

# Radio Tube Chart ← RCA Radiotron - Cunningham → Radio Tube Chart

TYPE	NAME	BASE	SOCKET CONNECTIONS	DIMENSIONS		CATHODE TYPE	RATING		FILAMENT OR HEATER	SCREEN
				MAXIMUM OVERALL LENGTH	DIAMETER		VOLTS	AMPERES		
RCA-1A6	PENTAGRID CONVERTER*	SMALL 6-PIN	FIG. 28	4 1/2" x 1 1/8"	1 1/8"	D-C FILAMENT	2.0	0.06	180	67.5
RCA-2A3	POWER AMPLIFIER TRODE	MEDIUM 4-PIN	FIG. 1	5 3/8" x 2 1/8"	1 1/8"	FILAMENT	2.5	2.5	250	—
RCA-2A5	POWER AMPLIFIER TRODE	MEDIUM 6-PIN	FIG. 18A	4 1/8" x 1 1/8"	1 1/8"	HEATER	2.5	1.75	250	250
RCA-2A6	HIGH- $\mu$ TRODE	SMALL 6-PIN	FIG. 13	4 1/2" x 1 1/8"	1 1/8"	HEATER	2.5	0.8	250	—
RCA-2A7	PENTAGRID CONVERTER*	SMALL 7-PIN	FIG. 20	4 3/4" x 1 3/8"	1 1/8"	HEATER	2.5	0.8	250	100
RCA-2B7	DUPLEX-DIODE PENTODE	SMALL 7-PIN	FIG. 21	4 3/4" x 1 3/8"	1 1/8"	HEATER	2.5	0.8	250	125
RCA-6A4 <i>also 6A</i>	POWER AMPLIFIER TRODE	MEDIUM 6-PIN	FIG. 6	4 1/8" x 1 1/8"	1 1/8"	FILAMENT	6.3	0.3	180	180
RCA-6A7	PENTAGRID CONVERTER*	SMALL 7-PIN	FIG. 20	4 3/4" x 1 3/8"	1 1/8"	HEATER	6.3	0.3	250	100
RCA-6B7	DUPLEX-DIODE PENTODE	SMALL 7-PIN	FIG. 21	4 3/4" x 1 3/8"	1 1/8"	HEATER	6.3	0.3	250	125
RCA-6F7	TRODE PENTODE	SMALL 7-PIN	FIG. 27	4 3/4" x 1 3/8"	1 1/8"	HEATER	6.3	0.3	100	—
UX-200-A	DETECTOR TRODE	MEDIUM 4-PIN	FIG. 1	4 1/8" x 1 1/8"	1 1/8"	D-C FILAMENT	5.0	0.25	45	—
RCA-01-A	DETECTOR* AMPLIFIER	MEDIUM 4-PIN	FIG. 1	4 1/8" x 1 1/8"	1 1/8"	D-C FILAMENT	5.0	0.25	135	—
RCA-10	POWER AMPLIFIER TRODE	MEDIUM 4-PIN	FIG. 1	5 3/8" x 2 1/8"	1 1/8"	FILAMENT	7.5	1.25	495	—

USE	PLATE VOLTS	GRID VOLTS	SCREEN VOLTS	SCREEN MILLI-AMP.	PLATE MILLI-AMP.	A-C PLATE RESISTANCE OHMS	MUTUAL INDUCTANCE MICROHMS	VOLTAGE FACTOR	LOAD FOR STATED OUTPUT OHMS	POWER PUT WATTS	TYPE
Values to right give operating conditions and characteristics for indicated typical use											
CONVERTER	180	-3.0 min.	67.5	2.4	1.3	500000	—	—	Anode Grid (#2) 135 Max. Volts, 2.3 Ma. Oscillator Grid (#1) Resistor, 50000 Ohms. Conversion Conductance, 300 Microhms.	—	C-1A6
CLASS A AMPLIFIER	250	-4.5	—	—	60.0	300	59.50	4.2	2500	3.5	C-2A3
PUSH-PULL AMPLIFIER	300	-6.2	Fixed-bias	40.0	40.0	stated	—	—	Power Output for 2 tubes at 5000 10.0 plate-to-plate 3000 15.0	—	C-2A5
CLASS A AMPLIFIER	250	-16.5	250	6.5	34.0	100000	2200	220	7000	3.0	C-2A6
TRODE UNIT AS CLASS A AMPLIFIER	250*	-1.35	—	—	0.4	—	—	—	Gain per stage = 50-60	—	C-2A7
CONVERTER	250	-3.0	100	2.2	3.5	360000	—	—	Anode Grid (#2) 200 Max. Volts, 4.0 Ma. Oscillator Grid (#1) Resistor, 50000 Ohms. Conversion Conductance, 520 Microhms.	—	C-2B7
PENTODE UNIT AS P.F. AMPLIFIER	100	-3.0	100	1.7	5.8	300000	950	285	—	—	C-6A4 <i>also 6A</i>
PENTODE UNIT AS P.F. AMPLIFIER	250	-3.0	125	2.3	9.0	650000	1125	730	—	—	C-6A7
TRODE UNIT AS TRODE UNIT AS	250*	-4.5	50	—	0.65	—	—	—	—	—	C-6B7
CLASS A AMPLIFIER	180	-6.5	100	1.6	9.0	83250	1200	100	11000	0.31	C-6F7
CONVERTER	250	-3.0	100	2.2	3.5	360000	—	—	Anode Grid (#2) 200 Max. Volts, 4.0 Ma. Oscillator Grid (#1) Resistor, 50000 Ohms. Conversion Conductance, 520 Microhms.	—	C-6B7
PENTODE UNIT AS P.F. AMPLIFIER	100	-3.0	100	1.7	5.8	300000	950	285	—	—	C-300-A
PENTODE UNIT AS P.F. AMPLIFIER	250	-3.0	125	2.3	9.0	650000	1125	730	—	—	C-01-A
TRODE UNIT AS TRODE UNIT AS	250*	-4.5	50	—	0.65	—	—	—	—	—	C-10
CLASS A AMPLIFIER	100	-3.0	100	1.5	3.5	17800	450	8	—	—	C-11
PENTODE UNIT AS P.F. AMPLIFIER	250	-3.0	100	1.5	6.5	850000	1100	900	—	—	C-12
PENTODE UNIT AS P.F. AMPLIFIER	250	-10.0	100	0.6	2.8	—	—	—	Oscillator peak volts = 7.0. Conversion conductance = 300 microhms.	—	C-19
GRID LEAK DETECTOR	45	—	Grid Return to (-) Filament	—	—	—	—	—	—	—	C-220
CLASS A AMPLIFIER	90	-4.5	—	—	2.5	11000	666	20	—	—	C-26
CLASS A AMPLIFIER	135	-9.0	—	—	3.0	10000	800	8.0	—	—	C-27
CLASS A AMPLIFIER	250	-31.0	—	—	16.0	5150	1550	8.0	11000	0.9	C-30
CLASS A AMPLIFIER	425	-39.0	—	—	18.0	5000	1600	8.0	10200	1.6	C-31
CLASS A AMPLIFIER	90	-4.5	—	—	2.5	15500	425	6.6	—	—	C-32
CLASS A AMPLIFIER	135	-10.5	—	—	3.0	15000	440	6.6	—	—	C-33
CLASS A AMPLIFIER	180	-13.5	—	—	5.0	5400	1575	8.5	—	—	C-34
CLASS A AMPLIFIER	135	-9.0	—	—	7.7	4700	1800	8.5	—	—	C-35
CLASS A AMPLIFIER	135	-3.0	—	—	—	—	—	—	Power output values in for one tube at stated load, plate-to-plate.	10000 1.9	C-112-A
CLASS A AMPLIFIER	90	-16.5	—	—	3.0	8000	415	3.3	9600	0.045	C-19
CLASS A AMPLIFIER	135	-22.5	—	—	6.5	6300	525	3.3	6500	0.110	C-24-A
SCREEN GRID P.F. AMPLIFIER	135	-1.5	45	0.6*	1.7	725000	375	270	—	—	C-22
SCREEN GRID P.F. AMPLIFIER	180	-1.5	67.5	1.3*	5.7	325000	500	160	—	—	C-24-A
BIAS DETECTOR	250	-3.0	90	1.7*	4.0	400000	1000	400	—	—	C-26
BIAS DETECTOR	275*	-5.0	20 to approx. 45	—	4.0	600000	1050	650	—	—	C-27
CLASS A AMPLIFIER	90	-7.0	—	—	2.9	8900	935	8.3	—	—	C-30
CLASS A AMPLIFIER	180	-14.5	—	—	6.2	7300	1150	8.3	—	—	C-31
CLASS A AMPLIFIER	250	-21.0	—	—	4.5	9000	1000	9.0	—	—	C-32
BIAS DETECTOR	250	-30.0	—	—	5.2	9250	975	9.0	—	—	C-33
CLASS A AMPLIFIER	90	-4.5	—	—	2.5	11000	850	9.3	—	—	C-34
CLASS A AMPLIFIER	135	-13.5	—	—	3.0	10300	900	9.3	—	—	C-35
CLASS A AMPLIFIER	135	-22.5	—	—	4.0	3650	1035	3.8	7000	0.185	C-30
SCREEN GRID P.F. AMPLIFIER	135	-3.0	67.5	0.4*	12.9	3650	1035	3.8	7000	0.185	C-31
BIAS DETECTOR	180*	-6.0	67.5	0.4*	1.7	1200000	650	780	—	—	C-32
CLASS A AMPLIFIER	135	-13.5	135	3.0	14.5	50000	1450	70	7000	0.7	C-26
SCREEN GRID P.F. AMPLIFIER	180	-3.0 min.	67.5	1.0	2.8	600000	600	360	—	—	C-34
SCREEN GRID P.F. AMPLIFIER	250	-3.0 min.	90	2.5*	6.3	1000000	620	620	—	—	C-35

\* Applied through plate coupling resistor of 250000 ohms.  
 \* Applied through plate coupling resistor of 200000 ohms.  
 \* 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.

\* 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.

# Radio Tube Chart (Continued) ← RCA Radiotron - Cunningham → Radio Tube Chart (Continued)

TYPE	NAME	BASE	SOCKET CONNECTIONS	DIMENSIONS		CATHODE TYPE	RATING			
				MAXIMUM OVERALL LENGTH X DIAMETER	HEATER		FILAMENT OR HEATER	PLATE SCREEN		
							VOLTS	AMPERES	MAX. VOLTS	MAX. VOLTS
RCA-36	R-F AMPLIFIER TETRODE	SMALL 6-PIN	FIG. 9	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	90	
RCA-37	DETECTOR* AMPLIFIER TRIODE	SMALL 6-PIN	FIG. 8	4 1/4" x 1 1/8"	HEATER	6.3	0.3	250		
RCA-38	POWER AMPLIFIER PENTODE	SMALL 6-PIN	FIG. 9A	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	250	
RCA-39-44	SUPER-CONTROL PENTODE	SMALL 6-PIN	FIG. 9A	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250	90	
UX-240	VOLTAGE AMPLIFIER TRIODE	MEDIUM 4-PIN	FIG. 1	4 1/8" x 1 1/8"	DC FILAMENT	5.0	0.25	180		
RCA-41	POWER AMPLIFIER PENTODE	SMALL 6-PIN	FIG. 15A	4 1/4" x 1 1/8"	HEATER	6.3	0.4	250	250	
RCA-42	POWER AMPLIFIER PENTODE	MEDIUM 6-PIN	FIG. 15A	4 1/8" x 1 1/8"	HEATER	6.3	0.7	250	250	
RCA-43	POWER AMPLIFIER PENTODE	MEDIUM 6-PIN	FIG. 15A	4 1/8" x 1 1/8"	HEATER	25.0	0.3	135	135	
RCA-45	POWER AMPLIFIER TRIODE	MEDIUM 4-PIN	FIG. 1	4 1/8" x 1 1/8"	FILAMENT	2.5	1.5	275		
RCA-46	DUAL GRID POWER AMPLIFIER	MEDIUM 5-PIN	FIG. 7	5 5/8" x 2 1/8"	FILAMENT	2.5	1.75	250		
RCA-47	POWER AMPLIFIER PENTODE	MEDIUM 5-PIN	FIG. 6	5 5/8" x 2 1/8"	FILAMENT	2.5	1.75	250	250	
RCA-48	POWER TETRODE	MEDIUM 6-PIN	FIG. 15	5 5/8" x 2 1/8"	HEATER	30.0	0.4	125	100	
*For Grid-leak Detection—plate volts 45, grid return to + filament or to cathode.										
RCA-49	DUAL GRID POWER AMPLIFIER	MEDIUM 5-PIN	FIG. 7	4 1/8" x 1 1/8"	DC FILAMENT	2.0	0.120	135		
UX-250	POWER AMPLIFIER TRIODE	MEDIUM 4-PIN	FIG. 1	6 1/2" x 2 1/8"	FILAMENT	7.5	1.25	450		
RCA-53	TWIN-TRIODE AMPLIFIER	MEDIUM 7-PIN	FIG. 24	4 1/8" x 1 1/8"	HEATER	2.5	2.0	300		
RCA-55	DUPLEX-TRIODE TRIODE	SMALL 6-PIN	FIG. 13	4 1/2" x 1 3/8"	HEATER	2.5	1.0	250		
RCA-56	SUPER-TRIODE AMPLIFIER DETECTOR*	SMALL 6-PIN	FIG. 8	4 1/4" x 1 1/8"	HEATER	2.5	1.0	250		
RCA-57	TRIPLE GRID AMPLIFIER DETECTOR	SMALL 6-PIN	FIG. 11	4 1/8" x 1 1/8"	HEATER	2.5	1.0	250	100	
RCA-58	TRIPLE GRID SUPER-CONTROL AMPLIFIER	SMALL 6-PIN	FIG. 11	4 1/8" x 1 1/8"	HEATER	2.5	1.0	250	100	
RCA-59	TRIPLE-GRID POWER AMPLIFIER	MEDIUM 7-PIN	FIG. 18	5 5/8" x 2 1/8"	HEATER	2.5	2.0	250	250	
RCA-71-A	POWER AMPLIFIER	MEDIUM 4-PIN	FIG. 1	4 1/8" x 1 1/8"	FILAMENT	5.0	0.25	180		
RCA-75	DUPLEX-TRIODE HIGH-WA TRIODE	SMALL 6-PIN	FIG. 13	4 1/2" x 1 3/8"	HEATER	6.3	0.3	250		
RCA-77	TRIPLE-GRID AMPLIFIER DETECTOR	SMALL 6-PIN	FIG. 11	4 1/8" x 1 1/8"	HEATER	6.3	0.3	250	100	
RCA-78	TRIPLE GRID SUPER-CONTROL AMPLIFIER	SMALL 6-PIN	FIG. 11	4 1/8" x 1 1/8"	HEATER	6.3	0.3	250	125	
*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. ‡ Requires different socket from small 7-pin.										

USE	PLATE SUPPLY VOLTS	GRID VOLTS	SCREEN VOLTS	SCREEN MILLI-AMP.	PLATE MILLI-AMP.	A-C PLATE RESISTANCE OHMS	MUTUAL INDUCTANCE MICRO-F	VOLTAGE AMPLIFICATION FACTOR	LOAD FOR STATED OUTPUT OHMS	POWER OUTPUT WATTS	TYPE
Values to right give operating characteristics for indicated typical use											
SCREEN GRID R-F AMPLIFIER	100	-1.5	55	1.8	50000	850	470				C-36
BIAS DETECTOR	100	-3.0	90	1.7	50000	1050	525				
	250	-8.0	90	1.7	50000	1080	595				
	250	-8.0	90	1.7	50000	1080	595				
CLASS A AMPLIFIER	90	-6.0	90	4.3	10200	800	9.2				C-37
	180	-13.5	90	4.3	10200	800	9.2				
	250	-18.0	90	7.5	8400	1100	9.2				
	250	-28.0	90	7.5	8400	1100	9.2				
CLASS A AMPLIFIER	100	-9.0	100	1.2	140000	875	120		15000	0.27	C-38
	180	-18.0	180	2.4	110000	1050	120		10000	1.00	
	250	-25.0	250	3.8	100000	1200	120		10000	2.50	
SCREEN GRID R-F AMPLIFIER	90	-3.0	90	1.6	375000	960	360				C-39-44
	180	-6.0	90	1.4	750000	1000	750				
	250	-9.0	90	1.4	1000000	1050	1050				
CLASS A AMPLIFIER	180	-1.5	90	0.2	150000	200	30				CX-340
	180	-3.0	90	0.2	150000	200	30				
CLASS A AMPLIFIER	100	-7.0	100	1.6	103500	1450	150		12000	0.33	C-41
	180	-13.5	180	3.0	81000	1850	150		9000	1.50	
	250	-18.0	250	5.5	32.0	68000	2200		7600	3.40	
CLASS A AMPLIFIER	250	-16.5	250	6.5	34.0	100000	2200		7000	3.00	C-42
CLASS A AMPLIFIER	100	-15.0	100	4.0	45000	2000	90		4500	0.89	C-43
	180	-31.5	180	7.0	35000	2300	90		4000	2.09	
	250	-50.0	250	11.0	15500	2700	90		3500	4.82	
CLASS A AMPLIFIER	250	-50.0	250	11.0	15500	2700	90		3500	4.82	C-45
	275	-56.0	275	11.0	17000	2050	3.5		4600	2.60	
CLASS A AMPLIFIER	250	-33.0	250	22.0	23800	2350	5.6		6400	1.25	C-46
	400	0	0	22.0	23800	2350	5.6		6400	1.25	
CLASS A AMPLIFIER	250	-16.5	250	6.0	60000	2500	150		7000	2.7	C-47
	250	-32.0	250	9.0	47.0	10000	2800		2000	1.6	
	125	-22.5	100	9.0	50.0	10000	2800		2000	2.5	
*Applied through plate coupling resistor of 250000 ohms. †Two grids tied together. ‡Maximum.											
CLASS A AMPLIFIER	135	-20.0	135	5.7	4000	1125	4.5		11000	0.17	C-49
	180	-40.0	180	7.0	2000	1900	3.8		4600	1.6	
	400	-84.0	400	18.0	2100	2100	3.8		4350	4.6	CX-350
	450	-84.0	450	18.0	2100	2100	3.8		4350	4.6	
CLASS B AMPLIFIER	250	0	0	0	0	0	0		8000	8.0	C-53
	300	0	0	0	0	0	0		8000	8.0	
TRIODE UNIT AS CLASS A AMPLIFIER	135	-10.5	135	3.7	11000	750	3		3500	0.075	C-55
	180	-13.5	180	6.0	8500	975	3		3000	0.100	
	250	-20.0	250	8.0	7500	1100	8.3		2000	0.350	
CLASS A AMPLIFIER	250	-13.5	250	5.0	9500	1450	13.8		2000	0.350	C-56
BIAS DETECTOR	250	-20.0	250	5.0	9500	1450	13.8		2000	0.350	
SCREEN GRID R-F AMPLIFIER	250	-3.0	100	0.5	2.0	exceeds 1.5 meg.	1500		exceeds 1500		C-57
BIAS DETECTOR	250	-3.9	100	0.97 ma.	0.97 ma.	exceeds 1.5 meg.	1500		exceeds 1500		
SCREEN GRID R-F AMPLIFIER	250	-3.0	100	0.5	2.0	exceeds 1.5 meg.	1500		exceeds 1500		C-58
MIXER IN SUPERHETERODYNE	250	-10.0	100	2.0	8.2	800000	1600		1280		
CLASS A AMPLIFIER	250	-28.0	250	26.0	2400	2600	6.0		5000	1.25	C-59
CLASS A AMPLIFIER	250	-18.0	250	9.0	35.0	40000	2500		6000	3.00	
CLASS A AMPLIFIER	300	0	0	0	0	0	0		4600	15.0	C-71-A
CLASS A AMPLIFIER	400	0	0	0	0	0	0		6000	20.0	
TRIODE UNIT AS SCREEN GRID R-F AMPLIFIER	100	-1.5	60	0.4	1.7	650000	1100		715		C-75
	250	-3.0	100	0.7	2.3	1300000	2250		1500		
BIAS DETECTOR	250	-1.95	50	0.65	0.65	1300000	2250		1500		
SCREEN GRID R-F AMPLIFIER	90	1.5	5.4	315000	1775	400			400		C-77
	180	7.5	4.0	100000	1450	900			900		
	250	10.0	2.0	7.0	8500	1160			1160		
	250	125	3.0	10.5	600000	1650			990		C-78
†† Grid #1 is control grid. Grid #2 is screen. Grid #3 is tied to cathode. ††† Two grids tied together. †††† Grid #1 is control grid. Grid #2 is screen. Grid #3 is tied to plate. ††††† Applied through plate coupling resistor of 250000 ohms. †††††† Grids #1 and #2 connected together. Grid #3 tied to plate. ††††††† Grid #3 tied to plate. †††††††† Grid #3 tied to plate. ††††††††† Grid #3 tied to plate.											

# Radio Tube Chart (Continued) ← RCA Radiotron-Cunningham → Radio Tube Chart (Continued)

TYPE	NAME	BASE	SOCKET CONNECTIONS	DIMENSIONS		CATHODE TYPE	RATING	
				MAXIMUM OVERALL LENGTH X DIAMETER	MAX. VOLTS		SCREEN VOLTS	FILAMENT OR HEATER
RCA-79	TWIN-TRIODE AMPLIFIER	SMALL 6-PIN	FIG. 19	4 1/2" x 1 1/8"	HEATER	6.3	0.6	250
RCA-85	DUPLEX TRIODE	SMALL 6-PIN	FIG. 13	4 1/2" x 1 1/8"	HEATER	6.3	0.3	250
RCA-89	TRIPLE-GRID POWER AMPLIFIER	SMALL 6-PIN	FIG. 14	4 1/2" x 1 1/8"	HEATER	6.3	0.4	250
UX-199	DETECTOR-AMPLIFIER TRIODE	SMALL 4-PIN	FIG. 10	3 1/2" x 1 1/8"	D-C FILAMENT	3.3	0.063	90
UX-199	AMPLIFIER TRIODE	SMALL 4-PIN	FIG. 1	4" x 1 1/8"	D-C FILAMENT	1.1	0.25	135

\*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.

TYPE	NAME	BASE	SOCKET CONNECTIONS	DIMENSIONS		CATHODE TYPE	RATING	
				MAXIMUM OVERALL LENGTH X DIAMETER	MAX. VOLTS		SCREEN VOLTS	FILAMENT OR HEATER
RCA-523	FULL-WAVE RECTIFIER	MEDIUM 4-PIN	FIG. 2	5 3/8" x 2 1/8"	FILAMENT	5.0	3.0	—
RCA-1223	HALF-WAVE RECTIFIER	SMALL 4-PIN	FIG. 22	4 1/2" x 1 3/8"	HEATER	12.6	0.3	—
RCA-2525	RECTIFIER-DETECTOR	SMALL 6-PIN	FIG. 5	4 1/2" x 1 3/8"	HEATER	25.0	0.3	—
RCA-1-v°	RECTIFIER	SMALL 4-PIN	FIG. 22	4 1/2" x 1 3/8"	HEATER	6.3	0.3	—
RCA-80	FULL-WAVE RECTIFIER	MEDIUM 4-PIN	FIG. 2	4 1/2" x 1 1/8"	FILAMENT	5.0	2.0	—
UX-281	HALF-WAVE RECTIFIER	MEDIUM 4-PIN	FIG. 3	6 1/2" x 2 1/8"	FILAMENT	7.5	1.25	—
RCA-82	FULL-WAVE RECTIFIER	MEDIUM 4-PIN	FIG. 2	4 1/2" x 1 3/8"	FILAMENT	2.5	3.0	—
RCA-83	FULL-WAVE RECTIFIER	MEDIUM 4-PIN	FIG. 2	5 3/8" x 2 1/8"	FILAMENT	5.0	3.0	—
RCA-84	RECTIFIER	SMALL 6-PIN	FIG. 23	4 1/2" x 1 3/8"	HEATER	6.3	0.5	—
RCA-866	RECTIFIER	MEDIUM 4-PIN	FIG. 3 See Note E	6 3/8" x 2 1/8"	FILAMENT	2.5	5.0	—

° Mercury Vapor Type. ° Interchangeable with type 1.  
 E Plate connection made to top cap of tube.

TYPE	NAME	BASE	SOCKET CONNECTIONS	DIMENSIONS		CATHODE TYPE	RATING	
				MAXIMUM OVERALL LENGTH X DIAMETER	MAX. VOLTS		SCREEN VOLTS	FILAMENT OR HEATER
RCA-968	PHOTOTUBE	SMALL 4-PIN	FIG. 1 See Note	4 1/8" x 1 1/8"	FILAMENT	5.0	3.0	—

CATHODE VOLTS	POWER AMPLIFIERS		CONVERTERS IN SUPERHETERODYNES	
	Including Duplex-Diode Types	Other	Including Duplex-Diode Types	Other
1.1	11, 12, 864	—	—	—
1.5	26	—	—	—
2.0	19, 31, 33, 49	1A6	—	—
2.5	2A3, 2A5, 45, 46, 47, 53, 55	2A7	—	—
3.0	20	—	—	—
5.0	112-A, 71-A	—	—	—
6.0	6A4, 38, 41, 42, 79, 89	6A7, 6F7	—	—
7.5	10, 50	—	—	—
12.6	43	—	—	—
30.0	48	—	—	—

## PHOTOTUBES

Note: Pins No. 1 and No. 3—No Connections, Pin No. 2—Anode (+), Pin No. 4—Cathode (-).

TYPE	USE	PLATE SUPPLY VOLTS	GRID VOLTS	SCREEN VOLTS	SCREEN MILLI-AMP.	PLATE MILLI-AMP.	A-C PLATE RESISTANCE OHMS	MUTUAL INDUCTANCE MHOS	VOLT-AMPLIFICATION FACTOR	LOAD FOR STATED POWER OUTPUT OHMS	POWER OUTPUT WATTS
C-79	CLASS B AMPLIFIER	180	0	—	—	—	—	—	—	7000	5.5
	CLASS A AMPLIFIER	250	—	—	—	—	—	—	—	14000	8.0
C-85	TRIODE UNIT AS CLASS A AMPLIFIER	135	-10.5	—	—	—	—	—	—	25000	0.075
	CLASS A AMPLIFIER	180	-13.5	—	—	—	—	—	—	20000	0.160
C-89	AS TRIODE CLASS A AMPLIFIER	160	-20.0	—	—	—	—	—	—	7000	0.300
	AS PENTODE CLASS A AMPLIFIER	200	-31.0	—	—	—	—	—	—	10700	0.330
C-299	CLASS A AMPLIFIER	90	-4.5	—	—	—	—	—	—	—	—
	CLASS A AMPLIFIER	135	-9.0	—	—	—	—	—	—	—	—

Power output value is for one tube at stated load, plate-to-plate.  
 † Grid #1 is control grid. Grid #2 is screen. Grid #3 tied to cathode.  
 ‡ Grid #1 and #2 connected together. Grid #3 tied to plate.  
 § Grids #1 and #2 connected together. Grid #3 tied to plate.

RECTIFIERS	
Maximum A-C Voltage per Plate	500 Volts, RMS
Maximum D-C Output Current	500 Milliamperes
Maximum A-C Voltage per Plate	250 Volts, RMS
Maximum D-C Output Current	60 Milliamperes
Maximum A-C Voltage per Plate	225 Volts, RMS
Maximum D-C Output Current	100 Milliamperes
Maximum A-C Voltage per Plate	350 Volts, RMS
Maximum D-C Output Current	50 Milliamperes
A-C Voltage per Plate (Volts RMS)	350 400 550
D-C Output Current (Maximum mA)	125 110 135
The 550 volt rating applies to filter circuits having an input choke of at least 20 henries.	
Maximum A-C Plate Voltage	700 Volts, RMS
Maximum D-C Output Current	85 Milliamperes
Maximum A-C Voltage per Plate	500 Volts, RMS
Maximum D-C Output Current	195 Milliamperes
Maximum A-C Voltage per Plate	500 Volts, RMS
Maximum D-C Output Current	250 Milliamperes
Maximum A-C Voltage per Plate	225 Volts, RMS
Maximum D-C Output Current	50 Milliamperes
Maximum Peak Inverse Voltage	700 Volts
Maximum Peak Plate Current	0.6 Ampere

## PHOTOTUBES

Max. Anode Supply Voltage, 90 Volts. Max. Anode Current, 20 Microamperes.  
 Static Sensitivity, 55 Microamperes per Lumen.  
 Dynamic Sensitivity, 50 and 48 Microamperes per Lumen at 1000 and 5000 Cycles per second, respectively.

INDEX OF TYPES BY USE AND BY CATHODE VOLTAGE			
CATHODE VOLTS	POWER AMPLIFIERS		CONVERTERS IN SUPERHETERODYNES
	Including Duplex-Diode Types	Other	Including Duplex-Diode Types
1.1	11, 12, 864	—	—
1.5	26	—	—
2.0	19, 31, 33, 49	1A6	—
2.5	2A3, 2A5, 45, 46, 47, 53, 55	2A7	—
3.0	20	—	—
5.0	112-A, 71-A	—	—
6.0	6A4, 38, 41, 42, 79, 89	6A7, 6F7	—
7.5	10, 50	—	—
12.6	43	—	—
30.0	48	—	—

## INDEX OF TYPES BY USE AND BY CATHODE VOLTAGE

CATHODE VOLTS	DETECTORS		MIXER TUBES IN SUPERHETERODYNES		RECTIFIERS
	Including Duplex-Diode Types	Other	Including Duplex-Diode Types	Other	
1.1	11, 12, 864	—	—	—	—
1.5	26	—	—	—	—
2.0	19, 31, 33, 49	1A6, 34	—	—	—
2.5	2A3, 2A5, 45, 46, 47, 53, 55	2A7, 35, 58	—	—	—
3.0	20	—	—	—	—
5.0	112-A, 71-A	—	—	—	—
6.0	6A4, 38, 41, 42, 79, 89	6A7, 6F7, 39-44, 78	—	—	—
7.5	10, 50	—	—	—	—
12.6	43	—	—	—	—
30.0	48	—	—	—	—

