

MALI-007214-000000

Ka-Band Active Waveguide Limiter



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

Description

This Ka-Band active waveguide limiter allows the system direct control when the limiting function is applied. Built In Test Equipment (BITE) indicates a short circuit RF diode when blanking.

Graphical Representation



RF Performance information

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

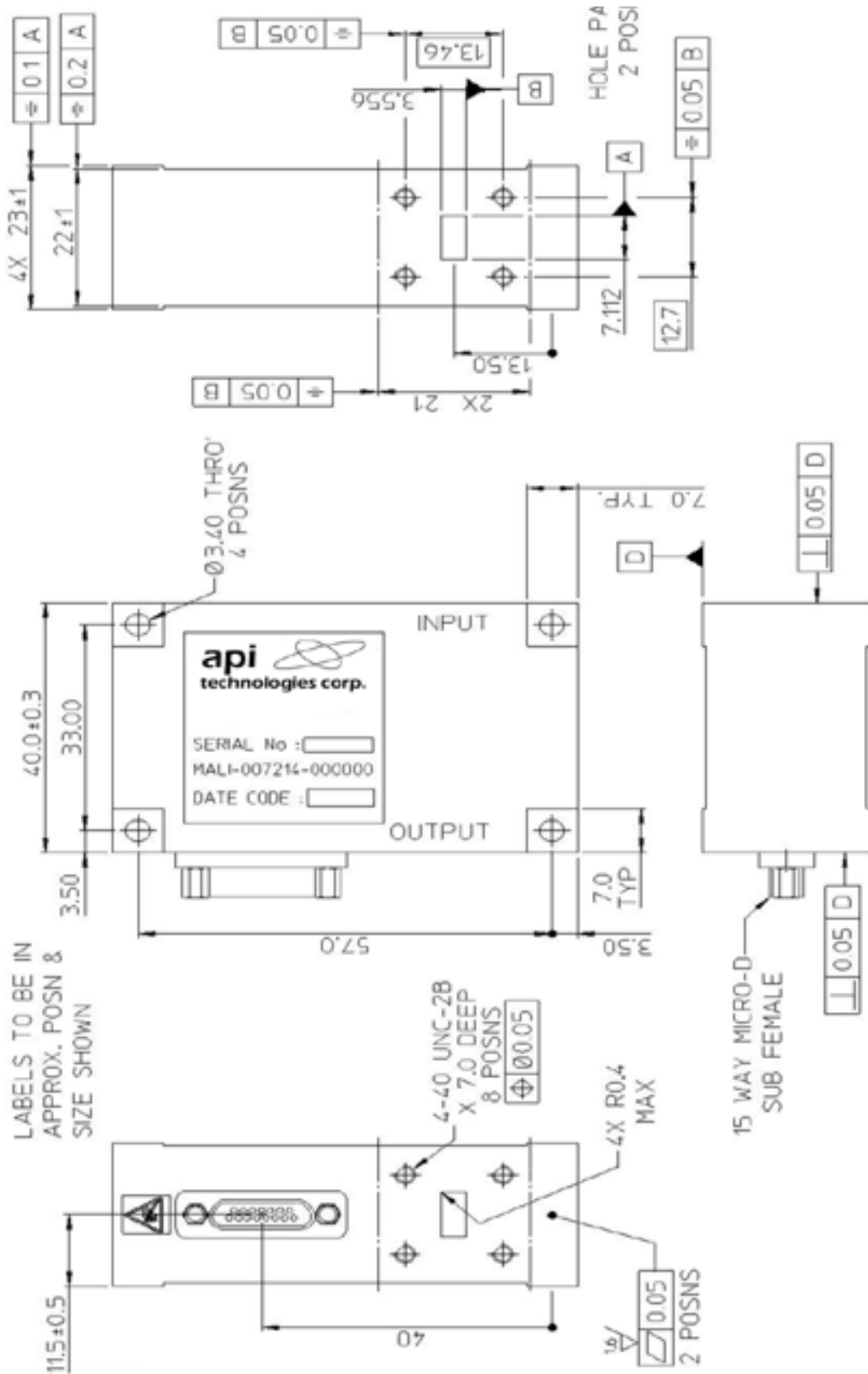
BITE Output (Differential TTL)

	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



OUTLINE DRAWING MALI-007214-000000

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

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 Descriptions and specifications of products are subject to change without notice.