

Beam Power Tube

FORCED-AIR COOLED

GENERAL DATA

Electrical:

Filament, Thoriated Tungsten:

Voltage (AC or DC) 5.0 volts

Current 12.2 to 13.7 amp

Transconductance, for plate volts

= 2500, grid-No.2 volts = 500,

and plate ma. = 200 5200 μ mhos

Mu-Factor, Grid No.2 to Grid No.1 4.5 to 6.5

Direct Interelectrode Capacitances:

Grid No.1 to plate. 0.1 max. μ mf

Grid No.1 to filament and

grid No.2 10.5 to 14.4 μ mf

Plate to filament and grid No.2 4.9 to 6.9 μ mf

Mechanical:

Operating Position. Vertical, radiator up or down

Overall Length. 4-1/2" $\pm$ 1/4"

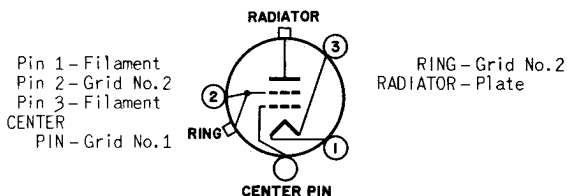
Maximum Diameter. 2-5/8"

Weight (Approx.) 1.7 lbs

Radiator. Integral part of tube

Terminal Diagram (See *Dimensional Outline*):

BOTTOM VIEW



Thermal:

Forced-Air Cooling:

Through base toward bulb. 20 min. cfm

The specified air flow at a pressure drop of 2.25 inches of water should be passed through the radiator using the recommended socket and should be started before the application of filament voltage.

Radiator-Core Temperature 150 max. $^{\circ}$ C

Glass-Metal Seals Temperature 150 max. $^{\circ}$ C

Components:

Socket. Eimac SK900, or equivalent

← Indicates a change.



4X500A

RF POWER AMPLIFIER & OSCILLATOR — Class C Telegraphy^a and

RF POWER AMPLIFIER — Class C FM Telephony

Maximum CCS^b Ratings, Absolute-Maximum Values:

	Up to 120 Mc	
DC PLATE VOLTAGE.	4000 max.	volts
DC GRID-No.2 VOLTAGE.	500 max.	volts
DC GRID-No.1 VOLTAGE.	-500 max.	volts
DC PLATE CURRENT.	350 max.	ma
GRID-No.2 INPUT	30 max.	watts
GRID-No.1 INPUT	10 max.	watts
PLATE DISSIPATION	500 max.	watts

→ RF POWER AMPLIFIER — Class B Television Service

*Synchronizing-level conditions per
tube unless otherwise specified*

Maximum CCS^b Ratings, Absolute-Maximum Values:

	Up to 220 Mc	
DC PLATE VOLTAGE.	3000 max.	volts
DC GRID-No.2 VOLTAGE.	500 max.	volts
DC GRID-No.1 VOLTAGE.	-500 max.	volts
DC PLATE CURRENT.	350 max.	ma
GRID-No.2 INPUT	30 max.	watts
GRID-No.1 INPUT	10 max.	watts
PLATE DISSIPATION	500 max.	watts

^a Key-down conditions per tube without amplitude modulation. Amplitude 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.

^b Continuous Commercial Service.

→ Indicates a change.



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