



12A6

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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.):°		
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

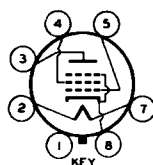
Pin 3 - Plate

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

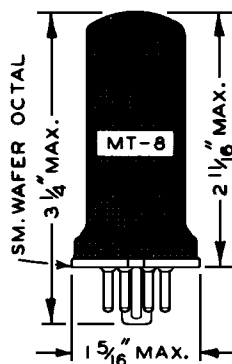
Operating Conditions and Characteristics—Class A₁ Amplifier:

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.

° With shell connected to cathode.



← Indicates a change

May 1, 1942

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TENTATIVE DATA

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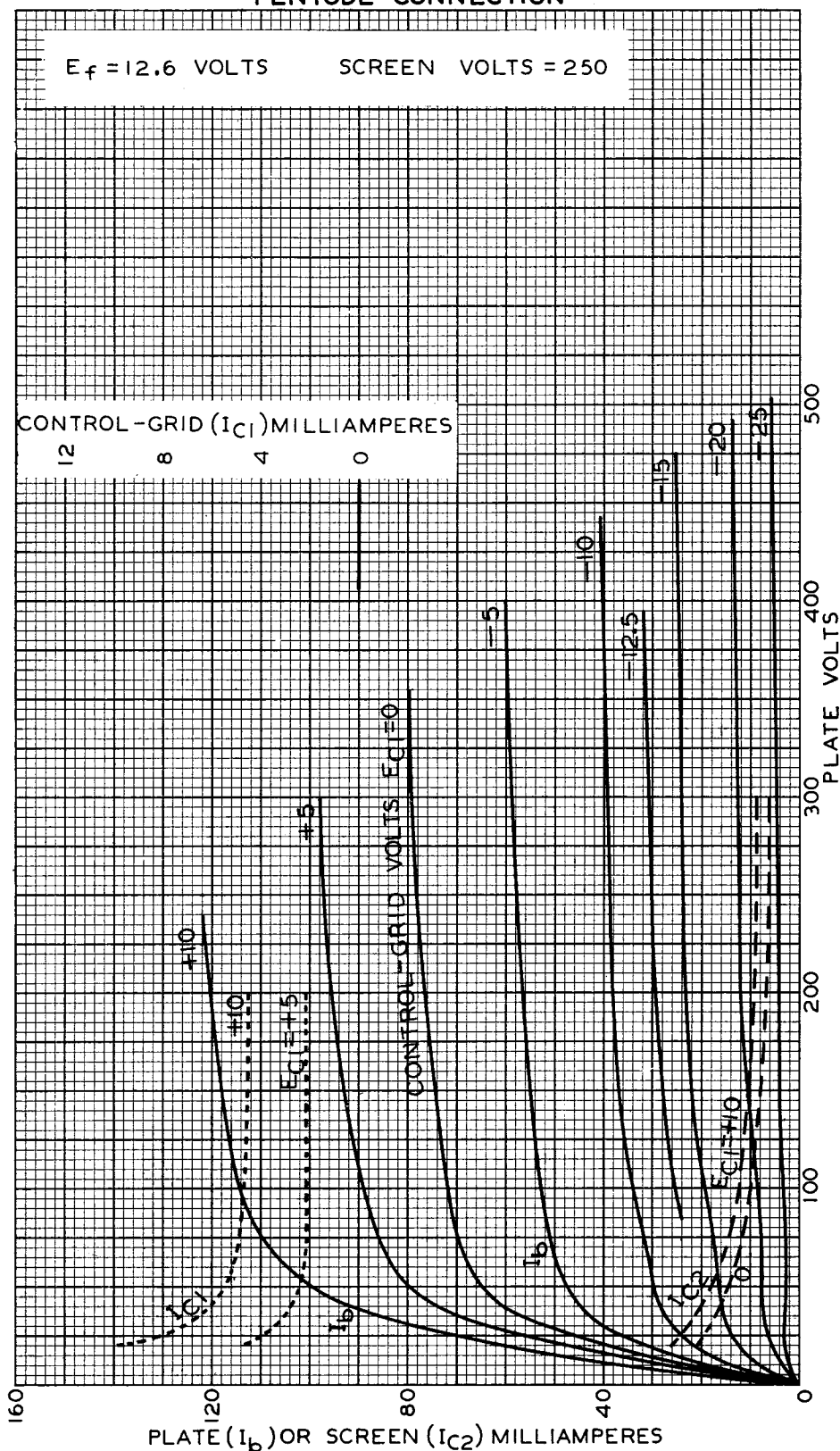


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AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION

 $E_f = 12.6$ VOLTS

SCREEN VOLTS = 250



OCT. 14, 1941

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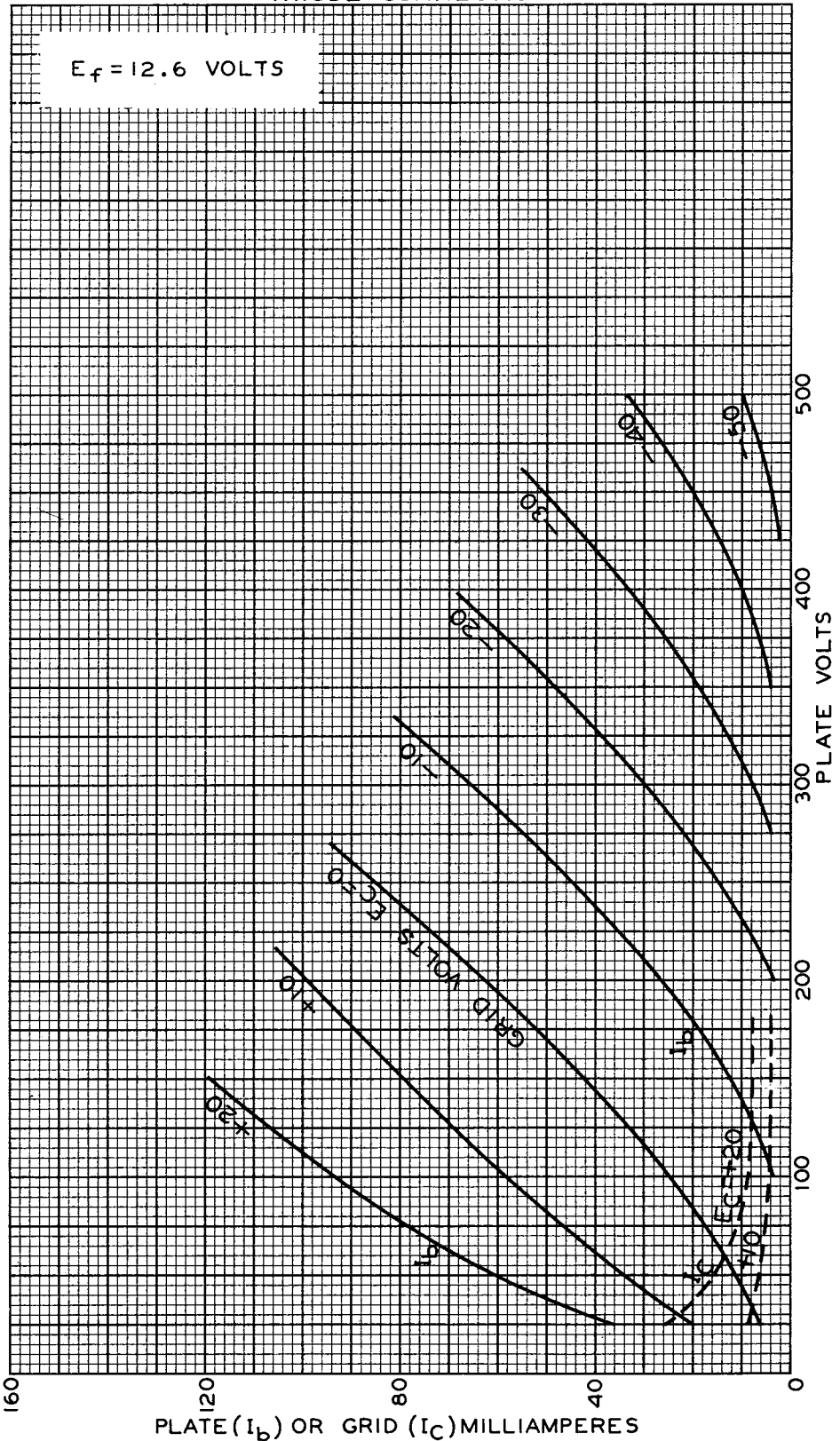
92C-6329



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AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



OCT. 13, 1941

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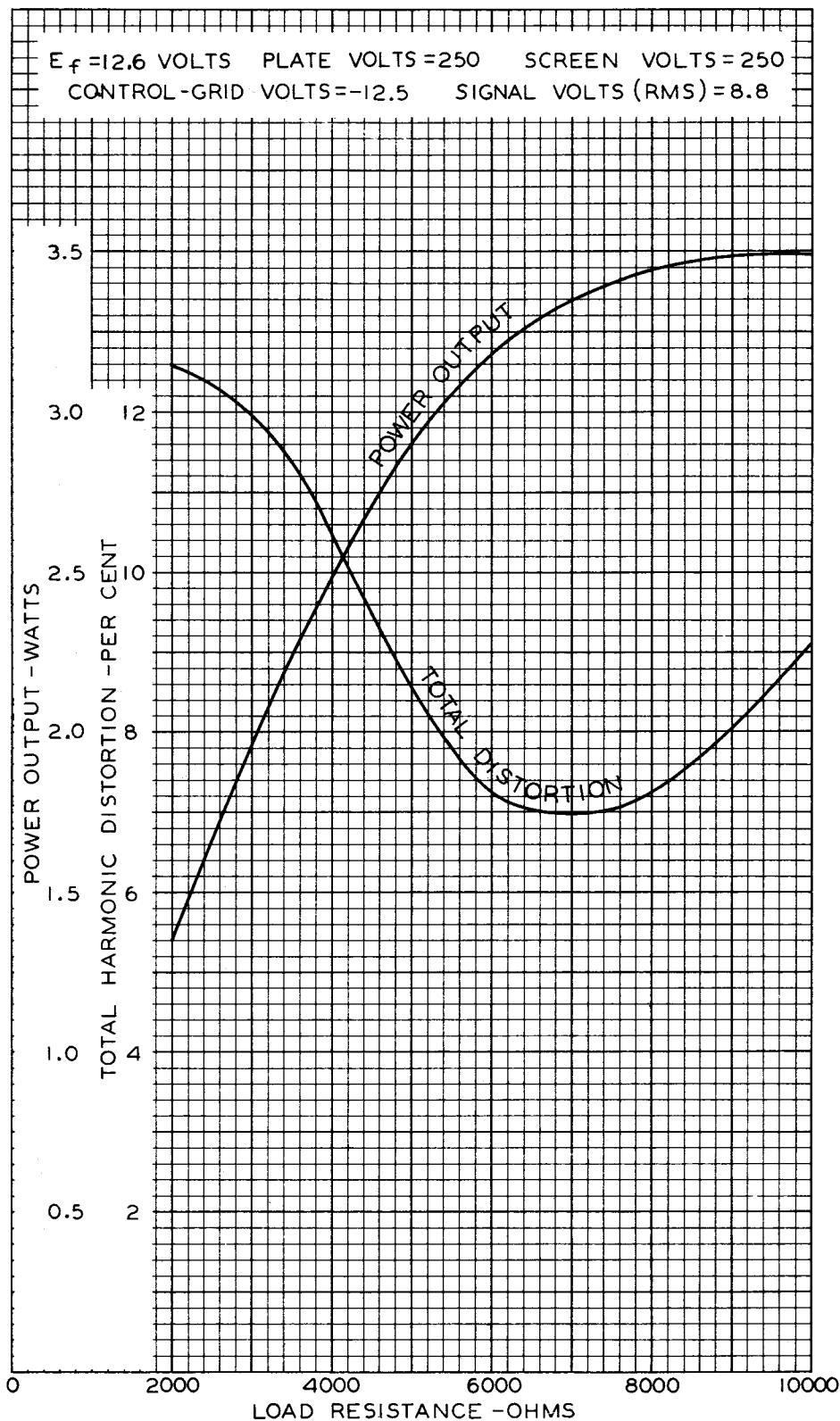
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OPERATION CHARACTERISTICS



JAN. 10, 1942

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92C-6354