

Power Triode**FORCED-AIR COOLED**

**For Cathode-Drive Applications
at Frequencies up to 2500 Mc**

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage (AC or DC) ^a	6.3 ± 5% volts
Current at heater volts = 6.3.	1.03 amp
Amplification Factor	95

Transconductance, for dc plate volts

= 600 and dc plate ma. = 75.	24800 μhos
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Direct Interelectrode Capacitances (Approx.):^b

Grid to plate.	2 μμf
Grid to cathode.	6.5 μμf
Plate to cathode	0.024 μμf

Mechanical:

Operating Position Any

Maximum Overall Length 2-3/4"

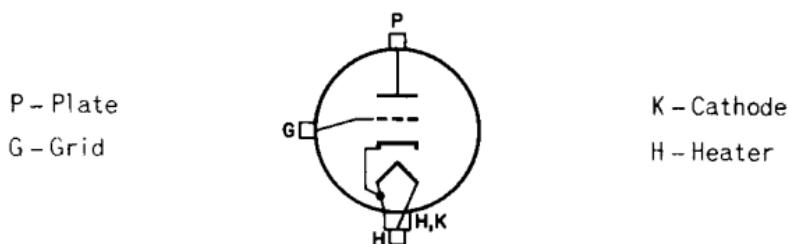
Diameter 1-1/4" ± 1/64"

Mounting Only plate flange to be used as socket stop and clamping surface

Weight (Approx.) 2 oz

Radiator Integral part of tube

Terminal Diagram (See Dimensional Outline):

**Thermal:****Air Flow:**

Through radiator—Adequate air flow should be delivered by a blower during the application of any voltages.

To plate, grid, cathode, and heater seals—A sufficient quantity of air should be delivered to these seals to prevent their temperature from exceeding the specified maximum value.

Seal Temperature (Plate, grid, cathode, and heater). 250 max. °C

Recommended Air-Flow Cowling 157-JAN

Recommended Air Flow on Plate Radiator at sea level with incoming-air temperature (°C) = 25, plate dissipation (watts) = 100 . 12.5 cfm

→ Indicates a change.



RADIO CORPORATION OF AMERICA
Electron Tube Division

DATA 1
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PLATE-MODULATED RF POWER AMPLIFIER — Class C Telephony

*Carrier conditions per tube for use
with a maximum modulation factor of 1*

Maximum CCS^c Ratings, Absolute-Maximum Values:

For frequencies up to 2500 Mc

DC PLATE VOLTAGE	600 ^d	max.	volts
GRID VOLTAGE:			
Negative-bias value	150	max.	volts
Peak-negative-rf value.	400	max.	volts
Peak-positive-rf value.	30	max.	volts
DC GRID CURRENT	50	max.	ma
DC CATHODE CURRENT.	100	max.	ma
GRID INPUT.	2	max.	watts
PLATE DISSIPATION	70	max.	watts

RF POWER AMPLIFIER & OSCILLATOR — Class C Telegraphy^e**Maximum CCS^c Ratings, Absolute-Maximum Values:**

For frequencies up to 2500 Mc

DC PLATE VOLTAGE.	1000	max.	volts
GRID VOLTAGE:			
Negative-bias value	150	max.	volts
Peak-negative-rf value.	400	max.	volts
Peak-positive-rf value.	30	max.	volts
DC GRID CURRENT	50	max.	ma
DC CATHODE CURRENT.	125	max.	ma
GRID INPUT.	2	max.	watts
PLATE DISSIPATION	100	max.	watts

* Because the cathode is subjected to considerable back bombardment as the frequency is increased with resultant increase in temperature, the heater voltage should be reduced depending on operating conditions and frequency to prevent overheating the cathode and resultant short life.

→ b With special shielded socket.

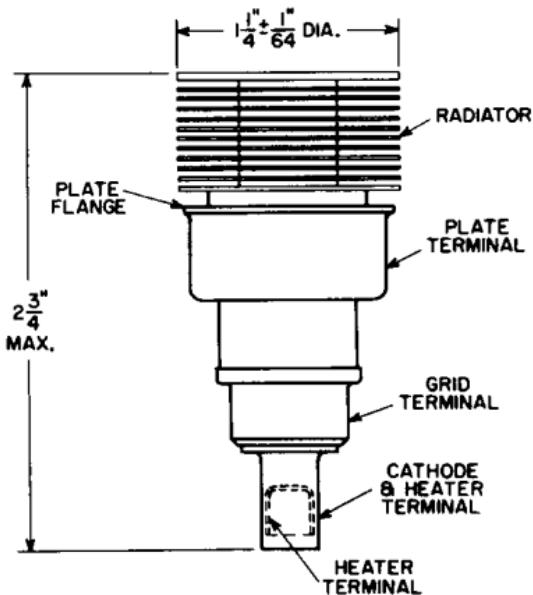
c Continuous Commercial Service.

d For modulation factors less than 1, a higher dc plate voltage may be used provided the sum of the peak-positive audio voltage and the dc plate voltage does not exceed 1200 volts.

e Key-down conditions pertube without amplitude modulation. Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.

→ Indicates a change.





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