



6SL7-GT

HIGH-MU TWIN TRIODE

6SL7-GT

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage. 6.3 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances (Approx.):^o

	Unit No.1	Unit No.2	
Grid to plate	2.8	2.8	μ f
Grid to cathode and heater	3.0	3.4	μ f
Plate to cathode and heater	3.8	3.2	μ f

Mechanical:

Mounting Position. Any

Maximum Overall Length 3-5/16"

Maximum Seated Length. 2-3/4"

Maximum Diameter 1-9/32" ←

Bulb T-9

Base Intermediate-Shell Octal 8-Pin (JETEC No.88-6) ←

or Short Intermediate-Shell Octal 8-Pin (JETEC No.88-46)

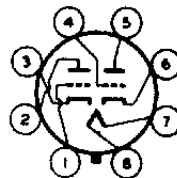
Basing Designation for BOTTOM VIEW 88D

Pin 1-Grid of
Unit No.2

Pin 2-Plate of
Unit No.2

Pin 3-Cathode of
Unit No.2

Pin 4-Grid of
Unit No.1



Pin 5-Plate of
Unit No.1

Pin 6-Cathode of
Unit No.1

Pin 7-Heater

Pin 8-Heater

AMPLIFIER—Class A₁

Values are for Each Unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 300 max. volts ←

GRID VOLTAGE:

Positive bias value. 0 max. volts

PLATE DISSIPATION. 1 max. watt

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . . 90 max. volts

Heater positive with respect to cathode. . . 90 max. volts

Characteristics:

Plate Voltage. 250 volts

^o With close-fitting shield (JETEC No.306) connected to cathode. ←

←Indicates a change.

NOV. 5, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

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HIGH-MU TWIN TRIODE

Grid Voltage	-2	volts
Amplification Factor	70	
Plate Resistance (Approx.)	44000	ohms
Transconductance	1600	μ hos
Plate Current	2.3	ma

→ **Typical Operation as Resistance-Coupled Amplifier:**

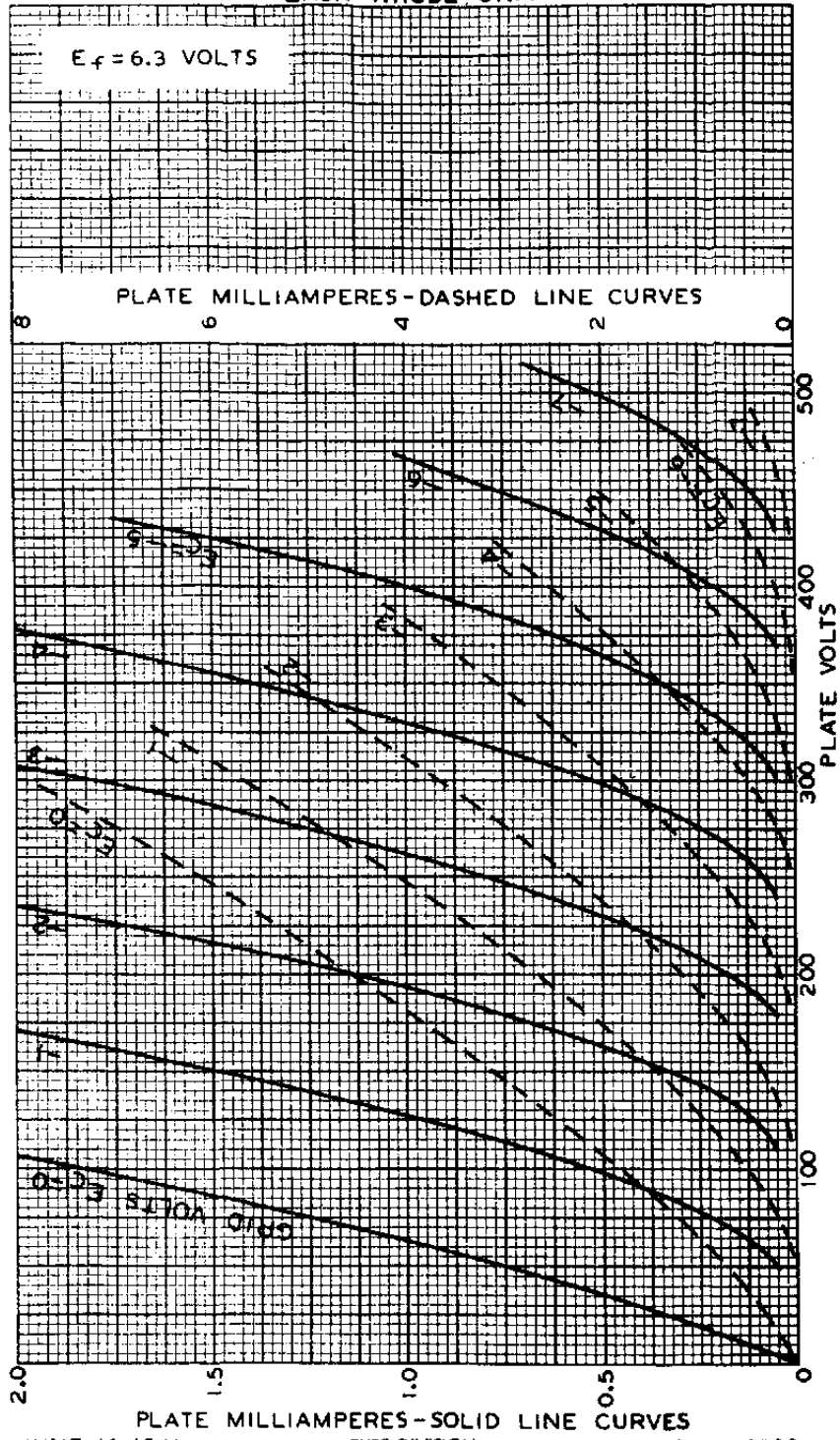
See *RESISTANCE-COUPLED AMPLIFIER CHART No. 7*
at front of this Section



6SL7-GT

AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT

6SL7-GT



JUNE 16, 1941

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6298



RESISTANCE-COUPLED AMPLIFIER CHARTS (Continued)

See Circuit Diagram 1									
7									
E _{bb}	R _p	R _g	R _{g2}	R _k	C _{g2}	C _k	C	E _o	V.G.
90	0.1	0.1	—	4200	—	2.5	0.025	5.4	22◆
		0.22	—	4600	—	2.2	0.014	7.5	27◆
		0.47	—	4800	—	2.0	0.0065	9.1	30◆
	0.22	0.22	—	7000	—	1.5	0.013	7.3	30◆
		0.47	—	7800	—	1.3	0.007	10	34■
		1.0	—	8100	—	1.1	0.0035	12	37★
	0.47	0.47	—	12000	—	0.83	0.006	10	36◆
		1.0	—	14000	—	0.7	0.0035	14	39★
		2.2	—	15000	—	0.6	0.002	16	41★
180	0.1	0.1	—	1900	—	3.6	0.027	19	30★
		0.22	—	2200	—	3.1	0.014	25	35
		0.47	—	2500	—	2.8	0.0065	32	37
	0.22	0.22	—	3400	—	2.2	0.014	24	38
		0.47	—	4100	—	1.7	0.0065	34	42
		1.0	—	4600	—	1.5	0.0035	38	44
	0.47	0.47	—	6600	—	1.1	0.0065	29	44
		1.0	—	8100	—	0.9	0.0035	38	46
		2.2	—	9100	—	0.8	0.002	43	47
300	0.1	0.1	—	1500	—	4.4	0.027	40	34
		0.22	—	1800	—	3.6	0.014	54	38
		0.47	—	2100	—	3.0	0.0065	63	41
	0.22	0.22	—	2600	—	2.5	0.013	51	42
		0.47	—	3200	—	1.9	0.0065	65	46
		1.0	—	3700	—	1.6	0.0035	77	48
	0.47	0.47	—	5200	—	1.2	0.006	61	48
		1.0	—	6300	—	1.0	0.0035	74	50
		2.2	—	7200	—	0.9	0.002	85	51

◆ At 2 volts (RMS) output. ■ At 3 volts (RMS) output. ★ At 4 volts (RMS) output

6AQ6, 6AQ7, 6AT6, 6Q7, 6Q7-GT/G,
6SL7-GT (one section), 6SZ7, 6T8, 12AT6
12Q7, 12Q7-GT/G, 12SL7-GT, 19T8