4638

Beam Power Tube

CERMOLOX
Ruggedized
Pulse Modulator

Matrix Cathode
13 kV, 20 Amperes
Conduction Cooled

ELECTRICAL

Heater:

Type	Matrix Oxide-Coated Unipotential Cathode	
Voltage (ac or dc)	5.5 typ. 6.0 max.	V V
Current at 5.5 volts	17.3	A
Minimum heating time	180	s
Mu-Factor, Grid No.2 to Grid No.1	17	

MAXIMUM RATINGS, Absolute-Maximum Values:

DC Plate Voltage	13	kV
Instantaneous Peak Plate Voltage (pulse duration < 0.1 s)	20	kV
DC Grid-No.2 Voltage	1000	V
DC Grid-No.1 Voltage	-300	V
Peak Positive Pulse Grid-No.1 Voltage	100	V
Peak Plate Current	30	A
DC Plate Current	1.5	A
Plate Dissipation (Average)	1.5	kW

MECHANICAL

Operating Position	Any
Weight (Approx.)	2 lb (0.91 kg)

THERMAL

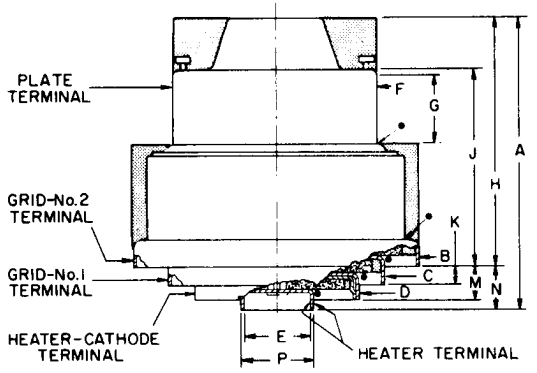
Terminal Temperature (Plate, grid No.2 grid No.1, cathode and heater)	250 max.	°C
Plate-Seal Temperature	250 max.	°C

[a] See *Dimensional Outline* for temperature measurement points.

[b] Keep all stippled clear. Do not allow contacts or circuit components to protrude into these annular volumes.

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-2509V

DIMENSION	INCHES	MILLIMETERS
A	3.31 Max.	84.1 Max.
B Dia.	3.020 ±.010	76.71 ±.25
C Dia.	2.317 ±.010	58.85 ±.25
D Dia.	1.717 ±.007	43.61 ±.18
E Dia.	0.713 ±.012	18.11 ±.30
F Dia.	2.266 ±.001	57.56 ±.03
G	0.725 Min.	18.42 Min.
H	2.780 ±.040	70.61 ±1.02
J	2.185 ±.030	55.50 ±.76
K	0.200 ±.025	5.08 ±.64
M	0.370 ±.030	9.40 ±.76
N	0.460 ±.030	11.68 ±.76
P Dia.	0.755 ±.010	19.18 ±.25