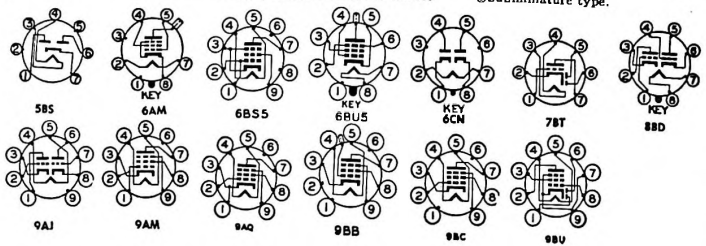
Tube Type	Classification by Construction	Base Connections	Outline Dwg	Type Cathode	Filament Volts	Filament Amp	Max Plate Volts	Max Screen Volts	Capacitance in Micromicrofarads: Input	Output	Grid-plate
6BQ6-G 6BQ6-GA 6BQ6-GTA	Beam Power Amplifier	6AM	12-8 T-X 9-49 or 9-50	Htr	6.3	1.2	600‡	175	—	—	—
6BQ6-GT	Beam Power Amplifier	6AM	9-49 or 9-50	Htr	6.3	1.2	550‡	175	15▲	7.5▲	0.6▲
6BQ7 *6BQ7-A*	High-Frequency Twin Triode	9AJ	6-2	Htr	6.3	0.4	250	—	2.85_1	1.35_1	1.15
6BR7	Sharp-Cutoff RF Pentode	9BC	6-2	Htr	6.3	0.15	300	125	4.25▲	4.0▲	0.01♣▲
6BS5	Beam Power Amplifier	6BS5	6-3	Htr	6.3	0.75	250	250	9.5▲	4.5▲	0.3♣▲
6BS7	Sharp-Cutoff RF Pentode	9BB	6-6	Htr	6.3	0.15	300	125	4.0▲	4.0▲	0.01♣▲
6BT6	Duplex-Diode, High-Mu Triode	7BT	5-3	Htr	6.3	0.3	300	—	—	—	—
6BU5	Sharp-Cutoff Beam Pentode	6BU5	T-X	Htr	6.3	0.15	20,000	100	3.0▲	0.9▲	0.024▲
6BU6	Duplex-Diode Medium-Mu Triode	7BT	5-3	Htr	6.3	0.3	300	—	—	—	—
6BV7	Duplex-Diode Power Amplifier Pentode	9BU	6-3	Htr	6.3	0.8	250	250	11.5▲	9.5▲	0.5▲
6BW6	Beam Power Amplifier	9AM	6-3	Htr	6.3	0.45	315	285	—	—	—
6BW7	Sharp-Cutoff RF Pentode	9AQ	6-2	Htr	6.3	0.3	275	275	10▲	3.5▲	0.01♣▲
6BX4	Full-Wave High-Vacuum Rectifier	5BS	5-3	Htr	6.3	0.6	—	—	—	—	—
6BX6	RF Pentode	9AQ	6-3	Htr	6.3	0.3	250	250	—	—	—
6BX7-GT	Medium-Mu Twin Triode	8BD	9-41	Htr	6.3	1.5	500	—	4.4_1▲ 4.8_2▲	1.1_1▲ 1.2_2▲	4.2_1▲ 4.0_2▲
6BY5-G	Full-Wave High-Vacuum Rectifier	6CN	14-3	Htr	6.3	1.6	Tube Voltage Drop: ♠ 32 v at 175 ma d-c				
6BY5-GA	Full-Wave High-Vacuum Rectifier	6CN	T-X	Htr	6.3	1.6	Tube Voltage Drop: ♠ 32 v at 175 ma d-c				

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, µmhos	µ Factor	Load for Rated Output, Ohms	Power Output, Watts	Tube Type
Horizontal Deflection Amplifier	250 60	150 150	22.5 0	55 225	2.1 25	20,000§ —	5,500 —	— —	— —	— —	6BQ6-G 6BQ6-GA 6BQ6-GTA
	Max positive pulse plate voltage₂ ▣ =6000 volts; max plate dissipation =11 watts; max screen dissipation = 2.5 watts; max d-c cathode current =110 ma										
Horizontal Deflection Amplifier	250 60	150 150	22.5 0	55 225	2.1 25	20,000§ —	5,550 —	— —	— —	— —	6BQ6-GT
	Max positive pulse plate voltage₂ ▣ =5500 volts; max plate dissipation =11 watts; max screen dissipation =2.5 watts; max d-c cathode current =110 ma										
Class A Amplifier♠	150	—	R_k = 220	9	—	5,800§ 6,100§	6,000 6,400	35 39	—	—	*6BQ7* *6BQ7-A*
Class A Amplifier	250	100	3.0	2.1	0.6	2,500,000	1,250	—	—	—	*6BR7*
Class A Amplifier	250	250	7.5	50†	6.0†	17,000§	7,000	—	5,000	4.5	*6BS5*
Class A Amplifier	250	100	3.0	2.1	0.6	2,400,000	1,250	—	—	—	*6BS7*
Class A Amplifier	250 100	— —	3.0 1.0	1.0 0.8	— —	58,000 54,000	1,200 1,300	70 70	— —	— —	*6BT6*
High-Voltage Shunt Regulator	20,000	70	2.4	1.0	0.5	—	—	—	—	—	6BU5
	Max plate dissipation =20 watts; max screen dissipation =0.1 watt; max d-c cathode current =2.5 ma										
Class A Amplifier	250	—	9.0	9.5	—	8,500	1,900	16	10,000	0.30	*6BU6*
Class A Amplifier	250	250	5.0	38†	6.0†	100,000§	10,000	—	8,000	4.0	*6BV7*
Class A Amplifier	315 250 180	225 250 180	13.0 12.5 8.5	34† 45† 29†	2.2† 4.5† 3†	77,000§ 52,000§ 58,000§	3,750 4,100 3,700	— — —	8,500 5,000 5,500	5.5 4.5 2.0	*6BW6*
Class A Amplifier	250	250	R_k = 180	10	3.7	750,000	8,200	—	—	—	*6BW7*
Full-Wave Rectifier	Max d-c output current =90 ma; max peak inverse voltage =1350 volts; rms supply voltage per plate =350 volts; max peak current per plate =270 ma.										*6BX4*
Class A Amplifier	170	170	2.0	10	2.5	400,000	7,200	—	—	—	*6BX6*
Vertical Deflection Amplifier♠	250 100	— —	R_k = 390 0	42 80	— —	1,300 —	7,600 —	10 —	— —	— —	6BX7-GT
	Max positive pulse plate voltage₂ ▣ =2000 volts; max plate dissipation = 10 watts; max plate dissipation ⊕ =12 watts; max d-c cathode current =60 ma										
Full-Wave Rectifier TV Damper Service₃	Max d-c output current =175 ma; max peak inverse voltage =1400 volts; rms supply voltage per plate =375 volts; max peak current per plate =525 ma; Max d-c output current =175 ma; max peak inverse voltage =3000 volts; max peak current per plate =525 ma										6BY5-G
Full-Wave Rectifier TV Damper Service₃	Max d-c output current =175 ma; max peak inverse voltage ▣ =1400 volts; max peak current per plate =525 ma Max d-c output current =175 ma; max peak inverse voltage ▣ =3000 volts; max peak current per plate =525 ma										6BY5-GA

§ 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.
₃—The duration of the pulse voltage must not exceed 15 percent of one scanning cycle.
₁—Section 1.
₂—Section 2.
₄—A resistor of 3 ohms must be put in series with heater.