4651

Beam Power Tube

CERMOLOX

Ruggedized **Full Input to 400 MHz**

1000 Watts PEP Output **Matrix Cathode**

37 dB Open-Loop Third Order Distortion

ELECTRICAL

Heater-Cathode:		
Type	Unipotential, Oxide Coated, Matrix	
Voltage (ac or dc)	5.5 typ.-5.8 max.	V
Current at 5.5 V	17.3	A
Surge Current (RMS) (Under any conditions)	50 max.	A
Minimum Heating Time	180	s
Mu Factor (Grid No.1 to Grid No.2)	7	

MAXIMUM CCS RATINGS, Absolute-Maximum Values:

	Up to 400 MHz	
DC Plate Voltage	3500 max.	V
DC Grid-No.2 Voltage	1000 max.	V
DC Plate Current at Peak of Envelope	1.25 max.	A
Grid-No.2 Input	50 max.	W
Plate Dissipation	1.5 max.	kW

MECHANICAL

Operating Position	Any
Weight (Approx.)	2 lb (0.9 kg)

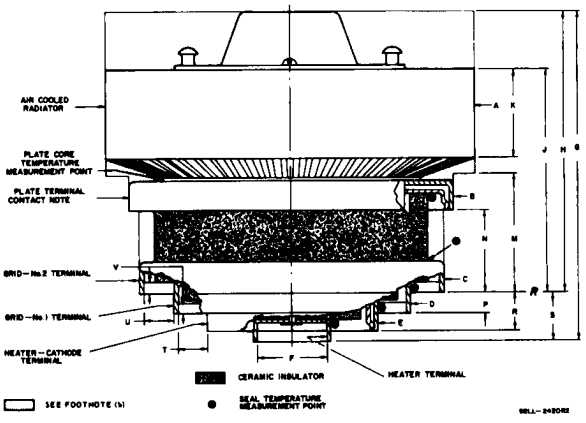
THERMAL[a]

Seal Temperature (Plate, Grid No.1, Grid No.2 Cathode-Heater, and Heater)	250 max.	°C
Plate-Core Temperature	250 max.	°C

[a] See *Dimensional Outline* for temperature measurement points.
[b] Keep all strippled regions clear. Do not allow contacts or circuit components to protrude into these annular regions.

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

DIMENSIONAL OUTLINE



DIMENSION	INCHES	MILLIMETERS
A Dia.	3.72 ±.03	94.49 ±.76
B Dia.	3.210 Min.	81.54 Min.
C Dia.	3.010 Min.	76.45 Min.
D Dia.	2.307 Min.	58.60 Min.
E Dia.	1.710 Min.	43.41 Min.
F Dia.	0.725 Max.	18.41 Max.
G	3.24 ±.10	82.3 ±2.5
H	2.78 ±.07	70.61 ±1.78
J	2.19 ±.04	55.63 ±1.02
K	0.85 Min.	21.59 Min.
M	1.160 $^{+.005}_{-.000}$	29.464 $^{+.127}_{-.000}$
N	0.82 ±.03	20.83 ±.76
P	0.200 ±.025	5.08 ±.63
R	0.37 ±.03	9.40 ±.76
S	0.46 ±.03	11.68 ±.76
T	0.200 Min.	5.08 Min.
U	0.250 Min.	6.35 Min.
V	0.105 Min.	2.66 Min.