



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	μf
Grid to cathode and heater	3.0	3.4	μf
Plate to cathode and heater	3.8	3.2	μf

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 (JEDEC No.88-6)
or Short Intermediate-Shell Octal 8-Pin (JEDEC No.88-46) ←

Basing Designation for BOTTOM VIEW 88D

- | | | |
|------------------------------|--|------------------------------|
| Pin 1 - Grid of Unit No.2 | | Pin 5 - Plate of Unit No.1 |
| Pin 2 - Plate of Unit No.2 | | Pin 6 - Cathode of Unit No.1 |
| Pin 3 - Cathode of Unit No.2 | | Pin 7 - Heater |
| Pin 4 - Grid of Unit No.1 | | 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 (JEDEC No.308) connected to cathode. ←

←Indicates a change.

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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:**

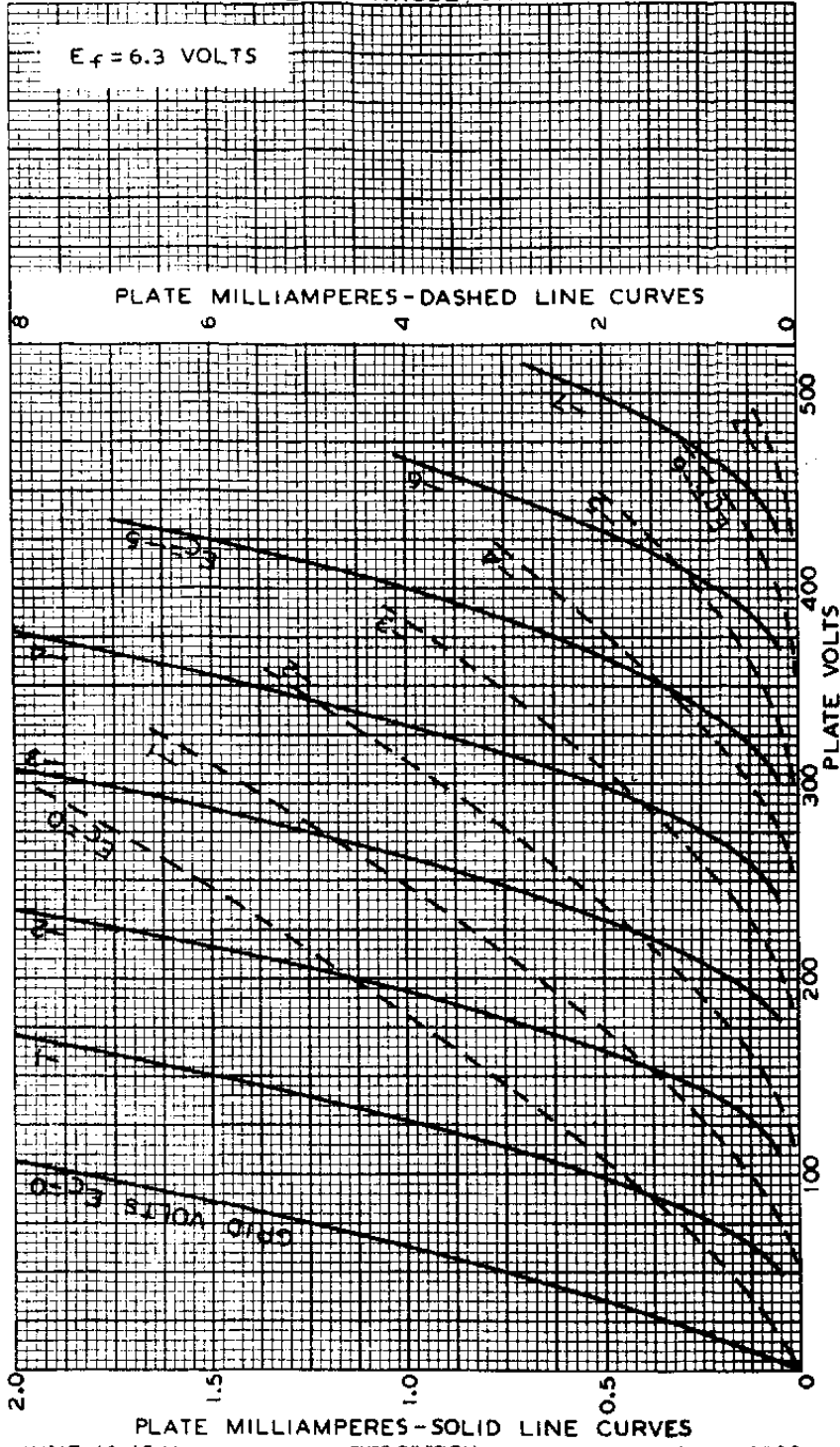
See *RESISTANCE-COUPLED AMPLIFIER CHART No. 7*
at front of this Section



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AVERAGE PLATE CHARACTERISTICS EACH TRIODE UNIT



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 \blacklozenge
		0.22	-	4600	-	2.2	0.014	7.5	27 \blacklozenge
		0.47	-	4800	-	2.0	0.0065	9.1	30 \blacklozenge
	0.22	0.22	-	7000	-	1.5	0.013	7.3	30 \blacklozenge
		0.47	-	7800	-	1.3	0.007	10	34 \blacksquare
		1.0	-	8100	-	1.1	0.0035	12	37 \star
	0.47	0.47	-	12000	-	0.83	0.006	10	36 \blacklozenge
		1.0	-	14000	-	0.7	0.0035	14	39 \star
		2.2	-	15000	-	0.6	0.002	16	41 \star
180	0.1	0.1	-	1900	-	3.6	0.027	19	30 \star
		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