



General Description:

MM-BPA-016017-40-40 is a broadband Power amplifier with a typical small signal gain of 40 dB, a nominal Psat of +40 dBm across the frequency range of 1.67 to 1.78 GHz. The DC power requirement for the amplifier is +12 VDC/5 A.

Features:

- Ultra Wide Band: 1.67-1.78 GHz
- Output Psat: 40 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	1.67		1.78	GHz
Gain	38	40		dB
Gain Flatness		± 1.0	± 2.5	dB
Output P1dB		38		dBm
Output Psat	39	40		dBm
Input VSWR		1.5	1.8	:1
Spurious		-60		dBc
Noise Figure			6	dB
DC Voltage		+12		V
DC Current		5	6.8	A

Absolute Maximum Ratings:

Condition	Value
DC Voltage	+15 V
Maximum Input Power(CW)	+12 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Mechanical Specifications:

Parameter	Value
Length	177.8mm
Width	82.55mm
Height	50.8 mm
Input Connector	SMA Female
Output Connector	N Female



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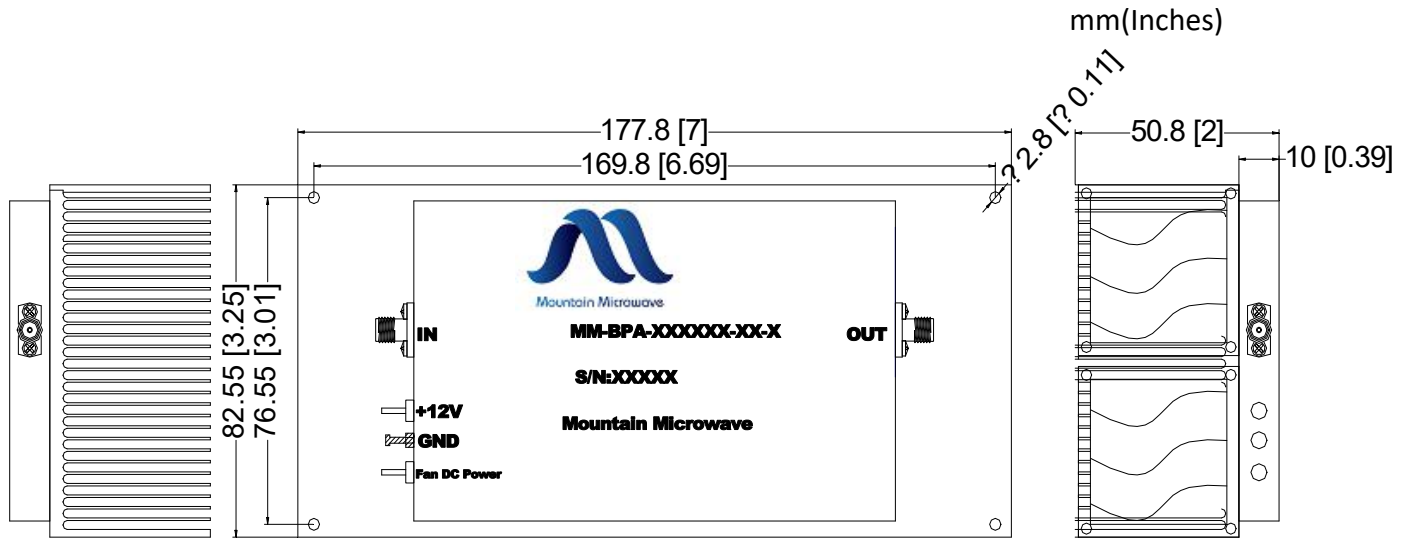
**Broadband Power Amplifier**

MM-BPA-016017-40-40

1.67-1.78GHz, 10W

Mountain Microwave

**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.

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

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