

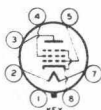


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BEAM POWER AMPLIFIER

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	μf
Input	9.0	μf
Output	9.0	μf
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 5 - Grid	
Pin 2 - Heater	Pin 7 - Heater	
Pin 3 - Plate	Pin 8 - Cathode	
Pin 4 - Screen		
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:

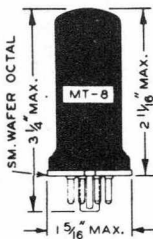
Plate	250	volts
Screen	250	volts
Grid*	-12.5	volts
Peak A-F Grid Voltage	12.5	volts
Zero-Signal Plate Current	30	ma.
Max.-Signal Plate Current	32	ma.
Zero-Signal Screen Current	3.5 approx.	ma.
Max.-Signal Screen Current	5.5 approx.	ma.
Plate Resistance	70000 approx.	ohms
Transconductance	3000	μmhos
Load 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 RADIOTRON DIVISION
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TENTATIVE DATA

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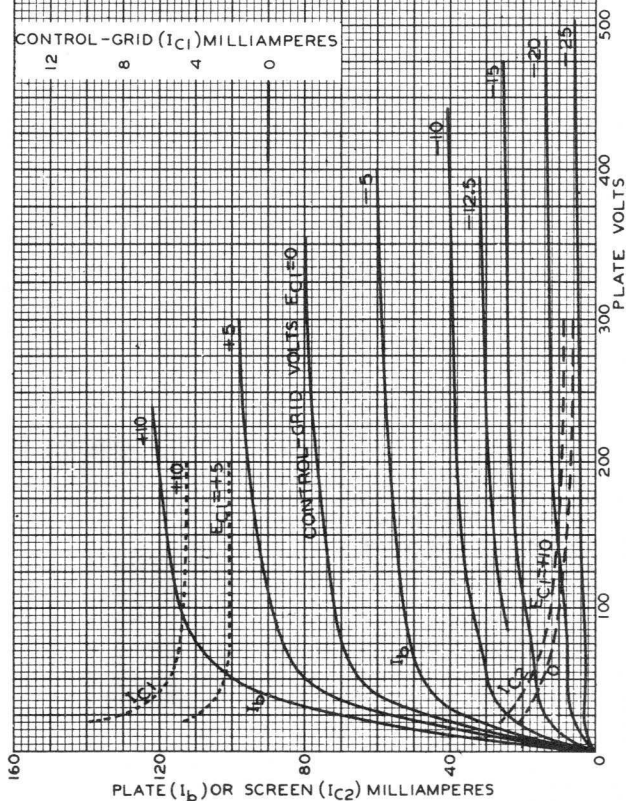
AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION

 $E_f = 12.6$ VOLTS

SCREEN VOLTS = 250

CONTROL-GRID (I_{C1}) MILLIAMPERES

12 8 4 0



OCT. 14, 1941

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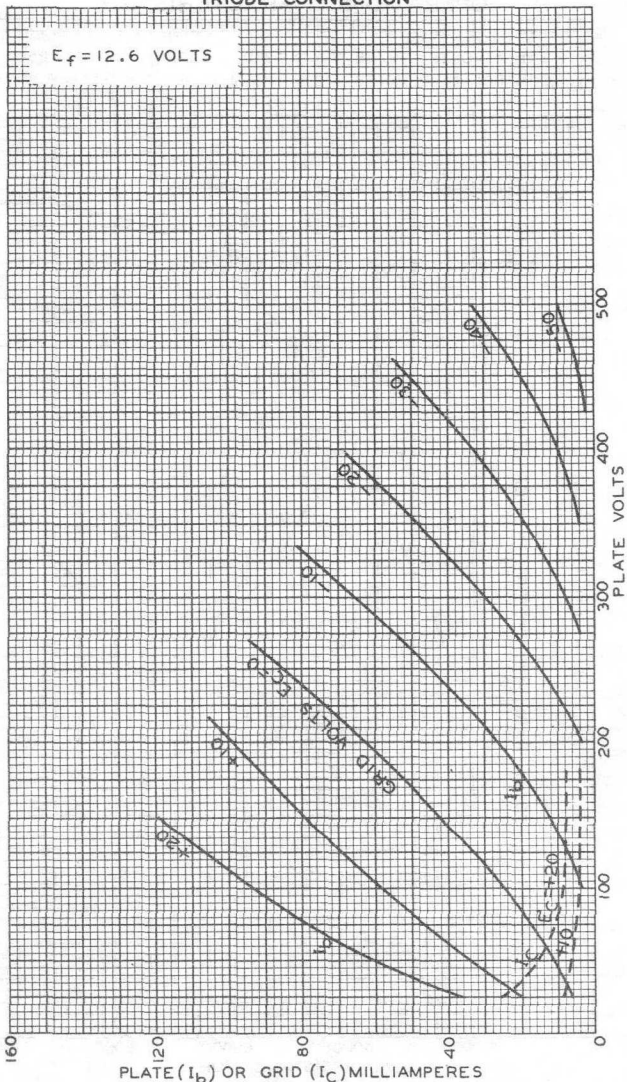
92C-6329



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AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



OCT. 13, 1941

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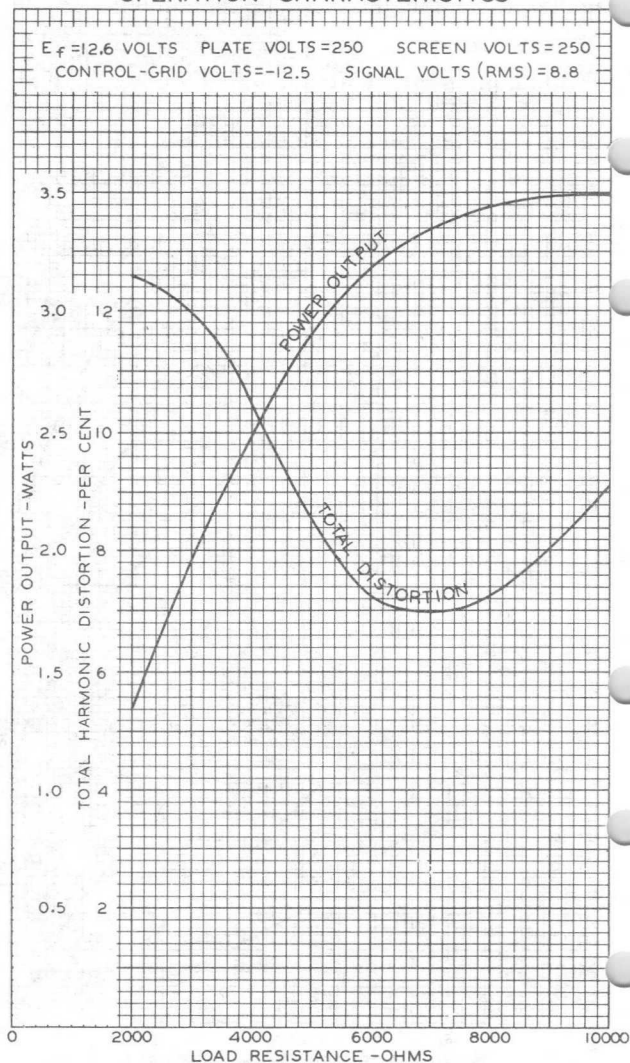
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OPERATION CHARACTERISTICS

$E_f = 12.6$ VOLTS PLATE VOLTS = 250 SCREEN VOLTS = 250
CONTROL-GRID VOLTS = -12.5 SIGNAL VOLTS (RMS) = 8.8



JAN. 10, 1942

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-6354