

MM-MLN-140220-20-70 140 to 220 GHz

General Description:

MM-MLN-140220-20-70 is a Waveguide Low Noise Amplifier that operates over the frequency range of 140 to 220 GHz. This model provides a typical gain of 20 dB and a typical noise figure of 7.0 dB. It provides an OP1dB of 0 dB typical and operates on +5 VDC witha typical current draw of 30 mA.

Features:

- Ultra Wide Band: 140-220 GHz
- Gain: 20 dB
- Internally regulated
- Unconditionally stable

Electrical Specifications (23°C):

Applications:

- Radar Systems
- Communication Systems
- Receivers Systems

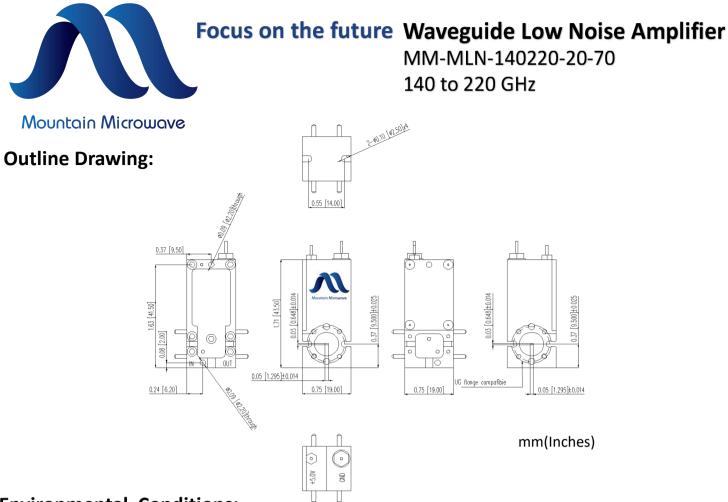
Parameter	Value			Unito
	Min	Тур	Max	Units
Frequency Range	140		220	GHz
Gain		20		dB
Gain Flatness		-		dB
Noise Figure		7.0		dB
Output Power (P1dB)		-		dBm
Psat		-		dBm
Input VSWR		-		:1
Output VSWR		-		:1
DC Voltage		+5		V
DC Current		30		mA

Absolute Maximum Ratings:

Condition	Value	
DC Voltage	+5V	
Maximum Input Power(CW)	-25 dBm	
ESD sensitivity (HBm)	Class 0, passed 150V	

Mechanical Specifications:

Parameter	Value	
Length	43.5 mm	
Width	19 mm	
Height	19 mm	
RF Connector	WR5.1/UG-387	



Environmental Conditions:

Parameter	Standard	Description	
Operational Temperature		-10°C~+65°C	
Storage Temperature		-45°C~+125°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.

ver 2.0 0318