

Beam Power Tube

CERMOLOX
Full Input to 400 MHz
20 kW Peak Sync Output
Forced-Air-Cooled
3.75 kW Carrier for Linear Operation

ELECTRICAL

Filamentary Cathode, Thoriated-Tungsten Mesh Type:

Voltage (ac or dc)	{ 9.5 typ. V
	{ 10.0 max. V

Current:

Typical value at 9.5 volts. 145 A

 Maximum value for starting,
even momentarily 300 A

 Cold Resistance 0.01 Ω

Minimum heating time 15 s

Mu-Factor (Grid No.2 to Grid No.1) 10

MAXIMUM CCS RATINGS, Absolute-Maximum Values

	<i>Up to 400 MHz</i>
DC Plate Voltage	10,000 max. V
DC Grid-No.2 Voltage	2000 max. V
DC Plate Current at Peak of Envelope	6.0 max. A
DC Grid-No.1 Current.	500 max. mA
Grid-No.2 Input.	450 max. W
Plate Dissipation	15 max. kW

MECHANICAL

Operating Position Vertical, either end up

Weight (Approx.) 12 lb (5.5 kg)

THERMAL^a

 Seal Temperature 250 max. °C
 (Plate, Grid No.2, Grid No.1.
 Cathode-Filament, and Filament)

Plate-Core Temperature 250 max. °C

^aSee *Dimensional Outline* for temperature measurement points.

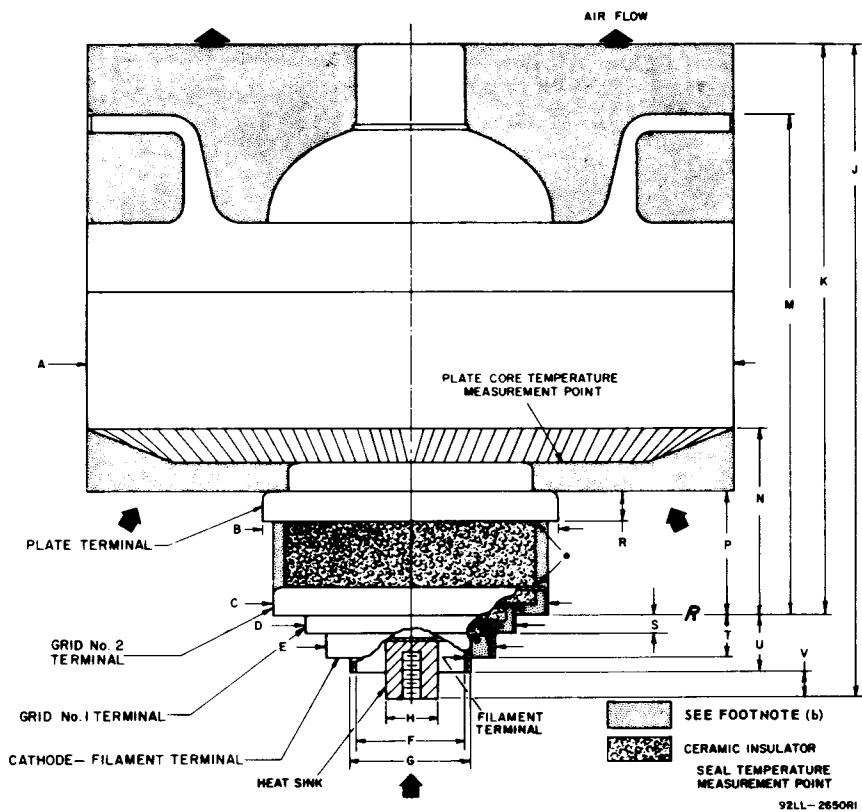
^bKeep all strippled regions clear. Do not allow contacts or circuit components to protrude into these annular regions.

Detailed performance and application information is available through your RCA Sales Office, Distributor, or write to RCA Commercial Engineering, Harrison, N.J. 07029.


**Electronic
Components**

 DATA
2-69

DIMENSIONAL OUTLINE



DIMENSION	INCHES	MILLIMETERS
A Dia.	7.075 ±.035	179.71 ±.89
B Dia.	3.235 Min.	82.17 Min.
C Dia.	3.014 Min.	76.56 Min.
D Dia.	2.307 Min.	58.60 Min.
E Dia.	1.840 Min.	46.74 Min.
F Dia.	1.210 Max.	30.73 Max.
G Dia.	1.314 Min.	33.38 Min.
H Dia.	0.620 Max.	15.75 Max.
J	7.345 Max.	186.56 Max.
K	6.30 Max.	160.0 Max.
M	5.50 Ref.	139.7 Ref.
N	2.04 ±.04	51.8 ±1.0
P	1.33 ±.03	33.8 ±.8
R	0.325 Ref.	8.26 Ref.
S	0.200 ±.025	5.08 ±.63
T	0.50 ±.03	12.7 ±.8
U	0.76 ±.04	19.3 ±1.0
V	0.25 Ref.	6.4 Ref.