

RCA **POWER** and **SPECIAL TUBES**

TRANSMITTING TUBES • Air-Cooled, Forced-Air-Cooled, Water-Cooled • **VOLTAGE-REGULATOR TUBES** • **THYRATRONS** • **CATHODE-RAY TUBES** • **RECTIFIERS** • **PHOTOTUBES**

(FORM TT-100)

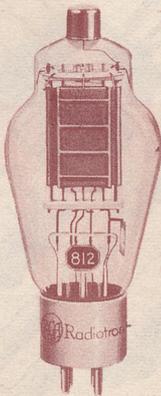
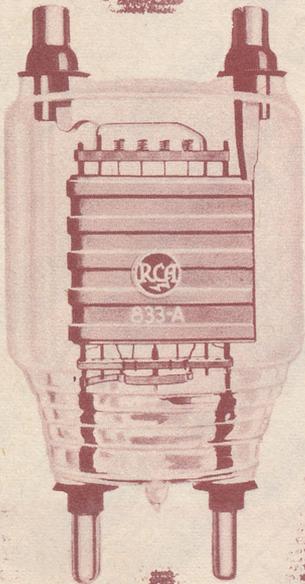
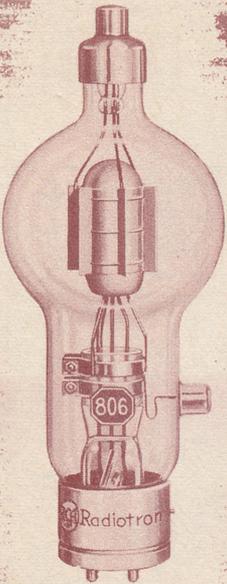


RCA VICTOR DIVISION

RADIO CORPORATION OF AMERICA

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AIR-COOLED TRANSMITTING TUBES



Type	Description	Max. Plate Dissipation Watts	Max. Dimensions Inches	
			Length	Diam.
TRIODES				
203-A	R-F Power Amplifier, Class B Modulator. $\mu = 25$	100	7 $\frac{7}{8}$	2 $\frac{5}{16}$
204-A	R-F Power Amplifier, Class B Modulator. $\mu = 23$	250	14 $\frac{3}{8}$	4 $\frac{1}{16}$
211	R-F Power Amplifier, Class B Modulator. $\mu = 12$	100	7 $\frac{7}{8}$	2 $\frac{5}{16}$
800	R-F Power Amplifier, Class B Modulator. $\mu = 15$	35	6 $\frac{3}{8}$	2 $\frac{11}{16}$
801-A	R-F and A-F Power Amplifier, Class B Modulator. Full input to 60 Mc	20	5 $\frac{3}{8}$	2 $\frac{1}{16}$
805	R-F Power Amplifier, Zero-Bias Class B Modulator. High μ . Full input to 30 Mc.....	125	8 $\frac{1}{2}$	2 $\frac{5}{16}$
806	R-F Power Amplifier, Class B Modulator. Full input to 30 Mc.....	225 ^b	10	3 $\frac{13}{16}$
808	R-F Power Amplifier, Class B Modulator. $\mu = 47$. Full input to 30 Mc	50	6 $\frac{1}{16}$	2 $\frac{13}{16}$

For Sales Information on RCA Tubes, write to Tube & Equipment Dept.	For Technical Information Commercial Eng'g Section
RCA Victor Division RADIO CORPORATION OF AMERICA Camden, New Jersey	
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809	R-F Power Amplifier, Class B Modulator. $\mu = 50$. Full input to 60 Mc	30 ^b	6 $\frac{9}{16}$	2 $\frac{7}{16}$
810	R-F Power Amplifier, Class B Modulator. $\mu = 36$. Full input to 30 Mc	150 ^b	9 $\frac{1}{16}$	2 $\frac{1}{4}$ ♦
811	R-F Power Amplifier, Zero-Bias Class B Modulator. $\mu = 160$. Full input to 60 Mc.....	55 ^b	6 $\frac{9}{16}$	2 $\frac{7}{16}$
812	R-F Power Amplifier, Class B Modulator. $\mu = 29$. Full input to 60 Mc	55 ^b	6 $\frac{9}{16}$	2 $\frac{7}{16}$
826	U-H-F Power Amplifier, Oscillator. $\mu = 31$. Full input to 250 Mc.....	60	3 $\frac{11}{16}$	2 $\frac{3}{8}$
830-B	R-F Power Amplifier, Class B Modulator. $\mu = 25$	60	6 $\frac{11}{16}$	2 $\frac{1}{16}$
833-A	R-F Power Amplifier, Class B Modulator. Direct replacement for Type 833. Forced-air cooling required at higher inputs.....	450 ^b	8 $\frac{13}{16}$	4 $\frac{9}{32}$
834	U-H-F Power Amplifier. $\mu = 10.5$. Full input to 100 Mc.....	50	6 $\frac{7}{8}$	2 $\frac{11}{16}$
838	R-F Power Amplifier, Class B Modulator. Variable high μ	100	7 $\frac{7}{8}$	2 $\frac{5}{16}$
841	R-F Power Amplifier, Class B Modulator. $\mu = 30$	15	5 $\frac{5}{8}$	2 $\frac{3}{16}$
842	Class A Modulator. $\mu = 3$	12	5 $\frac{5}{8}$	2 $\frac{3}{16}$
843	R-F Power Amplifier, Class A Modulator. $\mu = 7.7$	15	5 $\frac{5}{8}$	2 $\frac{3}{16}$
845	Class A and AB ₁ Modulator. $\mu = 5.3$	100	7 $\frac{7}{8}$	2 $\frac{5}{16}$

For footnotes, see next page.

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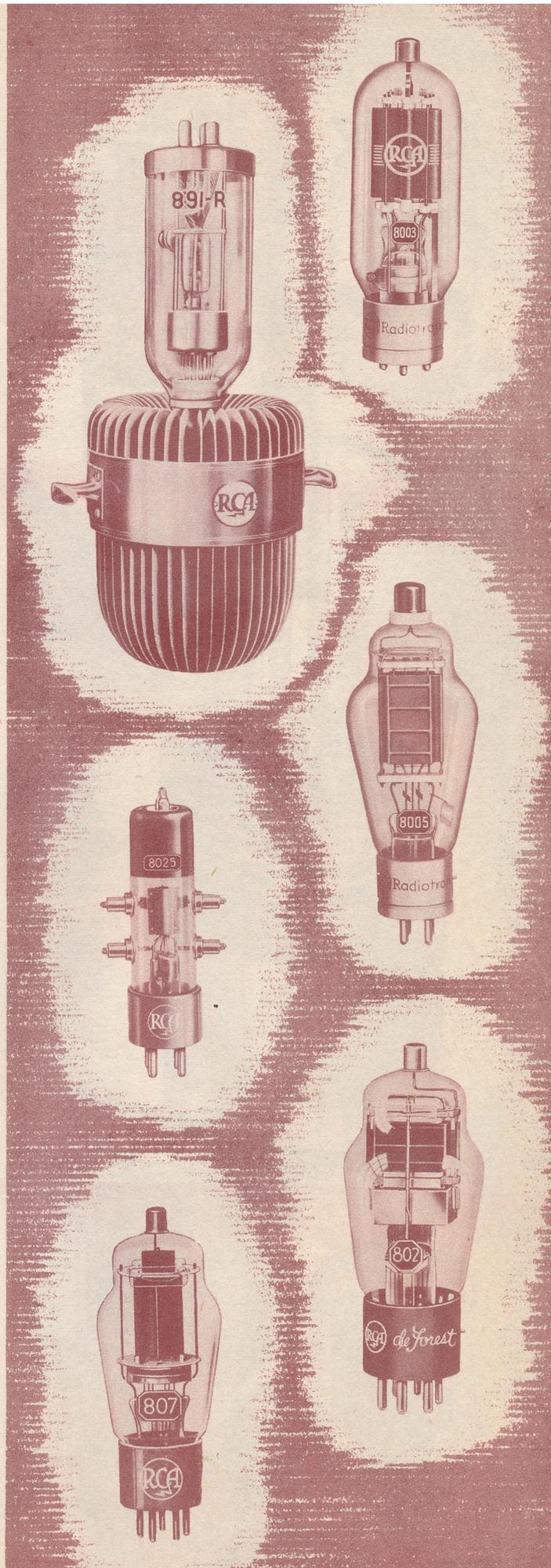
AIR-COOLED TRANSMITTING TUBES

Type	Description	Max. Plate Dissipation Watts	Max. Dimensions Inches Length	Max. Dimensions Inches Diam.
TRIODES (Cont'd)				
849	R-F Power Amplifier, Class A and B Modulator. $\mu = 19$	400	14 $\frac{3}{8}$	4 $\frac{1}{16}$
851	R-F Power Amplifier, Class A and B Modulator. $\mu = 20.5$	750	17 $\frac{5}{8}$	6 $\frac{1}{8}$
852	R-F Power Amplifier. $\mu = 12$	100	8 $\frac{3}{4}$	4 $\frac{1}{4}$ ♦
889-R	R-F Power Amplifier, Class B Modulator. $\mu = 21$. Radiator cooled	5000	11 $\frac{3}{4}$	5 $\frac{7}{16}$ ♦
891-R	R-F Power Amplifier, Class B Modulator. $\mu = 8$. Radiator cooled. Two-phase filament	4000	22	6 $\frac{1}{2}$ ♦
892-R	R-F Power Amplifier, Class B Modulator. $\mu = 50$. Radiator cooled. Two-phase filament	4000	22	6 $\frac{1}{2}$ ♦
893-R	R-F Power Amplifier, Class B Modulator. $\mu = 36$. Radiator cooled. Three-phase filament	20000	28 $\frac{1}{2}$	8 $\frac{3}{4}$ ♦
1608	R-F Power Amplifier, Class B Modulator. $\mu = 20$	20 ^b	5 $\frac{3}{8}$	2 $\frac{1}{16}$
1623	R-F Power Amplifier, Class B Modulator. Similar to Type 809 but has μ of 20.....	30 ^b	6 $\frac{9}{16}$	2 $\frac{7}{16}$
1626	Transmitting Triode, H-F Oscillator. $\mu = 5$	5	4 $\frac{1}{8}$	1 $\frac{9}{16}$
8000	Oscillator, R-F Power Amplifier, Class B Modulator. Similar to Type 810 but has μ of 16.5. Useful as self-rectifying oscillator in therapeutic applications	150	9 $\frac{1}{16}$	2 $\frac{1}{4}$ ♦
8003	Oscillator, R-F Power Amplifier, Class B Modulator. $\mu = 12$. Useful as self-rectifying oscillator in therapeutic applications.....	100	8 $\frac{1}{2}$	2 $\frac{9}{16}$
8005	R-F Power Amplifier, Class B Modulator. $\mu = 20$. Useful as self-rectifying oscillator in therapeutic applications	85 ^b	6 $\frac{11}{16}$	2 $\frac{7}{16}$
8012	U-H-F Power Amplifier, Oscillator. Full input to 500 Mc. $\mu = 18$. Supersedes Type 1628.....	40	3 $\frac{15}{16}$	1 $\frac{3}{16}$ ♦
8025	U-H-F Power Amplifier, Oscillator. Full input to 500 Mc. Similar to Type 8012 but has filament base, and grid and plate caps.....	40	4 $\frac{15}{16}$	1 $\frac{5}{16}$ ♦

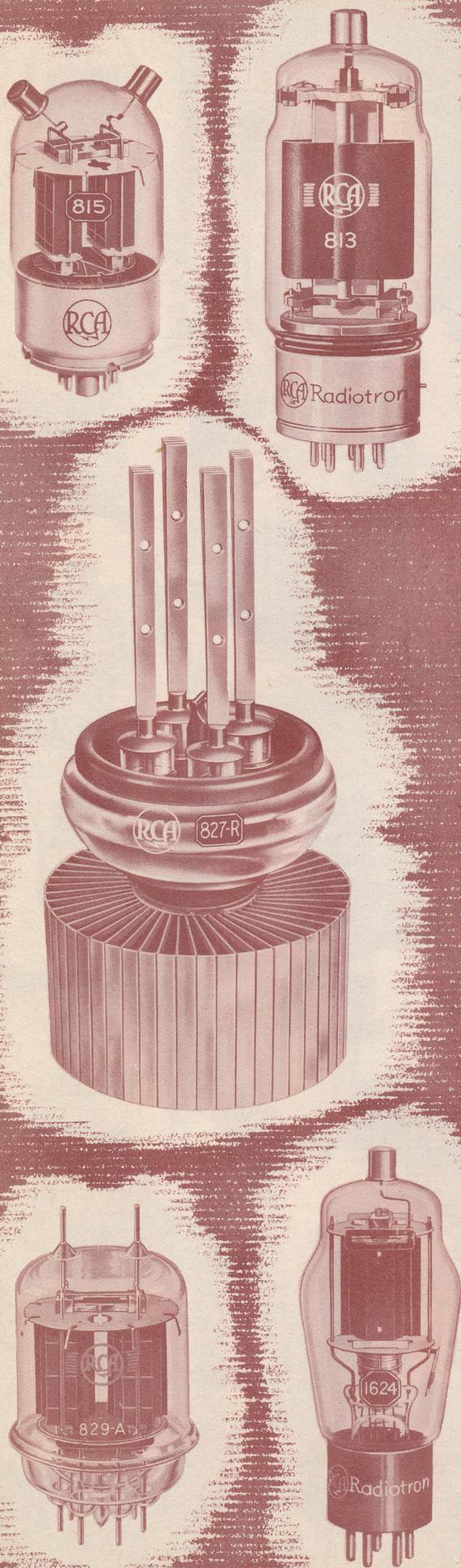
TETRODES, PENTODES, BEAM POWER TUBES

802	R-F Power Amplifier, Class A Modulator, Doubler, Crystal and Electron-Coupled Oscillator. Pentode Type. Easy to drive.....	13 ^b	5 $\frac{3}{4}$	2 $\frac{1}{16}$
803	R-F Power Amplifier. Pentode Type. Excellent as suppressor-modulated amplifier. High power sensitivity	125	9 $\frac{3}{8}$	2 $\frac{9}{16}$
804	R-F Power Amplifier. Pentode Type. Excellent as suppressor-modulated amplifier. Easy to drive	50 ^b	7 $\frac{3}{4}$	2 $\frac{1}{16}$
807	R-F Power Amplifier, Class AB ₂ Modulator, Doubler, Crystal Os-			

♦ Maximum radius. b ICAS rating.



AIR-COOLED TRANSMITTING TUBES



Type	Description	Max. Plate Dissipation Watts	Length Inches	Max. Dimensions Inches Diam.
TETRODES, PENTODES, BEAM POWER TUBES (Cont'd)				
	illator. Beam Power Type. Full input to 60 Mc. Easy to drive.....	30 ^b	5 ³ / ₄	2 ¹ / ₁₆
813	R-F Power Amplifier, Doubler, Crystal Oscillator. Beam Power Type. High power sensitivity.....	100	7 ¹ / ₂	2 ⁹ / ₁₆
814	R-F Power Amplifier, Doubler, Crystal Oscillator. Beam Power Type. High power sensitivity.....	65 ^b	7 ³ / ₄	2 ¹ / ₁₆
815	Push-Pull R-F Power Amplifier, Class AB ₂ Modulator, Frequency Multiplier. Beam Power Type. Exceptional efficiency at the higher frequencies. Full input to 150 Mc	25 ^b	4 ⁹ / ₁₆	2 ³ / ₈
827-R	R-F Power Amplifier Tetrode. Radiator cooled. Useful in frequency modulation and television transmitters. Full input to 110 Mc.....	800	6	4 ³ / ₂
828	R-F Power Amplifier, Class AB ₁ Modulator. Beam Power Type. Can deliver large audio power with low distortion.....	80 ^b	7 ³ / ₄	2 ¹ / ₁₆
829	Push-Pull R-F Power Amplifier. Beam Power Type. Exceptional efficiency with full input at frequencies as high as 200 Mc.....	40	4 ⁵ / ₁₆	2 ³ / ₈
829-A	Push-Pull R-F Power Amplifier. Beam Power Type. Exceptional efficiency with full input at frequencies as high as 200 Mc.....	40	4 ⁵ / ₁₆	2 ³ / ₈
832	Push-Pull R-F Power Amplifier. Beam Power Type. High power sensitivity. Full input to 200 Mc....	15	3 ⁷ / ₁₆	2 ³ / ₈
832-A	Push-Pull R-F Power Amplifier. Beam Power Type. High power sensitivity. Full input to 200 Mc..	15	3 ⁵ / ₁₆	2 ³ / ₈
837	R-F Power Amplifier. Pentode Type. Excellent as suppressor-modulated amplifier. Easy to drive	12	5 ⁷ / ₈	2 ¹ / ₁₆
850	R-F Power Amplifier Tetrode.....	100	8 ¹ / ₂	2 ⁵ / ₁₆
860	R-F Power Amplifier Tetrode.....	100	8 ³ / ₄	4 ¹ / ₂ ♦
861	R-F Power Amplifier Tetrode.....	400	17 ⁷ / ₃₂	6 ⁵ / ₈ ♦
865	R-F Power Amplifier Tetrode.....	15	5 ³ / ₄	2 ¹ / ₁₆
1610	Crystal Oscillator, Doubler. Pentode Type	6	5 ³ / ₈	2 ¹ / ₁₆
1613	R-F Power Amplifier, Crystal Oscillator, Doubler. Pentode Type. Metal construction	10	3 ¹ / ₄	1 ⁵ / ₁₆
1614	R-F Power Amplifier. Beam Power Type. Metal construction.....	21	4 ⁵ / ₁₆	1 ⁵ / ₈
1619	R-F Power Amplifier, Modulator. Beam Power Type. Metal construction; with filament-type cathode. Quick heating for fast off-on operation	15	4 ⁵ / ₁₆	1 ⁵ / ₈
1624	R-F Power Amplifier, Class AB ₂ Modulator. Beam Power Type. Filament-type cathode for fast off-on operation	25	5 ³ / ₄	2 ¹ / ₁₆

For footnotes, see next page.

AIR-COOLED TRANSMITTING TUBES

Type	Description	Max. Plate Dissipation Watts	Max. Dimensions Inches Length	Max. Dimensions Inches Diam.
TETRODES, PENTODES, BEAM POWER TUBES (Cont'd)				
1625	R-F Power Amplifier, Class AB ₂ Modulator, Frequency Multiplier. Beam Power Type. Similar to 807 but has 12.6-volt heater and 7-pin base. Especially useful in aircraft transmitters	30 ^b	5 ³ / ₄	2 ¹ / ₈
8001	R-F Power Amplifier, Modulator, Frequency Multiplier. Beam Power Type. Full input to 75 Mc. Low driving power. High power sensitivity	75	6 ⁷ / ₈	2 ¹ / ₈

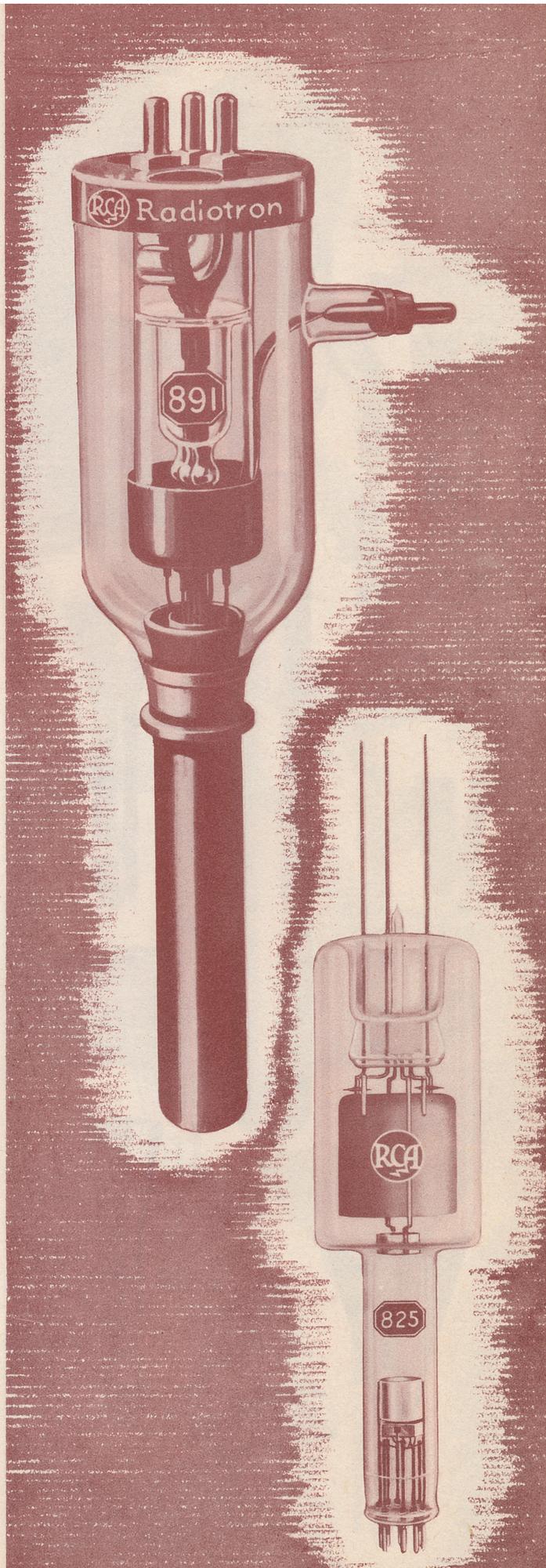
The following special list identifies transmitting tubes particularly suited for u-h-f operation at 100 Mc and above.

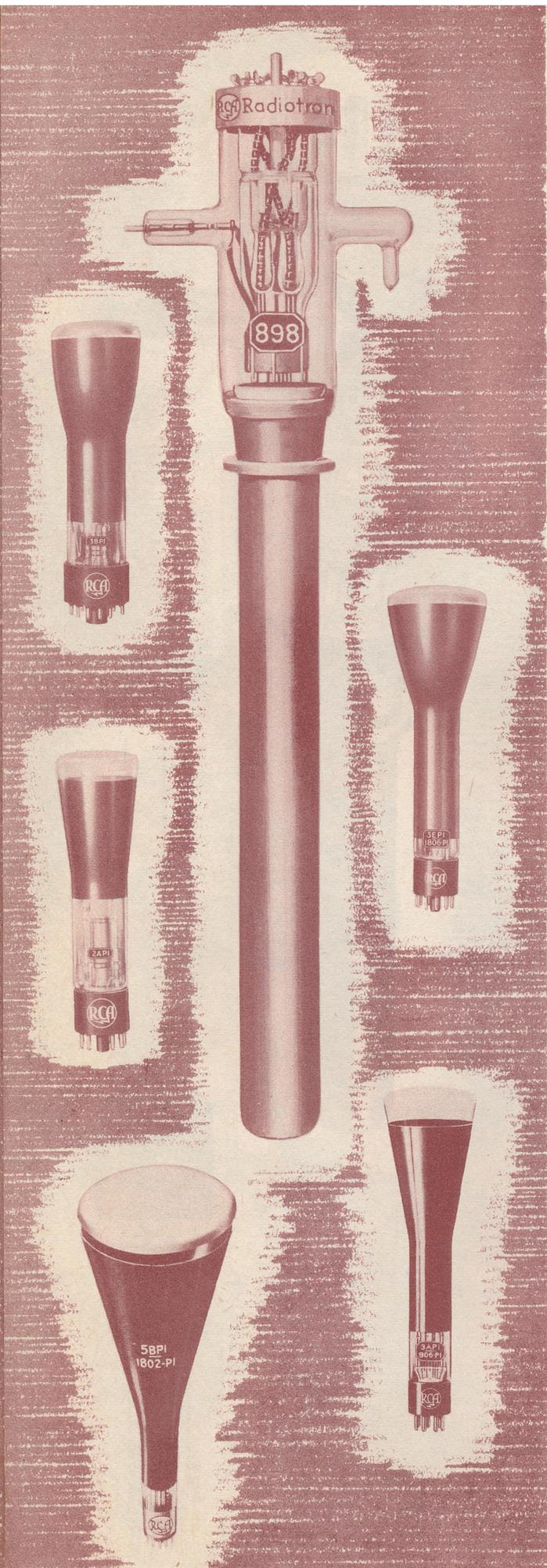
815	See TETRODES, PENTODES, BEAM POWER TUBES.
825	U-H-F Power Amplifier. For use above 300 Mc especially in television, frequency-modulation, and other wide-band services. Max. d-c collector volts, 2000; max. d-c collector input watts, 100; max. collector dissipation, 50 watts. Typical power output watts in class C telegraphy, 35. Heater: 6.3 volts, 0.75 ampere. Max. length, 8 ³ / ₄ inches; max. diameter, 2 ¹ / ₈ inches.
826	See AIR-COOLED TRIODES.
827-R	See TETRODES, PENTODES, BEAM POWER TUBES.
829 } 829-A }	See TETRODES, PENTODES, BEAM POWER TUBES.
832 } 832-A }	See TETRODES, PENTODES, BEAM POWER TUBES.
834	See AIR-COOLED TRIODES.

WATER-COOLED TRANSMITTING TUBES

Type	Description	Max. Plate Dissipation Watts	Max. Dimensions Inches Length	Max. Dimensions Inches Diam.
TRIODES				
207	R-F Power Amplifier, Class B Modulator. $\mu = 20$	10000	20 ¹ / ₄	6 ¹ / ₂ ♦
846	R-F Power Amplifier, Class B Modulator. $\mu = 40$. Full input to 50 Mc	2500	9 ¹ / ₂	3 ³ / ₈ ♦
858	R-F Power Amplifier, Class B Modulator. $\mu = 42$	20000	24 ¹ / ₂	7 ¹ / ₂ ♦
862	R-F Power Amplifier, Class B Modulator. $\mu = 48$	100000	60 ³ / ₈	10 ♦
880	R-F Power Amplifier, Class B Modulator. $\mu = 20$	20000	11 ¹ / ₂	7
889	R-F Power Amplifier, Class B Modulator. $\mu = 21$. Full input to 50 Mc	5000	10 ⁵ / ₈	3 ⁵ / ₈
891	R-F Power Amplifier, Class A and B Modulator. $\mu = 8$. Two-phase filament. Supersedes Type 848....	6000	20 ⁵ / ₈	6 ¹ / ₂ ♦
892	R-F Power Amplifier, Class B Modulator. $\mu = 50$. Two-phase filament. Supersedes Type 863.....	10000	20 ⁵ / ₈	6 ¹ / ₂ ♦

♦ Maximum radius. b ICAS rating.





WATER-COOLED TRANSMITTING TUBES

Type	Description	Max. Plate Dissipation Watts	Max. Dimensions Inches Length	Max. Dimensions Inches Diam.
TRIODES (Cont'd)				
893	R-F Power Amplifier, Class B Modulator. $\mu = 36$. Three-phase filament	20000	26 $\frac{3}{4}$	6 $\frac{3}{8}$ ♦
898	R-F Power Amplifier, Class B Modulator. $\mu = 45$. Three-phase filament	100000	60 $\frac{3}{8}$	10 ♦

CATHODE-RAY TUBES

FOR TELEVISION AND OSCILLOGRAPH USES

Type	Description	Max. Anode Volts*	Max. Dimensions Inches Length	Max. Dimensions Inches Diam.
2AP1	2-inch screen having medium persistence and green fluorescence. Four electrostatic deflecting electrodes with four terminals. Sensitivity of electrodes near gun = 0.13 mm/volt d.c. Magnal 11-pin base	1100	7 $\frac{5}{8}$	2 $\frac{1}{8}$
3AP1/906-P1	3-inch screen having medium persistence and green fluorescence. Four electrostatic deflecting electrodes with three terminals. Sensitivity of electrodes near gun = 0.23 mm/volt d.c. Medium 7-pin base	1650	11 $\frac{7}{8}$	3 $\frac{1}{8}$
3AP4/906-P4	Same as 3AP1/906-P1 except that it has white fluorescence.			
3BP1	3-inch screen having medium persistence and green fluorescence. Four electrostatic deflecting electrodes with four terminals. Sensitivity of electrodes near gun = 0.155 mm/volt d.c. Diheptal 12-pin base	2200	10 $\frac{1}{4}$	3 $\frac{1}{8}$
3EP1/1806-P1	3-inch screen having medium persistence and green fluorescence. Four electrostatic deflecting electrodes with four terminals. Sensitivity of electrodes near gun = 0.154 mm/volt d.c. Magnal 11-pin base	2200	10 $\frac{3}{8}$	3 $\frac{1}{8}$
5AP4/1805-P4	5-inch screen having medium persistence and white fluorescence. Short bulb. Four electrostatic deflecting electrodes with four terminals. Sensitivity of electrodes near gun = 0.21 mm/volt d.c. Magnal 11-pin base	2200	13 $\frac{3}{8}$	5 $\frac{5}{8}$
5BP1/1802-P1	5-inch screen having medium persistence and green fluorescence. Four electrostatic deflecting electrodes with four terminals. Sensitivity of electrodes near gun = 0.33 mm/volt d.c. Magnal 11-pin base	2200	17 $\frac{1}{8}$	5 $\frac{5}{8}$
5BP4/1802-P4	Same as 5BP1/1802-P1 except that it has white fluorescence.			
5CP1	5-inch screen having medium persistence and green fluorescence. Four electrostatic deflecting elec-			

For footnotes, see next page.

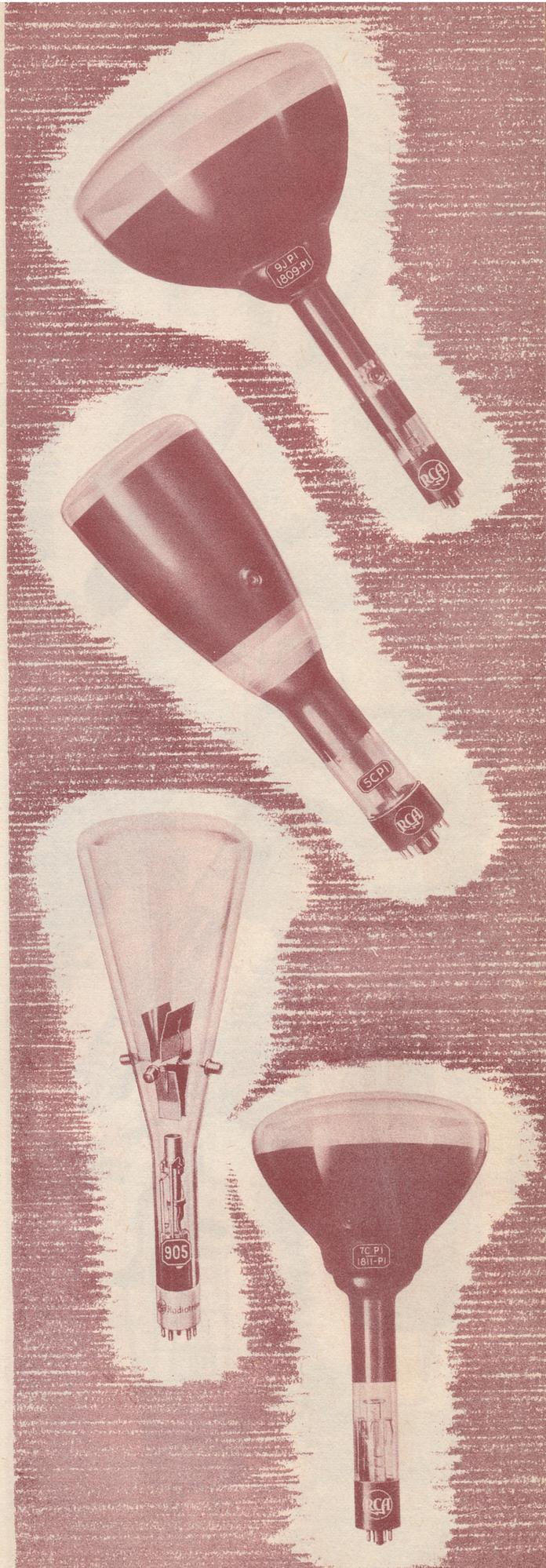
CATHODE-RAY TUBES

FOR TELEVISION AND OSCILLOGRAPH USES

Type	Description	Max. Anode Volts*	Max. Dimensions Inches	
			Length	Diam.
	trodes with four terminals. Sensitivity of electrodes near gun = 0.34 mm/volt d.c. Diheptal 12-pin base	4400	17 $\frac{1}{8}$	5 $\frac{1}{2}$
5CP4	Same as 5CP1 except that it has white fluorescence.			
5HP1	Same as 5BP1/1802-P1 except that it has Micanol base.			
5HP4	Same as 5BP1/1802-P1 except that it has white fluorescence and Micanol base.			
7AP4	7-inch screen having medium persistence and white fluorescence. Short bulb. Magnetic deflection. Medium 5-pin base.....	3850	13 $\frac{7}{8}$	7 $\frac{1}{8}$
7CP1/ 1811-P1	7-inch screen having medium persistence and green fluorescence. Short bulb. Magnetic deflection. Octal 8-pin base.....	7700	13 $\frac{3}{16}$	7 $\frac{1}{8}$
9AP4/ 1804-P4	9-inch screen having medium persistence and white fluorescence. Magnetic deflection. Medium 6-pin base	7700	21 $\frac{3}{8}$	9 $\frac{1}{8}$
9JP1/ 1809-P1	9-inch screen having medium persistence and green fluorescence. Magnetic and electrostatic deflection. Sensitivity of electrostatic deflecting electrodes = 0.136 mm/volt d.c. Octal 8-pin base.....	5500	16 $\frac{1}{16}$	9 $\frac{1}{8}$
12AP4/ 1803-P4	12-inch screen having medium persistence and white fluorescence. Magnetic deflection. Medium 6-pin base.....	7700	25 $\frac{3}{8}$	12 $\frac{3}{16}$
902	2-inch screen having medium persistence and green fluorescence. Four electrostatic deflecting electrodes with three terminals. Sensitivity of electrodes near gun = 0.22 mm/volt d.c. Octal 8-pin base	660	7 $\frac{5}{8}$	2 $\frac{1}{16}$
904	5-inch screen having medium persistence and green fluorescence. Magnetic and electrostatic deflection. Sensitivity of electrostatic deflecting electrodes = 0.09 mm/volt d.c. Medium 6-pin base.....	5500	16 $\frac{5}{8}$	5 $\frac{1}{16}$
905	5-inch screen having medium persistence and green fluorescence. Four electrostatic deflecting electrodes with four terminals. Sensitivity of electrodes near gun = 0.23 mm/volt d.c. Medium 5-pin Micanol base	2200	16 $\frac{7}{8}$	5 $\frac{1}{16}$
907	Same as 905 except that it has short persistence and blue fluorescence.			
908	Same as 3AP1/906-P1 except that it has short persistence and blue fluorescence.			

◆ Maximum radius.

* To facilitate comparison between types, all values are given on an absolute-maximum basis



CATHODE-RAY TUBES

FOR TELEVISION AND OSCILLOGRAPH USES

Type	Description	Max. Anode Volts*	Max. Dimensions Inches	
			Length	Diam.
912	5-inch screen having medium persistence and green fluorescence. Four electrostatic deflecting electrodes with four terminals. Sensitivity of electrodes near gun = 0.034 mm/volt d.c. Medium 5-pin base	16500	18 $\frac{5}{16}$	5 $\frac{5}{16}$
913	1-inch screen having medium persistence and green fluorescence. Four electrostatic deflecting electrodes with three terminals. Sensitivity of electrodes near gun = 0.10 mm/volt d.c. Octal 8-pin base	550	4 $\frac{3}{4}$	1 $\frac{5}{8}$
914	9-inch screen having medium persistence and green fluorescence. Four electrostatic deflecting electrodes with four terminals. Sensitivity of electrodes near gun = 0.093 mm/volt d.c. Medium 6-pin base	7700	21 $\frac{7}{8}$	9 $\frac{3}{8}$
1840	Orthicon for direct and film pick-up camera. Electrostatic deflection. Magnetic Focus. Octal 8-pin base	330	18 $\frac{1}{2}$	4 $\frac{1}{16}$
1847	Iconoscope for experimenters. Electrostatic deflection and focus. Octal 8-pin base.....	660	7 $\frac{5}{8}$	2 $\frac{1}{16}$
1848	Iconoscope for portable television camera. Magnetic deflection. Electrostatic focus. Octal 8-pin base	1320	2 $\frac{1}{4}$ x 3 Mosaic	
1849	Iconoscope for film pick-up camera. Magnetic deflection. Electrostatic focus. Medium 6-pin ceramic base	1320	3 $\frac{9}{16}$ x 4 $\frac{3}{4}$ Mosaic	
1850	Same as 1849 except that it is for direct pick-up camera.			
1898	Monoscope for generating test pattern. Three-inch size. Electrostatic deflection and focus. Medium 7-pin base.....	1320	12 $\frac{1}{4}$	3 $\frac{1}{16}$
1899	Monoscope for generating test pattern. Five-inch size. High resolution capability. Magnetic deflection. Electrostatic focus. Medium 6-pin base.....	1650	14 $\frac{3}{16}$	5 $\frac{1}{16}$

RECTIFIERS

FOR POWER TUBES AND CATHODE-RAY TUBES

Type	Description★★	Max. Peak Inverse Volts	Max. Peak Plate Amp.	Max. D-C Output Amp.	Condensed Mercury Temp. Range °C	Max. Dimensions Inches	
						Length	Diam.
2V3-G	High - Vacuum. F: 2.5 volts, 5 amp. Octal 6-pin base	16500	0.012	0.002	—	4 $\frac{1}{2}$	1 $\frac{9}{16}$
2X2/879	High - Vacuum. H: 2.5 volts, 1.75 amp. Small 4-pin base	12500	0.1	0.0075	—	4 $\frac{1}{2}$	1 $\frac{9}{16}$

For footnotes, see next page.



RECTIFIERS

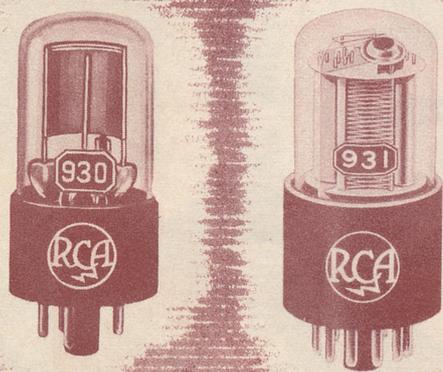
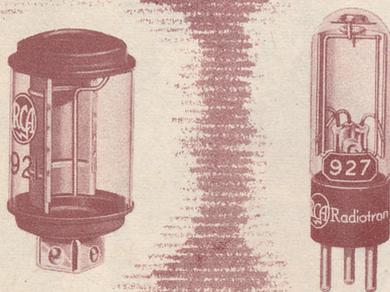
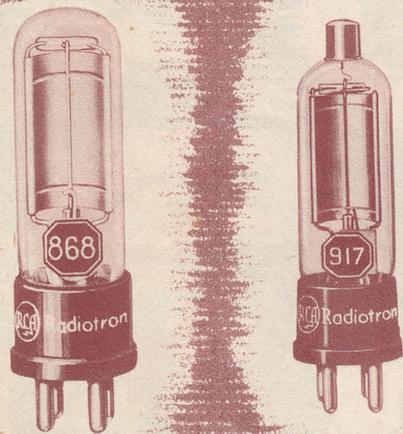
FOR POWER TUBES AND CATHODE-RAY TUBES

Type	Description★★	Max. Peak Inverse Volts	Max. Peak Plate Amp.	Max. D-C Output Amp.	Condensed Mercury Temp. Range °C	Max. Dimensions Inches Length	Max. Dimensions Inches Diam.
4B26/ 2000	Gas Type. F: 2.2 volts, 18 amp. D-c output volts, 90....	375	—	6	—	7	3 ³ / ₁₆
217-A	High - Vacuum. F: 10 volts, 3.25 amp. Jumbo 4-pin base	3500	0.6	0.200	—	7 ⁷ / ₈	2 ⁵ / ₁₆
217-C	High - Vacuum. F: 10 volts, 3.25 amp. Jumbo 4-pin base	7500	0.6	0.150	—	8 ¹ / ₂	2 ⁵ / ₁₆
816	Mercury-Vapor. F: 2.5 volts, 2 amp. Small 4-pin base	5000	0.5	0.125	20-60	4 ¹¹ / ₁₆	1 ⁹ / ₁₆
836	High - Vacuum. H: 2.5 volts, 5 amp. Medium 4-pin bayonet base	5000	1.0	0.25	—	6 ⁹ / ₁₆	2 ⁷ / ₁₆
857-B	Mercury-Vapor. F: 5 volts, 30 amp. Forced-air cooling. Supersedes Type 857	{ 10000 22000	{ 40 40	{ 10 10	{ 25-65 30-40	19 ⁷ / ₈	7 ¹ / ₈
866-A/ 866	Mercury-Vapor. F: 2.5 volts, 5 amp. Supersedes Types 866 and 866-A. Medium 4-pin bayonet base.....	10000	1.0	0.25	25-60	6 ⁵ / ₈	2 ⁷ / ₁₆
869-B	Mercury-Vapor. F: 5 volts, 18 amp. Supersedes Type 869-A	{ 10000 20000	{ 10 10	{ 2.5 2.5	{ 30-60 30-40	14 ⁷ / ₁₆	5 ¹ / ₁₆
870-A	Mercury-Vapor. H: 5 volts, 65 amp. Supersedes Type 870	{ 7500 16000	{ 450 450	{ 75 75	{ 35-50 35-40	46 ³ / ₄	5 ⁹ / ₁₆
872-A/ 872	Mercury-Vapor. F: 5 volts, 7.5 amp. Supersedes Types 872 and 872-A. Jumbo 4-pin base	{ 5000 10000	{ 5 5	{ 1.25 1.25	{ 20-70 20-60	8 ¹ / ₂	2 ⁵ / ₁₆
878	High - Vacuum. F: 2.5 volts, 5 amp. Medium 4-pin base.....	20000	0.02	0.005	—	7 ⁵ / ₈	1 ¹³ / ₁₆
1616	High - Vacuum. F: 2.5 volts, 5 amp. Medium 4-pin bayonet base	5500	0.8	0.130	—	6 ¹¹ / ₁₆	2 ¹ / ₁₆

* To facilitate comparison between types, all values are given on an absolute-maximum basis.

★★ All of these types are half-wave rectifiers. F = filament; H = heater.





RECTIFIERS

FOR POWER TUBES AND CATHODE-RAY TUBES

Type	Description★★	Max. Peak Inverse Volts	Max. Peak Plate Amp.	Max. D-C Output Amp.	Condensed Mercury Temp. Range °C	Max. Dimensions Inches Length	Max. Dimensions Inches Diam.
8008	Mercury-Vapor. F: 5 volts, 7.5 amp. Super-Jumbo 4-pin base	5000 10000	5 5	1.25 1.25	20-70 20-60	8 ³ / ₄	2 ⁵ / ₁₆
8013-A	High - Vacuum. F: 2.5 volts, 5 amp. Medium 4-pin base.....	40000	0.15	0.020	—		
8016	High - Vacuum. F: 1.25 volts, 0.2 amp. Octal base	10000	0.0075	0.002	—	4 ¹ / ₈	1 ⁵ / ₁₆

PHOTOTUBES

Type	Description	Luminous Sensitivity Microamp./Lumen**	Max. Dimensions Inches Length	Max. Dimensions Inches Diam.
868	Gas Type. Sound reproduction.....	90	4 ¹ / ₈	1 ³ / ₁₆
917	Vacuum Type (Anode cap). Relays and measurements	20	4 ⁷ / ₁₆	1 ³ / ₁₆
918	Gas Type (High sensitivity). Sound reproduction	150	4 ¹ / ₈	1 ³ / ₁₆
919	Vacuum Type. (Cathode cap). Relays and measurements	20	4 ⁷ / ₁₆	1 ³ / ₁₆
920	Gas Twin Type. Sound reproduction	80#	4	1 ³ / ₁₆
921	Gas Type—Cartridge Style. Sound reproduction and relays.....	135	1 ³ / ₃₂	1 ⁵ / ₁₆
922	Vacuum Type—Cartridge Style. Relays and measurements.....	20	1 ³ / ₃₂	1 ⁵ / ₁₆
923	Gas Type (High sensitivity). Sound reproduction and relays. Superseded for new equipment by Type 930.....	135	3 ⁹ / ₁₆	1 ³ / ₁₆
924	Gas Type—End Style with Screw Base. Relays	55	2 ³ / ₁₆	1 ³ / ₁₆
925	Vacuum Type. Relays.....	15	2 ⁵ / ₈	1 ⁵ / ₁₆
926	Vacuum Type—Cartridge Style. Colorimetry	6.5	1 ³ / ₃₂	1 ⁵ / ₁₆
927	Gas Type—Miniature Size. Sound reproduction	125	2 ¹ / ₃₂	2 ³ / ₃₂
928	Gas Type—Non-directional Style. Relays	65	3 ⁹ / ₁₆	1 ³ / ₁₆
929	Vacuum Type (High sensitivity). Relays and measurements.....	45	3 ¹ / ₁₆	1 ⁵ / ₁₆
930	Gas Type (High sensitivity). Relays and sound reproduction.....	135	3 ¹ / ₁₆	1 ⁵ / ₁₆
931	Multiplier Type—9-stage electrically focused. Enormous sensitivity. Low noise level. Relays, sound reproduction, scientific research.....	2.3 x 10 ⁶	3 ¹ / ₁₆	1 ⁵ / ₁₆
934	Vacuum Type — Miniature Size. Sound reproduction	30	2 ¹ / ₃₂	2 ³ / ₃₂

For footnotes, see next page.

PHOTOTUBES

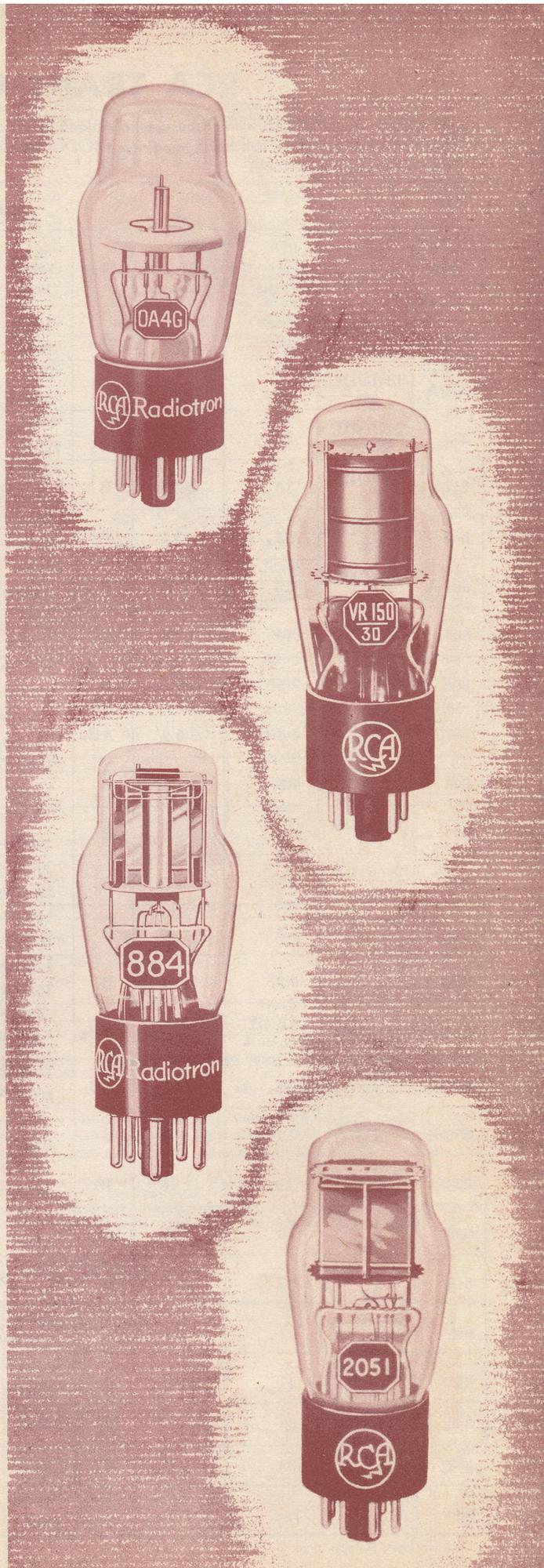
Type	Description	Luminous Sensitivity Microamp./ Lumen**	Max. Dimensions Inches	
			Length	Diam.
935	Vacuum Type (Anode cap). Measurement of ultraviolet absorption of gases and liquids.....	30	4 $\frac{1}{4}$	1 $\frac{5}{16}$

THYRATRONS, VOLTAGE REGULATORS

Type	Description	Max. Dimensions Inches	
		Length	Diam.
0A4-G	Gas-Triode of the cold-cathode type. For relay application. Peak cathode current, 100 ma. max.; d-c cathode current, 25 ma. max. A-c anode supply volts, 105 to 130. Octal base	4 $\frac{1}{8}$	1 $\frac{9}{16}$
1C21	Gas-Triode of the cold-cathode type. For relay applications. Peak cathode current, 100 ma. max.; d-c cathode current, 25 ma. max. D-c anode supply volts, 125 to 145. Octal base	2 $\frac{5}{8}$	1 $\frac{5}{16}$
VR75-30	Glow-Discharge Voltage Regulator. Cold-cathode type. Operating values: volts, 75; ma., 5 to 30. Octal base.....	4 $\frac{1}{8}$	1 $\frac{9}{16}$
VR105-30	Glow-Discharge Voltage Regulator. Cold-cathode type. Operating values: volts, 105; ma., 5 to 30. Octal base.....	4 $\frac{1}{8}$	1 $\frac{9}{16}$
VR150-30	Glow-Discharge Voltage Regulator. Cold-cathode type. Operating values: volts, 150; ma., 5 to 30. Octal base.....	4 $\frac{1}{8}$	1 $\frac{9}{16}$
874	Glow-Discharge Voltage Regulator. Cold-cathode type. Operating values: volts, 90; ma., 10 to 50. Medium 4-pin bayonet base....	5 $\frac{3}{8}$	2 $\frac{1}{16}$
884	Thyratron (Triode) for relay use and sweep control. For sweep control, max. ratings are: anode volts, 300; peak anode ma., 300; average anode ma., 2. For relay service, max. ratings are: peak volts between any two electrodes, 350; peak anode ma., 300; average anode ma., 75. Heater: 6.3 volts, 0.6 ampere. Octal base	4 $\frac{1}{8}$	1 $\frac{9}{16}$
885	Thyratron for relay use and sweep control. Same as Type 884 except for heater rating of 2.5 volts, 1.4 amperes, and small 5-pin base....	4 $\frac{3}{16}$	1 $\frac{9}{16}$
991	Glow-Discharge Voltage Regulator. Cold-cathode type. Operating values: volts, 48 to 67; ma., 0.4 to 2. Bayonet candelabra double-contact base	1 $\frac{9}{16}$	$\frac{5}{8}$
2050	Thyratron (Tetrode) for relay service. High sensitivity. Operates directly from vacuum phototube. Max. ratings are: peak forward anode volts, 650; peak inverse anode volts, 1300; peak anode ma., 500; average anode ma., 100. Heater: volts, 6.3; amperes, 0.6. Octal base	4 $\frac{1}{8}$	1 $\frac{9}{16}$
2051	Thyratron (Tetrode) for relay service. Similar to Type 2050 but has lower rating. Max. ratings are: peak forward anode volts, 350; peak inverse anode volts, 700; peak anode ma., 375; average anode ma., 75. Heater, 6.3 volts, 0.6 ampere. Octal base.....	4 $\frac{1}{8}$	1 $\frac{9}{16}$

★★ All of these types are half-wave rectifiers. F = filament; H = heater.

** With incandescent light source at 2870°K. # Each unit.



RCA TRANSMITTING TUBE CHARTS

These charts will assist the tube user in making selection of a tube type for a particular service or application. The tube types have been grouped under the following headings: MODULATORS, CLASS C AMPLIFIERS—Triodes, and CLASS C AMPLIFIERS—Tetrodes, Pentodes, and Beam Tubes.

MODULATORS

Type	Name and Cooling	Filament or Heater (H)		Class	Plate Voltage Volts	Screen Voltage Volts	Grid § § Voltage Volts	Peak A-F Grid-to-Grid Voltage Volts	Plate Current 1, 2 Milliamperes		Plate-to-Plate Load Resistance Ohms	Driver Stage ¹⁵	Max.-Signal Power Output Watts 1, 2
		Volts	Amperes						Zero-Signal	Max.-Signal			
203-A	TRIODE Air	10	3.25	B	1000	—	-35	310	26	320	6900	Note 9	200
					1250 ¶	—	-45	330	26	320	9000		260
204-A	TRIODE Air	11	3.85	B	2000	—	-60	500	80	500	8800	Note 11	600
					3000 ¶	—	-100	500	80	372	20000		700
207	TRIODE Water	22	52	B	6000	—	-210	1520	500	2500	4200	—	8000
					12500	—	-575	2300	400	2800	10000	—	22500
211	TRIODE Air	10	3.25	B	1000	—	-77	380	20	320	6900	Note 9	200
					1250 ¶	—	-100	410	20	320	9000		260
800	TRIODE Air	7.5	3.1	B	1000	—	-55	300	28	160	12500	Note 8	100
					1250 ¶	—	-70	300	30	130	21000		106
801-A	TRIODE Air	7.5	1.25	B	500	—	-60	290	8	130	8000	Note 6	36
					600 ¶	—	-75	320	8	130	10000		45
805	TRIODE Air	10	3.25	B	1250	—	0	235	148	400	6700	Note 8	300
					1500 ¶	—	-16	280	84	400	8200		370
806	TRIODE Air	5	9.5	B	3000 ¶ ^a	—	-230	770	50	330	20800	Note 10	700
					3300 ¶ ^b	—	-240	930	80	475	16000	Note 12	1120
807	BEAM Air	6.3 (H)	0.9	AB ₂	600 ¶ ^a	300	-30	78	60	200	6400	Note 5	80
					750 ¶ ^b	300	-32	92	60	240	6950		120
808	TRIODE Air	7.5	4	B	1250	—	-15	240	40	230	12700	Note 8	190
					1500 ¶	—	-25	220	30	190	18300		185
809	TRIODE Air	6.3	2.5	B	750 ¶ ^a	—	-4.5	140	40	200	8400	Note 7	100
					1000 ¶ ^b	—	-10	156	40	200	11600		145
810	TRIODE Air	10	4.5	B	2000 ¶ ^a	—	-50	345	60	420	11000	Note 10	590
					2250 ¶ ^b	—	-60	380	70	450	11600		725
811	TRIODE Air	6.3	4	B	1250 ¶ ^a	—	0	140	48	200	15000	Note 7	175
					1500 ¶ ^b	—	-9	160	20	200	18000		225
812	TRIODE Air	6.3	4	B	1250 ¶ ^a	—	-36	210	48	200	15000	Note 8	175
					1500 ¶ ^b	—	-46	232	42	200	18000		225
815	TWIN BEAM Air	6.3 (H) per unit	0.8 per unit	AB ₂	400 ¶ ^a	125	-15	60	20	150	6200	Note 4	42
					500 ¶ ^b	125	-15	60	22	150	8000		54
828	BEAM Air	10	3.25	AB ₁	1700 ¶ ^a	750	-120	240	50	248	16200	Note 14	300
					2000 ¶ ^b	750	-120	240	50	270	18500		385
830-B	TRIODE Air	10	2	B	800	—	-27	250	20	280	6000	Note 8	135
					1000 ¶	—	-35	270	20	280	7600		175
833-A	TRIODE Forced-Air	10	10	B	4000 ¶ ^a	—	-100	480	100	800	12000	Note 13	2400
					4000 ¶ ^b	—	-100	510	100	900	11000		2700
838	TRIODE Air	10	3.25	B	1000	—	0	200	106	320	6900	Note 9	200
					1250 ¶	—	0	200	148	320	9000		260
841	TRIODE Air	7.5	1.25	B	350	—	-5	176	7	114	5200	Note 7	21
					425 ¶	—	-5	180	13	120	7000		28
849	TRIODE Air	11	5	B	2000	—	-105	450	14	650	6400	Note 11	900
					3000 ¶	—	-155	500	24	520	12800		1100
851	TRIODE Air	11	15.5	B	2000	—	-85	500	120	1700	2600	Note 11	2200
					3000 ¶	—	-135	490	110	1200	5600		2400
858	TRIODE Water	22	52	B	12000	—	-140	2600	500	3600	7200	—	26500
862	TRIODE Water	33	207	B	12000	—	0	2000	3000	13000	1800	—	90000
880	TRIODE Water	12.6	320	B	7500	—	-300	1450	1000	7000	2200	—	30000
					10000	—	-430	1690	1000	7000	3200	—	45000

For footnotes, see next page.

MODULATORS (Cont'd)

Type	Name and Cooling	Filament or Heater (H)		Class	Plate Voltage Volts	Screen Voltage Volts	Grid § Voltage Volts	Peak A-F Grid-to-Grid Voltage Volts	Plate Current ^{1, 2} Milliamperes		Plate-to-Plate Load Resistance Ohms	Driver Stage ⁵	Max.-Signal Power Output Watts ^{1, 3}
		Volts	Amperes						Zero-Signal	Max.-Signal			
889	TRIODE Water	11	125	B	5000 7500 ¶	—	-180 -300	1460 1700	400 400	3200 3200	2520 5000	— —	8800 15000
889-R	TRIODE Forced-Air	11	125	B	5000 7500	—	-180 -300	1460 1700	400 400	3200 3200	2520 5000	— —	8800 15000
891	TRIODE Water	11 per unit	60 per unit	B	6000 12500	—	-600 -1450	2200 3960	500 400	2300 2800	5000 10000	— —	8000 22000
891-R	TRIODE Forced-Air	11 per unit	60 per unit	B	6000 8000	—	-600 -800	2200 2400	500 500	2300 2100	5000 7400	— —	8000 10000
892	TRIODE Water	11 per unit	60 per unit	B	6000 12500	—	0 -170	1200 1530	500 400	2500 2800	4200 10000	— —	8000 22000
892-R	TRIODE Forced-Air	11 per unit	60 per unit	B	6000 8000	—	0 -60	1200 1000	500 500	2500 2300	4200 6800	— —	8000 10500
893	TRIODE Water	10 per strand	61 per terminal	B	12000 18000	—	-260 -450	1480 1720	800 800	7000 5500	4000 8000	— —	52000 70000
893-R	TRIODE Forced-Air	10 per strand	61 per terminal	B	12000 18000	—	-260 -450	1480 1720	800 800	7000 5500	4000 8000	— —	52000 70000
898	TRIODE Water	33 per section	70 per section	B	12000	—	-100	2200	2000	13000	2000	—	90000
1608	TRIODE Air	2.5	2.5	B	425 ¶ ^a 450 ¶ ^b	—	-15 -25	130 160	36 20	188 220	5000 4400	Note 7	54 66
1619	BEAM Air	2.5	2	AB ₁ AB ₂	400 ¶ 400 ¶	300 300	-20 -16.5	40 77	52 75	80 150	14000 6000	Note 14 Note 4	17.5 36
1623	TRIODE Air	6.3	2.5	B	750 ¶ ^a 1000 ¶ ^b	—	-25 -40	200 230	35 30	200 200	8400 12000	Note 7	100 145
1624	BEAM Air	2.5	2	AB ₂	400 600 ¶	300 300	-16.5 -25	77 106	75 42	150 180	6000 7500	Note 5	36 72
1625	BEAM Air	12.6 (H)	0.45	AB ₂	For other characteristics, refer to Type 807.								
8000	TRIODE Air	10	4.5	B	2000 ^a 2250 ^b	—	-120 -130	520 560	60 65	425 450	10800 12000	Note 8	600 725
8003	TRIODE Air	10	3.25	B	1350 ¶	—	-100	480	40	490	6000	Note 10	460
8005	TRIODE Air	10	3.25	B	1250 ¶ ^a 1500 ¶ ^b	—	-55 -70	290 310	40 40	320 310	8000 10000	Note 7	250 300

¶ Maximum.

^a CCS Ratings.

^b ICAS Ratings.

§ § For a-c filament operation.

¹ Values are for two tubes.

² For sinusoidal signals; for speech signals the maximum-signal current values vary widely and may be as low as 50% of the values shown.

³ Values do not include output transformer losses.

⁴ One 6F6 (triode connection), class A₁; plate volts = 250, self-bias resistor = 650 ohms.

⁵ One 2A3 or 6A3, class A₁; plate volts = 250, grid-bias volts = -45.

⁶ Two 2A3's in push-pull, class A₁; plate volts = 250, grid-bias volts = -45.

⁷ Two 2A3's in push-pull, class AB₁; plate volts = 300, self-bias resistor = 780 ohms.

⁸ Two 2A3's in push-pull, class AB₁; plate volts = 300, grid-bias volts = -62 (fixed).

⁹ Four 2A3's in push-pull-parallel, class AB₁; plate volts = 300, self-bias resistor = 390 ohms.

¹⁰ Four 2A3's in push-pull-parallel, class AB₁; plate volts = 300, grid-bias volts = -62 (fixed).

¹¹ Two 845's in push-pull, class A₁; plate volts = 1000, grid-bias volts = -145.

¹² Two 845's in push-pull, class A₁; plate volts = 1250, grid-bias volts = -195.

¹³ Two 845's in push-pull, class AB₁; plate volts = 1250, grid-bias volts = -225 (fixed).

¹⁴ Two 6J7's in push-pull, class A₁ (with inverse feedback from plate to grid); plate volts = 250, grid-bias volts = -3.

¹⁵ Properly designed input transformers having adequate peak-power efficiencies should be used. Suitable transformers are commercially available.

CLASS C AMPLIFIERS—TRIODES

Type	Cooling	Filament or Heater (H)	Max. Frequency for Full Input Mega-cycles	Direct Interelectrode Capacitances μf			Amplification Factor	Service P = Plate-Modulated Telephony T = Telegraphy	Maximum Ratings			Typical Operating Conditions				
				C _{gp}	C _{gf}	C _{pf}			Plate Voltage Volts	D-C Plate Input Watts	Plate Dissipation Watts	Plate Voltage Volts	Grid Voltage Volts	Plate Current Ma.	Approx. Grid Driving Power Watts	Approx. Carrier Power Output Watts
203-A	Air	10V 3.25A	15	14.5	6.5	5.5	25	P T	1000 1250	175 220	67 100	1000 1250	-135 -125	150 150	14 7	100 130
204-A	Air	11V 3.85A	3	15	12.5	2.3	23	P T	2000 2500	550 690	167 250	2000 2500	-250 -200	250 250	20 15	350 450

CLASS C AMPLIFIERS—TRIODES (Cont'd)

Type	Cooling	Filament or Heater (H)	Max. Frequency for Full Input Mega-cycles	Direct Interelectrode Capacitances μf			Amplification Factor	Service P = Plate-Modulated Telephony T = Telegraphy	Maximum Ratings			Typical Operating Conditions				
				C_{gp}	C_{gf}	C_{pf}			Plate Voltage Volts	D-C Plate Input Watts	Plate Dissipation Watts	Plate Voltage Volts	Grid Voltage Volts	Plate Current Ma.	Approx. Grid Driving Power Watts	Approx. Carrier Power Output Watts
207	Water	22V 52A	1.6	27	18	2	20	P	10000	10000	6600	10000	-2000	750	185	6000
								T	15000	30000	10000	12000	-1600	1670	235	15000
211	Air	10V 3.25A	15	14.5	6	5.5	12	P	1000	175	67	1000	-260	150	14	100
								T	1250	220	100	1250	-225	150	7	130
800	Air	7.5V 3.1A	60	2.5	2.75	2.75	15	P	1000	80	23	1000	-200	70	4	50
								T	1250	100	35	1250	-175	70	4	65
801-A	Air	7.5V 1.25A	60	6	4.5	1.5	8	P	500	30	13.5	500	-190	55	4.5	18
								T	600	42	20	600	-150	65	4	25
805	Air	10V 3.25A	30	6.5	8.5	10.5	*	P	1250	220	85	1250	-160	160	16	140
								T	1500	315	125	1500	-105	200	8.5	215
806	Air	5V 9.5A	30	4.0	5.6	0.4	12.6	Pb	3000	600	150	3000	-670	195	24	460
								Tb	3300	1000	225	3300	-600	300	34	780
808	Air	7.5V 4A	30	2.8	5.3	0.15	47	P	1250	135	35	1250	-225	100	10.5	105
								T	1500	200	50	1500	-200	125	9.5	140
809	Air	6.3V 2.5A	60	6.7	5.7	0.9	50	Pb	750	75	25	750	-60	100	4.3	55
								Tb	1000	100	30	1000	-75	100	3.8	75
810	Air	10V 4.5A	30	4.8	8.7	12	36	Pb	1800	450	125	1800	-200	250	17	335
								Tb	2250	620	150	2250	-160	275	12	475
811	Air	6.3V 4A	60	5.5	5.5	0.6	160	Pb	1250	155	40	1250	-125	125	11	120
								Tb	1500	225	55	1500	-113	150	8	170
812	Air	6.3V 4A	60	5.3	5.3	0.8	29	Pb	1250	155	40	1250	-125	125	6	120
								Tb	1500	225	55	1500	-175	150	6.5	170
826	Air	7.5V 4A	250	2.9	3.7	1.4	31	P	800	75	40	800	-98	94	6.2	53
								T	1000	125	60	1000	-70	125	5.8	86
830-B	Air	10V 2A	15	11	5	1.8	25	P	800	80	40	800	-150	95	5	50
								T	1000	150	60	1000	-110	140	7	90
833-A	Forced Air	10V 10A	20	6.3	12.3	8.5	35	Pb	4000	1800	350	4000	-325	450	42	1500
								Tb	4000	2000	450	4000	-225	500	35	1600
834	Air	7.5V 3.1A	100	2.6	2.2	0.6	10.5	P	1000	100	35	1000	-310	90	6.5	58
								T	1250	125	50	1250	-225	90	4.5	75
838	Air	10V 3.25A	30	8	6.5	5	*	P	1000	175	67	1000	-135	150	16	100
								T	1250	220	100	1250	-90	150	6	130
841	Air	7.5V 1.25A	6	7.5	4	2.5	30	P	350	21	10	350	-47	50	2	11
								T	450	27	15	450	-34	50	1.8	15
843	Air	2.5V(H) 2.5A	6	3.9	4	2.5	7.7	P	350	14	10	350	-150	30	1.6	5
								T	450	18	15	450	-140	30	1	7.5
846	Water	11V 51A	50	9	6.5	1.5	40	P	6000	3000	1660	6000	-950	500	200	2250
								T	7500	7500	2500	7000	-900	900	300	4250
849	Air	11V 5A	3	33.5	17	3	19	P	2000	700	270	2000	-300	300	14	425
								T	2500	875	400	2500	-250	300	8	560
851	Air	11V 15.5A	3	47	25.5	4.5	20.5	P	2000	1800	500	2000	-300	850	65	1250
								T	2500	2500	750	2500	-250	900	45	1700
852	Air	10V 3.25A	30	2.6	1.9	1	12	P	2000	170	67	2000	-500	67	23	75
								T	3000	300	100	3000	-600	85	12	165
858	Water	22V 52A	1.6	18	16	2	42	P	12000	12000	10000	12000	-1000	950	150	8000
								T	20000	40000	20000	18000	-1200	1800	250	22400
862	Water	33V 207A	1.6	75	52	2	48	P	12000	60000	50000	12000	-800	5000	2000	45000
								T	20000	200000	100000	18000	-1000	8330	2400	100000
880	Water	12.6V 320A	25	26	29	2.6	20	P	10500	36000	12000	10000	-1200	3600	880	28000
								T	10500	60000	20000	10000	-800	6000	750	45000
889	Water	11V 125A	50	17.8	18.8	2.2	21	P	6000	6000	3000	6000	-900	1000	140	4000
								T	7500	15000	5000	7500	-800	2000	400	10000
889-R	Forced Air	11V 125A	25	20.7	19.5	2.5	21	P	6000	6000	3000	6000	-900	1000	140	4000
								T	8500	16000	5000	7500	-800	2000	400	10000

For footnotes, see next page.

CLASS C AMPLIFIERS—TRIODES (Cont'd)

Type	Cooling	Filament or Heater (H)	Max. Frequency for Full Input Mega-cycles	Direct Interelectrode Capacitances $\mu\mu\text{f}$			Amplification Factor	Service P = Plate-Modulated Telephony T = Telephony	Maximum Ratings			Typical Operating Conditions				
				C_{gp}	C_{gf}	C_{pf}			Plate Voltage Volts	D-C Plate Input Watts	Plate Dissipation Watts	Plate Voltage Volts	Grid Voltage Volts	Plate Current Ma.	Approx. Grid Driving Power Watts	Approx. Carrier Power Output Watts
891	Water	11V● 60A●	1.6	27	18	2	8	P	8000	8000	4000	8000	-2400	780	260	5000
								T	12000	18000	6000	10000	-2000	1450	310	10000
891-R	Forced Air	11V● 60A●	1.6	30	18	2	8	P	8500	8000	2500	6000	-2000	750	260	3500
								T	10000	15000	4000	10000	-2000	1400	310	10000
892	Water	11V● 60A●	1.6	27	18	2	50	P	10000	10000	6600	10000	-1600	720	260	6000
								T	15000	30000	10000	12000	-1600	1640	500	14000
892-R	Forced Air	11V● 60A●	1.6	30	18	2	50	P	10000	10000	2500	8000	-1300	750	350	5000
								T	12500	18000	4000	10000	-1300	1400	400	10000
893	Water	10V # 61A◆	5	33	48	3.2	36	P	12000	24000	12000	12000	-1000	2000	210	18000
								T	20000	70000	20000	18000	-1000	3600	340	50000
893-R	Forced Air	10V # 61A◆	5	33	48	3.2	36	P	12000	24000	12000	12000	-1000	2000	210	18000
								T	20000	70000	20000	18000	-1000	3600	340	50000
898	Water	33V● 70A●	1.6	80	65	5	45	P	12000	60000	50000	12000	-800	5000	2000	45000
								T	20000	200000	100000	18000	-1000	8330	2400	100000
1608	Air	2.5V 2.5A	45	9	8.5	3	20	Pb	400	34	16	400	-62	85	1.9	24
								Tb	450	50	25	450	-60	110	2.5	33
1623	Air	6.3V 2.5A	60	6.7	5.7	0.9	20	Pb	750	75	25	750	-125	100	4	55
								Tb	1000	100	30	1000	-90	100	3.1	75
1626	Air	12.6V 0.25A	30	4.4	3.2	3.4	5	T	250	6.25	5	250	-70	25	0.5	4
8000	Air	10V 4.5A	30	6.4	5	3.3	16.5	Pb	1800	450	125	1800	-320	250	8.8	335
								Tb	2250	620	150	2250	-210	275	9	475
8003	Air	10V 3.25A	30	11.7	5.8	3.4	12	P	1100	220	67	1100	-260	200	15	167
								T	1350	330	100	1350	-175	245	11	250
8005	Air	10V 3.25A	60	5	6.4	1	20	Pb	1250	240	75	1250	-195	190	9	170
								Tb	1500	300	85	1500	-130	200	7.5	220
8012	Forced Air	6.3V 1.92A	500	2.8	2.7	0.35	18	P	800	33	27	800	-105	40	1.4	22
								T	1000	50	40	1000	-90	50	1.6	35
8025	Forced Air	6.3V 1.92A	500	2.8	2.7	0.35	18	P	800	50	27	800	-105	40	1.4	22
								T	1000	75	40	1000	-90	50	1.6	35

CLASS C AMPLIFIERS—TETRODES, PENTODES, AND BEAM TUBES

Type	Name and Cooling	Filament or Heater (H)	Max. Frequency for Full Input Mega-cycles	Direct Interelectrode Capacitances $\mu\mu\text{f}$			Service P = Plate-Modulated Telephony T = Telephony	Maximum Ratings			Typical Operating Conditions						
				C_{gp} max.	C input	C output		Plate Voltage Volts	D-C Plate Input Watts	Plate Dissipation Watts	Plate Voltage Volts	Suppressor Voltage Volts	Screen Voltage Volts	Grid Voltage Volts	Plate Current Ma.	Approx. Grid Driving Power Watts	Approx. Carrier Power Output Watts
802	PENTODE Air	6.3V(H) 0.9A	30	0.15	12	8.5	Pb	500	20	8	500	40	245	-40	40	0.1	12
							Tb	600	33	13	600	40	250	-120	55	0.3	23
803	PENTODE Air	10V 5A	20	0.15	17.5	29	P	1600	250	85	1600	100	500	-80	150	4	155
							T	2000	350	125	2000	40	500	-90	160	2	210
804	PENTODE Air	7.5V 3A	15	0.01	16	14.5	Pb	1250	100	35	1250	50	250	-90	75	0.75	65
							Tb	1500	150	50	1500	45	300	-100	100	1.95	110
807	BEAM Air	6.3V(H) 0.9A	60	0.20	11	7	Pb	600	60	25	600	—	275	-90	100	0.4	42.5
							Tb	750	75	30	750	—	250	-45	100	0.2	50
813	BEAM Air	10V 5A	30	0.20	16.3	14	P	1600	240	67	1600	—	400	-130	150	1.2	175
							T	2000	360	100	2000	—	400	-90	180	0.5	260
814	BEAM Air	10V 3.25A	30	0.1	13.5	13.5	Pb	1250	180	50	1250	—	300	-150	144	2	130
							Tb	1500	225	65	1500	—	300	-90	150	1.5	160
815	TWIN BEAM Air	6.3V(H)§ 0.8A §	150	0.2	13.3	8.5	Pb	400	60	20	400	—	175	-45	150	0.16	45
							Tb	500	75	25	500	—	200	-45	150	0.18	56

ICAS Ratings. * Variable High-Mu. § Per Unit. # Per Strand. ◆ Per Terminal. ● Per Section.

CLASS C AMPLIFIERS—TRIODES (Cont'd)

Type	Cooling	Filament or Heater (H)	Max. Frequency for Full Input Mega-cycles	Direct Interelectrode Capacitances $\mu\mu\text{f}$			Amplification Factor	Service P = Plate-Modulated Telephony T = Telephony	Maximum Ratings			Typical Operating Conditions				
				C_{gp}	C_{gf}	C_{pf}			Plate Voltage Volts	D-C Plate Input Watts	Plate Dissipation Watts	Plate Voltage Volts	Grid Voltage Volts	Plate Current Ma.	Approx. Grid Driving Power Watts	Approx. Carrier Power Output Watts
891	Water	11V● 60A●	1.6	27	18	2	8	P	8000	8000	4000	8000	-2400	780	260	5000
								T	12000	18000	6000	10000	-2000	1450	310	10000
891-R	Forced Air	11V● 60A●	1.6	30	18	2	8	P	8500	8000	2500	6000	-2000	750	260	3500
								T	10000	15000	4000	10000	-2000	1400	310	10000
892	Water	11V● 60A●	1.6	27	18	2	50	P	10000	10000	6600	10000	-1600	720	260	6000
								T	15000	30000	10000	12000	-1600	1640	500	14000
892-R	Forced Air	11V● 60A●	1.6	30	18	2	50	P	10000	10000	2500	8000	-1300	750	350	5000
								T	12500	18000	4000	10000	-1300	1400	400	10000
893	Water	10V # 61A◆	5	33	48	3.2	36	P	12000	24000	12000	12000	-1000	2000	210	18000
								T	20000	70000	20000	18000	-1000	3600	340	50000
893-R	Forced Air	10V # 61A◆	5	33	48	3.2	36	P	12000	24000	12000	12000	-1000	2000	210	18000
								T	20000	70000	20000	18000	-1000	3600	340	50000
898	Water	33V● 70A●	1.6	80	65	5	45	P	12000	60000	50000	12000	-800	5000	2000	45000
								T	20000	200000	100000	18000	-1000	8330	2400	100000
1608	Air	2.5V 2.5A	45	9	8.5	3	20	Pb	400	34	16	400	-62	85	1.9	24
								Tb	450	50	25	450	-60	110	2.5	33
1623	Air	6.3V 2.5A	60	6.7	5.7	0.9	20	Pb	750	75	25	750	-125	100	4	55
								Tb	1000	100	30	1000	-90	100	3.1	75
1626	Air	12.6V 0.25A	30	4.4	3.2	3.4	5	T	250	6.25	5	250	-70	25	0.5	4
8000	Air	10V 4.5A	30	6.4	5	3.3	16.5	Pb	1800	450	125	1800	-320	250	8.8	335
								Tb	2250	620	150	2250	-210	275	9	475
8003	Air	10V 3.25A	30	11.7	5.8	3.4	12	P	1100	220	67	1100	-260	200	15	167
								T	1350	330	100	1350	-175	245	11	250
8005	Air	10V 3.25A	60	5	6.4	1	20	Pb	1250	240	75	1250	-195	190	9	170
								Tb	1500	300	85	1500	-130	200	7.5	220
8012	Forced Air	6.3V 1.92A	500	2.8	2.7	0.35	18	P	800	33	27	800	-105	40	1.4	22
								T	1000	50	40	1000	-90	50	1.6	35
8025	Forced Air	6.3V 1.92A	500	2.8	2.7	0.35	18	P	800	50	27	800	-105	40	1.4	22
								T	1000	75	40	1000	-90	50	1.6	35

CLASS C AMPLIFIERS—TETRODES, PENTODES, AND BEAM TUBES

Type	Name and Cooling	Filament or Heater (H)	Max. Frequency for Full Input Mega-cycles	Direct Interelectrode Capacitances $\mu\mu\text{f}$			Service P = Plate-Modulated Telephony T = Telephony	Maximum Ratings			Typical Operating Conditions						
				C_{gp} max.	C input	C output		Plate Voltage Volts	D-C Plate Input Watts	Plate Dissipation Watts	Plate Voltage Volts	Suppressor Voltage Volts	Screen Voltage Volts	Grid Voltage Volts	Plate Current Ma.	Approx. Grid Driving Power Watts	Approx. Carrier Power Output Watts
802	PENTODE Air	6.3V(H) 0.9A	30	0.15	12	8.5	Pb	500	20	8	500	40	245	-40	40	0.1	12
							Tb	600	33	13	600	40	250	-120	55	0.3	23
803	PENTODE Air	10V 5A	20	0.15	17.5	29	P	1600	250	85	1600	100	500	-80	150	4	155
							T	2000	350	125	2000	40	500	-90	160	2	210
804	PENTODE Air	7.5V 3A	15	0.01	16	14.5	Pb	1250	100	35	1250	50	250	-90	75	0.75	65
							Tb	1500	150	50	1500	45	300	-100	100	1.95	110
807	BEAM Air	6.3V(H) 0.9A	60	0.20	11	7	Pb	600	60	25	600	—	275	-90	100	0.4	42.5
							Tb	750	75	30	750	—	250	-45	100	0.2	50
813	BEAM Air	10V 5A	30	0.20	16.3	14	P	1600	240	67	1600	—	400	-130	150	1.2	175
							T	2000	360	100	2000	—	400	-90	180	0.5	260
814	BEAM Air	10V 3.25A	30	0.1	13.5	13.5	Pb	1250	180	50	1250	—	300	-150	144	2	130
							Tb	1500	225	65	1500	—	300	-90	150	1.5	160
815	TWIN BEAM Air	6.3V(H)§ 0.8A §	150	0.2	13.3	8.5	Pb	400	60	20	400	—	175	-45	150	0.16	45
							Tb	500	75	25	500	—	200	-45	150	0.18	56

ICAS Ratings. * Variable High-Mu. § Per Unit. # Per Strand. ◆ Per Terminal. ● Per Section.