Mountain Microwave

Focus on the future

Waveguide Power Amplifier

MM-MPA-050060-30-25

50 to 60 GHz

General Description:

MM-MPA-050060-30-25 is a Waveguide Power Amplifier that operates over the frequency range of 50 to 60 GHz. This model provides a typical gain of 30 dB . It provides a Psat of 25 dB typical and operates on +16 VDC witha typical current draw of 500 mA.

Features:

- Ultra Wide Band: 50-60 GHz
- Gain: 30 dB
- Psat: 25 dB
- Internally regulated
- Unconditionally stable

Applications:

- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications (23° C):

Parameter	Value			Units
	Min	Typ	Max	
Frequency Range	50		60	GHz
Gain	25	30		dB
Gain Flatness		-		dB
Psat	23	25		dBm
Output Power (P1dB)		-		dBm
Input VSWR		2.0		:1
Output VSWR		2.0		:1
RF Input Power		-		dBm
DC Voltage		+16		V
DC Current		500		mA

Absolute Maximum Ratings:

Condition	Value
DC Voltage	+16 V
Maximum Input Power(CW)	TBD
ESD sensitivity (HBm)	Class 0, passed 150V

Mechanical Specifications:

Parameter	Value
Length	54 mm
Width	70 mm
Height	64 mm
RF Connector	WR15/UG-385

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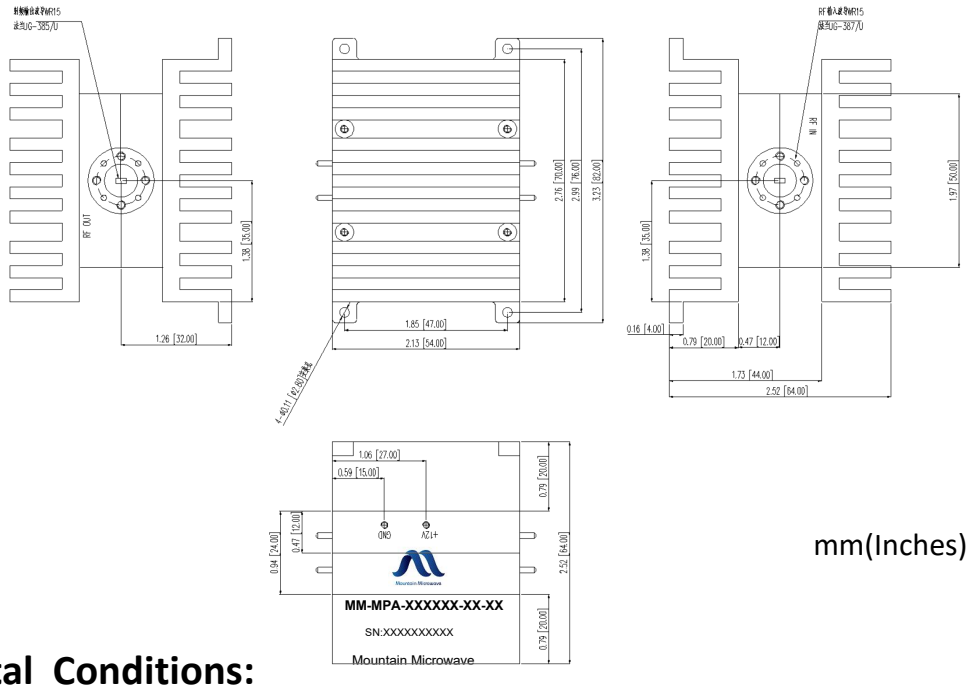
Outline Drawing:



mm(Inches)

Environmental Conditions:

Parameter	Standard	Description
Operational Temperature		-10℃~+65℃
Storage Temperature		-55℃~+125℃
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℃
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.

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