



General Description:

MM-LNA-003200-15-2 is a Low Noise Amplifier that operates over the frequency range of 0.3 to 20 GHz. This model provides a typical gain of 15 dB and a typical noise figure of 2.4 dB. It provides an OP1dB of 10dB typical and operates on +12 VDC with a typical current draw of 70mA.

Features:

- Ultra Wide Band: 0.3-20.0 GHz
- Gain: 15 dB
- 50 Ohm input and output match
- Internally regulated
- Unconditionally stable

Applications:

- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications (23° C):

Parameter	Value			Units
	Min	Typ	Max	
Frequency Range	0.3		20	GHz
Gain	11	15		dB
Gain Flatness		±3		dB
Noise Figure		2.4	3.8	dB
Output Power (P1dB)	10	11		dBm
Output IP3		20		dBm
Input VSWR		1.6	2.0	:1
Output VSWR		1.5	2.0	:1
DC Voltage		+12		V
DC Current		70		mA

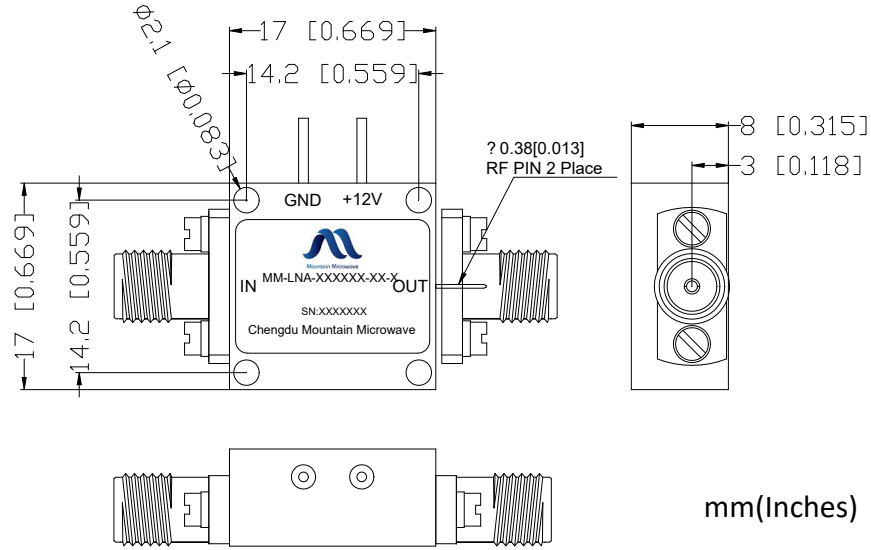
Absolute Maximum Ratings:

Condition	Value
DC Voltage	+15V
Maximum Input Power(CW)	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Mechanical Specifications:

Parameter	Value
Length	17 mm
Width	17 mm
Height	8 mm
RF Connector	SMA Female

Outline Drawing:



Environmental Conditions:

Parameter	Standard	Description
Operational Temperature		-45°C~+85°C
Storage Temperature		-55°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.