

Focus on the future

Broadband Power Amplifier

MM-BPA-010180-25-26 1.0-18.0 GHz, 26 dBm

Mountain Microwave

General Description:

MM-BPA-010180-25-26 is a broadband Power amplifier with a typical small signal gain of 25 dB, a nominal Psat of +28 dBm across the frequency range of 1.0 to 18.0 GHz. The DC power requirement for the amplifier is \pm 12 VDC/0.5 A.

Features:

• Ultra Wide Band: 1.0-18.0 GHz

Output Psat: 28 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	1.0		18.0	GHz
Gain	20	25		dB
Gain Flatness		±3.0		dB
Output P1dB	26	27		dBm
Output Psat	28			dBm
Noise Figure		5.5		dB
Second Harmonic		-15	-13	dBc
Spurious		-60		dBc
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage		+12		V
DC Current		0.5		А

Absolute Maximum Ratings:

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

Mechanical Specifications:

Parameter	Value	
Length	40 mm	
Width	35 mm	
Height	12 mm	
RF Connector	SMA Female	

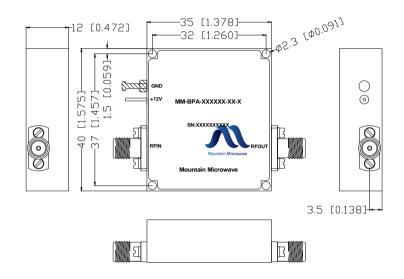


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Outline Drawing:

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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