

Beam Power Tube

FORCED-AIR COOLED

GENERAL DATA

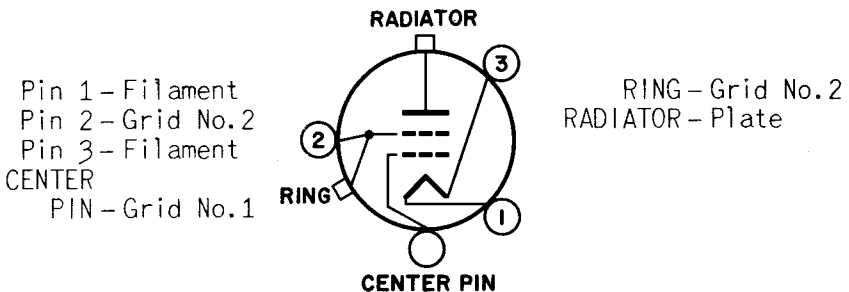
Electrical:

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.



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

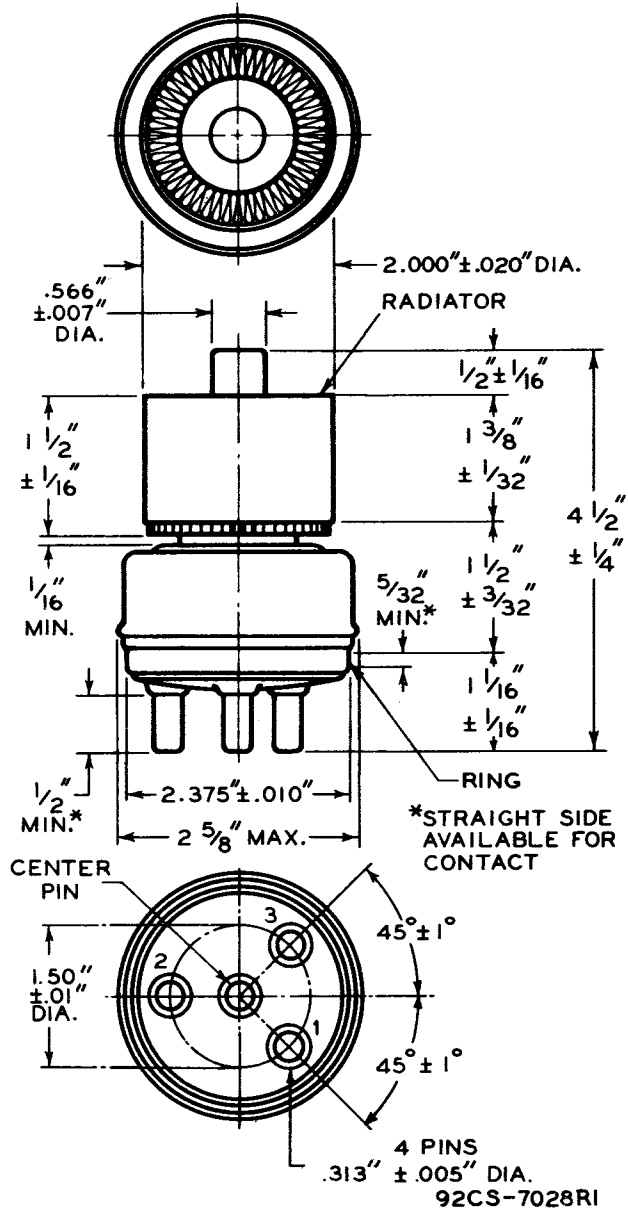
^a Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.

^b Continuous Commercial Service.

→ Indicates a change.



4X500A



RADIO CORPORATION OF AMERICA
Electron Tube Division

Harrison, N. J.

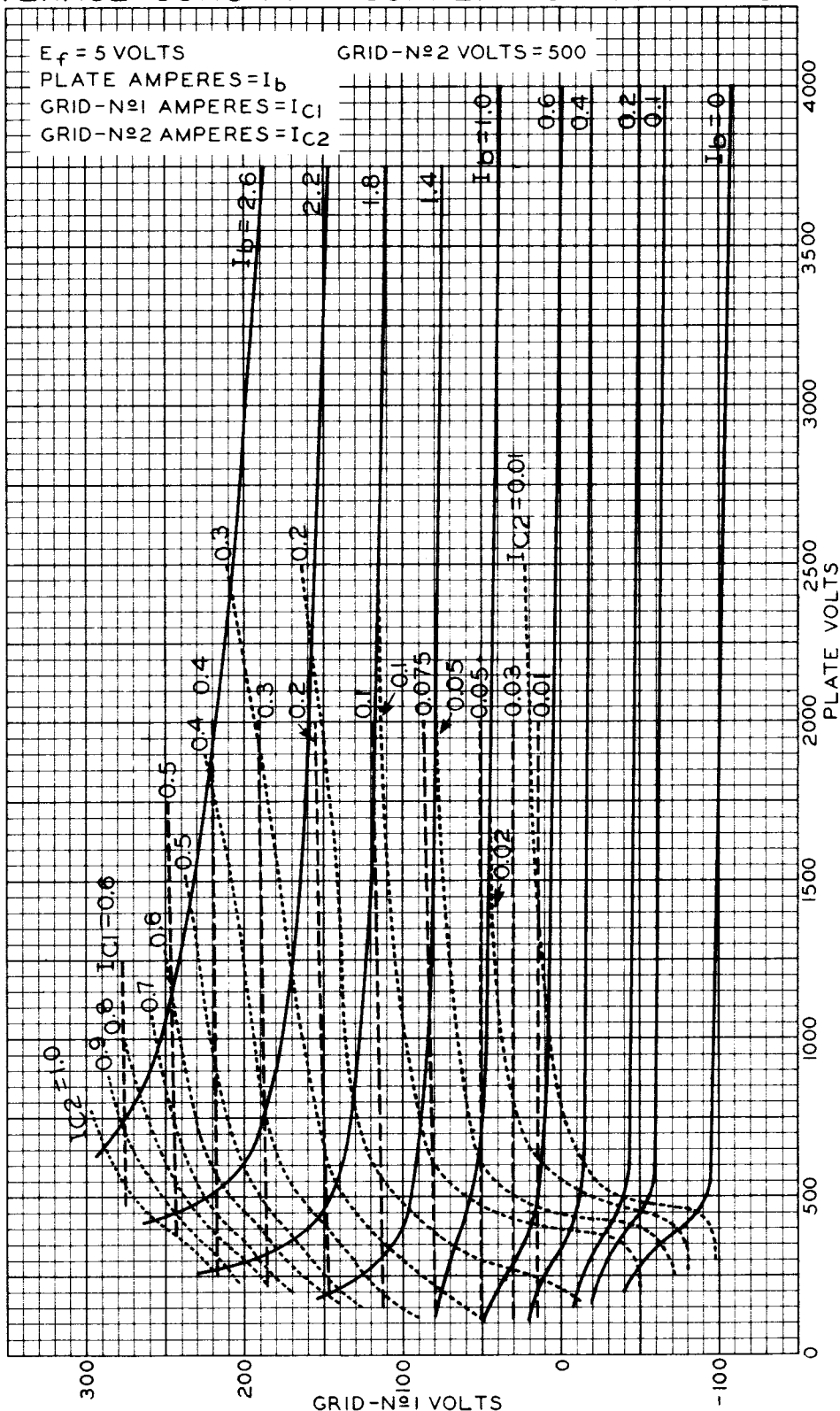
DATA 2
1-63

4X500A



4X500A

AVERAGE CONSTANT-CURRENT CHARACTERISTIC



MAY 20, 1948

TUBE DEPARTMENT

92CM-6984

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY