

Waveguide Power Amplifier

MM-MPA-075110-18-20 75 to 110 GHz

General Description:

MM-MPA-075110-18-20 is a Waveguide Power Amplifier that operates over the frequency range of 75 to 110 GHz. This model provides a typical gain of 18 dB. It provides a Psat of 20 dB typical and operates on +12 VDC witha typical current draw of 350 mA.

Features:

Ultra Wide Band: 75-110 GHz

Gain: 18 dBPsat: 20 dB

Internally regulated

Unconditionally stable

Applications:

- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications (23° C):

Parameter	Value			l locitor
	Min	Тур	Max	Units
Frequency Range	75		110	GHz
Gain		18		dB
Gain Flatness		-		dB
Psat	17	20		dBm
Output Power (P1dB)		-		dBm
Input VSWR		3.0		:1
Output VSWR		3.0		:1
RF Input Power		-		dBm
DC Voltage		+12		V
DC Current		350		mA

Absolute Maximum Ratings:

Condition	Value	
DC Voltage	+12 V	
Maximum Input Power(CW)	TBD	
ESD sensitivity (HBm)	Class 0, passed 150V	

Mechanical Specifications:

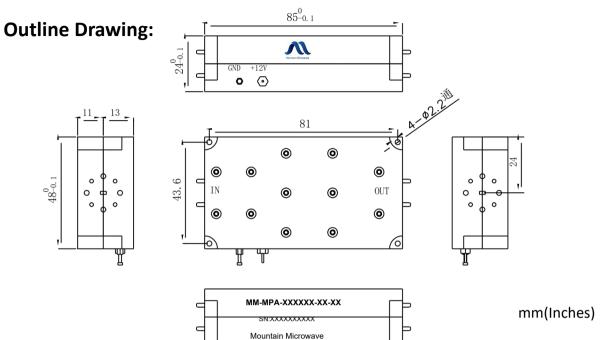
Parameter	Value	
Length	85 mm	
Width	43.6 mm	
Height	24 mm	
RF Connector	WR10/UG-387	



Focus on the future

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Mountain Microwave



Environmental Conditions:

Parameter	Standard	Description	
Operational Temperature		0°C~+50°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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