 6-PIN	FIG. 11	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	100												