Mountain Microwave

Focus on the future

Broadband Power Amplifier

MM-BPA-020060-59-50

2-6 GHz,100W

General Description:

MM-BPA-020060-59-50 is a broadband Power amplifier with a typical small signal gain of 59 dB, a nominal Psat of +50 dBm across the frequency range of 2 to 6 GHz. The DC power requirement for the amplifier is +28 VDC/6 A.

Features:

- Ultra Wide Band: 2.0-6.0 GHz
- Output Psat: 50 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	2		6	GHz
Gain	55	59		dB
Gain Flatness		±2.0	±3.0	dB
Output P1dB	45	47		dBm
Output Psat	49	50		dBm
Harmonic Rejection		13		dB
Input VSWR		1.5	2.5	:1
DC Voltage		+28		V
DC Current		6	8	A

Absolute Maximum Ratings:

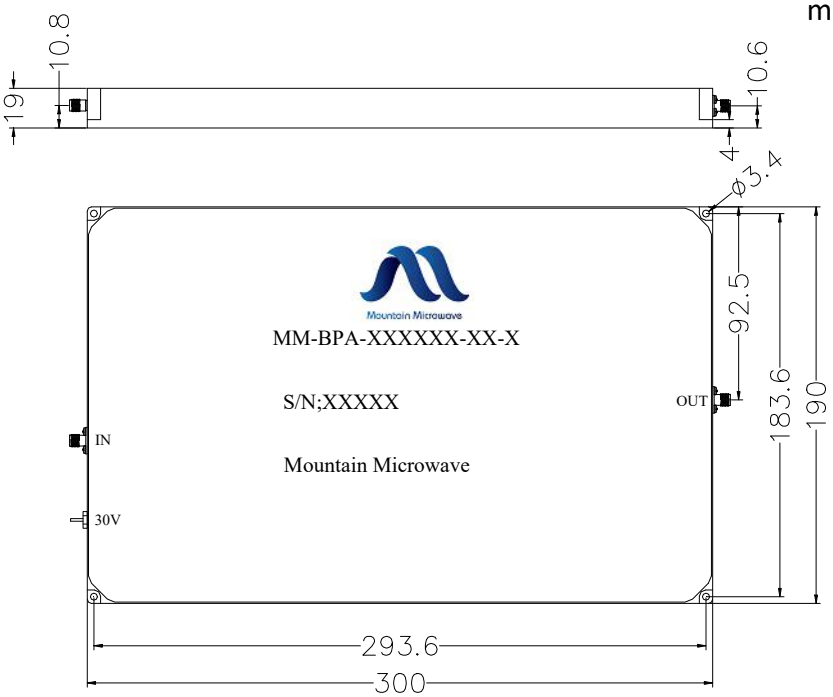
Condition	Value
DC Voltage	+30V
Maximum Input Power(CW)	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Mechanical Specifications:

Parameter	Value
Length	300 mm
Width	190 mm
Height	19 mm
RF Connector	SMA Female

Outline Drawing:

mm(Inches)



Environmental Conditions:

Parameter	Standard	Description
Operational Temperature		-45℃~+85℃
Storage Temperature		-55℃~+125℃
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℃
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.

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