

PENNSYLVANIA TUBES — AVERAGE CHARACTERISTICS

Type	Construction		Emitter		Note (1) (2) Capacitances in μmf .			Use	Plates 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
6B8	Metal	Duodi. Pent.	8E-1-1	Cathode	6.3	0.30	.005m	6.0	9.0									6B8	
6B8G	ST-19	Duodi. Pent.	8E-0-8	Cathode	6.3	0.30	.01m	3.6	9.5									6B8G	
6B8GT	T-9	Duodi. Pent.	8E-1-8	Cathode	6.3	0.30	.0035m*	5.5*	5.0*									6B8GT	
6BA5	T-3	Pentode	8BK-0-0	Cathode	6.3	0.15	.065	3.4	3.6									6BA5	
6BA6	T-5½	Pentode	7BK-0-2	Cathode	6.3	0.30	.0035m*	5.5*	5.0*									6BA6	
6BA7	T-6½	Heptode	8CT-0-6A8	Cathode	6.3	0.3	.19m	9.5	8.3									6BA7	
6BA8	T-6½	Tri. Pentode	9DX-0-6	Cathode	6.3	0.600	2.2 0.03m 2.2 0.03	2.7 11.0 3.6 2.7 1.9 10.0 4.5	2.2 3.6 2.7 1.9 10.0 4.5									6BA8	
6BA8A																		6BA8A	
6BC5	T-5½	Pentode	7BD-0-2A7	Cathode	6.3	0.30	0.02	6.6	2.6									6BC5	
6BC7	T-6½	Tri. Diode	9AX-0-3	Cathode	6.3	0.45	1.4	2.5	1.3									6BC7	
6BC8	T-6½	Duotriode	9AJ-0-9	Cathode	6.3	0.400	1.4	2.5	1.3									6BC8	
6BD4	T-12	Beam Triode	8FU	Cathode	6.3	0.6	1.0*	3.8*	0.04m*									6BD4	
6BD4A	T-12	Beam Triode	8FU-0-0	Cathode	6.3	0.600	1.0*	3.8*	0.04m*									6BD4A	
6BD5GT	T-9	Beam Amp.	6CK-0-0	Cathode	6.3	0.90	.....	.....	.....									6BD5GT
6BD6	T-5½	Pentode	7BK-0-2	Cathode	6.3	0.30	0.004	4.3	5.0									6BD6	
6BD7	T-6½	Duotriode Tri.	9Z-0-7	Cathode	6.3	0.23	1.3	2.4	1.3									6BD7	
6BE6	T-5½	Heptode	7CH-0-0	Cathode	6.3	0.30	0.1m*	5.5*	8.0*									6BE6	
6BF5	T-5½	Pentode	7BZ-0-0	Cathode	6.3	1.2	7.5*	7.0*	6.0*									6BF5	
6BF6	T-5½	Duotriode Tri.	7BT-0-0	Cathode	6.3	0.30	2.0	1.8	1.4									6BF6	
6BF7	T-3	Duotriode	8DG-0-0	Cathode	6.3	0.30	1.5	2.0	2.0									6BF7	
6BF7A	T-3	Duotriode	8DG-0-0	Cathode	6.3	0.3	1.5	2.0	2.0									6BF7A	
6BF7W (3)	T-3	Duotriode	8DG-0-0	Cathode	6.3	0.30	1.5	2.0	2.0									6BF7W (3)	
6BG6G	ST-16	Beam Amp.	5BT-0-0	Cathode	6.3	0.90	0.34m*	12.0*	6.5*									6BG6G	
6BG6GA	T-12	Beam Amp.	5BT-0-0	Cathode	6.3	0.90	0.8*	11.0*	6.0*									6BG6GA	
6BG7	T-3	Duotriode	8DG-0-0	Cathode	6.3	0.30	1.5	2.0	2.0									6BG7	
6BH6	T-5½	Pentode	7CM-0-7	Cathode	6.3	0.15	0.0035m*	5.4*	4.4*									6BH6	
6BH8	T-6½	Tri. Pentode	9DX-0-6	Cathode	6.3	0.600	2.4*	2.6*	3.8*									6BH8	
6BJ5	T-5½	Pentode	6CH	Cathode	6.3	0.64	.....	.....	.....									6BJ5
6BJ6	T-5½	Pentode	7CM-0-7	Cathode	6.3	0.15	.0035m*	4.5*	5.0*									6BJ6	
6BJ7	T-6½	Tri. Diode	9AX-0-3	Cathode	6.3	0.45	.....	.....	.....									6BJ7
6BJ8	T-6½	Duotriode Tri.	9ER-0-0	Cathode	6.3	0.600	2.6*	2.8*	0.38*									6BJ8	
6BK4	T-12	Beam Triode	8GC-0-0	Cathode	6.3	0.2	0.03*	2.6*	1.0*									6BK4	
6BK5	T-6½	Beam Amp.	9BQ-0-0	Cathode	6.3	1.2	0.6*	13*	5.0*									6BK5	
6BK6	T-5½	Duotriode Tri.	7BT-0-2	Cathode	6.3	0.30	.....	.....	.....									6BK6
6BK7	T-6½	Duotriode	9AJ-0-9	Cathode	6.3	0.45	1.9	3.0	1.1									6BK7	

Characteristics Same as Type 6B7, Except Capacitances.
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20,000 Max. D.C. Plate Volts. 125 Max. D.C. Grid Volts. 1.5 Ma. Max. D.C. Plate Current.
 27,000 Max. D.C. Plate Volts. 125 Max. D.C. Grid Volts. 1.5 Ma. Max. D.C. Plate Current.
 Maximum Peak Positive Pulse Plate Voltage = 4,000 Volts. Maximum D.C. Cathode Current = 100 Ma.
 Maximum Plate Dissipation = 10 Watts. Maximum Screen Dissipation = 3.0 Watts.

High Permeance Diode

Ruggedized Version of Type 6BF7.

Max. Peak Positive Plate Voltage = 6,600 Volts. Max. D.C. Cathode Current = 110 Ma.
 Max. Plate Dissipation = 20 Watts. Max. Screen Dissipation = 3.2 Watts.

Each Section Similar to Each Section of a 6AL5.
 (6B8H8 Designed for Series String TV Receivers.)
 (6B8J8 Designed for Series String TV Receivers.)
 (6B8J8 Designed for Series String TV Receivers.)

(1) Values are given shielded unless marked with (*).
 (2) Converter tube capacitances given are signal grid to plate; RF input, Mixer Output.
 † Controlled Heater Warm-up Time, applies only for 600 Ma. condition.
 ‡ Has special mechanical and/or life characteristics.
 § With Average Power Input of 350 Mw. Grid to Grid.
 ¶ Plate and Target Supply Voltage.
 * Applied through 20,000 ohms.
 † Conversion Transconductance.
 ‡ Triode Operation.
 § Pentode Operation.
 ¶ Plate to Plate.
 * Approximate.
 m maximum
 n Cathode Resistor
 (ohms).