



Power Amplifier

Model: PA-50M-500M-63

50-500MHz 63W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 50-500MHz
- High output power at saturation, 63W Typ.
- High gain, 50 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-50M-500M-63 is a power amplifier with a typical gain of 50 dB and a nominal Psat of 63W across the frequency range of 50 to 500 MHz. The DC power requirement for the amplifier is +24 VDC/10 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	50		500	MHz
Gain	47	50		dB
Gain Flatness		±1	±2	dB
Output P1dB	44	46		dBm
Output Psat	46	48		dBm
Noise Figure		4.5	7	dB
Input VSWR		1.5	2.0	:1
DC Voltage		+24		V DC
DC Supply Current		10		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-20°C to +50°C	
Non-operating Temperature*	-30°C to +60°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)	25g rms (15 degree 2KHz) endurance, 1 hour per axis	
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions	
Dimensions W x H x D	152.4*82.6*28.6(Without heatsink) 264*140*90.6(With heatsink)	mm
Weight	500	g

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

Absolute Maximum Ratings:

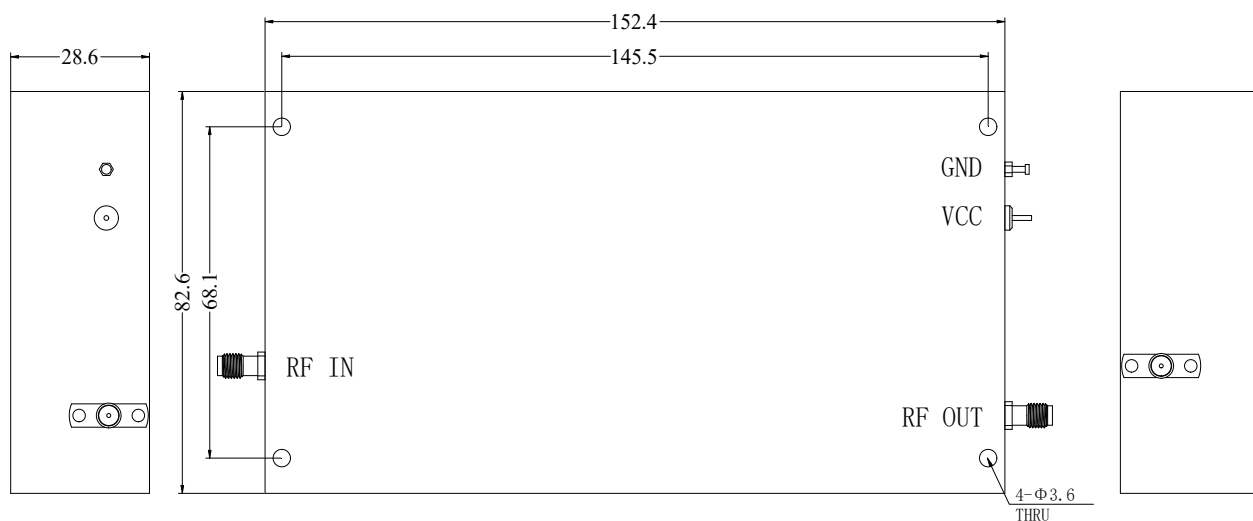
Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	+3 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



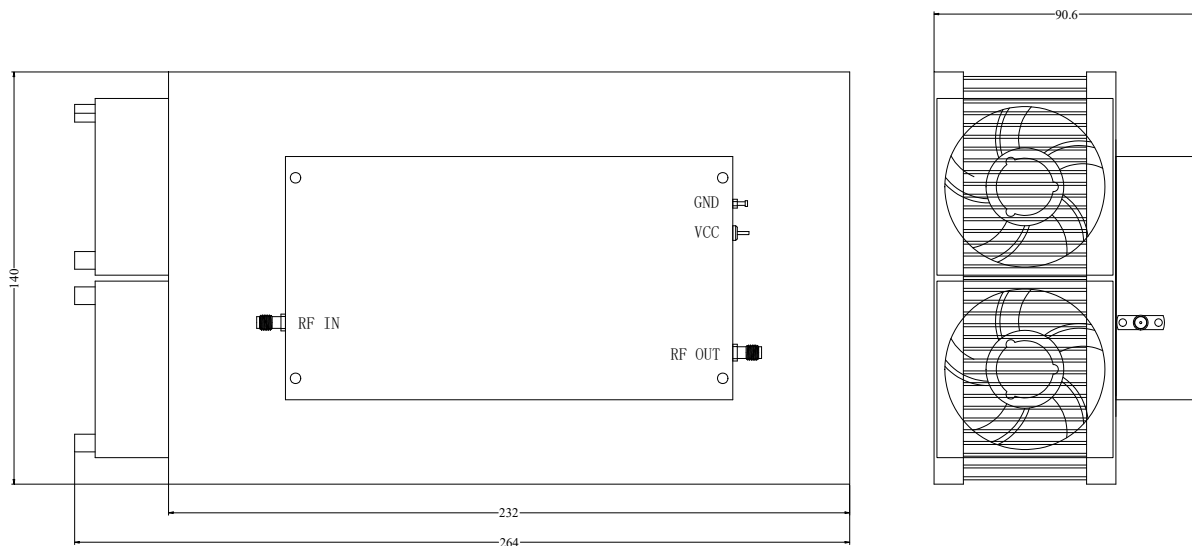
Outline Drawing:

Unit:mm

PA-50M-500M-63



PA-50M-500M-63-HS





Ordering Information:

Base Number	Description	Optional
PA-50M-500M-63	Power Amplifier, 50-500MHz, Gain:50dB,Psat:63W,+24V DC	Without Heatsink
PA-50M-500M-63-HS	Power Amplifier, 50-500MHz, Gain:50dB,Psat:63W,+24V DC	With Heatsink