

MALI-007214-000000

Ka-Band Active Waveguide Limiter

COBHAM

2010 Data Sheet v1

The most important thing we build is trust

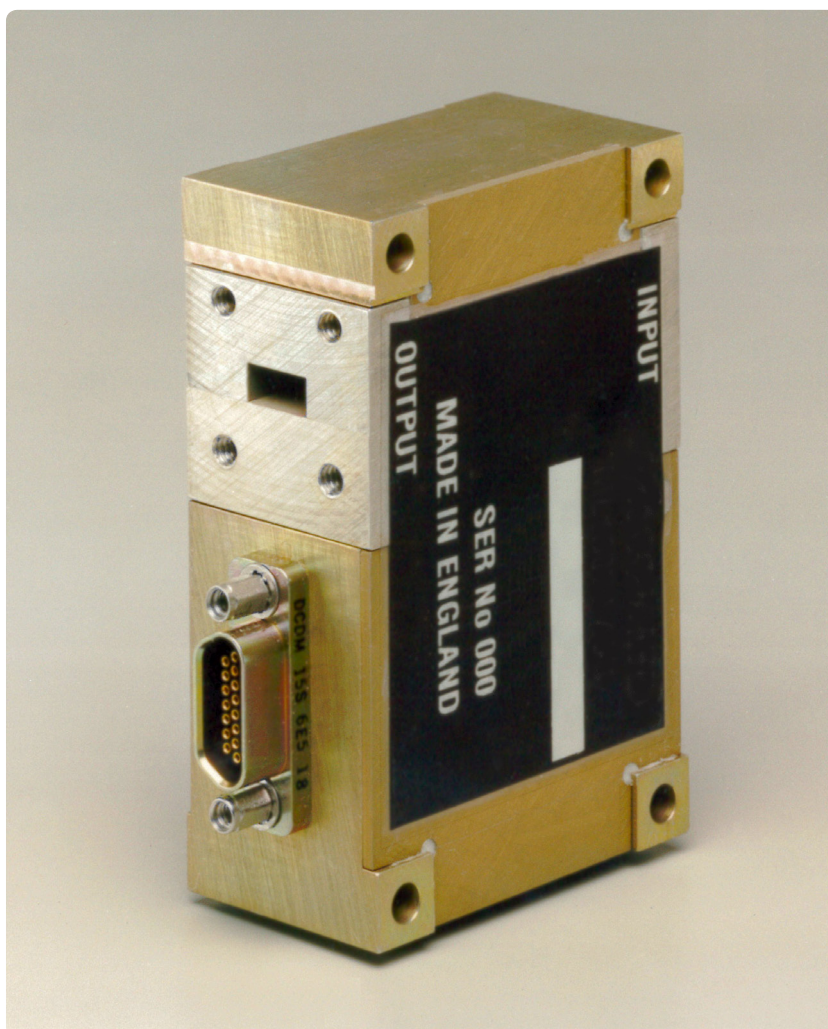
Description

This Ka-Band active waveguide limiter allows the system direct control over when the limiting function is applied.

Built In Test Equipment (BITE) indicates a short circuit RF diode when blanking.

Features

- High Reliability
- High power handling
- Low insertion loss
- Low flat leakage
- Active control
- European Manufacture.



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RF Performance

Parameter	Value			Units
	Min.	typ.	Max.	
Frequency Band	33.8		34.4	GHz
Insertion Loss (Input power <= -10 dBm)			1.3	dB
Input / Output Return Loss (Input power <= -10 dBm)			1.44:1	Ratio
Normal Operating	Peak Power		130	W
	Mean Power		30	W
	Pulse width		5	µs
	Duty cycle	4:1		Ratio
Blanking Isolation	38			dB
Supply current, +15V Rail			50	mA
Supply current, +5V Rail			100	mA
Supply Current, -5V Rail			150	mA

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

Pin-out - 15 Way MDM Socket

Pin	Function
1	-5V Supply
2	BITE Out
3	NOT (BITE Out)
4	+15V Supply
6	Blanking Input
7	NOT (Blanking Input)
5, 8, 9	Not Used
10, 11, 12, 13, 14	0V
15	+5V Supply

Environmental	
Operating Temperature	-40°C to +70°C
Storage Temperature	-55°C to +90°C
RF Connections	
Input / Output	WG22

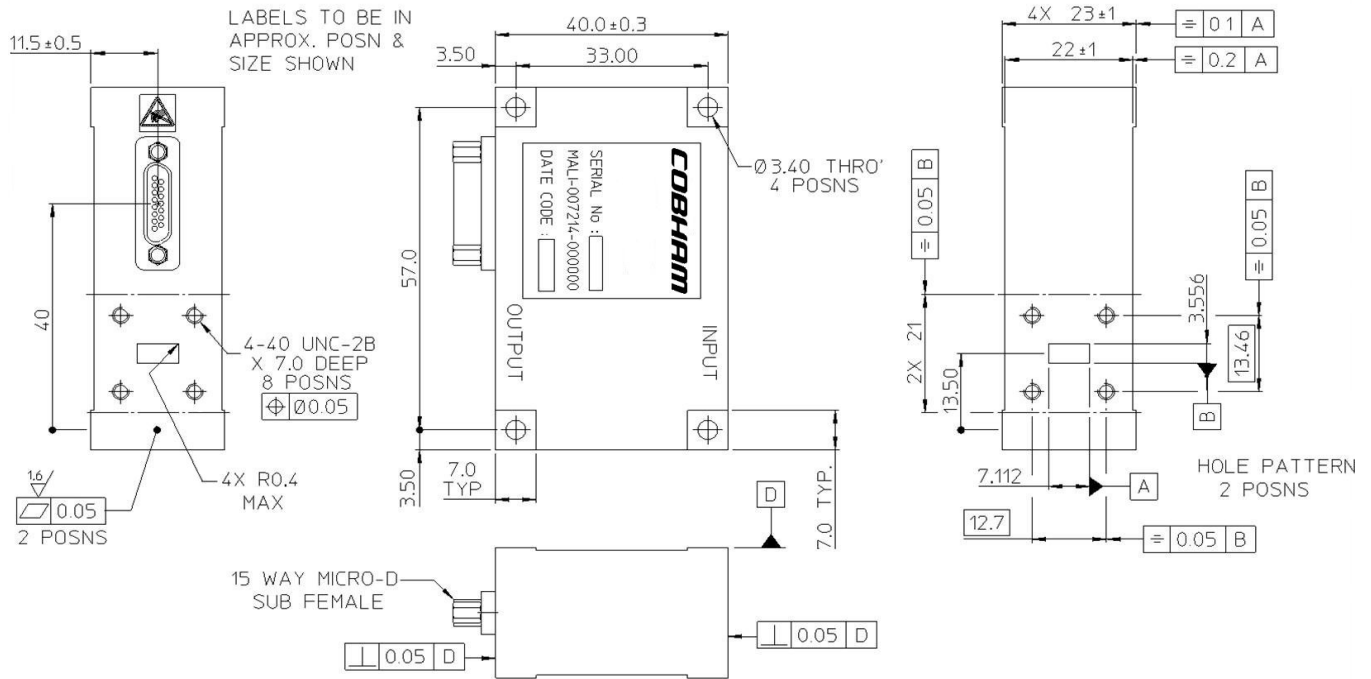
Blanking Input (Differential TTL)

	Blanking Input	NOT (Blanking Input)
Isolation	'1'	'0'
Insertion Loss	'0'	'1'

BITE Output (Differential TTL)

	BITE Output	NOT (BITE Output)
Isolation	'0'	'1'
Insertion Loss	'1'	'0'
Fault during Isolation	'1'	'0'

Mechanical Outline



TOL. UNLESS STATED
 X. ± 0.5 X.XXX ± 0.05
 X.X ± 0.3
 X.XX ± 0.1
 HOLES TO BS 4500 H11
 ANGLES ± 1°

OUTLINE DRAWING MALI-007214-000000



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