

Power Triode

LIGHTHOUSE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) 6.3 ± 0.3 volts
 Current at heater volts = 6.3 0.750 amp

Direct Interelectrode Capacitances:^a

Grid to plate 1.3 μf
 Grid to cathode 2.2 μf
 Plate to cathode 0.03 max. μf
 Cathode rf terminal to cathode 100 μf

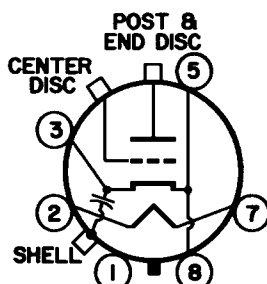
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage 250 volts
 Cathode Resistor 200 ohms
 Amplification Factor 36
 Transconductance 4850 μmhos
 Plate Current 17 ma

Mechanical:

Operating Position Any
 Maximum Overall Length 2-9/16"
 Maximum Seated Length 1.973"
 Maximum Diameter 1.312"
 Weight (Approx.) 1.2 oz
 Base Small H-Wafer 6-Pin (JEDEC Group 1, No. B6-108)
 Basing Designation for BOTTOM VIEW 6BY

Pin 1—Do Not
 Use
 Pin 2—Heater
 Pin 3—Cathode
 Pin 5—Cathode
 Pin 7—Heater
 Pin 8—Cathode



Shell—Cathode
 RF Terminal
 Center Disc—Grid
 Terminal
 Post & End Disc—
 Plate
 Terminal

Thermal:

Cooling Convection and Conduction
 Seal Temperature 175 max. °C

RF POWER AMPLIFIER & OSCILLATOR — Class C Telegraphy

Maximum CCS^b Ratings, Absolute-Maximum Values:

For frequencies up to 3370 Mc

DC PLATE VOLTAGE 500 max. volts
 DC GRID VOLTAGE:
 Negative-bias value 50 max. volts

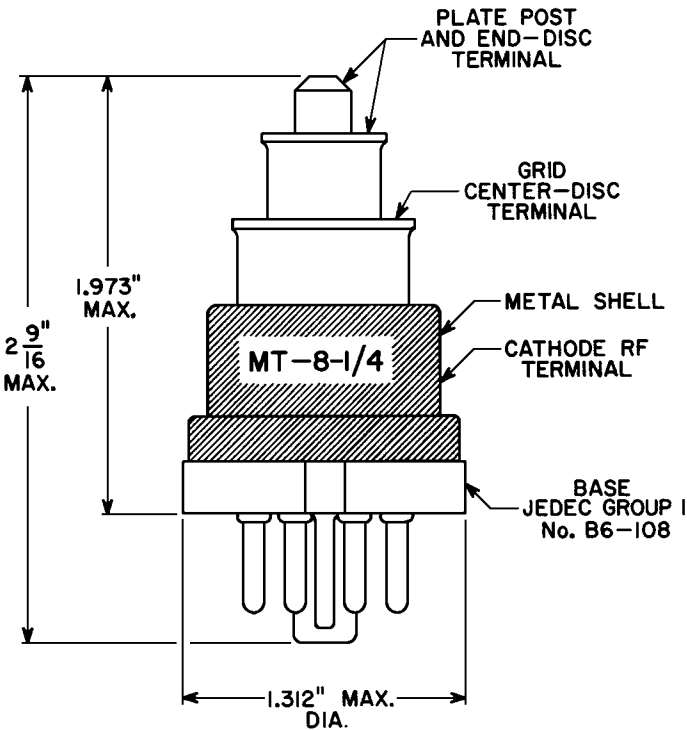
← Indicates a change.



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DC PLATE CURRENT	25 max.	ma
DC GRID CURRENT	8 max.	ma
PLATE DISSIPATION	6.5 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode . .	90 max.	volts
Heater positive with respect to cathode . .	90 max.	volts
PEAK CATHODE-SHELL VOLTAGE:		
Shell negative with respect to cathode. . .	90 max.	volts
Shell positive with respect to cathode. . .	90 max.	volts

- a Without external shield.
- b Continuous Commercial Service.



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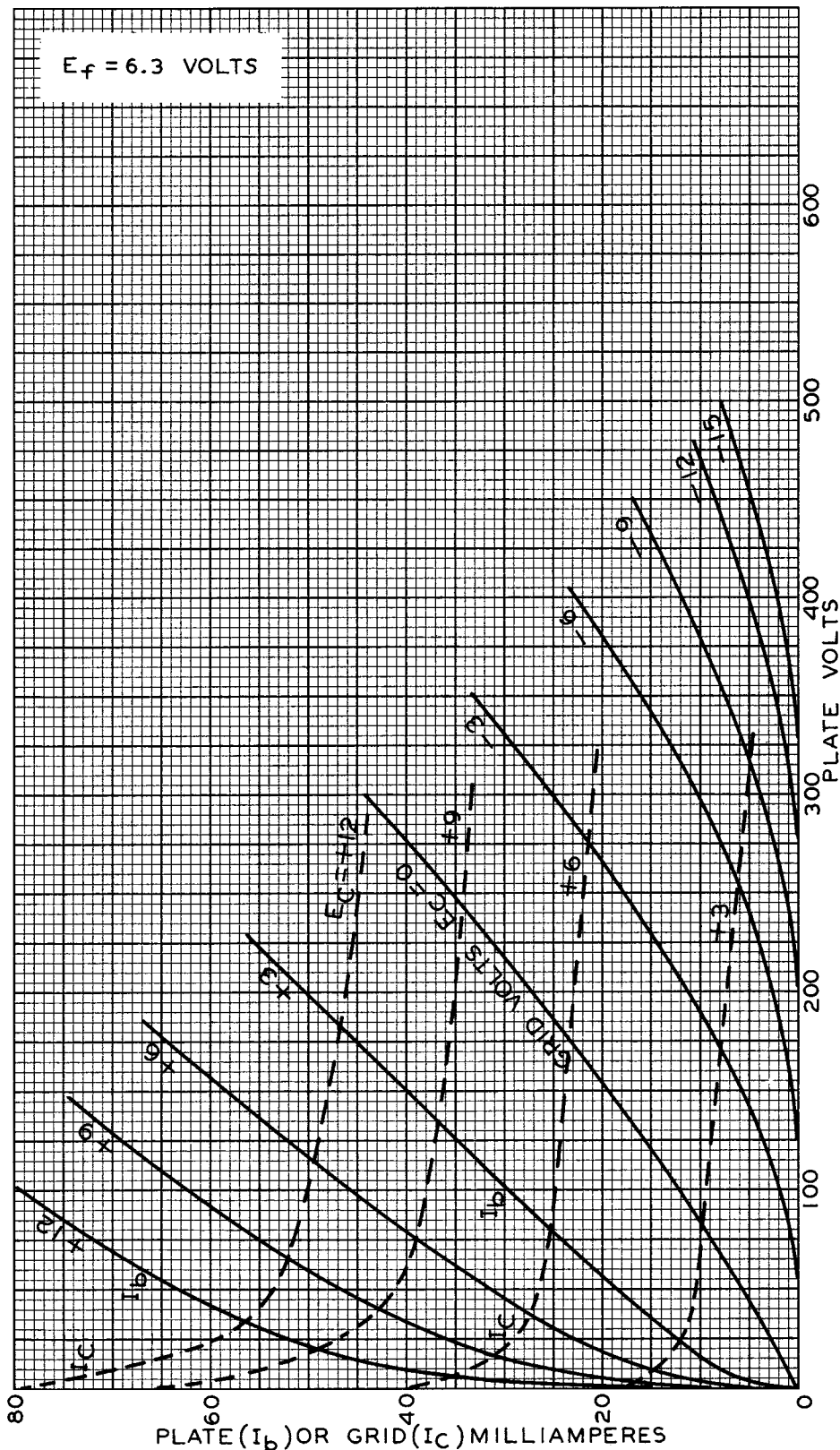


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AVERAGE PLATE CHARACTERISTICS

$E_f = 6.3$ VOLTS



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

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