

Wideband S-band passive receiver-protection plug-in cell containing three primed gas-discharge protection tubes for radar crystal protection.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 MicrowaveTRSwitch

No fixed ratings recorded.

Published maximum ratings and characteristics audited; remaining useful numerical data retained in parameter table.

The TRP8 is a wideband S-band passive receiver-protection plug-in cell containing three primed gas-discharge protection tubes for crystal protection.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1955 MARCONI

Section 1 · MicrowaveTRSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Max. incident peak r.f. power	15 W	Max. incident peak r.f. power 15 w
*Min. d.c. negative primer supply voltage	950 V	*Min. d.c. negative primer supply voltage 950 A%
+Max. primer current to each tube	65 mA	+Max. primer current to each tube 65 HA
tMin. primer current to each tube	45 A	tMin. primer current to each tube 45 HA
tThe primer current should be limited by series resistors of which at least	2 A	tThe primer current should be limited by series resistors of which at least 2MQ
The frequency range [1]	25 MHz	The frequency range 25 to 4:-1kMc/s can be covered with one mounting using the
The frequency range [2]	4 MHz	The frequency range 25 to 4:-1kMc/s can be covered with one mounting using the
The frequency range [3]	-1 MHz	The frequency range 25 to 4:-1kMc/s can be covered with one mounting using the
mount shown in fig	1	mount shown in fig. 1. For use over a more limited band the centre frequency may be
*Low Power (Fig	3 W	*Low Power (Fig. 3)
High Power (Figs [1]	4 W	High Power (Figs. 4, 5 and 6)
High Power (Figs [2]	5 W	High Power (Figs. 4, 5 and 6)
High Power (Figs [3]	6 W	High Power (Figs. 4, 5 and 6)
tPower limitation at [1]	3 MHz	tPower limitation at 3-6kMc/s (max): 300mwW
tPower limitation at [2]	-6 MHz	tPower limitation at 3-6kMc/s (max): 300mwW
tPower limitation at [3]	300 MHz	tPower limitation at 3-6kMc/s (max): 300mwW
Running voltage (at [1]	60 V	Running voltage (at 60pA): 240V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Running voltage (at [2])	240 V	Running voltage (at 60pA): 240V
Edges of plates square and [1]	500	Edges of plates square and 0500 datum B pos? h%sn tol. 000I
Edges of plates square and [2]	0	Edges of plates square and 0500 datum B pos? h%sn tol. 000I
Maximum incident peak RF power	15 W	Published protection-cell rating.
Minimum primer supply voltage	950 V	Negative with respect to cell body.
Primer current minimum	45 uA	Per protection tube.
Primer current maximum	65 uA	Per protection tube.
Frequency range minimum	2500 MHz	With specified mounting.
Frequency range maximum	4100 MHz	With specified mounting.
Recovery time to 6 dB	70 us	Maximum at high power.

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