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UHF MEDIUM-MU TRIODE**"PENCIL TYPE" FOR GROUNDED-GRID SERVICE**GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 0.135 amp

Direct Interelectrode Capacitances:

Grid to Plate. 1.3 μf Grid to Cathode. 2.3 μf Plate to Cathode. 0.09 max. μf **Characteristics, Class A₁ Amplifier:**

Plate Voltage. 135 volts

Cathode-Bias Resistor. 68 ohms

Amplification Factor. 20

Plate Resistance. 3225 ohms

Transconductance. 6200 μmhos

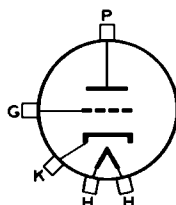
Plate Current. 24 ma

Mechanical:

Terminal Connections:

H—Heater

K—Cathode



G—Grid

P—Plate

Mounting Position. Any

Dimensions. See Outline Drawing

RF POWER AMPLIFIER & OSCILLATOR—Class C**Maximum Ratings, Absolute Values:**

DC PLATE VOLTAGE. 165 max. volts

DC GRID VOLTAGE. -90 max. volts

DC CATHODE CURRENT. 30 max. ma

DC GRID CURRENT. 8 max. ma

PLATE INPUT. 5 max. watts

PLATE DISSIPATION*. 5 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 90 max. volts

Heater positive with respect to cathode. 90 max. volts

PLATE-SEAL TEMPERATURE. 175 max. °C

Typical Operation as Grounded-Grid Oscillator at 1700 Mc:*

DC Plate Voltage. 120 volts

DC Grid Voltage. -8 volts

From a grid resistor of. 2000 ohms

* In applications where the plate dissipation exceeds 2.5 watts, it is important that a large area of contact be provided between the plate cylinder and its lead connector to provide adequate heat conduction.

* At 3000 Mc, and with full ratings, a useful output of approximately 50 milliwatts may be obtained.

FEB. 1, 1950

TUBE DEPARTMENT

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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DC Plate Current	25	ma
DC Grid Current (Approx.)	4	ma
Power Output (Approx.)	475	mw

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	<u>Note</u>	<u>Min.</u>	<u>Max.</u>	
Heater Current	1	0.125	0.145	amp
Grid-to-Plate Capacitance. .	-	1.1	1.5	μuf
Grid-to-Cathode Capacitance.	-	2.0	2.6	μuf
Plate-to-Cathode Capacitance	-	-	0.09	μuf

Note 1: With 6.3 volts ac or dc on heater.

INSTALLATION NOTES

Connections to the cathode cylinder, grid disk, and plate cylinder should be made by flexible spring contacts only. The connectors must make firm, large-surface contact, yet must be sufficiently flexible so that no part of the tube is subjected to strain. Unless this recommendation is observed, the glass-to-metal seals may be damaged.

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Technical drawing of a vacuum tube pinout showing dimensions and terminal labels. The drawing is a side view of a tube with pins on the left and a central feedthrough on the right. Dimensions are given in inches.

Dimensions (from top to bottom):

- 0.187" MAX. (top pin to top of feedthrough)
- 0.312" MAX. (top pin to top of anode terminal)
- 0.600" MIN. (anode terminal to grid terminal)
- 0.863" ± 0.025 " (anode terminal to cathode terminal)
- 1.656" ± 0.050 " (anode terminal to heater terminals)
- 0.793" ± 0.025 " (cathode terminal to heater terminals)
- 0.600" MIN. (cathode terminal to heater terminals)
- 0.018" MAX. (top pin to heater terminals)
- 0.020" (heater terminals to bottom of feedthrough)
- 0.040" MAX. (cathode terminal to bottom of feedthrough)
- 0.115" ± 0.040 " AT TERMINAL TIPS (bottom of feedthrough to heater terminals)

Terminal Labels:

- ANODE TERMINAL 0.250" ± 0.003 " DIA. (NOTE 1)
- GRID TERMINAL 0.812" ± 0.0035 " DIA. (NOTES 1 & 2)
- CATHODE TERMINAL 0.250" ± 0.003 " DIA.
- 2-HEATER TERMINALS 0.016" ± 0.002 " - 0.001" DIA.

Other dimensions and notes:

- 0.687" MAX. DIA. (anode terminal)
- 0.032" ± 0.003 " (grid terminal)
- 0.016" ± 0.002 " - 0.001" DIA. (heater terminals)

92CS-7340RI

NOTE 1: MAX. ECCENTRICITY OF ϕ (AXIS) OF ANODE TERMINAL OR GRID-TERMINAL FLANGE WITH RESPECT TO THE ϕ (AXIS) OF THE CATHODE TERMINAL IS 0.008".

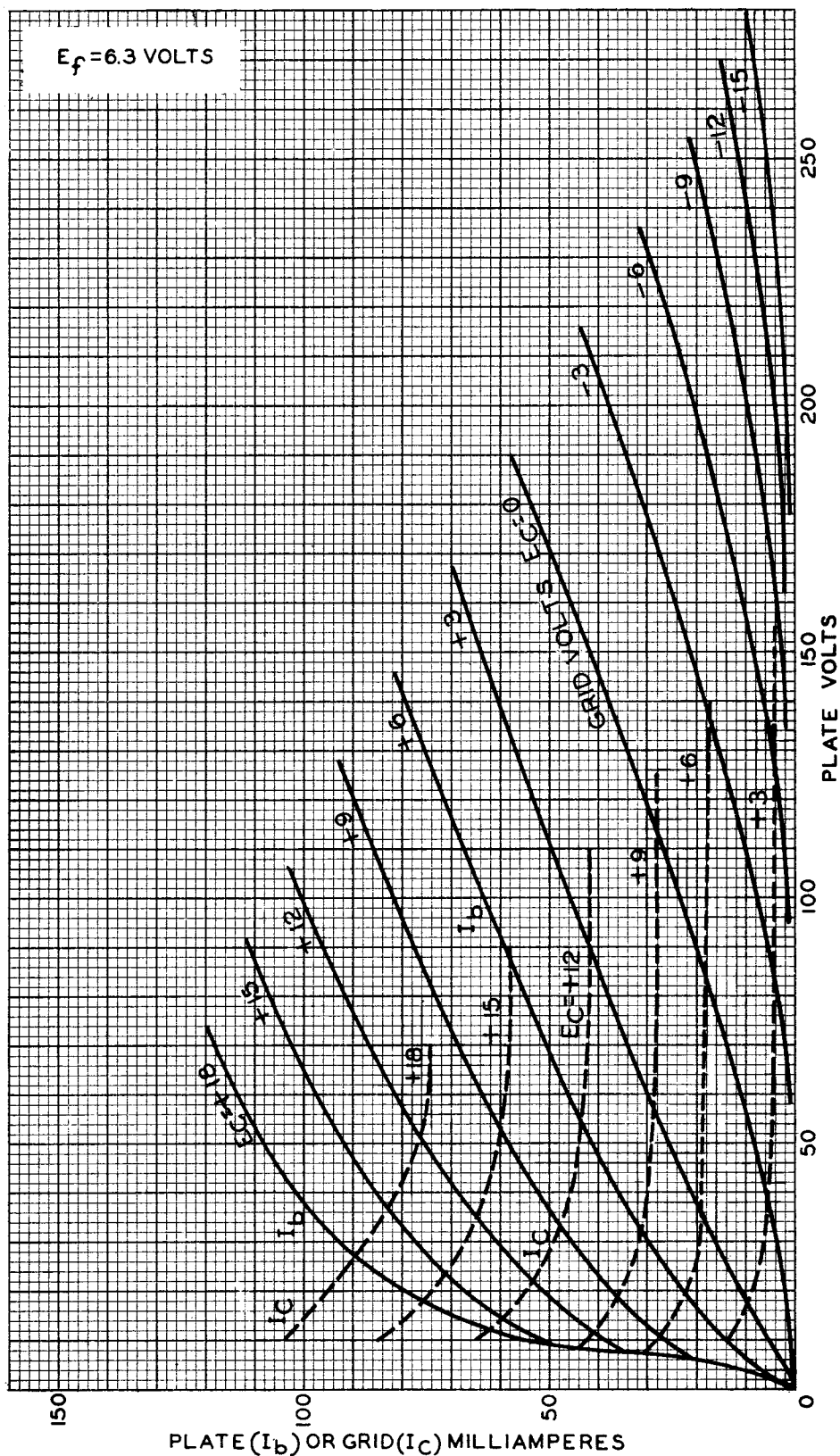
NOTE 2: TILT OF GRID-TERMINAL FLANGE WITH RESPECT TO ROTATIONAL AXIS OF CATHODE TERMINAL IS DETERMINED BY CHUCKING THE CATHODE TERMINAL, ROTATING THE TUBE, AND GAUGING THE TOTAL TRAVEL DISTANCE OF THE GRID-TERMINAL FLANGE PARALLEL TO THE AXIS AT A POINT APPROXIMATELY 0.020" INWARD FROM ITS EDGE FOR ONE COMPLETE ROTATION. THE TOTAL TRAVEL DISTANCE WILL NOT EXCEED 0.020".

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AVERAGE PLATE CHARACTERISTICS



AUG. 23, 1949

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92CM-7343

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