



General Description:

MM-MPA-081086-15-30 is a Waveguide Power Amplifier that operates over the frequency range of 81 to 86 GHz. This model provides a typical gain of 15 dB . It provides a Psat of 30 dB typical and operates on +18 VDC with a typical current draw of 1600 mA.

Features:

- Ultra Wide Band: 81-86 GHz
- Gain: 15 dB
- Psat: 30 dB
- Internally regulated
- Unconditionally stable

Applications:

- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications (23° C):

Parameter	Value			Units
	Min	Typ	Max	
Frequency Range	81		86	GHz
Gain		15		dB
Gain Flatness		-		dB
Psat		30		dBm
Output Power (P1dB)		-		dBm
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage	16-18			V
DC Current		1600		mA

Absolute Maximum Ratings:

Condition	Value
DC Voltage	+18 V
Maximum Input Power(CW)	TBD
ESD sensitivity (HBm)	Class 0, passed 150V

Mechanical Specifications:

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



Mountain Microwave

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Waveguide Power Amplifier

MM-MPA-081086-15-30

81 to 86 GHz

Outline Drawing:

mm(Inches)

Environmental Conditions:

Parameter	Standard	Description
Operational Temperature		-10°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.

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