



**General Description:**

MM-LNA-001500-32-6 is a Low Noise Amplifier that operates over the frequency range of 0.01 to 50.0GHz. This model provides a typical gain of 32dB and a typical noise figure of 6.0dB. It provides an OP1dB of 19dB typical and operates on +12 VDC with a typical current draw of 400mA.

**Features:**

- Ultra Wide Band: 0.01-50 GHz
- Gain: 32dB
- 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	0.01		50	GHz
Gain		32		dB
Gain Flatness		±3.5		dB
Noise Figure		6.0		dB
Output Power (P1dB)		19		dBm
Output IP3		30		dBm
Input VSWR		1.9		:1
Output VSWR		1.9		:1
DC Voltage		+12		V
DC Current		400		mA

**Absolute Maximum Ratings:**

Condition	Value
DC Voltage	+15V
Maximum Input Power(CW)	-5dBm
ESD sensitivity (HBm)	Class 0, passed 150V

**Mechanical Specifications:**

Parameter	Value
Length	45 mm
Width	35 mm
Height	12 mm
RF Connector	2.4mm Female



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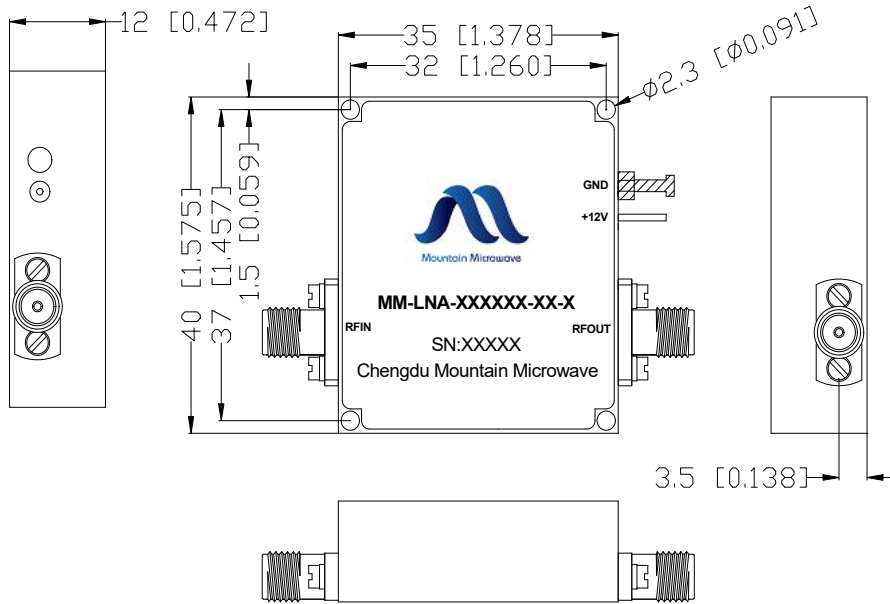
Low Noise Amplifier

MM-LNA-001500-32-6

0.01 to 50 GHz

### Outline Drawing:

mm(Inches)



### 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.

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

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