

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	Baseing Diag.	Type	Volts	Amps.	Cgp.	Cin.													Cout
50	ST-16	Triode	4D-0-0	Filament	7.5	1.25	7.1*	4.2*	3.4*	300	54.0	35.0	4.0	2,000	1,900	3.8	4,600	1,600	50	
50A1	T-6½	Ballast	9CM	.....	.....	.....	.....	.....	.....	350	63.0	45.0	4.0	1,900	2,000	3.8	4,100	2,400	50A1
50A5	Lock-in Beam Amp.	6AA-L-0	.....	Cathode	50.0	0.15	.....	.....	.....	400	70.0	55.0	1.5	10,000	8,900	.....	9,000	2,100	50A5
50AX6G	ST-14	Duodiode	7Q-0-0	Cathode	50.0	0.3	.....	.....	.....	450	84.0	55.0	4.0	35,000	8,250	.....	3,000	4,300	50AX6G
50B5	T-5½	Beam Amp.	7BZ-0-0	Cathode	50.0	0.15	0.5*	13.0*	6.5*	110	110	49	4.0	14,000	7,500	.....	2,500	1,900	50B5
50BK5	T-6½	Beam Amp.	9R0-0-0	Cathode	50	0.150	0.6*	13*	5.0*	110	7.5	35	3.5	0.1 Meg.	8,500	.....	6,500	3,500	50BK5
50C5	T-5½	Beam Amp.	7CV-0-0	Cathode	50.0	0.15	0.55	.....	.....	110	7.5	49	4.0	10,000	7,500	.....	2,500	1,900	50C5
50C6G	ST-14	Beam Amp.	7S-0-0	Cathode	50.0	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50C6G
50C6GA	T-12	Beam Amp.	.....	Cathode	50.0	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50C6GA
50L6GT	Lock-in	Duodiode	7DX-L-0	Cathode	50.0	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50L6GT
50X6	T-9	Duodiode	7Q-0-0	Cathode	50.0	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50X6
50Y6GT	T-9	Duodiode	8AN-0-0	Cathode	46.0	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50Y6GT
50Y7GT	T-9	Duodiode	8AN-0-0	Cathode	46.0	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50Y7GT
50Z6G	ST-12	Duodiode	7Q-0-0	Cathode	50.0	0.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50Z6G
50Z7G	ST-12	Duodiode	8AN-0-0	Cathode	50.0	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50Z7G
EF50	Metal Glass	Pentode	9C-L-5 & 8	Cathode	6.3	0.3	0.007m	8.0	5.0	.....	.....	10.0	3.1	600,000	6,300	.....	.....	.....	EF50
52	ST-14	Dual Grid Triode	5C-0-0	Filament	6.3	0.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	52
VT52	S-17	Triode	4D-0-0	Filament	7.0	1.18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	VT52
53	ST-14	Duodiode	7B-0-0	Cathode	2.5	2.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53
55	ST-12	Duodiode Tri.	6G-0-5	Cathode	2.5	1.0	1.5*	1.5*	4.3*	.....	.....	.....	.....	.....	.....	.....	.....	.....	55
55S	ST-12	Duodiode Tri.	6G-5-5	Cathode	2.5	1.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55S
56	ST-12	Triode	5A-0-0	Cathode	2.5	1.0	2.8*	3.5*	2.5*	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
56S	ST-12	Triode	5A-4-0	Cathode	6.3	0.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56S
56AS	ST-12	Triode	5A-4-0	Cathode	6.3	0.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56AS
57	ST-12	Pentode	6F-0-5	Cathode	2.5	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57
57S	ST-12	Pentode	6F-5-5	Cathode	2.5	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57S
57AS	ST-12	Pentode	6F-5-5	Cathode	6.3	0.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57AS
58	ST-12	Pentode	6F-0-5	Cathode	2.5	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	58
58S	ST-12	Pentode	6F-5-5	Cathode	2.5	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	58S
58AS	ST-12	Pentode	6F-5-5	Cathode	6.3	0.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	58AS
59	ST-16	Pentode	7A-0-0	Cathode	2.5	2.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
70A7GT	T-9	Diode Beam Amplifier	8AB-0-0	Cathode	70.0	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	70A7GT
70L7GT	T-9	Diode Beam Amplifier	8AA-0-0	Cathode	70.0	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	70L7GT
71A	ST-14	Triode	4D-0-0	Filament	5.0	0.25	7.5*	3.2*	2.9*	.....	.....	.....	.....	.....	.....	.....	.....	.....	71A
75	ST-12	Duodiode Tri.	6G-0-5	Cathode	6.3	0.30	1.7*	1.7*	3.8*	.....	.....	.....	.....	.....	.....	.....	.....	.....	75
75S	ST-12	Duodiode Tri.	6G-5-5	Cathode	6.3	0.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75S
76	ST-12	Triode	5A-0-0	Cathode	6.3	0.30	2.8*	3.5*	2.5*	.....	.....	.....	.....	.....	.....	.....	.....	.....	76
77	ST-12	Pentode	6F-0-3	Cathode	6.3	0.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77
78	ST-12	Pentode	6F-0-5	Cathode	6.3	0.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	78
79	ST-12	Duodiode	6H-0-0	Cathode	6.3	0.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	79
80	ST-14	Duodiode	4C-0-0	Filament	5.0	2.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	80
81	ST-16	Diode	4B-0-0	Filament	7.5	1.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	81
82	ST-14	Duodiode	4C-0-0	Filament	2.5	3.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	82
83	ST-16	Duodiode	4C-0-0	Filament	5.0	3.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	83
83V	ST-14	Duodiode	4AD-0-0	Cathode	5.0	2.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	83V
84/6Z4	ST-12	Duodiode	5D-0-0	Cathode	6.3	0.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	84/6Z4

Avg. Operating Current—52 Ma. at 30 Volts; 54 Ma. at 50 Volts; 56 Ma. at 65 Volts.
 Characteristics Same as Type 95L6GT.
 935 Volts RMS Per Plate, 75 Ma. D-C Output Per Plate.
 117 Volts RMS Per Plate, 75 Ma. D-C Output.
 Characteristics Same as Type 95Z6GT.
 117 A-C Volts, RMS, 65 Ma. Output with Panel Lamp.
 150 A-C Volts, RMS, 65 Ma. Output Per Plate with Panel Lamp.
 235 A-C Volts, RMS, 65 Ma. Output Per Plate with Panel Lamp.
 935 Volts RMS Per Plate, 250 Ma. D-C Output.
 117 A-C Volts Per Plate, RMS, 65 Ma. Output Current. With Current passing thru Panel Lamp Section.
 235 A-C Volts, RMS, 65 Ma. Output Current Per Plate.
 250 160 = 250
 110 0 43 G₂ to P
 180 0 1.5# G₁ to G₂
 220 43.5 29.0
 250 160 = 250
 Characteristics Same as Type 6A6.
 Characteristics Same as Type 6V7G.
 950 13.5 5.0
 250 20.0 13.8
 Characteristics Same as Type 56.
 100 3.0 100 9.0 0.5
 250 3.0 100 9.0 0.5
 250* 4.3 100 (Plate Current to be adjusted to 0.1 Ma. with no Input Signal.)
 Characteristics Same as Type 57.
 100 3.0 100 8.0 2.2
 250 3.0 100 8.2 2.0
 Characteristics Same as Type 58.
 950** 28.0 Tie G₂ to P 26.0 2.300 2,600
 350** 18.0 Tie G₂ to G 20.0 40,000 40,000
 400** 0.0 and Su to P 26.0 (Class B Operation Two Tubes)
 125 A-C Volts Per Plate, RMS, 60 Ma. Output Current.
 110 7.5 110 40 3
 117 A-C Volts, RMS, 70 Ma. Output Current. Condenser Input to Filter.
 110 7.5 110 40 3
 90 16.5 10.0
 135 27.0 17.3
 180 40.5 20.0
 250 2.0 0.9
 950 13.5 5.0
 250 20.0 13.8
 (Plate Current to be adjusted to 0.2 Ma. with no Input Signal.)
 100 1.5 60.0 1.7 0.4
 250 3.0 60.0 2.3 0.5
 300 4.0 90.0 5.4 1.3
 180 3.0 75.0 4.0 1.0
 250 3.0 100 7.0 1.7
 180 0.0 7.5#
 250 0.0 10.5#
 350 A-C Volts Per Plate, RMS, 125 Ma. Output Current. Condenser Input to Filter.
 500 A-C Volts Per Plate, RMS, 125 Ma. Output Current. Choke Input to Filter.
 700 A-C Volts Per Plate, RMS, 85 Ma. Output Current. Condenser Input to Filter.
 450 A-C Volts Per Plate, RMS, 115 Ma. Output Current. Condenser Input to Filter.
 450 A-C Volts Per Plate, RMS, 225 Ma. Output Current. Condenser Input to Filter.
 375 A-C Volts Per Plate, RMS, 175 Ma. Output Current. Condenser Input to Filter.
 305 A-C Volts Per Plate, RMS, 125 Ma. Output Current. Condenser Input to Filter.