



General Description:

MM-BPA-045050-50-46 is a broadband Power amplifier with a typical small signal gain of 50 dB, a nominal Psat of +47 dBm across the frequency range of 4.5 to 5.0 GHz. The DC power requirement for the amplifier is +28 VDC/5 A.

Features:

- Ultra Wide Band: 4.5-5.0GHz
- Output Psat: 47 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	4.5		5.0	GHz
Gain	47	50		dB
Gain Flatness		±0.8	±1.5	dB
Output P1dB	45	46		dBm
Output Psat		47		dBm
Harmonic Rejection		15		dB
Spurious		-60		dBc
Input VSWR		1.5	2.0	:1
DC Voltage		+28		V
DC Current		5	6	A

Absolute Maximum Ratings:

Condition	Value
DC Voltage	+30V
Maximum Input Power(CW)	+8 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Mechanical Specifications:

Parameter	Value
Length	206 mm
Width	137.4 mm
Height	19 mm
RF Connector	SMA Female



Mountain Microwave

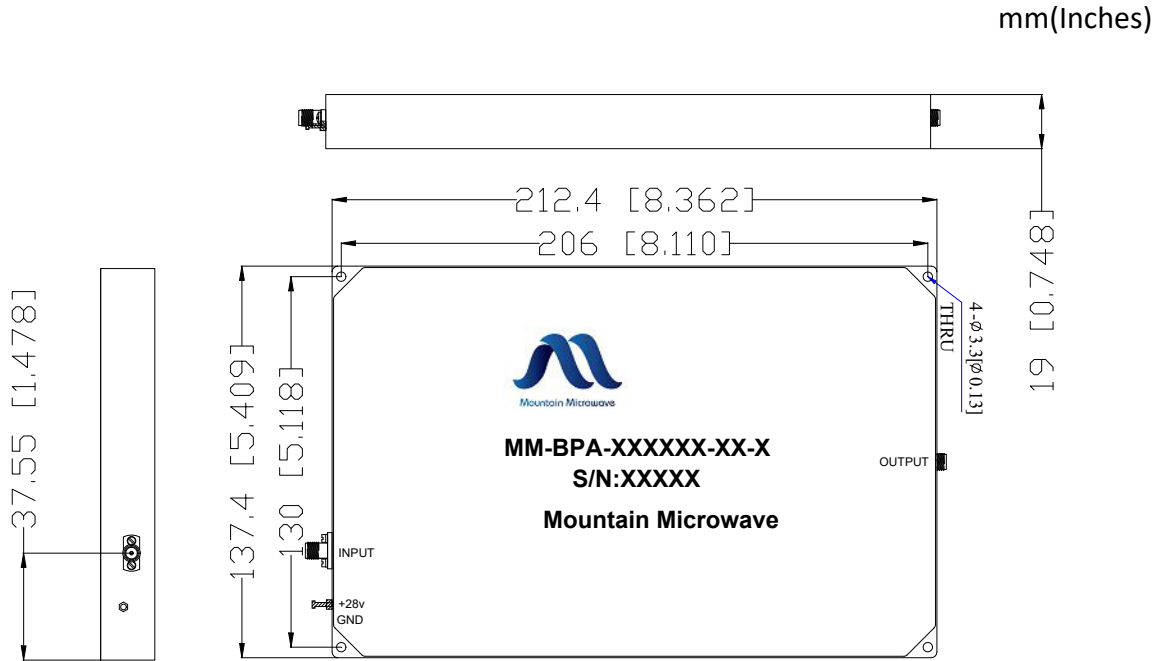
Focus on the future

Broadband Power Amplifier

MM-BPA-045050-50-46

4.5-5.0 GHz, 50 W

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.

ver 1.0 0618