



6G6-G

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POWER AMPLIFIER PENTODE

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.15	amp.
Direct Interelectrode Capacitances (Approx.): ^o		
Grid to Plate	0.5	μmf
Input	5.5	μmf
Output	7.0	μmf
Maximum Overall Length		4-1/8"
Maximum Seated Height		3-9/16"
Maximum Diameter		1-9/16"
Bulb		ST-12
Base	Small Shell Octal 7-Pin	
Pin 1-No Connection		Pin 5-Grid
Pin 2-Heater		Pin 7-Heater
Pin 3-Plate		Pin 8-Cathode
Pin 4-Screen		
Mounting Position	BOTTOM VIEW (G-7S)	Any

KEY

Maximum Ratings Are Design-Center Values

AMPLIFIER - Pentode Connection

Plate Voltage	300 max. volts	
Screen Voltage	300 max. volts	←
Plate Dissipation	2.75 max. watts	
Screen Dissipation	0.75 max. watt	
D-C Heater-Cathode Potential	90 max. volts	←

Typical Operation and Characteristics— Class A₁ Amplifier:

Plate Voltage	135	180	volts
Screen Voltage	135	180	volts
Grid Voltage*	-6	-9	volts
Peak A-F Grid Voltage	6	9	volts
Zero-Sig. Plate Cur.	11.5	15	ma.
Zero-Sig. Screen Cur.	2	2.5	ma.
Plate Resistance	0.170	0.175	megohm
Transconductance	2100	2300	μmhos
Load Resistance	12000	10000	ohms
Total Harmonic Dist.	7.5	10	%
Max.-Sig. Power Output	0.6	1.1	watts

AMPLIFIER - Triode Connection[▲]

Plate Voltage	300 max. volts	←
Plate Dissipation	3.5 max. watts	←
D-C Heater-Cathode Potential	90 max. volts	←

Typical Operation and Characteristics — Class A₁ Amplifier:

Plate Voltage	180	volts
Grid Voltage*	-12	volts
Peak A-F Grid Voltage	12	volts
Amplification Factor	9.5	
Plate Resistance	4750	ohms
Transconductance	2000	μmhos
Plate Current	11	ma.

← Indicates a change. ^o, [▲], * : See next page.

APRIL 1, 1944

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POWER AMPLIFIER PENTODE

(continued from preceding page)

Load Resistance	12000	ohms
Total Harmonic Distortion	5	%
Max.-Sig. Power Output	0.25	watt

° With no external shield.

* Under maximum rated conditions, the d-c resistance in the grid circuit may be as high as 0.5 megohm with cathode bias or 0.1 megohm with fixed bias.

▲ With screen connected to plate.

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DATA

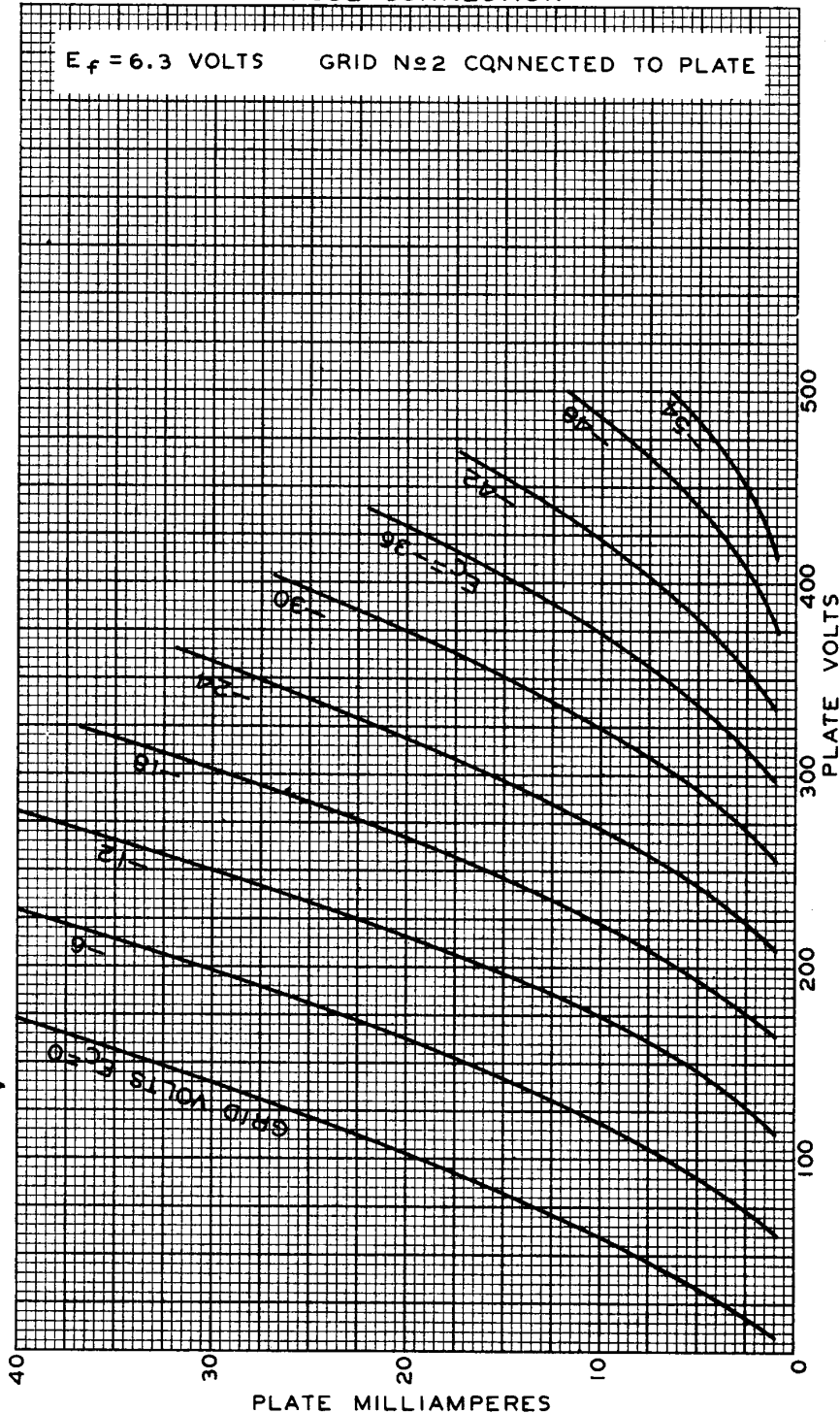


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AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION

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$E_f = 6.3$ VOLTS GRID No 2 CONNECTED TO PLATE



AUG. 12, 1943

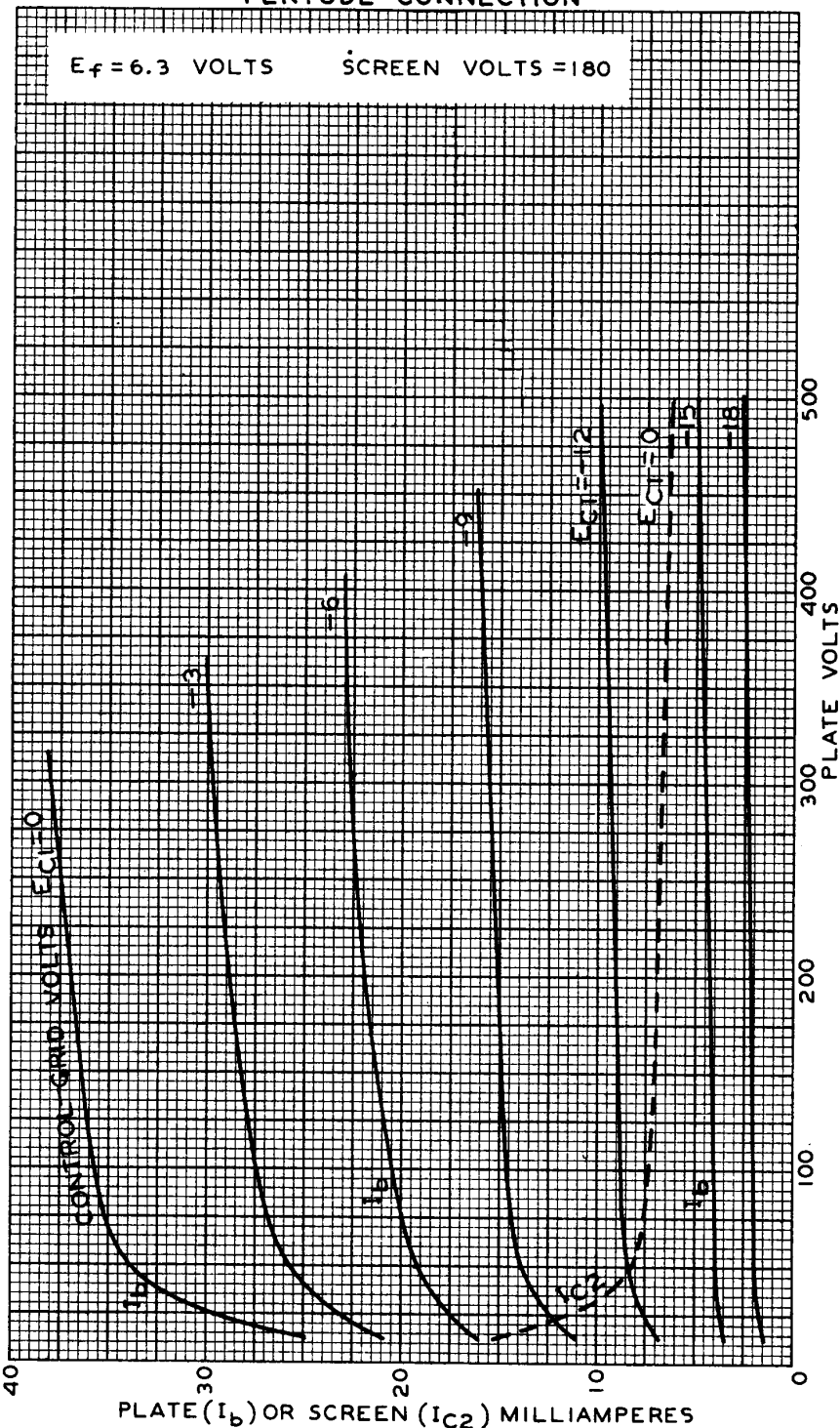
PLATE MILLIAMPERES
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6G6-G AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION



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92CM-4956R1