

Beam Power Tube

CERMOLOX

High Gain RF Power Amplifier	2500 Watts Carrier Output at 400 MHz
Matrix Cathode	10 kW PEP
Forced-Air Cooled	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

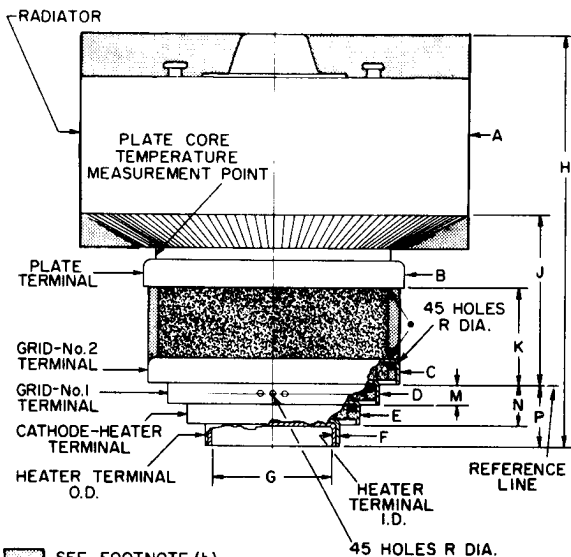
Terminal Temperature (Plate, heater-cathode, and heater)	250 max. °C
Grid No.2 and Grid No.1	200 max. °C
Plate-Core Temperature	250 max. °C

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