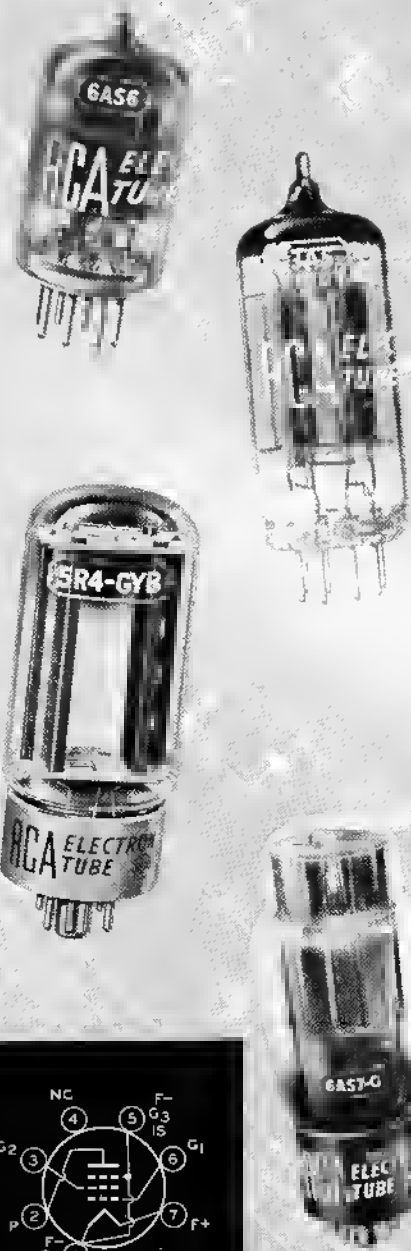
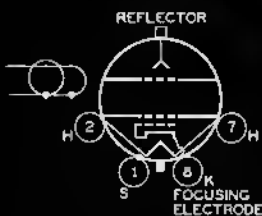
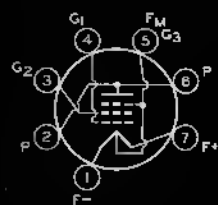


1L4

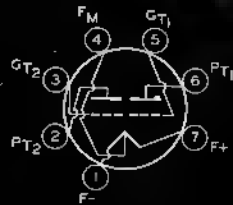


NOTE: COAXIAL OUTPUT LINE PASSES THROUGH VACANT PIN POSITION No. 4.

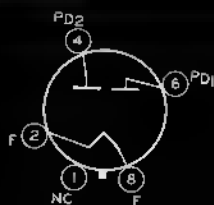
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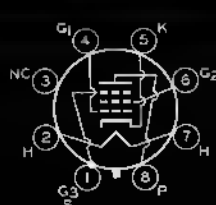
3A4



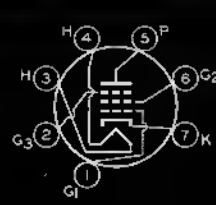
3A5



5R4 GY 5R4 GYB



6AG7 Y



6AK6



6AS6

 Type	Description
1L4	Sharp-Cutoff Pentode. 7-pin miniature type. For rf amplifiers in battery-supply receivers.
2K26	Single resonator reflex Klystron with an integral resonant cavity and mechanical tuning mechanism. For local oscillator service in applications such as microwave receivers. Can be tuned electrically to give about a 55 Mc vernier adjustment. Useful power output about 100 Mw.
3A4	Power Pentode. 7-pin miniature, coated-filament, dry-cell type. Can deliver 1.2 watts power output at 10 Mc in rf amplifier service.
3A5	Medium-Mu Twin Triode. 7-pin miniature, coated-filament, dry-cell type. Can deliver 2 watts power output at 40 Mc in push-pull class C service.
5R4-GY	Full-Wave Vacuum Rectifier. Coated filament type. Useful in aircraft applications at altitudes up to 40000 feet. Octal 5-pin base.
5R4-GYB	Full-Wave Vacuum Rectifier. Coated-filament type. Useful in aircraft applications at altitudes up to 40000 feet. Octal 5-pin base.
6AG7-Y	Power Pentode. Has a low-loss-phenolic base but otherwise identical with the 6AG7.
6AK6	Power Pentode. 7-pin miniature type. Similar to 6G6-G.
6AS6	Sharp-Cutoff Pentode. 7-pin miniature type with heater-cathode. For use in gated amplifier circuits, delay circuits, and gain-controlled amplifier circuits.
6AS7-G	Low-Mu Twin Triode. Heater-cathode type. Has high perveance, a mu of 2, and an ac plate resistance of 280 ohms. For use as a regulator tube in dc power supplies, and in projection television booster scanning applications. Octal 8-pin base.
6SJ7-Y	Sharp-Cutoff Pentode. Has a low-loss-phenolic base but otherwise identical with the 6SJ7.
12A6	Beam Power Tube. Metal type with 12.6-volt heater. Octal 7-pin base.
125W7	Twin Diode—Medium-Mu Triode. Single-ended metal type with an octal 8-pin base. Similar to the 6SR7 except for heater rating.
125X7-GT	Medium-Mu Twin Triode. Similar to the 6SN7-GT except for heater rating. Octal 8-pin base.
125Y7	Pentagrid Converter. Metal type with an octal 8-pin base. Similar to the 6SA7 except for heater rating.
83	Full-Wave Mercury Vapor Rectifier. Useful in dc power supplies subject to wide variations in the output current. Values shown are for the temperature range from 20° to 60° C. Medium 4-pin base.
1613	Power Pentode. Heater-cathode type. Useful as a crystal oscillator. For renewal use only.
1614	Beam Power Tube. Heater-cathode type. For police and emergency broadcast use. Octal 7-pin base.

For key to terminal connections see page 30.

MISCELLANEOUS TYPES

Cathode		Maximum Dimensions Inches		Class of Service	Maximum Ratings			Operating Conditions and Characteristics										Type
					Plate Volts	Plate Dissipation Watts	Grid-No. 2 Input Watts	Plate Supply Volts	Grid-No. 1 Volts(v) or Cathode Resistance Ohms	Grid-No. 2 Supply Volts	Grid-No. 2 Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance Micromhos	Amplification Factor	Power Output Watts		
1.4	0.05	2 1/8	3/4	Class A ₁ Amplifier	110	—	—	90	0	67.5	1.2	2.9	260000	925	—	—	1L4	
6.3	0.44	3 1/2	1 39/64	Class C CW Oscillator	Maximum Ratings, Absolute Values: DC Resonator Volts, 330 DC Reflector Volts, 0 to -350 Peak Heater-Cathode Volts, ±50												DC Resonator Ma., 35	2K26
2.8 1.4	0.1 0.2	2 1/8	3/4	Class A ₁ Amplifier	150	2.0	0.4	150	-8.4v	90	2.2	13.3	100000	1900	—	0.7→	3A4	
				RF Power Amplifier	150	2.0	0.9	150	Grid Leak	135	6.5	18.3	Power Output, 1.2 watts at 10 Mc.					
2.8 1.4	0.11 0.22	2 1/8	3/4	Class A ₁ Amplifier Each Unit	135	5.0	—	90	-2.5v	—	—	3.7	8300	1800	15	—	3A5	
				Push-Pull Class C Amplifier Each Unit	135	1.0	—	135	-20v	Power Output, 2 watts at 40 Mc.		30	Driving Power, 0.2 watt					
5	2	5 5/16	2 1/16	At 40000 Feet with Capacitive Input Filter	AC Volts per Plate (RMS), 750 Max. Peak Inverse Volts, 2400 Min. Total Effective Supply Impedance per Plate, 125 ohms												Max. DC Output Ma., 175 Max. Peak Plate Ma., 650	5R4-GY
				At 40000 Feet with Inductive Input Filter	AC Volts per Plate (RMS), 850 Max. Peak Inverse Volts, 2400 Min. Value of Input Choke, 5 Henries												Max. DC Output Ma., 250 Max. Peak Plate Ma., 650	
5	2	4 1/4	1 9/16	At 40000 Feet with Capacitive Input Filter	Max. AC Volts per Plate (RMS), 750 Max. Peak Inverse Plate Volts, 2650 Min. Total Effective Supply Impedance per Plate, 100 ohms												Max. DC Output Ma. (Both Plates), 250 Max. Peak Plate Ma., 715	5R4-GYB
				At 40000 Feet with Inductive Input Filter	Max. AC Volts per Plate (RMS), 800 Max. Peak Inverse Plate Volts, 2650 Min. Value of Input Choke, 5 henries												Max. DC Output Ma. (Both Plates), 250 Max. Peak Plate Ma., 715	
6.3	0.65	3 1/4	1 5/16	Class A ₁ Amplifier	300	9.0	1.5	180	-3v	150	7.0	30	150000	11000	—	3.0o	6AG7-Y	
6.3	0.15	2 1/8	3/4	Class A ₁ Amplifier	300	2.75	.75	180	-9v	180	2.5	15	200000	2300	—	1.1	6AK6	
6.3	0.175	1 3/4	3/4	Class A ₁ Amplifier	180	1.7	0.75	120	-2v	120	3.5	5.2	110000	3200	—	—	6AS6	
6.3	2.5	4 5/8	1 9/16	Class A ₁ Amplifier Each Unit	250	13	—	135	250	—	—	125	280	7000	2.0	—	6AS7-G	
6.3	0.3	2 5/8	1 5/16	Class A ₁ Amplifier	300	2.5	0.4	250	-3v	100	0.8	3.0	#	1650	—	—	6SJ7-Y	
12.6	0.15	3 1/4	1 5/16	Class A ₁ Amplifier	250	7.5	1.5	250	-12.5v	250	3.5	30	70000	3000	—	3.4o	12A6	
12.6	0.15	2 5/8	1 5/16	Class A ₁ Amplifier	250	2.5	—	26.5	Grid Res., 2 meg.	—	—	1.1	15500	1100	17	—	12SW7	
								250	-9v	—	—	9.5	8500	1900	16	—		
12.6	0.3	3 5/16	1 5/16	Class A ₁ Amplifier Each Unit	300	2.5	—	26.5	Grid Res., 0.05 meg.	—	—	1.8	11500	1800	21	—	12SX7-GT	
								250	-8v	—	—	9.0	7700	2600	20	—		
12.6	0.15	2 5/8	1 5/16	Converter	300	1.0	1.0	26.5	-1v†	26.5†	1.7†	0.45	—	Conversion Transcond., 250 μmhos		12SY7		
								250	-2v†	100†	8.5†	3.5	1000000	Conversion Transcond., 450 μmhos				
5.0	3.0	5 3/8	2 1/16	With Capacitive Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550 Max. DC Output Ma., 225 Max. Peak Plate Amp., 1 Min. Total Effec. Supply Imped./Plate, 50 Ohms												83	
				With Inductive Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550 Max. DC Output Ma., 225 Max. Peak Plate Amp., 1 Min. Value of Input Choke, 3 henries													
6.3	0.7	3 1/4	1 5/16	Class C Telegraphy	275	7.0	2.0	350	-35v	200	10	50	—	—	—	9.0	1613	
6.3	0.9	4 5/16	1 9/8	Class C Telephony**	375	21	2.5	375	-50v	250	—	93	—	—	—	24.5	1614	
				Class C Telegraphy**	450	25	3.5	450	-45v	250	8	100	—	—	—	31		

* Greater than 1 megohm.

† For Grid No. 3, which is control grid.

‡ For Grids No. 2 and No. 4, which are internally connected.

O Load for stated power, 10000 ohms.

→ Load for stated power, 8000 ohms.

o Load for stated power, 7500 ohms.

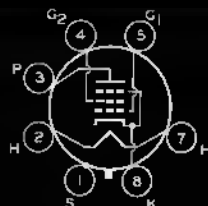
** Intermittent Commercial and Amateur Service.



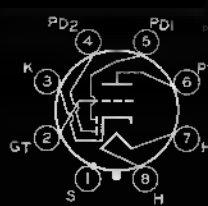
6AS7-G 12SX7-GT



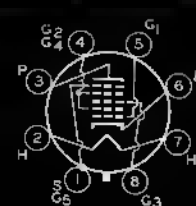
6SJ7-Y



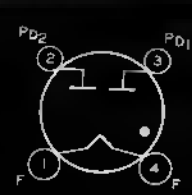
12A6 1613 1614



12SW7



12SY7



83