



T. R. CELL

A separate cavity T.R. Cell designed for use in 'L' Band.
It is equivalent to the American Type 1B23.

QF10

PHYSICAL DATA.

Max. overall length 3" (76 mm.).
Max. dia. over diaphragm flange 1 1/8" (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 375 to 525 volts.

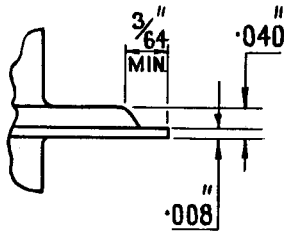
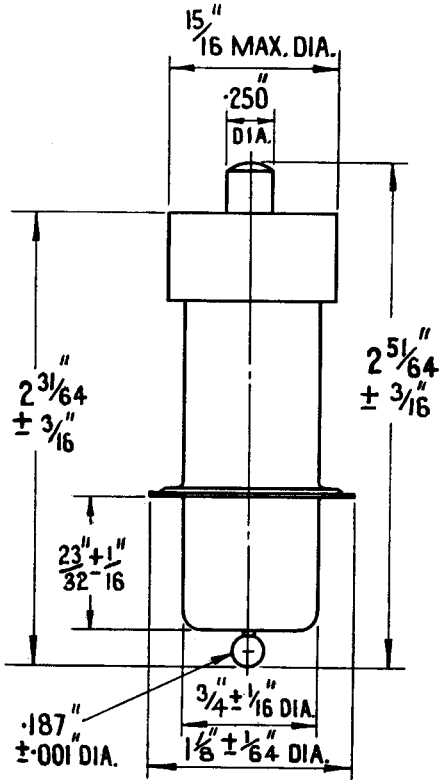
OPERATING NOTES.

- (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