



General Description:

MM-BPA-060180-47-47 is a broadband Power amplifier with a typical small signal gain of 47 dB, a nominal Psat of +47 dBm across the frequency range of 6 to 18.0 GHz. The AC power requirement for the amplifier is +220 VAC

Features:

- Ultra Wide Band: 6.0-18.0GHz
- 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	6.0		18.0	GHz
Gain	45	47		dB
Gain Flatness		±2.0		dB
Output P1dB		43		dBm
Output Psat	47			dBm
Spurious		-60		dBc
Input VSWR		2.0		:1
AC Voltage		220	240	V

Absolute Maximum Ratings:

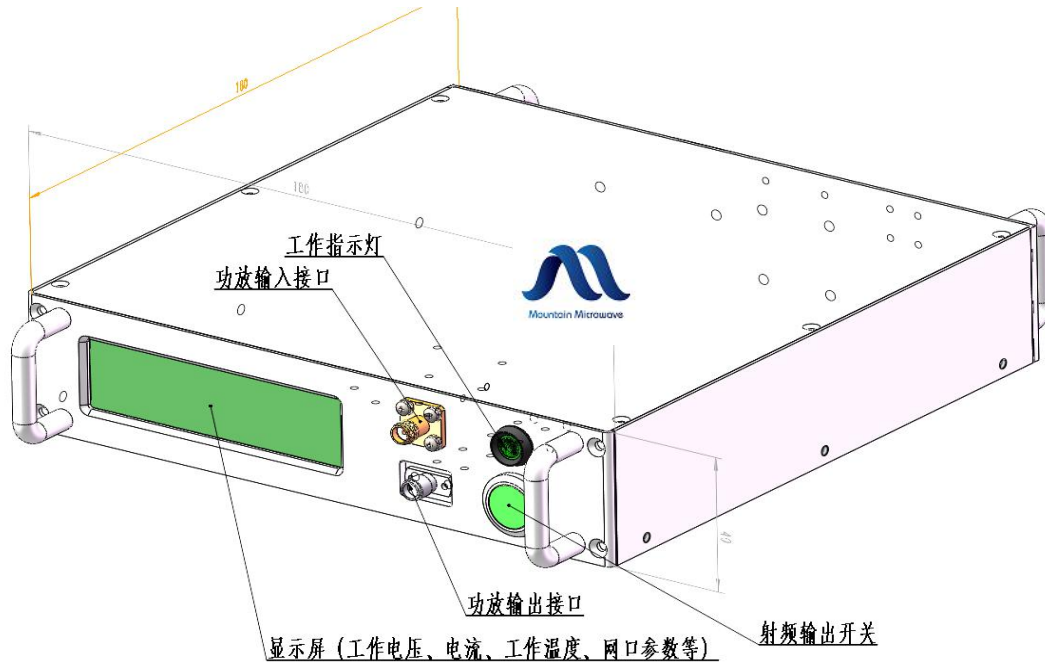
Condition	Value
Maximum Input Power(CW)	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Mechanical Specifications:

Parameter	Value
Dimension	2U*160 mm
RF Connector	SMA Female

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.