

T. R. CELL

A broad band passive protection cell normally used in conjunction with pulsed attenuators or in radar systems where protection against random signals is not available.

The cell should be mounted in the receiver arm, between rectangular flanges for W.G.16.

PHYSICAL DATA.

Dimensions ... See outline drawing overleaf.

... W.G.16 (0 ·4"×0 ·9"). Waveguide

... CT.1. Primer Terminal

Mounting Position ... Any.

FREQUENCY RANGE ... 8950 to 9600 Mc/s.

RATINGS.

Max. Line Power level ... IO kW. ... *Max. Primer Supply Voltage ... -1500 volts. -950 volts. Min. Primer Supply Voltage ... *Max. Primer Current ... 150 μA. *Min. Primer Current ... 100 µA. ... Ambient Temperature Range (non-operating) ... -40 to +100 °C.

CHARACTERISTICS.

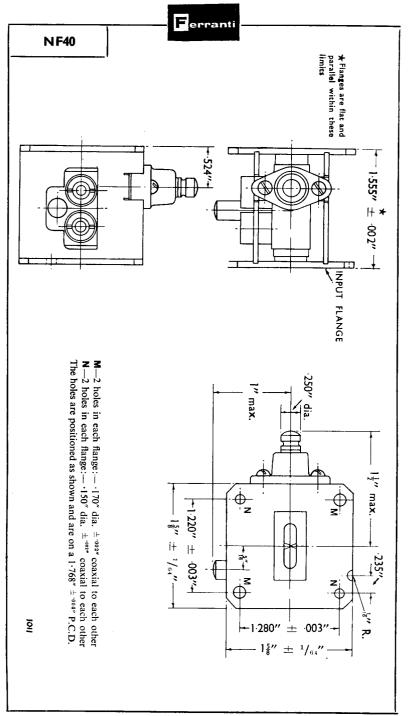
Low Power Level. Insertion Loss:— 8950 to 9600 Mc/s. V.S.W.R	Average.		Limit.	
		0 ·6 I ·15	1 ·0 1 ·25	dB. dB.
High Power Level.				
Breakdown Power	•••	120	200	mW.
Leakage at 40kW. peak : Total Leakage Power Spike Leakage Energy		0.12	20 0· 2	mW. ergs/pulse.
†Recovery Time (to 6dB. loss)			50	μSec.
Primer Characteristics. Primer Operating Voltage		200	180) to 280	volts.



Issue 2.

^{*}A suitable resistor should be connected in series with the electrode to limit the current to between 100 and 150 microamperes. At least I megohm should be connected directly to the primer electrode terminal.

[†]Measured at 10 kW.



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