

#### Focus on the future

# **Broadband Power Amplifier**

MM-BPA-170430-35-25 17.0-43.0 GHz, 25dBm

#### **General Description:**

MM-BPA-170430-35-25 is a broadband Power amplifier with a typical small signal gain of 35 dB, a nominal Psat of +25 dBm across the frequency range of 17.0 to 43.0 GHz. The DC power requirement for the amplifier is +12 VDC/0.5 A.

#### **Features:**

• Ultra Wide Band: 17.0-43.0GHz

Output Psat: 25 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	17.0		43.0	GHz
Gain	30	35		dB
Gain Flatness		±2.5		dB
Output P1dB	23	24		dBm
Output Psat		25		dBm
Noise Figure		5.5		dB
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage		+12		V
DC Current		0.5	0.7	А

## **Absolute Maximum Ratings:**

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

### **Mechanical Specifications:**

Parameter	Value	
Length	40 mm	
Width	35 mm	
Height	12 mm	
RF Connector	2.92mm Female	

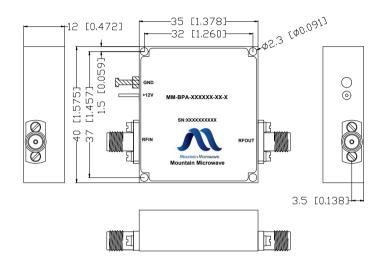


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## **Outline Drawing:**

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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