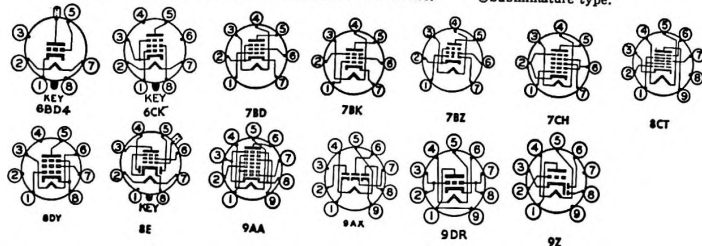


Tube Type	Classification by Construction	Base Connections	Out-line DWG	Type Cathode	Filament Volts	Filament Amp	Max Plate Volts	Max Screen Volts	Capacitance in Micromicrofarads		
									Input	Out-put	Grid-plate
6B8 6B8-G 6B8-GT	Duplex Diode Remote-Cutoff Pentode	8E	8-4 12-8 9-20	Htr	6.3	0.3	300	125	6.0 3.6 4.5	9.0 9.5 10.0	0.005 0.01 0.005 ⬆
6BA4	High-Mu Planar Triode	—	T-X	Htr	6.3	0.4	200	—	—	—	—
6BA5	Sharp-Cutoff Pentode	8DY	3-1	Htr	6.3	0.15	150	140	3.4	3.6	0.065
6BA6	Remote-Cutoff RF Pentode	7BK	5-2	Htr	6.3	0.3	300	150	5.5	5.5	0.0035 ⬆
6BA7	Pentagrid Converter	8CT ⬇	6-3	Htr	6.3	0.3	300	100	Osc $I_{g1} = 0.35$ ma $R_{g1} = 20,000$ ohms		
6BC4	UHF Triode	9DR	6-1	Htr	6.3	0.225	250	—	2.9	0.26	1.6
6BC6	Sharp-Cutoff RF Pentode	7BD	5-2	Htr	6.3	0.3	300	150	Pentode Connection		
							300	—	Triode Connection (G_2 & P tied)		
6BC7	Triple Diode	9AX	6-2	Htr	6.3	0.45	Avg Diode Current: (Diode 1 or 3) 35 ma @ +5 v d-c				
6BD4	Sharp-Cutoff Beam Triode	6BD4	T-X	Htr	6.3	0.6	20,000	—	3.8	0.04	1.0
6BD4-A	Sharp-Cutoff Beam Triode	6BD4	T-X	Htr	6.3	0.6	27,000	—	3.8	0.04	1.0
6BD5-GT	Beam Power Amplifier	6CK	T-X	Htr	6.3	0.9	325	325	—	—	—
6BD6	Remote-Cutoff RF Pentode	7BK	5-2	Htr	6.3	0.3	300	125	4.3	5.0	0.005 ⬆
6BD7	Duplex Diode, High-Mu Triode	9Z	6-3	Htr	6.3	0.23	300	—	—	—	—
6BE6	Pentagrid Converter	7CH ⬇	5-2	Htr	6.3	0.3	300	100	Osc $I_{g1} = 0.5$ ma $R_{g1} = 20,000$ ohms		
6BE7	Seven-Grid Limiter-Discriminator	9AA	6-3	Htr	6.3	0.2	250	100	$E_{c1} = 12$ volts RMS $E_{c2} = 12$ volts RMS		
6BF6	Beam Power Amplifier	7BZ	5-3	Htr	6.3	1.2	250	117	Pentode Connection		
							250	—	Triode Connection (G_2 & P tied)		

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

Ⓢ Subminiature type.



Service	Plate Volts	Screen Volts	Neg Grid Volts	Plate Milliamperes	Screen Milliamperes	R_p , Ohms	G_m , μ mhos	μ Factor	Load for Rated Out-put, Ohms	Power Out-put, Watts	Tube Type
Class A Amplifier	250	125	3.0	10	2.3	600,000	1,325	—	—	—	6B8 <i>6B8-G</i> <i>6B8-GT</i>
Class A Amplifier	150	—	$R_k = 100$	10	—	8,700	8,000	70	—	—	6BA4
Class A Amplifier	100	100	$R_k = 270$	5.5	2.0	175,000	2,150	—	—	—	6BA5 Ⓢ
Class A Amplifier	250	100	$R_k = 68$ $R_{g1} = 68$	11	4.2	1,000,000	4,400	—	—	—	6BA6
Converter	250	100	1.0	3.8	10.0	1,000,000	950	—	—	—	6BA7
Class A Amplifier	150	—	$R_k = 100$	14.5	—	4,800	10,000	48	—	—	6BC4
Class A Amplifier	250	150	$R_k = 180$ $R_{g1} = 180$ $R_{g2} = 180$ $R_{g3} = 180$ $R_{g4} = 180$ $R_{g5} = 330$	7.5	2.1	800,000	5,700	—	—	—	6BC6
	125	125	$R_k = 8.0$ $R_{g1} = 100$ $R_{g2} = 4.7$ $R_{g3} = 6.0$ $R_{g4} = 8.0$ $R_{g5} = 330$	8.0	2.4	500,000	6,100	—	—	—	
	100	100	$R_k = 4.7$ $R_{g1} = 6.0$ $R_{g2} = 8.0$ $R_{g3} = 8.0$ $R_{g4} = 8.0$ $R_{g5} = 330$	1.4	1.4	600,000	4,900	—	—	—	
	180	—	$R_k = 6.0$ $R_{g1} = 8.0$ $R_{g2} = 8.0$ $R_{g3} = 8.0$ $R_{g4} = 8.0$ $R_{g5} = 330$	—	—	9,000	4,400	40	—	—	
	250	—	$R_k = 8.0$ $R_{g1} = 8.0$ $R_{g2} = 8.0$ $R_{g3} = 8.0$ $R_{g4} = 8.0$ $R_{g5} = 330$	—	—	6,000	6,000	42	—	—	
Half-Wave Rectifier	Max d-c output current per plate = 12 ma										6BC7
High-Voltage Shunt Regulator	Max unregulated d-c supply voltage = 40,000 v; max d-c plate current = 1.5 ma; max plate dissipation = 20 watts										6BD4
High-Voltage Shunt Regulator	Max unregulated d-c supply voltage = 55,000 volts; max d-c plate current = 1.5 ma; max plate dissipation = 25 watts										6BD4-A
Horizontal Deflection Amplifier	Max positive pulse plate voltage = 4,000 volts; max plate dissipation = 10 watts; max screen dissipation = 3.0 watts; max d-c cathode current = 100 ma										6BD5-GT
Class A Amplifier	250	100	3.0	9	3	800,000	2,000	—	—	—	6BD6
	100	100	1.0	13	5	150,000	2,550	—	—	—	
Class A Amplifier	250	—	3.0	1.0	—	58,000	1,200	70	—	—	6BD7
Converter	250	100	1.5	2.9	6.8	1,000,000	475	—	—	—	6BE6
	100	100	1.5	2.6	7.0	400,000	455	—	—	—	
FM Limiter-Discriminator	250	20	4.4	0.28	1.5	5,000,000	—	—	470,000	—	6BE7
Class A Amplifier	110	110	7.5	36	4	12,000	7,500	—	2,500	1.9	6BF6
Vertical Deflection Amplifier	225	—	30	10	—	2,500	2,700	6.7	—	—	
	Max positive pulse plate voltage; $E_c = 90$ volts; max plate dissipation = 5.0 watts; max d-c cathode current = 40 ma										

§ 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.