

PENNSYLVANIA TUBES — AVERAGE CHARACTERISTICS

Type	Construction		Emitter		Note (1) (*) Capacitances in $\mu\mu\text{f}$.				Use	Plate Volts	Negative Grid Volts	Screen Volts	Plate Current Ma.	Screen Current Ma.	Plate Resistance Ohms	Transconductance Micromhos	Amplification Factor	Ohms Load for Stated Power Output	Power Output Milli-watts	Type
	Bulb Size or Style	Class	Basing Diag.	Type	Volts	Amps.	Cgp.	Cin.													Cout
6AN8	T-6½	Tri. Pentode	9DA	Cathode	6.3	0.45	1.5*	9.0*	0.97*	200	6.0	13.0	2.8	5,750 ϕ	3,300	19	.....	.....	6AN8
6AQ5	T-5½	Beam Amp.	7BZ-0-0	Cathode	6.3	0.45	0.4	8.0	2.3*	200	180*	150	4.5	59,000	4,100	.....	5,000	4,500	6AQ5
6AQ6	T-5½	Duodiode Tri.	7BT-0-0	Cathode	6.3	0.15	1.8	1.7	8.5	100	8.5	180	3.0	58,000	3,700	.....	5,500	2,000	6AQ6
6AO7GT	T-9	Duodiode Tri.	8CK-0-0	Cathode	6.3	0.30	2.8	2.3*	1.5*	100	1.0	0.8	1.0	61,000	1,150	70	.....	.....	6AO7GT
6AR5	T-5½	Pentode	6CC-0-0	Cathode	6.3	0.40	.....	.....	.....	250	2.0	2.3	5.7	44,000	1,600	70	7,000	3.2	6AR5
6AR6	T-11	Pentode	6BQ-0-0	Cathode	6.3	1.20	0.55*	11.0*	7.0*	250	16.5	250	34	65,000	2,400	.....	7,600	3.4	6AR6
6AS5	T-5½	Beam Amp.	7CV-0-0	Cathode	6.3	0.8	0.6*	19.0*	6.2*	250	22.5	250	5.0	21,000	5,400	113	.....	.....	6AS5
6AS6	T-5½	Pentode	7CM-0-0	Cathode	6.3	0.175	0.02	4.0	3.0	250	18.0	32	5.5	68,000	2,300	.....	.....	.....	6AS6
6AS7G	ST-16	Duodiode	8BD-0-0	Cathode	6.3	2.5	.....	.....	.....	200	36.0	300	4.0	22,000	4,300	95	.....	.....	6AS7G
6AT6	T-5½	Duodiode Tri.	7BT-0-0	Cathode	6.3	0.30	2.1*	2.3*	1.1*	200	12.5	90	2.0	1,000	6,000	6	.....	.....	6AT6
6AT8	T-6½	Tri. Pentode	9DW-0-0	Cathode	6.3	0.45	1.5	2.4	1.0	100	1.0	0.8	1.0	280	7,000	2	.....	.....	6AT8
6AU4GT	T-9	Diode	4CG-0-0	Cathode	6.3	1.8	0.016	4.7	1.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	6AU4GT
6AU4GTA	T-9	Diode	4CG-0-0	Cathode	6.3	1.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6AU4GTA
6AU5GT	T-9	Pentode	6CK-0-0	Cathode	6.3	1.25	0.5*	11.3*	7.0*	250	20.0	120	35	.....	.....	.....	.....	.....	6AU5GT
6AU6	T-5½	Pentode	7BK-0-2	Cathode	6.3	0.30	.0035m	5.5*	5.0*	100	1.0	100	2.0	600,000 ϕ	3,900	.....	.....	.....	6AU6
6AU8	T-6½	Tri. Pentode	9DX-0-6	Cathode	6.3	0.600	2.2*	2.8*	0.32*	250	1.0	125	7.6	2.5 Meg. ϕ	4,450	.....	.....	.....	6AU8
6AV5GT	T-9	Pentode	6CK-0-0	Cathode	6.3	1.2	.....	.....	.....	250	1.0	150	10.8	2.0 Meg. ϕ	5,200	40	.....	.....	6AV5GT
6AV5GA	T-11 or T-12	Beam Pentode	6CK-0-0	Cathode	6.3	1.2	0.5*	14.0*	7.0*	60	0	150	25	20,000	5,500	4.3**	.....	.....	6AV5GA
6AW7GT	T-9	Duodiode Tri.	7BT-0-0	Cathode	6.3	0.30	2.1	2.3	0.9	250	2.0	120	1.2	62,500	1,600	100	.....	.....	6AW7GT
6AW8	T-6½	Duodiode Tri.	8CQ-1-0	Cathode	6.3	0.3	.....	.....	.....	100	0	.....	0.5	80,000	1,250	100	.....	.....	6AW8
6AW8A	T-6½	Tri. Pentode	9DX-0-6	Cathode	6.3	0.600	2.2	3.4	1.7	200	9	150	4.0	17,500	4,000	80	.....	.....	6AW8A
6AX4GT	T-9	Diode	4CG	Cathode	6.3	1.2	.....	.....	.....	250	180	13	3.5	400,000	9,000	.....	.....	.....	6AX4GT
6AX5GT	T-9	Duodiode	6S-0-0	Cathode	6.3	1.2	.....	.....	.....	350	2.0	100	1.2	.....	.....	.....	.....	.....	6AX5GT
6AX6G	ST-14	Duodiode	7Q-0-0	Cathode	6.3	2.5	.....	.....	.....	350	2.0	100	0.5	.....	.....	.....	.....	.....	6AX6G
6AX7	T-6½	Duodiode	9A-0-0	Cathode	6.3	0.300/0.600	1.7*	1.6*	0.46*	250	1.0	.....	.....	.....	.....	.....	.....	.....	6AX7
6AX8	T-6½	Tri. Pentode	9AE-0-7	Cathode	6.3	0.450	1.8	2.5	1.0	150	56*	18	3.5	5,000	8,500	40	.....	.....	6AX8
6AZ5	T-3	Duodiode	8DF-0-4	Cathode	6.3	0.15	.....	.....	.....	250	120	10	10	400,000	4,800	.....	.....	.....	6AZ5
6AZ8	T-6½	Tri. Pentode	9ED-0-5	Cathode	6.3	0.45	1.7*	2.0*	1.7*	200	6	130	3.0	5,750	3,300	19	.....	.....	6AZ8
6B4G	ST-16	Triode	5S-0-0	Filament	6.3	1.00	0.02*	6.5*	2.2*	200	180	150	9.5	300,000	6,000	.....	.....	.....	6B4G
6B5	ST-14	Duodiode	6AS-0-0	Cathode	6.3	0.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6B5
6B6G	ST-12	Duodiode Tri.	7V-0-0	Cathode	6.3	0.30	1.7	1.7	3.8	250	2.0	100	0.9	91,000	1,100	100	.....	.....	6B6G
6B7	ST-12	Duodi. Pent.	7D-0-6	Cathode	6.3	0.30	.007	3.5*	9.5	100	3.0	100	5.8	300,000	950	.....	.....	.....	6B7
6B7S	ST-12	Duodi. Pent.	7D-6-6	Cathode	6.3	0.30	.007	3.5*	9.5	180	3.0	100	0.9	1.1 Meg.	840	.....	.....	.....	6B7S

Characteristics Same as Type 6X8.

P.I.V. = 4,500 Volts Abs. Max. D.C. Plate Current = 175 Ma. Max.

P.I.V. = 4,500 Volts Abs. Max. D.C. Plate Current = 190 Ma. Max.

Maximum Peak Positive Pulse Plate Voltage = 5,000 Volts, Maximum D-C Plate Current = 100 Ma.

Maximum Plate Dissipation = 10 Watts, Maximum Screen Dissipation = 2.5 Watts.

6AU8 Designed for Series String TV Receivers.

Maximum Peak Positive Pulse Plate Voltage = 5,000 Volts, Maximum D-C Plate Current = 100 Ma.

Maximum Plate Dissipation = 11 Watts, Maximum Screen Dissipation = 9.5 Watts.

Class A1 Amp.

When Eb = 150

P.I.V. = 4,400 Volts Max., D-C Plate Current = 125 Ma. Max.

350 A.C. Volts Per Plate, R.M.S., 195 Ma. D.C. Output. Condenser Input to Filter.

450 A.C. Volts Per Plate, R.M.S., 195 Ma. D.C. Output. Choke Input to Filter.

350 A.C. Volts Per Plate, R.M.S., 250 Ma. Output. Condenser Input to Filter.

Characteristics Same as Type 12AX7. (6AX7 Designed for Series String TV Receivers).

Plate Supply Voltage = 50 Volts, RMS, Each Plate. DC Output Current = 4 Ma. Each Plate.

Capacitor Input to Filter.

Characteristics Same as Type 6N6G.

(1) Values are given shielded unless marked with (*).

(2) Converter tube capacitances given are signal grid to plate; RT input, Mixer Output.

(3) Has special mechanical and/or life characteristics.

†† For two tubes with 40 volts RMS applied to each grid.

‡ Controlled Heater Warm-up Time, applies only for 600 Ma. condition.

□ Applied through 250,000 ohms.

▲ Conversion Transconductance.

** Triode Operation.

‡ Pentode Operation.

‡ Plate to Plate.

‡ Approximate.

■ maximum Cathode Resistor (ohms).