



T. R. CELL

A separate cavity T.R. Cell designed for use in 'L' Band.

PHYSICAL DATA.

Max. overall length 3" (76 mm.).
 Max. dia. over diaphragm flange $1\frac{3}{8}$ " (29 mm.).
 For other dimensions see drawing overleaf.

*FREQUENCY RANGE 400 to 1500 Mc/s.
 Dependent on the cavity design.

RATINGS.

Max. Transmitter Power 20 kW.
 Max. Primer Supply Voltage -1500 volts.
 Min. Primer Supply Voltage -800 volts.
 Max. Primer Current 200 μ A.
 Min. Primer Current 100 μ A.

CHARACTERISTICS.

Low Power Level
 †Insertion Loss 1.6 dB max.
 Interaction Loss 0.2 dB max.

Primer Electrode Characteristic

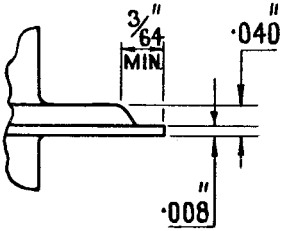
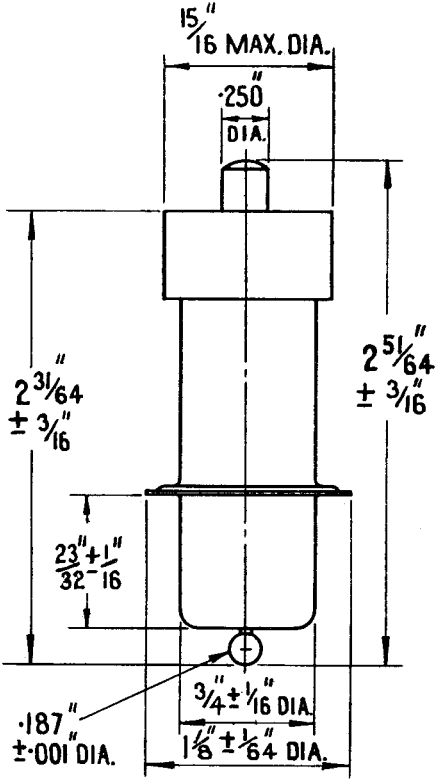
Primer Operating Voltage 300 to 425 volts.

OPERATING NOTES.

- (1) The performance of this T.R. Cell is to a large extent determined by the cavity into which the tube is fitted. It will work satisfactorily over a large portion of the 'L' Band depending on the cavity design.
- (2) The primer electrode should be supplied from a negative potential DC source of at least 800 volts. Suitable resistors should be used to limit the primer electrode current to between 100 and 200 micro-amperes.

*When tested in a cavity as drawing 162-JAN the valves will tune in the range 949 to 951 Mc/s.

†In test cavity as drawing 162-JAN.



ENLARGED VIEW OF DIAPHRAGM FLANGE