



General Description:

MM-MPA-090100-20-22 is a Waveguide Power Amplifier that operates over the frequency range of 90 to 100 GHz. This model provides a typical gain of 20 dB . It provides a Psat of 22 dB typical and operates on +4.5 VDC with a typical current draw of 800 mA.

Features:

- Ultra Wide Band: 90-100 GHz
- Gain: 20 dB
- Psat: 22 dB
- Internally regulated
- Unconditionally stable

Applications:

- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications (23° C):

Parameter	Value			Units
	Min	Typ	Max	
Frequency Range	90		100	GHz
Gain	20	25		dB
Gain Flatness		-		dB
Psat	20	22		dBm
Output Power (P1dB)		-		dBm
Input VSWR		2.5		:1
Output VSWR		-		:1
DC Voltage		+4.5		V
DC Current		800		mA

Absolute Maximum Ratings:

Condition	Value
DC Voltage	+4.5 V
Maximum Input Power(CW)	TBD
ESD sensitivity (HBm)	Class 0, passed 150V

Mechanical Specifications:

Parameter	Value
Length	54 mm
Width	64 mm
Height	48 mm
RF Connector	WR12/UG-387



Mountain Microwave

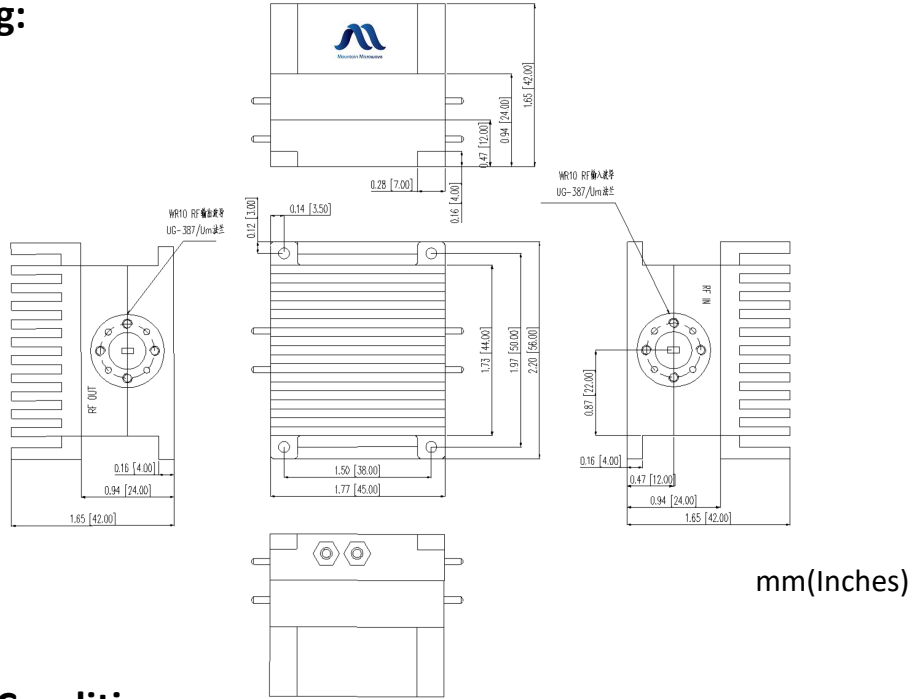
Focus on the future

Waveguide Power Amplifier

MM-MPA-090100-20-22

90 to 100 GHz

Outline Drawing:



mm(Inches)

Environmental Conditions:

Parameter	Standard	Description
Operational Temperature		-10°C~+50°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