

PENNSYLVANIA TUBES - AVERAGE CHARACTERISTICS

Type	Construction			Emitter			Note (1) (*) Capacitances in $\mu\text{f.}$			Use	Plate Volts	Negative Grid Volts	Screen Volts	Plate Current Ma.	Screen Current Ma.	Plate Resistance Ohms	Transcon- ductance Micromhos	Ampli- fication Factor	Ohms Load for Rated Power Output	Power Output Milli- watts	Type
	Bulb Size or Style	Class	Basing Diag.	Type	Volts	Amps.	Gp.	Ch.	Cont.												
6S57	Metal	Pentode	8N-1-0	Cathode	6.3	0.15	.004m	5.5	7.0	R-F Amp.	100 250	1.0 3.0	100 100	12.2 9.0	3.1 2.0	130,000 \downarrow 1,000,000 \downarrow	1,950 1,850	6S57
6S17	Metal	Duodiode Tri.	80C-1-0	Cathode	6.3	0.15	1.5	2.8	3.0	Det. Amp.	250	9.0	.....	9.5	.....	8,500	1,900	16.0	.....	6S17
6SU6GT	Metal	Duodiode	8BD-0-0	Cathode	6.3	0.30	.....	.....	.....	Amplifier	250	2.0	.....	2.3	.....	44,000	1,600	7.0	.....	6SU6GT
6SV7	Metal	Diode Pent.	7A2Z-1-0	Cathode	6.3	0.30	0.004m	6.5	6.0	Det. Amp.	250	1.0	150	7.5	2.8	1.5 Meg.	3,600	.....	.....	6SV7
6SZ7	Metal	Duodiode Tri.	80C-1-0	Cathode	6.3	0.15	1.1	2.6	2.8	Amplifier	250	3.0	.....	1.0	.....	58,000	1,200	7.0	.....	6SZ7
6T4	Metal	Triode	7DK	Cathode	6.3	0.235	1.7*	2.6*	0.40*	UHF Osc.	80	150	.....	18	.....	1,860	7,000	13	.....	6T4
6T5	ST-12	Electron Ray	6R-0-0	Cathode	6.3	0.3	.....	.....	.....	Indicator	250 \ddagger	Series Plate Resistor 1.0 Meg. Target Current 3.0 Ma. Grid Bias 92 Volts for Max. Target Illumination.	.....	0.3	.....	95,000	680	65	.....	6T5
6T7G	ST-12	Duodiode Tri.	7V-0-8	Cathode	6.3	0.15	1.7	1.8	3.1	Det. Amp.	100 250	3.0 1.5	.....	1.2	.....	69,000	1,050	70	.....	6T7G
6T8	T-6 1/2	Triple Diode Triode	9E-0-3 & 7	Cathode	6.3	0.45	2.2*	1.6*	1.0*	Det. Amp.	100 250	3	.....	0.80	.....	.....	1,300 1,200	70	.....	6T8
6U4GT	T-9	Diode	4C6-0-0	Cathode	6.3	1.2	.....	.....	.....	H-W Rect.	350 A.C. Volts Per Plate, R.M.S., 125 Ma. Output Current. Condenser Input to Filter.	.....	.....	.....	.....	.....	.....	.....	.....	6U4GT
6U5	T-9	Electron Ray	6R-0-0	Cathode	6.3	0.30	.....	.....	.....	Indicator	250 \ddagger	(Series Plate Resistor 0.5 Meg., Target Current 1.0 Ma., Grid Bias -8.0 for ϕ^0 Shadow.) (Series Plate Resistor 1.0 Meg., Target Current 4.0 Ma.)	.....	.....	.....	.....	.....	.....	.....	6U5
6U6GT	T-9	Beam Amp.	75-0-0	Cathode	6.3	0.75	Power Amp.	110 200	10.5 14.0	110 135	44.0 30.0	4.0 3.0	10,000 \downarrow 20,000 \downarrow	5,600 6,200	2,000 5,500	6U6GT
6U7G	ST-12	Pentode	7R-0-8	Cathode	6.3	0.30	.007m	5.0	9.0	R-F Amp.	100 250	3.0 3.0	100 100	8.0 8.2	2.2 2.0	250,000 800,000	1,500 1,600	6U7G
6V3, 6V3A	T-6 1/2	Triode Pentode	9AE	Cathode	6.3	0.45	1.8 0.006	2.5 5.0	1.0 3.5	VHF Osc. VHF Mixer	150 250	56 \ddagger 68 \ddagger	110 110	18 10	3.5	0.4 Meg.	8,500 5,200	40	6V3, 6V3A
6V4	T-6 1/2	Diode	9BD	Cathode	6.3	1.75	.....	.....	.....	I.V. Damp	250	12.5	.....	45	5.0	.....	4,100	.....	5,000	6V4
6V5GT	T-9	Pentode	9M-0-0	Cathode	6.3	0.6	.....	9.0	10.0	F-W Rect.	350 A.C. Volts Per Plate, R.M.S., 90 Ma. Output Current. Condenser Input to Filter.	.....	.....	.....	.....	.....	.....	.....	.....	6V5GT
6V6	Metal	Beam Amp.	75-1-0	Cathode	6.3	0.45	0.3 0.1*	10.0	11.0	Power Amp.	180 250	8.5 12.5	180 250	29.0 45.0	3.0 4.5	30,000 50,000	3,700 4,100	5,500 9,000	6V6
6V6GT	T-9	Beam Amp.	75-0-0	Cathode	6.3	0.45	0.7*	9.0*	7.5*	Class A1 Class A2 Class AB1 Class AB2 Class AB1 Two Tubes	315 350 250 285	13.5 15.0 15.0 19.0	325 325 250 285	34.0 40.0 70.0 70.0	4.5 5.2 5.0 4.0	80,000 3,750	4,500 5,500	8,500 10,000 \ddagger 8,000 \ddagger	6V6GT 6V6GT 6V6GT
6V7G	ST-12	Duodiode Tri.	7V-0-8	Cathode	6.3	0.30	1.3	1.5	6.0	Det. Amp.	135 180 250	10.5 13.5 20.0	3.7 8.0	11,000 8,500 7,500	750 975 1,100	8.3 8.3 8.3	25,000 20,000 20,000	75 160 350	6V7G
6V8	T-6 1/2	Triple Diode Triode	9AH-0-3	Cathode	6.3	0.45	.....	.....	.....	Det. Amp.	100 250	3.0 3.0	.....	0.8	.....	54,000	1,300	7.0	.....	6V8
6W4GT	T-9	Diode	4C6-0-0	Cathode	6.3	1.2	.....	.....	.....	H-W Rect.	350 A.C. Volts, RMS, 125 Ma. DC Output. Condenser Input to Filter.	.....	.....	.....	.....	.....	.....	.....	.....	6W4GT
6W5G	ST-12	Duodiode	65-0-0	Cathode	6.3	0.9	.....	.....	.....	F-W Rect.	450 A.C. Volts Per Plate, RMS, 90 Ma. Output Current. Condenser Input to Filter.	.....	.....	.....	.....	.....	.....	.....	.....	6W5G
6W6GT	T-9	Beam Amp.	75-0-0	Cathode	6.3	1.20	0.8*	15.0*	9.0*	Power Amp.	110 250	7.5 10.5	110 195	46 49	4.0 2.2	13,000 \downarrow 28,000 \downarrow	8,000 8,000	2,000 4,000	6W6GT
6W7G	ST-12	Pentode	7R-0-8	Cathode	6.3	0.15	.007m	5.0	8.5	R-F Amp.	250	3.0	100	2.0	0.5	1.5 Meg. \downarrow	1,225	6W7G
6X4	T-5 1/2	Duodiode	5BS-0-0	Cathode	6.3	0.60	.....	.....	.....	F-W Rect.	325 Volts RMS Per Plate, 70 Ma. D-C Output. Condenser Input to Filter.	.....	.....	.....	.....	.....	.....	.....	.....	6X4
6X5	Metal	Duodiode	65-0-0	Cathode	6.3	0.60	.....	.....	.....	F-W Rect.	450 A.C. Volts Per Plate, RMS, 70 Ma. Output Current. Condenser Input to Filter.	.....	.....	.....	.....	.....	.....	.....	.....	6X5
6X3GT 6X3WG (3)	T-9	Duodiode	.....	Cathode	6.3	0.60	.....	.....	.....	F-W Rect.	450 A.C. Volts Per Plate, RMS, 70 Ma. Output Current. Choke Input to Filter.	.....	.....	.....	.....	.....	.....	.....	.....	6X3GT 6X3WG (3)
6X8	T-6 1/2	Triode Pentode	9AK	Cathode	6.3	0.45	1.4 0.06	2.6 4.5	1.0 1.4	Oscillator Mixer	100 250 900 \ddagger	100 \ddagger 900 \ddagger 150	8.5	1.6	6,900 \downarrow 4,600	5,800	40	6X8
6Y3G	ST-12	Diode	4A-C-0-0	Cathode	6.3	0.7	.....	.....	.....	H-W Rect.	5,000 A-C Volts Per Plate, RMS, 7.5 Ma. Output Current. Choke or Condenser Input to Filter.	.....	.....	.....	.....	.....	.....	.....	.....	6Y3G
6Y5	ST-12	Duodiode	6I-2-0	Cathode	6.3	0.80	.....	.....	.....	F-W Rect.	350 A-C Volts Per Plate, RMS, 50 Ma. Output Current.	.....	.....	.....	.....	.....	.....	.....	.....	6Y5
6Y6G	ST-14	Beam Amp.	75-0-0	Cathode	6.3	1.25	Power Amp.	135 200	13.5 14.0	135 135	58.0 61.0	3.5 2.2	9,300 18,300	7,000	2,000 3,600	6Y6G 6Y6GA
6Y7G	ST-12	Duodiode	88-0-0	Cathode	6.3	0.60	Power Amp.	180 250	0.0 0.0	7.5 \ddagger	(Class B Operation)	6Y7G
6Z4	ST-12	Duodiode	5D-0-0	Cathode	6.3	0.50	F-W Rect.	325 A-C Volts Per Plate, RMS, 60 Ma. Output Current. Condenser Input to Filter.	6Z4
6Z5/19Z5	ST-12	Duodiode	6K-0-0	Cathode	6.3 12.6	0.80 0.40	F-W Rect.	450 A-C Volts Per Plate, RMS, 60 Ma. Output Current.	6Z5/19Z5
6Z7G	ST-12	Duodiode	8R-0-0	Cathode	6.3	0.30	Power Amp.	135 180	0.0 0.0	3.0 \ddagger 4.2 \ddagger	(Class B Operation) (Class B Operation)	9,000 \ddagger 2,500 \ddagger 4,200 \ddagger	6Z7G

(1) Values are given shielded unless marked with (*).
 (2) Converter tube capacitances given are signal grid to plate.
 (3) Has special mechanical and/or life characteristics.
 \ddagger For two tubes with 40 volts RMS applied to each grid.
 \ddagger With Average Power Input of 320 MW, Grid to Grid.
 * Applied through 250,000 ohms.
 \ddagger For Tube or Section.
 \ddagger Plate and Target Supply Voltage.
 † Pentode Operation.
 † Pentode Operation.
 \ddagger Plate to Plate.
 † Approximate.
 † Cathode Resistor (ohms).
 † Triode Operation.
 † Conversion Transconductance.
 † Applied through 20,000 ohms.
 † Triode Operation.