



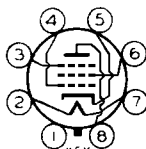
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**TELEVISION AMPLIFIER PENTODE**

SINGLE-ENDED METAL TYPE

Heater★	Coated Unipotential Cathode	
voltage	6.3	a-c or d-c volts
Current	0.45	amp.
Direct Interelectrode Capacitances:°		
Grid to Plate	0.015 max.	μuf
Input	8	μuf
Output	5	μuf
Maximum Overall Length		2-5/8"
Maximum Seated Height		2-1/16"
Maximum Diameter		1-5/16"
Bulb		
Base		
Pin 1 - Shell		
Pin 2 - Heater		
Pin 3 - Suppressor		
Pin 4 - Grid		
Mounting Position	BOTTOM VIEW (8N)	Any



Metal Shell, MT-8
Small Wafer Octal 8-Pin
Pin 5 - Cathode
Pin 6 - Screen
Pin 7 - Heater
Pin 8 - Plate

AMPLIFIER

Plate Voltage	300 max.	volts
Screen Voltage	200 max.	volts
Screen-Supply Voltage	300 max.	volts
Plate Dissipation®	3.75 max.	watts
Screen Dissipation	0.65 max.	watt

Typical Operation and Characteristics - Class A₁ Amplifier:

Condition I* Condition II**

Heater★	6.3	6.3	volts
Plate	300	300	volts
Suppressor□	0	0	volts
Screen-Supply #	200	300	volts
Series Screen Resistor	-	30000	ohms
Grid ## •	-3	-3	min.volts
Plate Res.	0.7	0.7	approx.megohm
Transcond.	5000	5000	μmhos
Grid Bias for			
transcond. = 50 μmhos	-15	-22.5	volts
Plate Cur.	12.5	12.5	ma.
Screen Cur.	3.2	3.2	ma.

° With shell connected to cathode.

* Condition I is with fixed screen supply.

** Condition II is with series screen resistor.

Screen-supply voltages in excess of 200 volts require the use of a series-dropping resistor to limit the voltage at the screen to 200 volts when the plate current is at its normal value of 12.5 milli-amperes.

• May be obtained with cathode-bias resistor having a minimum value of 190 ohms.

The d-c resistance in the grid circuit should not exceed 0.25 megohm with fixed bias, or 0.5 megohm with full cathode bias and a series screen resistor.

⊕ Precautions should be taken to insure that dissipation rating is not exceeded with expected line-voltage fluctuations, especially in the case of fixed-bias operation.

□ The suppressor should be connected in r-f and i-f stages directly to ground to minimize feedback.

★ The potential difference between heater and cathode should be kept as low as possible.

Note: It is characteristic of a high gm tube to show appreciable changes of input capacitance and input conductance with plate current. In high-frequency circuits, it is necessary to take precautions to minimize this effect.

← Indicates a change.

Dec. 1, 1941

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DATA

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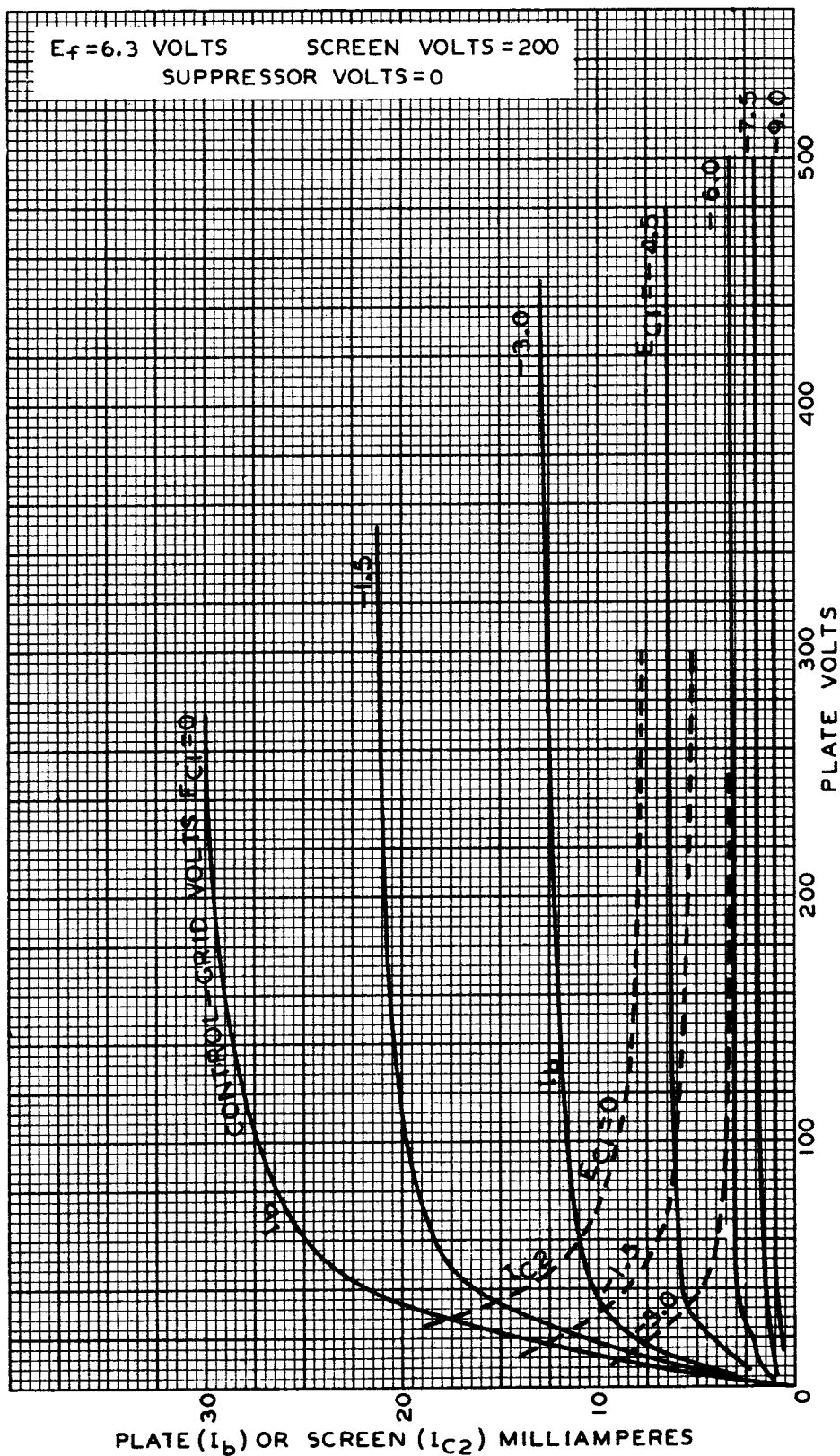
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AVERAGE PLATE CHARACTERISTICS

 $E_f = 6.3$ VOLTS

SCREEN VOLTS = 200

SUPPRESSOR VOLTS = 0



JUNE 21, 1938

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92C-6140

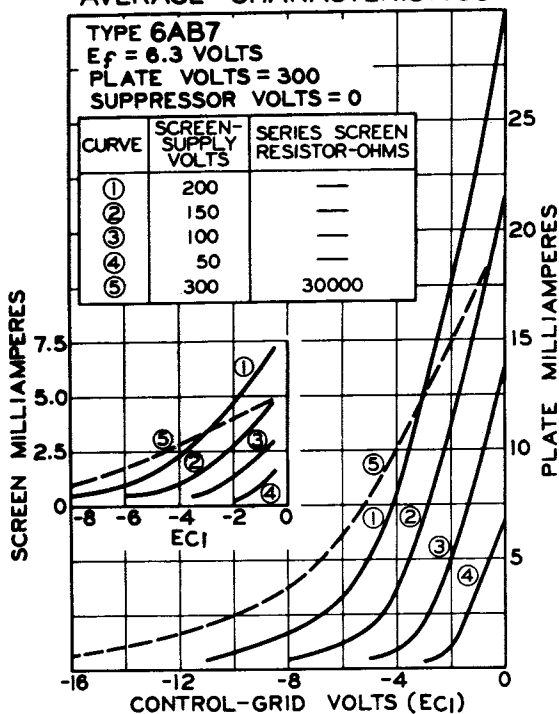


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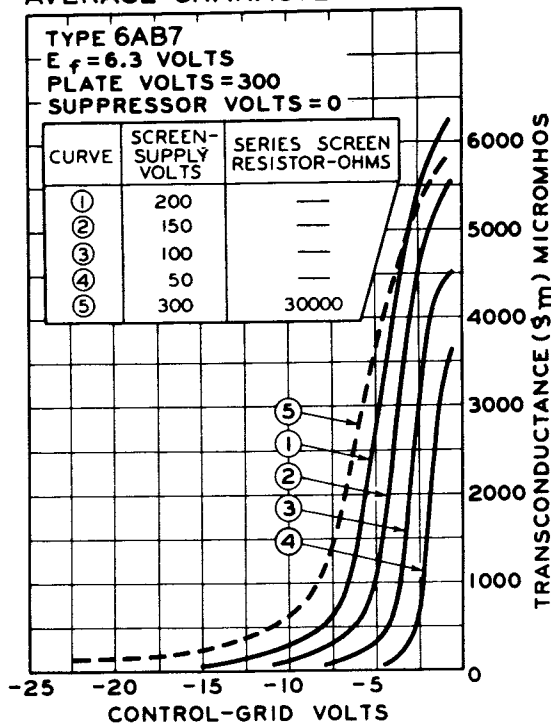
TELEVISION AMPLIFIER PENTODE

AVERAGE CHARACTERISTICS



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AVERAGE CHARACTERISTICS



92C-6145

April 15, 1940

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