

# **Waveguide Power Amplifier**

MM-MPA-050075-16-16 50 to 75 GHz

#### **General Description:**

MM-MPA-050075-16-16 is a Waveguide Power Amplifier that operates over the frequency range of 50 to 75 GHz. This model provides a typical gain of 16 dB. It provides a Psat of 16 dB typical and operates on +5 VDC withat ypical current draw of 150 mA.

#### **Features:**

Ultra Wide Band: 50-75 GHz

Gain: 16 dBPsat: 16 dB

Internally regulatedUnconditionally stable

#### **Applications:**

- Radar Systems
- Communication Systems
- Receivers Systems

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

Parameter	Value			Heite
	Min	Тур	Max	Units
Frequency Range	50		75	GHz
Gain		16		dB
Gain Flatness		-		dB
Psat		16		dBm
Output Power (P1dB)		-		dBm
Input VSWR		2.0		:1
Output VSWR		2.0		:1
RF Input Power		-		dBm
DC Voltage		+5		V
DC Current		150		mA

### **Absolute Maximum Ratings:**

Condition	Value	
DC Voltage	+5 V	
Maximum Input Power(CW)	TBD	
ESD sensitivity (HBm)	Class 0, passed 150V	

### **Mechanical Specifications:**

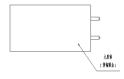
Parameter	Value	
Length	42 mm	
Width	30 mm	
Height	24 mm	
RF Connector	WR15/UG-385	

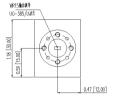
# **Focus on the future Waveguide Power Amplifier**

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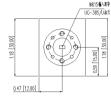
## Mountain Microwave

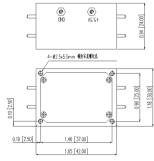
#### **Outline Drawing:**











mm(Inches)

#### **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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