

## 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) . . . . .		$\left\{ \begin{array}{l} 5.5 \text{ typ. V} \\ 6.0 \text{ max. V} \end{array} \right.$	
Current at 5.5 volts . . . . .			17.3
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**

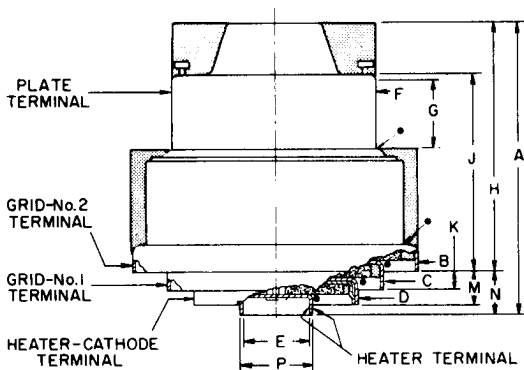
Terminal Temperature (Plate, grid No.2 grid No.1, cathode and heater) . . . . .	250 max. °C
Plate-Seal Temperature . . . . .	250 max. °C

<sup>a</sup> See *Dimensional Outline* for temperature measurement points.

<sup>b</sup> 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.	$3.020 \pm .010$	$76.71 \pm .25$
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	$2.780 \pm .040$	$70.61 \pm 1.02$
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.	$0.755 \pm .010$	$19.18 \pm .25$