

4X500A

Beam Power Tube

FORCED-AIR COOLED

GENERAL DATA

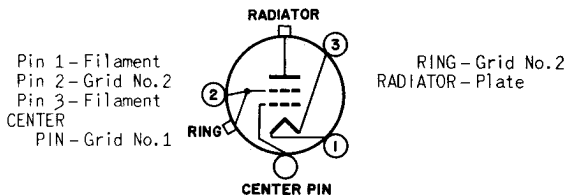
Electrical:

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 hos
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 f
Grid No.1 to filament and grid No.2	10.5 to 14.4		μ f
Plate to filament and grid No.2	4.9 to 6.9		μ f

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 <i>Dimensional Outline</i>):	

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.



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

Maximum CCS^b Ratings, *Absolute-Maximum Values:*

	<i>Up to 120 Mc</i>	
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:*

	<i>Up to 220 Mc</i>	
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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