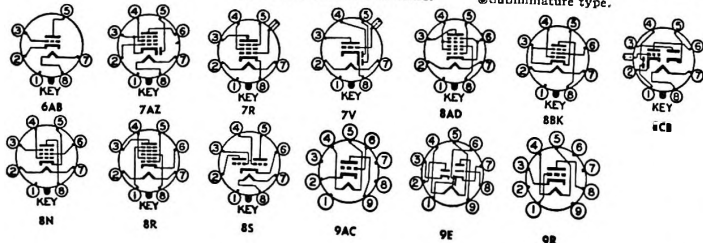


Tube Type	Classification by Construction	Base Connections	Outline Dwg	Type Cathode	Filament Volts	Filament Amp	Max Plate Volts	Max Screen Volts	Capacitance in Micromicrofarads		
									Input	Output	Grid-plate
607 <i>607-G</i> 607-GT	Duplex-Diode High-Mu Triode	7V	8-4 12-8 9-18	Htr	6.3	0.3	300	—	—	—	—
6R4	High-Frequency Triode	9R	6-2	Htr	6.3 ₄	0.2	275	—	1.7	0.5	1.5
6R7 <i>6R7-G</i> 6R7-GT	Duplex-Diode Medium-Mu Triode	7V	8-4 12-8 9-17	Htr	6.3	0.3	250	—	4.8	3.8	2.4
6R8	Triple-Diode, Low-Mu Triode	9E	6-2	Htr	6.3	0.45	250	—	—	—	—
6S4 <i>6S4-A</i>	Medium-Mu Triode	9AC	6-3	Htr	6.3 6.3 $\frac{1}{2}$	0.6 0.6 $\frac{1}{2}$	500	—	4.2	0.9	2.6
6S7 <i>6S7-G</i>	Remote-Cutoff RF Pentode	7R	8-2 12-8	Htr	6.3	0.15	300	150	6.5 4.4	10.5 8.0	0.005 0.008 0.008
6S8-GT	Triple-Diode High-Mu Triode	8CB	9-23 or 9-48	Htr	6.3	0.3	300	—	—	—	—
6SA7 <i>6SA7-GT</i>	Pentagrid Converter	8R ♥ 8AD ♥	8-1 9-11 or 9-41	Htr	6.3	0.3	300	100	Use $I_{B1} = 0.5$ ma $R_{B1} = 20,000$ ohms		
6SB7-Y	Pentagrid Converter	8R ♥	8-1	Htr	6.3	0.3	300	100	Use $I_{B1} = 0.35$ ma $R_{B1} = 20,000$ ohms		
6SC7 <i>6SC7-GT</i>	High-Mu Twin-Triode	8S	8-1 9-11	Htr	6.3	0.3	250	—	—	—	—
6SD7-GT	Semi-Remote-Cutoff Pentode	8N	9-12	Htr	6.3	0.3	300	125	9.0	7.5	0.0035 0.005 0.005
6SE7-GT	Sharp-Cutoff Pentode	8N	9-12	Htr	6.3	0.3	300	125	8.0	7.5	0.005 0.004 0.004
6SF6 <i>6SF5-GT</i>	High-Mu Triode	6AB	8-1 9-11	Htr	6.3	0.3	300	—	—	—	—
6SF7	Diode Remote-Cutoff Pentode	7AZ	8-1	Htr	6.3	0.3	300	100	5.5	6.0	0.004 0.003 0.0035 0.003
6SG7 <i>6SG7-GT</i>	Semi-Remote-Cutoff RF Pentode	8BK	8-1 9-12	Htr	6.3	0.3	300	150	8.5 8.5	7.0 7.0	0.003 0.0035 0.003
6SH7 <i>6SH7-GT</i>	Sharp-Cutoff RF Pentode	8BK	8-1 9-12	Htr	6.3	0.3	300	150	8.5	7.0	0.003 0.003
6SJ7 <i>6SJ7-GT</i>	Sharp-Cutoff Pentode	8N	8-1 9-12	Htr	6.3	0.3	300	150	Pentode Connection Triode Connection (G_2 , G_3 & P tied)		
6SK7 <i>6SK7-W</i> 6SK7-GT	Remote-Cutoff RF Pentode	8N	8-1 9-12	Htr	6.3	0.3	300	150	6.0 6.5	7.0 7.5	0.003 0.003 0.006

Metal tubes are shown in bold-face type, miniature tubes in italics.

♠ Subminiature type.



Service	Plate Volts	Screen Volts	Neg Grid Volts	Plate Milli-am-peres	Screen Milli-am-peres	R_p , Ohms	G_m , umhos	μ Factor	Load for Rated Out-put, Ohms	Power Out-put, Watts	Tube Type
Class A Amplifier	250 100	—	3.0 1.0	1.0 0.8	—	58,000 58,000	1,200 1,200	70 70	—	—	607 <i>607-G</i> 607-GT
Class A Amplifier	150 120	—	2.0 2.0	30 20	—	—	5,500 4,000	16 16	—	—	6R4
Class A Amplifier	250	—	9.0	9.5	—	8,500	1,900	16	—	—	6R7 <i>6R7-G</i> 6R7-GT
Class A Amplifier	250	—	9.0	9.5	—	8,500	1,900	16	10,000	0.30	6R8
Vertical Deflection Amplifier	250	—	8.0	26	—	3,600 $\frac{1}{2}$	4,500	16	—	—	6S4 <i>6S4-A</i>
Class A Amplifier	250	100	3.0	8.5	2.0	1,000,000 $\frac{1}{2}$	1,750	—	—	—	6S7 <i>6S7-G</i>
Class A Amplifier	250	—	2.0	0.9	—	91,000 $\frac{1}{2}$	1,100	100	—	—	6S8-GT
Converter	250 100	100 100	2.0 2.0	3.5 3.3	8.5 8.5	1,000,000 $\frac{1}{2}$ 500,000 $\frac{1}{2}$	450 $\frac{1}{2}$ 425 $\frac{1}{2}$	—	—	—	6SA7 <i>6SA7-GT</i>
Converter	250	100	1.0	3.8	10	1,000,000 $\frac{1}{2}$	950 $\frac{1}{2}$	—	—	—	6SB7-Y
Class A Amplifier	250	—	2.0	2.0	—	53,000 $\frac{1}{2}$	1,325 $\frac{1}{2}$	70	—	—	6SC7 <i>6SC7-GT</i>
Class A Amplifier	250	125	2.0	9.5	3.0	700,000	4,250	—	—	—	6SD7-GT
Class A Amplifier	250	100	1.5	4.5	1.5	1,000,000	3,400	—	—	—	6SE7-GT
Class A Amplifier	250 100	—	2.0 1.0	0.9 0.4	—	60,000 85,000	1,500 1,150	100 100	—	—	6SF6 <i>6SF5-GT</i>
Class A Amplifier	250	100	1.0	12.4	3.3	700,000 $\frac{1}{2}$	2,050	—	—	—	6SF7
Class A Amplifier	250 250 100	150 125 100	2.5 1.0 1.0	9.2 11.8 8.2	3.4 4.4 3.2	1,000,000 $\frac{1}{2}$ 900,000 250,000	4,000 4,700 4,100	—	—	—	6SG7 <i>6SG7-GT</i>
Class A Amplifier	250	150	1.0	10.8	4.1	900,000 $\frac{1}{2}$	4,900	—	—	—	6SH7 <i>6SH7-GT</i>
Class A Amplifier	250 100 100 180	100 100 100 180	3.0 3.0 8.5 6.0	3.0 2.9 9.2 9.0	0.8 0.9 — —	1,000,000 $\frac{1}{2}$ 700,000 7,600 8,200	1,650 1,575 2,500 2,300	— — 19 19	— — — —	— — — —	6SJ7 <i>6SJ7-GT</i>
Class A Amplifier	250 100	100 100	3.0 1.0	9.2 13	2.6 4.0	800,000 120,000	2,000 2,350	— —	— —	— —	6SK7 <i>6SK7-W</i> 6SK7-GT

‡ Approximate.

▲ Without external shield.

⬆ Zero signal.

♣ Grids 3 and 5 are screen. Grid 4 is signal-input grid.

* Conversion transconductance.

♠ Maximum.

♥ Grids 2 and 4 are screen. Grid 3 is signal-input grid.

✱ Screen supply voltage.

♣ Absolute maximum rating.

♣ Plate-to-plate.

♣ Per section.

♣ For both sections.

♣ Minimum.

♣ Heater warm-up time controlled for series-string service.

♣ Plate supply voltage.

♣ Input plate.

♣ The duration of the pulse voltage must not exceed 15 percent of one scanning cycle.

♣ Section 1.

♣ Section 2.

♣ A resistor of 3 ohms must be put in series with heater.