

Beam Power Tube

CERMOLOX

High Gain RF
Power Amplifier
Matrix Cathode
Forced-Air Cooled

2500 Watts Carrier
Output at 400 MHz
10 kW PEP
16 dB Gain

ELECTRICAL

Heater:

Type Matrix-Type Oxide Coated
Unipotential Cathode

Voltage (ac or dc) 22 ± 2 V

Current at 22 volts 12.6 A

Minimum heating time 180 s

Mu-Factor (Grid No.2 to Grid No.1) 20

MAXIMUM CCS RATINGS, Absolute-Maximum Values:

Up to 500 MHz

DC Plate Voltage 7000 V

DC Grid-No.2 Voltage 1200 V

DC Plate Current 2.0 A

Plate Dissipation 10 kW

MECHANICAL

Operating Position Any

Weight (Approx.) 12 lb (5.4 kg)

THERMAL^a

Terminal Temperature (Plate,

heater-cathode, and heater) 250 max. °C

Grid No.2 and Grid No.1 200 max. °C

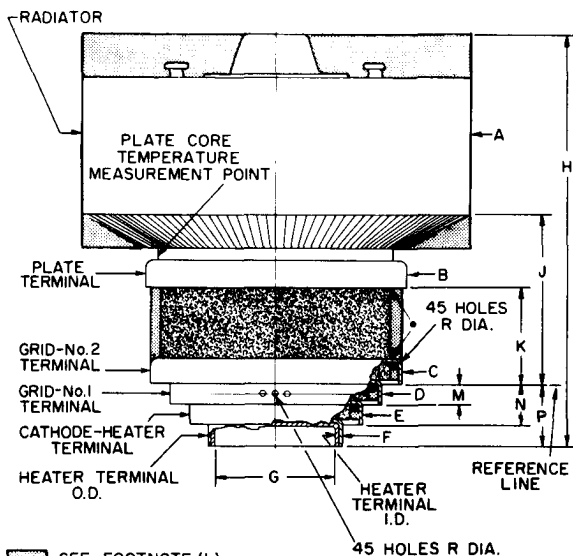
Plate-Core Temperature 250 max. °C

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

^b Keep all stippled regions clear. In general do not allow contacts to intrude into these annular regions.

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

DIMENSIONAL OUTLINE



SEE FOOTNOTE (b)

CERAMIC

• TEMPERATURE MEASUREMENT POINT

92LM-2497V

DIMENSION	INCHES	MILLIMETERS
A Dia.	6.130 $\pm$.040	55.70 $\pm$ 1.02
B Dia.	4.190 $\pm$.020	106.43 $\pm$.51
C Dia.	3.915 $\pm$.015	99.44 $\pm$.38
D Dia.	3.315 $\pm$.015	84.20 $\pm$.38
E Dia.	2.700 $\pm$.020	68.58 $\pm$.51
F Dia.	2.100 $\pm$.015	53.34 $\pm$.38
G Dia.	1.975 $\pm$.010	50.17 $\pm$.25
H	6.500 Max.	165.1 Max.
J	2.650 $\pm$.025	67.31 $\pm$.64
K	1.625 $\pm$.025	41.28 $\pm$.64
M	0.340 $\pm$.030	8.64 $\pm$.76
N	0.660 $\pm$.038	6.76 $\pm$.97
P	1.000 $\pm$.030	25.40 $\pm$.76
R Dia.	0.089 Nom.	2.26 Nom.