

Focus on the future

Broadband Power Amplifier

MM-BPA-180400-40-31 18.0-40.0 GHz, 31dBm

General Description:

MM-BPA-180400-40-31 is a broadband Power amplifier with a typical small signal gain of 40 dB, a nominal Psat of +31 dBm across the frequency range of 18.0 to 40.0 GHz. The DC power requirement for the amplifier is +12 VDC/1.8 A.

Features:

• Ultra Wide Band: 18.0-40.0GHz

Output Psat: 31 dBm

50 Ohm input and output match

Internally regulated

Unconditionally stable

Applications:

- Radar Systems
- **Communication Systems**
- **Receivers Systems**

Electrical Specifications (23°C):

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Parameter	Min	Тур	Max	Units
Frequency Range	18.0		40.0	GHz
Gain	35	40		dB
Gain Flatness		±3.0		dB
Output P1dB	29	30		dBm
Output Psat		31		dBm
Noise Figure		5.5		dB
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage		+12		V
DC Current		1.8	2.2	А

Absolute Maximum Ratings:

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

Mechanical Specifications:

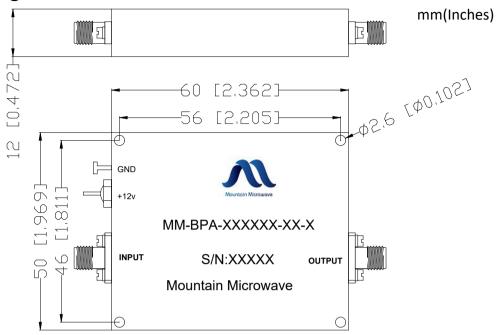
Parameter	Value	
Length	50 mm	
Width	60 mm	
Height	12 mm	
RF Connector	2.92mm Female	



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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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