



**General Description:**

MM-MPA-076081-30-28 is a Waveguide Power Amplifier that operates over the frequency range of 76 to 81 GHz. This model provides a typical gain of 30 dB . It provides a Psat of 28 dB typical and operates on +17 VDC with a typical current draw of 650 mA.

**Features:**

- Ultra Wide Band: 76-81 GHz
- Gain: 30 dB
- Psat: 28 dB
- Internally regulated
- Unconditionally stable

**Applications:**

- Radar Systems
- Communication Systems
- Receivers Systems

**Electrical Specifications (23° C):**

Parameter	Value			Units
	Min	Typ	Max	
Frequency Range	76		81	GHz
Gain	29	30		dB
	28	30		dB
Gain Flatness		-		dB
Psat	27	28		dBm
Output Power (P1dB)		-		dBm
Input VSWR	8.0	10		:1
Output VSWR	8.0	10		:1
DC Voltage		+17	+18	V
DC Current		650		mA

**Absolute Maximum Ratings:**

Condition	Value
DC Voltage	+17 V
Maximum Input Power(CW)	TBD
ESD sensitivity (HBm)	Class 0, passed 150V

**Mechanical Specifications:**

Parameter	Value
Length	54 mm
Width	68 mm
Height	60 mm
RF Connector	WR12/UG-387



Mountain Microwave

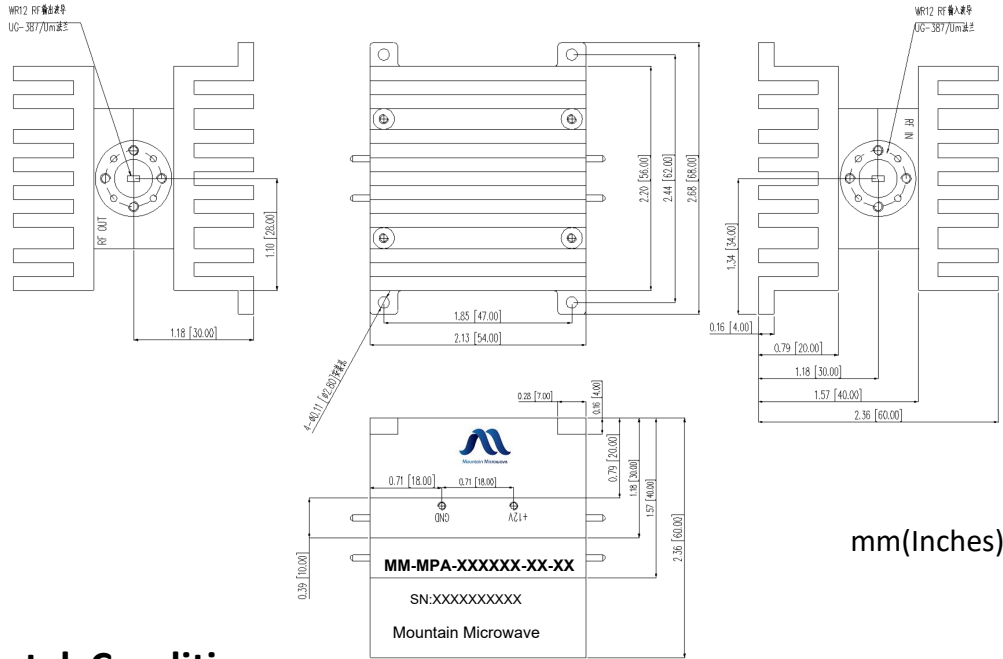
Focus on the future

Waveguide Power Amplifier

MM-MPA-076081-30-28

76 to 81 GHz

Outline Drawing:



mm(Inches)

Environmental Conditions:

Parameter	Standard	Description
Operational Temperature		-25°C~+65°C
Storage Temperature		-45°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 2.0 0318