

FERRANTI

T.R. CELL

QF50

Type QF50 is a tuneable T-R Cell for operation in the Q band.

PHYSICAL DIMENSIONS.

Max. Overall Height	92 mm. (3.625in.).
Max. Width over Tuner	31 mm. (1.220in.).
Primer Connection Caps	Type C.T.I. (0.25in. dia.).

For other dimensions see drawings overleaf.

CHARACTERISTICS.

Low Level Characteristics.

Loaded 'Q'	150 max.
V.S.W.R.	2 max.
Tuning Range	8.4 to 8.8 mm.
Insertion Loss	2 db. max.

High Power Characteristics.

Nominal Peak Power	20 kW.
Nominal Mean Power	8 watts.
Leakage { Spike	0.045 e/p. max.
{ Flat	25 mW. max.
Recovery Time to 3 db.	2 μ secs. max*
Recovery Time to 1 db.	4 μ secs. max.

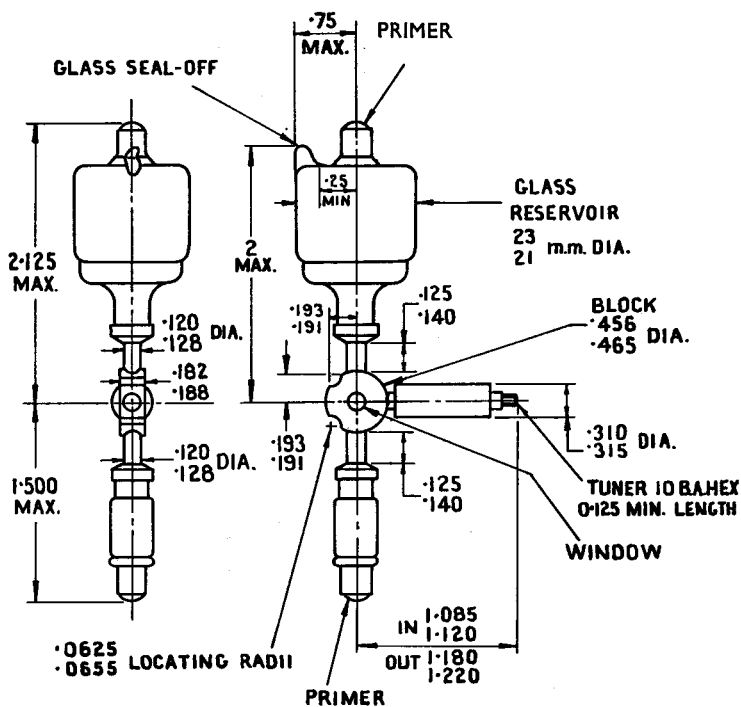
Primer Characteristics.

Primer Supply Voltage	-2 kV.
*Primer Current	50 to 75 μ amps.

*The primer electrodes should be fed from a source maintained at a negative potential of 2,000 volts DC. The primer current should be restricted to a value between 50 and 75 μ A. by employing suitable limiting resistors. Some of this resistance may be located in the power supply but at least 2 megohms must be connected directly on to each primer terminal to prevent relaxation oscillations.



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Note:

Maximum displacement of tuning mechanism is 2° with cell held against either face and held on locating radii.