

Beam Power Tube

CERMOLOX
20 kW Peak Sync Output
Full Input to 400 MHz
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

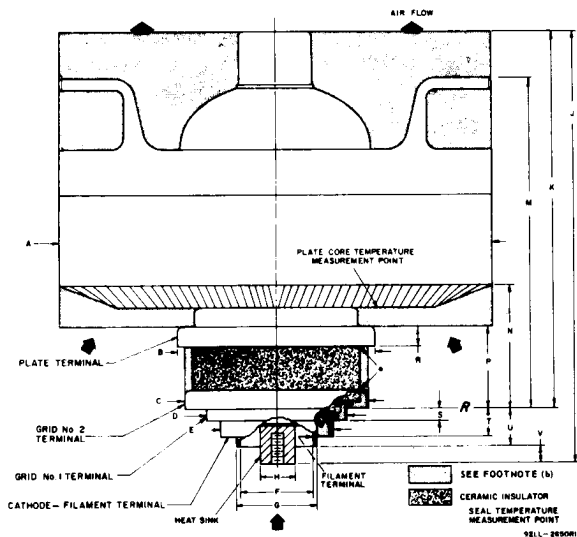
Seal Temperature	250 max. °C
(Plate, Grid No.2, Grid No.1, Cathode-Filament, and Filament)	
Plate-Core Temperature	250 max. °C

^a See *Dimensional Outline* for temperature measurement points.

^b Keep 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.

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.