

J-band Waveguide Limiter

(12 - 18 GHz) Capability Example

COBHAM

2010 Datasheet v1

The most important thing we build is trust

Description

This J-Band (12 - 18 GHz) waveguide limiter demonstrates Cobham Sensor Systems leading capability in producing waveguide limiter and receiver protector designs for Military and Commercial applications.

This particular device is designed for narrow bandwidth Military operation, within the 12 - 18 GHz frequency range. It features excellent insertion loss and high power handling. This performance is housed within a space-saving custom designed minimised outline package.

This design capability can be applied to your particular Waveguide limiter requirements. of these ejectors as an alternative to pyrotechnic cartridges.

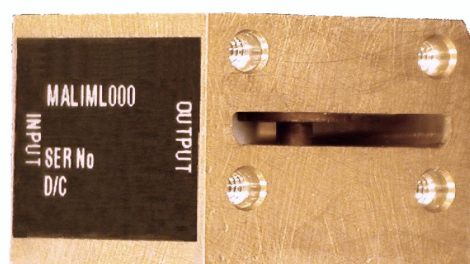
Features

- High Reliability
- High power handling
- Low insertion loss
- Minimised Outline
- Dimensions : 16 x 16 x 20 mm
- European Manufacture

RF Performance @ +25°C

Parameter	Value			Units
	Min.	Typ.	Max.	
Frequency Band	13		15	GHz
Operation Bandwidth			300	MHz
Operating Temperature Top	-45		+125	°C
Pulse Conditions	Pulse width		15	µs
	Duty cycle	25		%
Insertion Loss		0.5	1.0	dB
Peak Input power (Pulse)			50	W
Output flat leakage (Pulse)		+15	+17	dBm
Spike leakage energy (RF rise time >= 15ns)			5	nJ
Recovery time (To within 1 dB of insertion loss)			125	ns
Input / Output Return Loss		1.22:1	1.44:1	Ratio

Applies over the frequency range, output and input characteristic impedance of stated waveguide. Unless otherwise stated limits & conditions are indicated values.



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