

Beam Power Tube**Quick-Heating Filament****High Power Sensitivity****90 Watts CW Input (ICAS) up to 60 MHz****60 Watts CW Input (ICAS) at 175 MHz****For use as an rf power
amplifier in communications equipment****ELECTRICAL****Filament, Coated:**Voltage (AC or DC) $1.6 \pm 10\%$ V

Current at 1.6 volts 3.2 A

Heating time 1 s

Transconductance^a 6000 μmho Mu-Factor^a, Grid No.2 to Grid No.1 4**Direct Interelectrode Capacitances:**

Grid No.1 to plate 0.24 max. pF

Grid No.1 to filament & grid

No.3 & internal shield, base
sleeve and grid No.2 11 pF

Plate to filament & grid No.3

& internal shield, base
sleeve and grid No.2 8.5 pF**MECHANICAL**Operating Position Vertical, or horizontal with
plane of pins 3 and 7 vertical

Maximum Overall Length 3-13/16"

Seated Length 3-1/8" $\pm$ 1/8"

Maximum Diameter 1-21/32"

Bulb T-12

Cap Small (JEDEC No.C1-1)

Base Small wafer octal 8-pin with sleeve
(JEDEC Group 1, No.B8-150)

Bulb Temperature (At hottest point) 220 max. °C

RF POWER AMPLIFIER & OSC. – CLASS C TELEGRAPHY^b**AND****RF POWER AMPLIFIER – CLASS C FM TELEGRAPHY****Maximum ICAS Ratings, Absolute-Maximum Values:***Up to 60 MHz*

DC Plate Voltage 750 max. V

DC Grid-No.2 Voltage 250 max. V

DC Grid-No.1 Voltage	-150 max.	V
DC Plate Current	150 max.	mA
DC Grid-No.1 Current	4 max.	mA
Plate Input	90 max.	W
Grid-No.2 Input	3 max.	W
Plate Dissipation	25 max.	W

Typical Operation as Amplifier at 175 MHz

DC Plate Voltage	400	V
DC Grid-No.2 Voltage ^c	190	V
From a series resistor of	18000	Ω
DC Grid-No.1 Voltage ^d	-60	V
From a grid resistor of	30000	Ω
DC Plate Current	150	mA
DC Grid-No.2 Current	11	mA
DC Grid-No.1 Current (Approx.)	2	mA
Driving Power (Approx.)	4.5	W
Power Output (Approx.)	30	W

Maximum Circuit Values:

Grid-No.1 Circuit Resistance	30000 max.	Ω
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^a For plate volts = 200 V, grid No.2 volts = 200 V, and plate current = 100 mA.

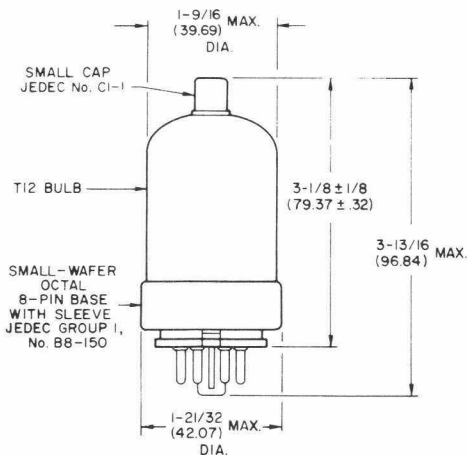
The following footnotes apply to the *RCA Transmitting Tube Operating Considerations* given at front of this section.

^b See *Classes of Service*.

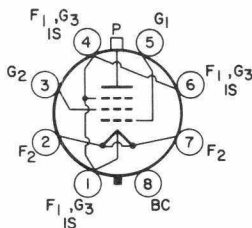
^c See *Electrical Considerations* - Grid-No.2 Voltage Supply.

^d See *Electrical Considerations* - Grid-No.1 Voltage Supply.

DIMENSIONAL OUTLINE - Dimensions In Inches (mm)



TERMINAL DIAGRAM (Bottom View)



- Pin 1: Filament 1, Grid No.3, Internal Shield
- Pin 2: Filament 2
- Pin 3: Grid No.2
- Pin 4: Same as Pin No.1
- Pin 5: Grid No.1
- Pin 6: Same as Pin No.1
- Pin 7: Filament 2
- Pin 8: Base Sleeve
- Cap: Plate

