

## Beam Power Tube

**CERMOLOX** 12.5 kW Peak Sync Output  
 Full Input to 400 MHz thru VHF-TV High Band  
 2.5 kW Carrier for Linear Operation

**ELECTRICAL**

Filamentary Cathode:

Type . . . . . Thoriated-Tungsten Mesh

Voltage (ac or dc) . . . . . 5.7 typ.-6.0 max. V

Current:

Typical value at 5.7 volts . . . . . 125 A

Maximum value for starting  
even momentarily . . . . . 300 ACold Resistance . . . . . 0.005  $\Omega$ 

Minimum heating time . . . . . 15 s

Mu-Factor (Grid No.2 to Grid No.1) . . . . . 20

**MAXIMUM CCS RATINGS, Absolute-Maximum Values**

Up to 400 MHz

DC Plate Voltage . . . . . 8000 max. V

DC Grid-No.2 Voltage . . . . . 1650 max. V

DC Grid-No.1 Voltage . . . . . -450 max. V

DC Plate Current . . . . . 4.0 max. A

Grid-No.1 Input . . . . . 150 max. W

Grid-No.2 Input . . . . . 250 max. W

Plate Dissipation . . . . . 12500 max. W

**MECHANICAL**

Operating Position . . . . . Vertical, either end up

Weight (Approx.) . . . . . 10 lb (4.54 kg)

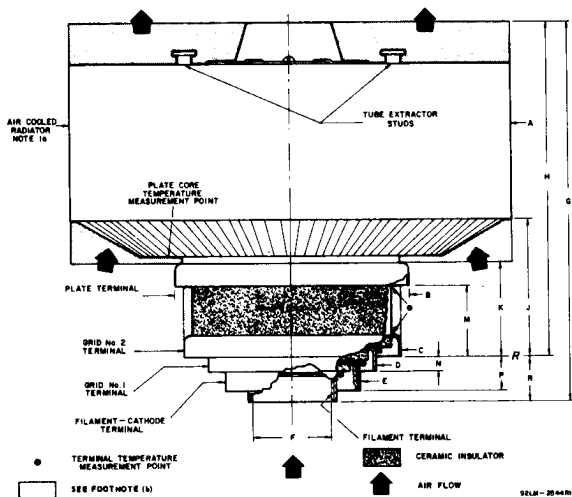
**THERMAL<sup>a</sup>**Seal Temperature (Plate, grid No.2,  
grid No.1, filament-cathode  
and filament) . . . . . 250 max. °C

Plate-Core Temperature . . . . . 250 max. °C

<sup>a</sup> See *Dimensional Outline* for temperature measurement points.<sup>b</sup> 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.    | 6.135 ± .035 | 155.83 ± .88 |
| B Dia.    | 3.235 Min.   | 82.17 Min.   |
| C Dia.    | 3.014 Min.   | 76.56 Min.   |
| D Dia.    | 2.307 Min.   | 58.60 Min.   |
| E Dia.    | 1.840 Min.   | 46.74 Min.   |
| F Dia.    | 1.210 Max.   | 30.73 Max.   |
| G         | 5.370 ± .080 | 136.4 ± 2.0  |
| H         | 4.715 ± .050 | 119.7 ± 1.2  |
| J         | 1.940 ± .040 | 49.28 ± 1.01 |
| K         | 1.330 ± .030 | 33.78 ± .76  |
| M         | 1.005 ± .020 | 25.53 ± .51  |
| N         | 0.200 ± .025 | 5.08 ± .63   |
| P         | 0.475 ± .030 | 12.06 ± .76  |
| R         | 0.650 ± .030 | 16.51 ± .76  |