

Focus on the future Waveguide Low Noise Amplifier

MM-MLN-075110-35-42 75 to 110 GHz

General Description:

MM-MLN-075110-35-42 is a Waveguide Low Noise Amplifier that operates over the frequency range of 75 to 110 GHz. This model provides a typical gain of 35 dB and a typical noise figure of 4.2 dB. It provides an OP1dB of 0 dB typical and operates on +12 VDC withat typical current draw of 80 mA.

Features:

• Ultra Wide Band: 75-110 GHz

• Gain: 35 dB

• Internally regulated

Unconditionally stable

Applications:

- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications (23°C):

Parameter	Value			Lluita
	Min	Тур	Max	Units
Frequency Range	75		110	GHz
Gain		35		dB
Gain Flatness		-		dB
Noise Figure		4.2		dB
Output Power (P1dB)		0		dBm
Input VSWR		2.5		:1
Output VSWR		2.2		:1
DC Voltage		+12		V
DC Current		80		mA

Absolute Maximum Ratings:

Condition	Value	
DC Voltage	+13V	
Maximum Input Power(CW)	0 dBm	
ESD sensitivity (HBm)	Class 0, passed 150V	

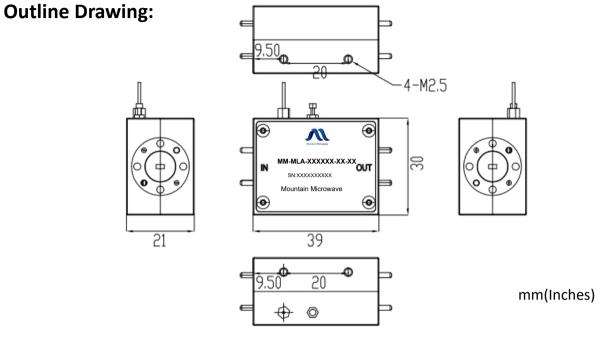
Mechanical Specifications:

Parameter	Value	
Length	39 mm	
Width	30 mm	
Height	21 mm	
RF Connector	WR10/UG-387	

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Environmental Conditions:

Parameter	Standard	Description	
Operational Temperature		-10°C~+65°C	
Storage Temperature		-25°C~+75°C	
Random Vibration	MIL-STD-883K, Method 2026, Cond. IB	50 - 2000 Hz, 7.3 Grms	
Humidity	MIL-STD-202, Method 103B, Cond. B	100% RH at 35c, 95%RH at 40°C	
Altitude	MIL-STD-883K, Method 1001, Cond. C	50,000 feet	

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- The device is static sensitive. Always follow ESD rules when working with the device.
- Heat Sink required during operation.

Please note, all information contained in this data sheet is subject to change without notice.

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