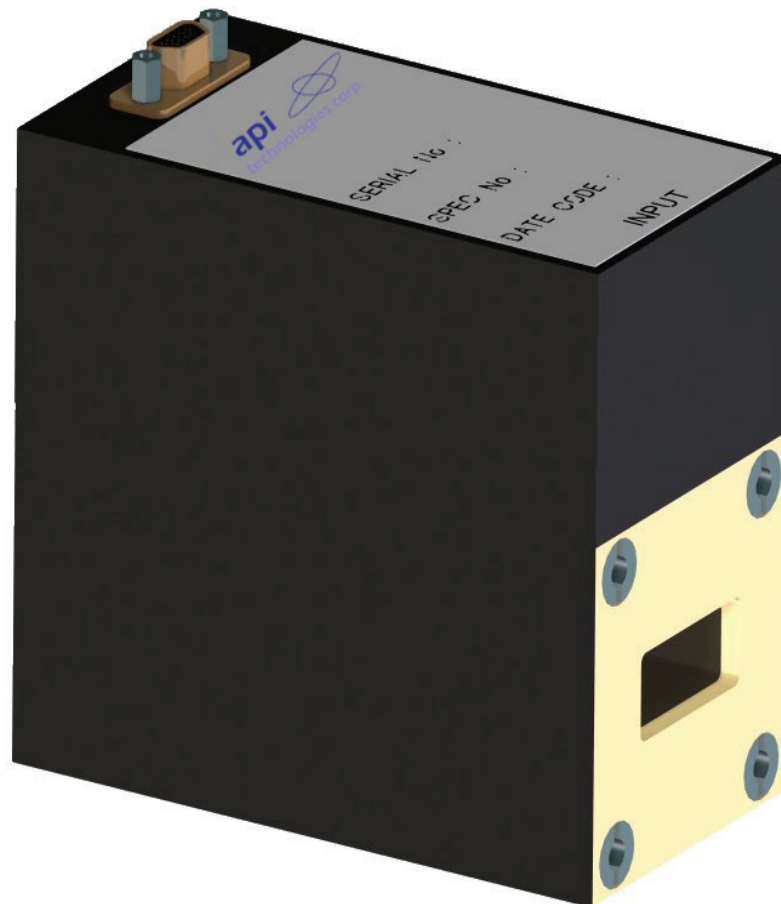


MALIML0028

X-Band Waveguide Limiter with STC and Blanking



- High Reliability
- High power handling
- Low insertion loss
- Sensitivity Time Control (STC)
- Blanking feature
- European Manufacture.

Description

This X Band waveguide limiter provides excellent protection from unwanted signals. It features STC and Blanking capabilities for additional system flexibility.

MALIML0028

X-Band Waveguide Limiter with STC and Blanking

RF Performance

Parameter	Value			Units
	Min.	typ.	Max.	
Frequency Band	9.2		9.6	GHz
Insertion Loss (Input power <= -10 dBm)		0.5	1.0	dB
Input / Output Return Loss (Input power <= -10 dBm)		<1.29:1	1.38:1	Ratio
Normal Operating	Peak Power		500	W
	Mean Power		35	W
	Pulse width		20	µs
	Duty cycle	25:1		Ratio
Fault condition peak power (6.2 µs Pulse Max. 20:1 duty cycle min.)			8	kW
Fault Duration			10	ms
Flat Leakage		<10	45	mW
Spike Leakage (RF rise time >= 15ns)			450	mW
Recovery time, Normal Operating (To within 3dB of Insertion Loss)		650 to 750	1000	ns
Recovery time (To within 3dB of Insertion Loss)			3	µs
Blanking Isolation	60			dB
STC Control (Input impedance approx. 3kΩ)	0		5	V
STC Response (monotonic)	0		45	dB
Supply current, +15V Rail		30	100	mA
Supply Current, -15V Rail		45	100	mA

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

Pin-out - 9 Way MDM Plug

Pin	Function
1	+15V Supply
2	Blanking
5	-15V Supply
6	+15V Return (GND)
8	STC
9	-15V Return (GND)
3, 4, 7	Not Used

Environmental	
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +90°C
RF Connections	
Input / Output	WG16
Pressure window fitted to front flange, 1.5 bar (gauge) Max.	

Blanking Input

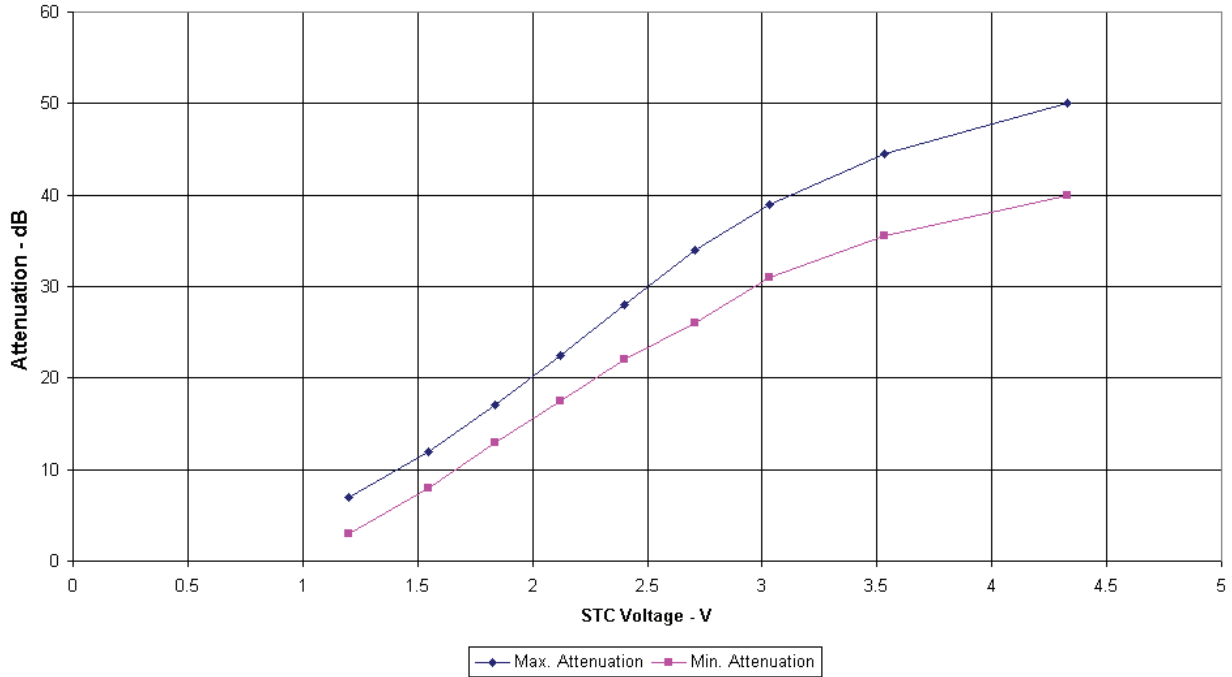
Single ended TTL

'0' = Insertion Loss

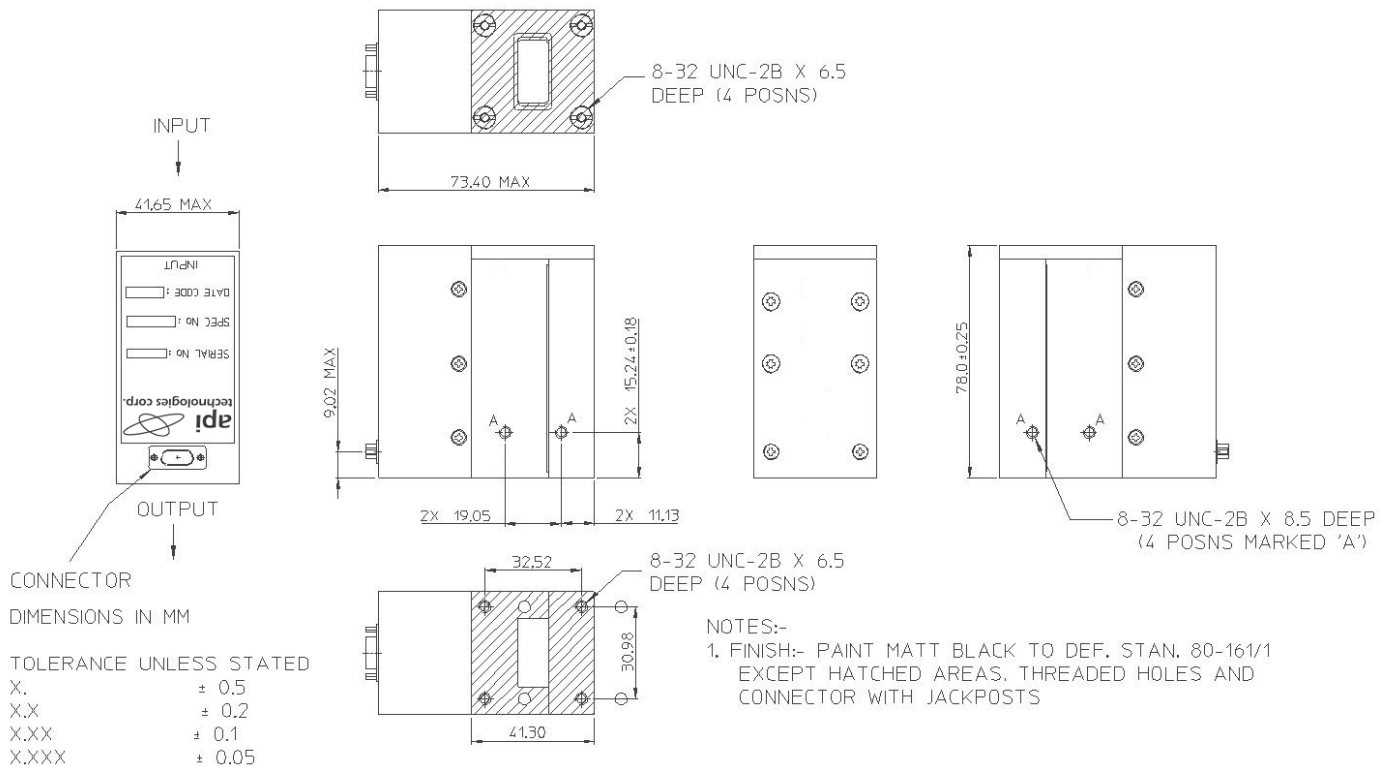
'1' = Blanking

STC Response

STC Response - Ambient 25°C



Mechanical Outline



OUTLINE DRAWING - MALIML0028

For further information please contact:

RF2M Microwave Ltd
Featherstone Road
Wolverton Mill
Milton Keynes, MK12 5EW
England

Whilst every effort is made to ensure the accuracy of the information contained in this brochure, no responsibility can be accepted for any errors and/or omissions.

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

+44 (0) 1908.574.200
info.rf2m@apitech.com
<http://rf2m.apitech.com>

+1 855.294.3800
www.apitech.com

api 
technologies corp.