

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. V
 6.0 max. 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 20 kV
 (pulse duration < 0.1 s)

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

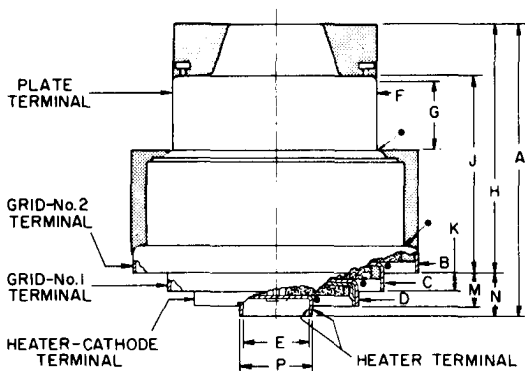
Plate-Seal Temperature 250 max. °C

^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



92LM-2509V

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