



Power Amplifier

Model: PA-5M-500M-2

5-500MHz 2W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 5-500MHz
- Input 1 dB Gain Compression Point, 2W Min.
- High gain, 33 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-5M-500M-2 is a power amplifier with a typical gain of 33 dB and a minimum P1dB of 2W across the frequency range of 5 to 500MHz. The DC power requirement for the amplifier is +24 VDC/0.9 A. The input and output port configuration offers coax adapter structure with SMA female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	5		500	MHz
Gain	30	33		dB
Gain Flatness		±0.5	±1	dB
Output P1dB	33	34		dBm
Output IP3		38		dBm
Noise Figure		7		dB
Input VSWR		1.5	2	:1
Output VSWR		1.5	2	:1
DC Voltage		+24	+28	V DC
DC Supply Current		0.9	1.5	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-40°C to +60°C	
Non-operating Temperature*	-50°C to +70°C	
Relative humidity	95%	
RF Input/Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Altitude	10,000	feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth	
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions	
Dimensions W x H x D	110*144*45	mm
Weight	400	g

*Note: For a wider temperature range, please consult the manufacturer.

Absolute Maximum Ratings:

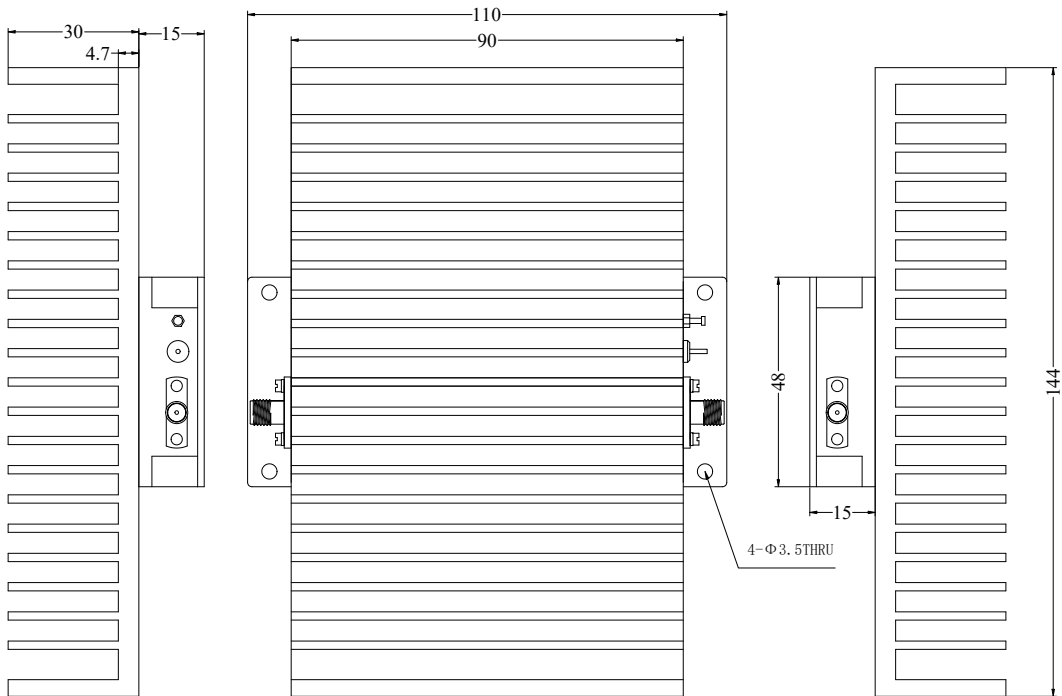
Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-5M-500M-2



Ordering Information:

Base Number	Description	Optional
PA-5M-500M-2	Power Amplifier, 5-500MHz, Gain:33dB,P1dB:2W,+24V DC	Without Heatsink
PA-5M-500M-2-HS	Power Amplifier, 5-500MHz, Gain:33dB,P1dB:2W,+24V DC	With Heatsink