



IG5-G

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**POWER AMPLIFIER PENTODE**

Filament	Coated	
Voltage	2.0	d-c volts
Current	0.12	amp.
Maximum Overall Length		4-5/8"
Maximum Diameter		1-13/16"
Bulb		ST-14
Base		Medium Shell Octal 7-Pin
Pin 1-No Connection		Pin 5-Grid
Pin 2-Filament +		Pin 7-Filament -
Pin 3-Plate		Pin 8-No Connection
Pin 4-Screen		



Mounting Position BOTTOM VIEW (G-6X) Vertical, Base Down \diamond

AMPLIFIER - Class A₁

Plate Voltage				135 max. volts
Screen Voltage				135 max. volts
Plate Dissipation				1.25 max. watts
Screen Dissipation				0.6 max. watt
Typical Operation:				
Filament Voltage	2.0	2.0	2.0	d-c volts
Plate Voltage	90	124	135	volts
Screen Voltage	90	124	135	volts
Grid Voltage \square	-6	-11	-13.5	volts
Peak A-F Grid Volt.	6	9.9	9.2	volts
Zero-Sig. Plate Cur.	8.5	10	8.7	ma.
Max.-Sig. Plate Cur.	8.7	10.7	9.7	ma.
Zero-Sig. Screen Cur.	2.5	3	2.5	ma.
Max.-Sig. Screen Cur.	3	4.3	3.6	ma.
Plate Res. (approx.)	0.133	0.145	0.160	megohm
Transconductance	1500	1500	1550	μ mhos
Load Resistance	8500	8000	9000	ohms
Tot. Harmonic Dist.	6	10.5	11	%
Second Harmonic Dist.	3	7	8	%
Third Harmonic Dist.	5	7.5	7	%
Max.-Sig. Power Output	0.25	0.6*	0.55**	watt

\square The d-c resistance in the grid circuit should be limited to 1.0 megohm with cathode bias, or 0.5 megohm with fixed bias.

* With peak a-f grid voltage of 11 volts, a power output of 0.65 watt can be obtained with 13% total distortion (6% 2nd, 11% 3rd).

** With peak a-f grid voltage of 13.5 volts, a power output of 0.75 watt can be obtained with 18% total distortion (9% 2nd, 15% 3rd).

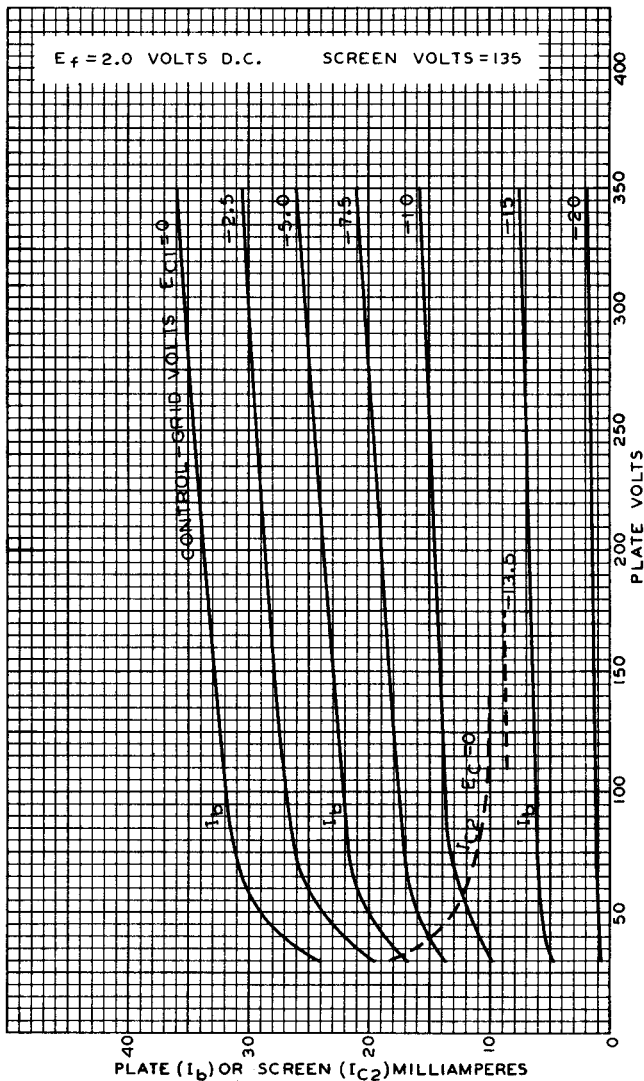
\diamond Horizontal operation permitted if pins 2 and 7 are in vertical plane.

1G5-G



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AVERAGE PLATE CHARACTERISTICS



JULY 29, 1938

RCA RADIIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

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