



PENTODE TELEVISION **AMPLIFIER**

SINGLE-ENDED METAL TYPE

3	MOLE-CHOLD WEINE THE	<u> </u>
Heater	ted Unipotential Catho	ode a-c or d-c volts amp.
Direct Interelectrod Grid to Plate Input Output	e Capacitances: ^O 0.015 max. 11 5	քաղ 144 144
Maximum Overall Leng Maximum Seated Heigh Maximum Diameter		2-5/8" 2-1/16" 1-5/16"
Bulb Base Pin 1 - Shell Pin 2 - Heater Pin 3 - Suppressor Pin 4 - Grid	Small	Metal Shell, MT-8 Wafer Octal 8-Pin Pin 5 - Cathode Pin 6 - Screen Pin 7 - Heater Pin 8 - Plate
Mounting Position	BOTTOM VIEW (8N)	Any

AMPLIFIER

Plate Voltage	300 max.	volts
Screen Voltage	150 max.	volts
Screen-Supply Voltage	300 max.	volts
Plate Dissipation	3.02 max.	watts
Screen Dissipation	0.38 max.	watt
Typical Operation and Characterist	ics - Class A, Ampli	ifier:

Condition I* Condition II**

Plate Voltage	300	300	volts
Suppressor ^d	0	0	volts
Screen-Supply #	150	300	volts
Screen Series Resistor	_	60000	ohms
Cathode-Bias Resistor ##	160	160	min.ohms
Plate Res.	1.0	1.0	approx.megohm
Transcond.	9000	9000	µmhos
Plate Cur.	10	10	ma.
Screen Cur.	2.5	2 . 5	ma.

With shell connected to cathode.
 Screen-supply voltages in excess of 150 volts require the use of a series-dropping resistor to limit the voltage at the screen to 150 volts when the plate current is at its normal value of 10 milliamperes.
 Condition I with fixed screen supply gives a sharp cut-off character-

istic.
Condition II with series screen resistor gives an extended cut-off characteristic for applications where gain is controlled by variation

characteristic for applications where gain is controlled by variation of grid bias.

Cathode—bias resistor should be adjusted to give a plate current of 10 ma. The d—c resistance in the grid circuit should not exceed 0.25 megohm when the screen voltage is obtained from a fixed source. When a series screen resistor is used with full cathode bias, the d—c resistance in the grid circuit may be as high as 0.5 megohm.

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

| The suppressor should be connected in r—f and i—f stages directly to

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

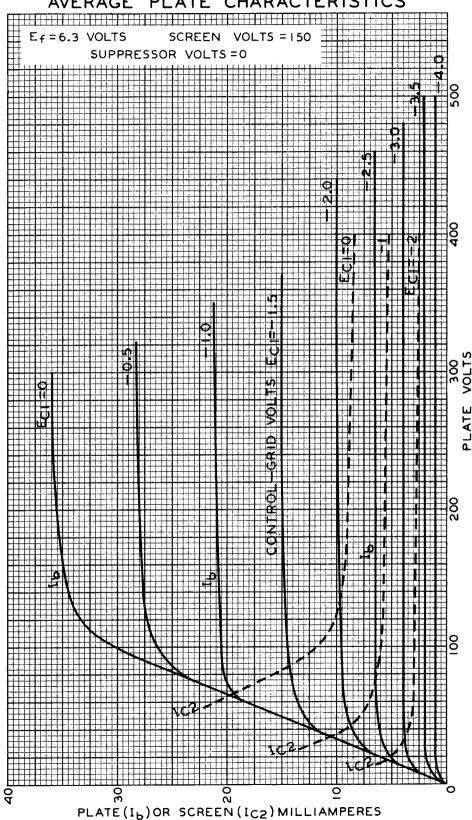
NOTE: It is characteristic of a high gm tube to show appreciable changes of input capacitance and input conductance with plate current. In high-frequency circuits, it will be necessary to take precautions to minimize this effect. The use of the 6AC7 as a high-gain audio amplifier is not recommended unless the heater is operated from a battery source.

-Indicates a change.





AVERAGE PLATE CHARACTERISTICS



JUNE 17, 1938

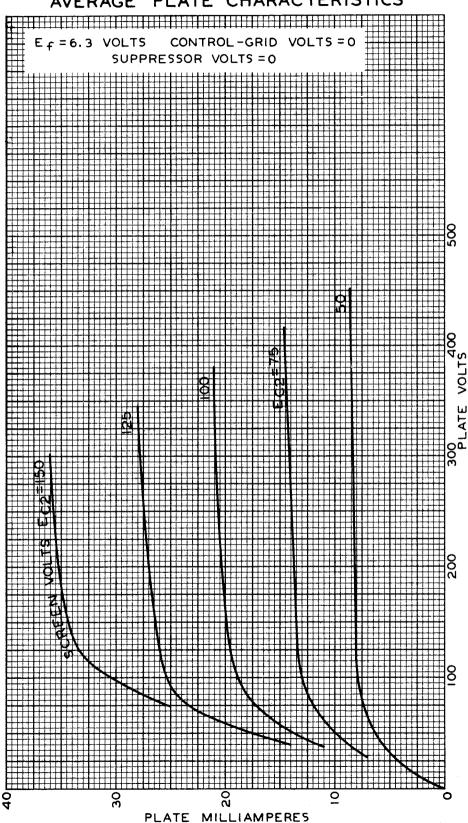
RCA RADIOTRON DIVISION RCA MANUFACTURING COMPANY, INC.

92C-6139



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AVERAGE PLATE CHARACTERISTICS



DEC. 5 1942

RCA VICTOR DIVISION RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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TELEVISION AMPLIFIER PENTODE

