



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.): <sup>o</sup>		
Grid to Plate	0.5	$\mu\mu\text{f}$
Input	5.5	$\mu\mu\text{f}$
Output	7.0	$\mu\mu\text{f}$
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

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 A<sub>1</sub> 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	$\mu\text{mhos}$
Load Resistance	12000	10000	ohms
Total Harmonic Dist.	7.5	10	%
Max.-Sig. Power Output	0.6	1.1	watts

AMPLIFIER - Triode Connection<sup>▲</sup>

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

Typical Operation and Characteristics — Class A<sub>1</sub> 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	$\mu\text{mhos}$
Plate Current	11	ma.

← Indicates a change.

<sup>o</sup>, <sup>▲</sup>, \* : See next page.

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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

o 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.

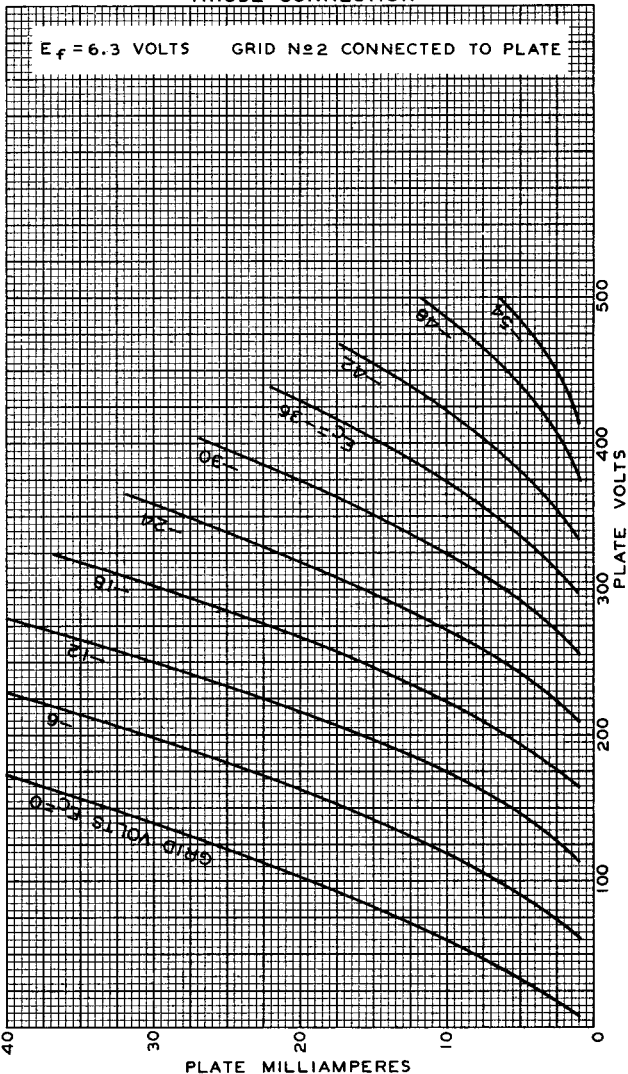
▲ With screen connected to plate.



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# AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



AUG. 12, 1943

RCA VICTOR DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6122R1

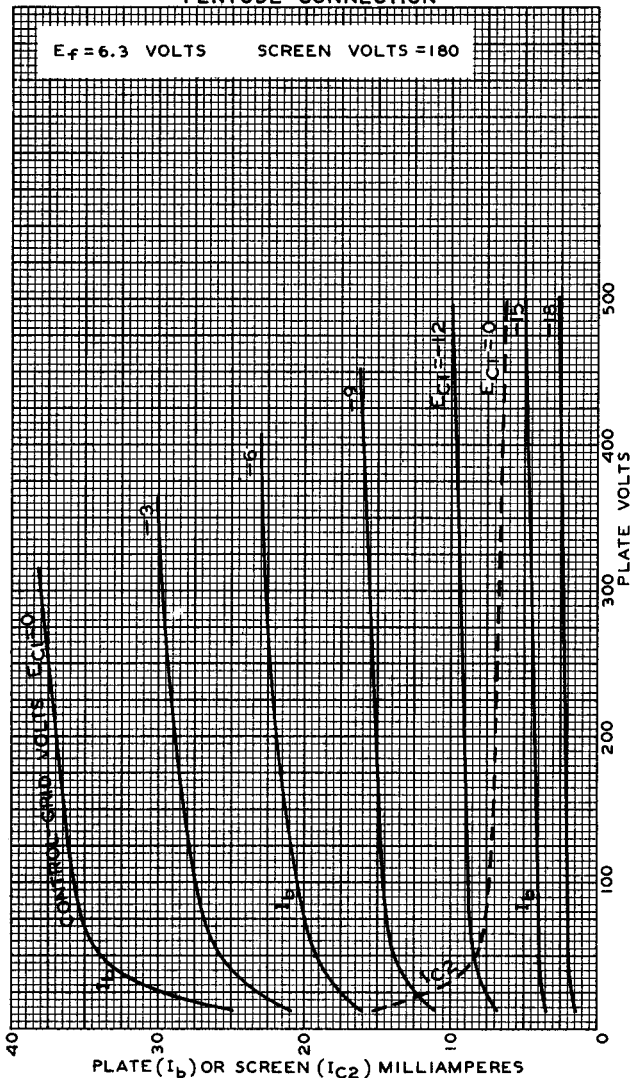
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# 6G6-G AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION

$E_f = 6.3$  VOLTS

SCREEN VOLTS = 180



AUG. 19, 1943

RCA VICTOR DIVISION

92CM-4956R1

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY