



General Description:

MM-BPA-001220-35-33 is a broadband Power amplifier with a typical small signal gain of 35 dB, a nominal Psat of +33 dBm across the frequency range of 0.1 to 22 GHz. The DC power requirement for the amplifier is +24 VDC/800 mA.

Features:

- Ultra Wide Band: 0.1-22.0 GHz
- Output Psat: 33 dBm
- 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	0.1		22	GHz
Gain	33	35		dB
Gain Flatness		±2.5		dB
Output P1dB		30		dBm
Output Psat		33		dBm
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage	+23	+24	+25	V
DC Current		0.8	0.9	A

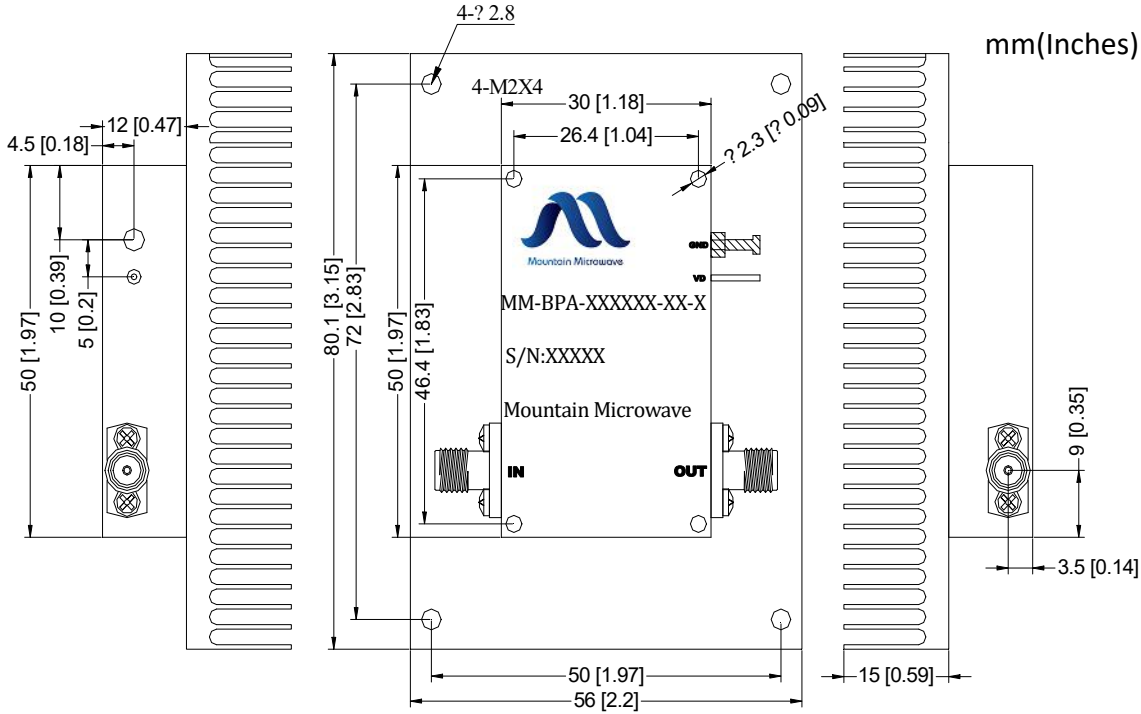
Absolute Maximum Ratings:

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

Mechanical Specifications:

Parameter	Value
Length	50 mm
Width	30 mm
Height	12 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.