

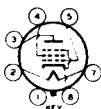


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BEAM POWER AMPLIFIER

Heater#	Coated Unipotential Cathode	
Voltage	12.6	a-c or d-c volts
Current	0.15	amp.
Direct Interelectrode Capacitances (Approx.): ^o		
Grid to Plate	0.3	μ f
Input	9.0	μ f
Output	9.0	μ f
Maximum Overall Length	3-1/4"	
Maximum Seated Height	2-11/16"	
Maximum Diameter	1-5/16"	
Bulb	Metal Shell, MT-8	
Base	Small Wafer Octal 7-Pin	
Pin 1 - Shell		
Pin 2 - Heater		
Pin 3 - Plate		
Pin 4 - Screen		
Pin 5 - Grid		
Pin 7 - Heater		
Pin 8 - Cathode		
Mounting Position	Any	



BOTTOM VIEW (7AC)

Maximum Ratings Are Design-Center Values

AMPLIFIER

Plate Voltage	250 max.	volts
Screen Voltage	250 max.	volts
Plate Dissipation	7.5 max.	watts
Screen Dissipation	1.5 max.	watts

Operating Conditions and Characteristics—Class A₁ Amplifier:

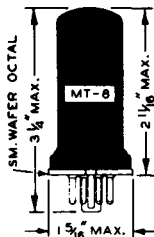
Plate	250	volts
Screen	250	volts
Grid*	-12.5	volts
Peak A-F Grid Voltage	12.5	volts
Zero-Signal Plate Current	30	ma.
Max.—Signal Plate Current	32	ma.
Zero-Signal Screen Current	3.5 approx.	ma.
Max.—Signal Screen Current	5.5 approx.	ma.
Plate Resistance	70000 approx.	ohms
Transconductance	3000	μ hos
Load Resistance	7500	ohms
Total Harmonic Distortion	7	%
Max.—Signal Power Output	3.4	watts

* In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

* The d-c resistance in the grid circuit should not exceed 0.1 megohm when fixed bias is used, or 0.5 megohm when cathode bias is used.

^o with shell connected to cathode.

→ Indicates a change.



May 1, 1942

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

TENTATIVE DATA

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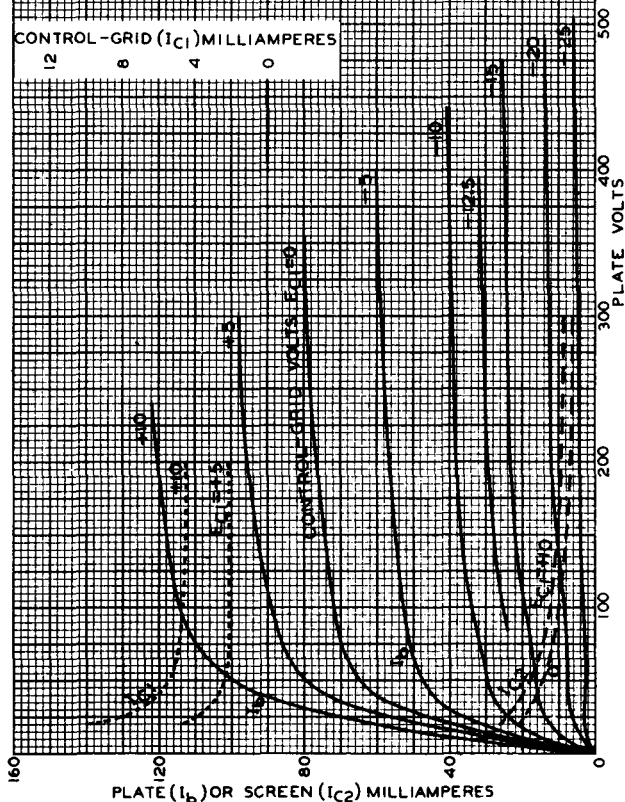
AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION

 $E_f = 12.6$ VOLTS

SCREEN VOLTS = 250

CONTROL-GRID (I_{C1}) MILLIAMPERES

12 8 4 0



OCT. 14, 1941

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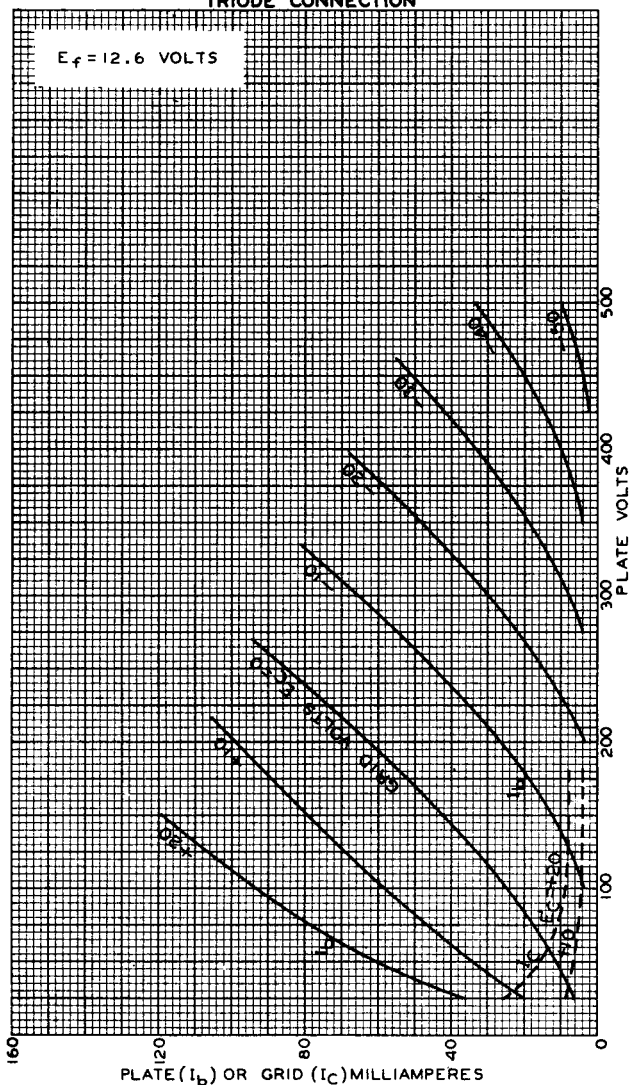
92C-6329



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AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION

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OCT. 13, 1941

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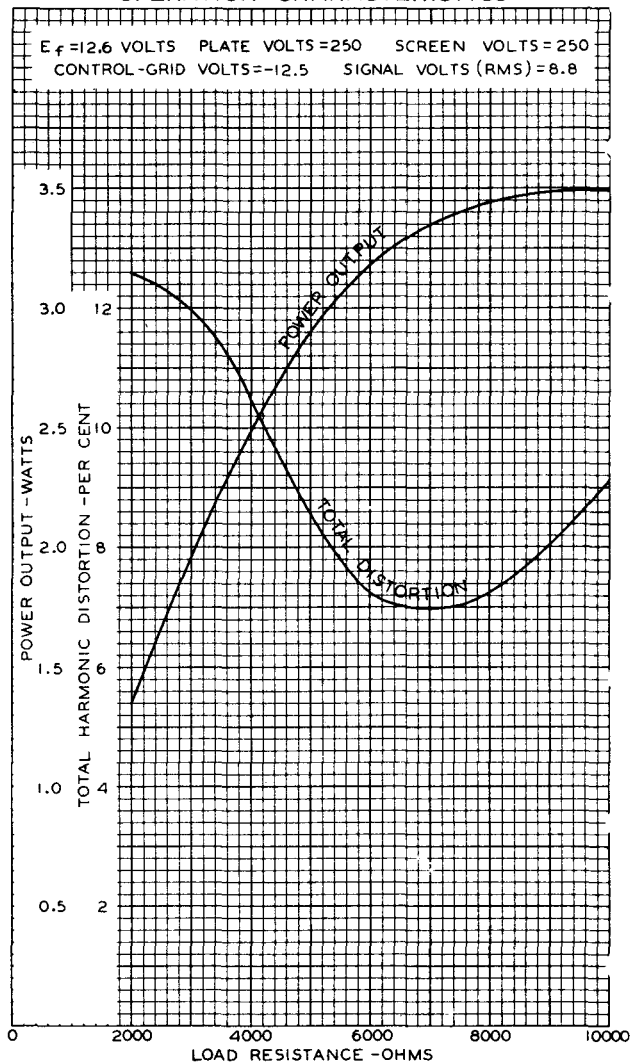
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OPERATION CHARACTERISTICS



JAN. 10, 1942

RCA RADIODIODE DIVISION
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92C-6354