



Power Amplifier

Model: PA-0M1-200M-25

0.1-200MHz 25W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 0.1-200MHz
- High output power at saturation, 25W Typ.
- High gain, 43 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-0M1-200M-25 is a power amplifier with a typical power gain of 43 dB and a nominal Psat of 25W across the frequency range of 0.1 to 200MHz. The DC power requirement for the amplifier is +24 VDC/6 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	0.1		200	GHz
Gain	40	43		dB
Gain Flatness		±1.3	±1.6	dB
Output P1dB	42	43		dBm
Output Psat	43	44		dBm
Noise Figure		9		dB
Input VSWR			2	:1
DC Voltage		+24	+25	V DC
DC Supply Current		6		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-40°C to +50°C	
Non-operating Temperature*	-50°C to +60°C	
Relative humidity	95%	
RF Input/Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Altitude	30,000	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	154*94*20(Without Heatsink) 264*140*82(With Heatsink)	mm
Weight	150	g

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

Absolute Maximum Ratings:

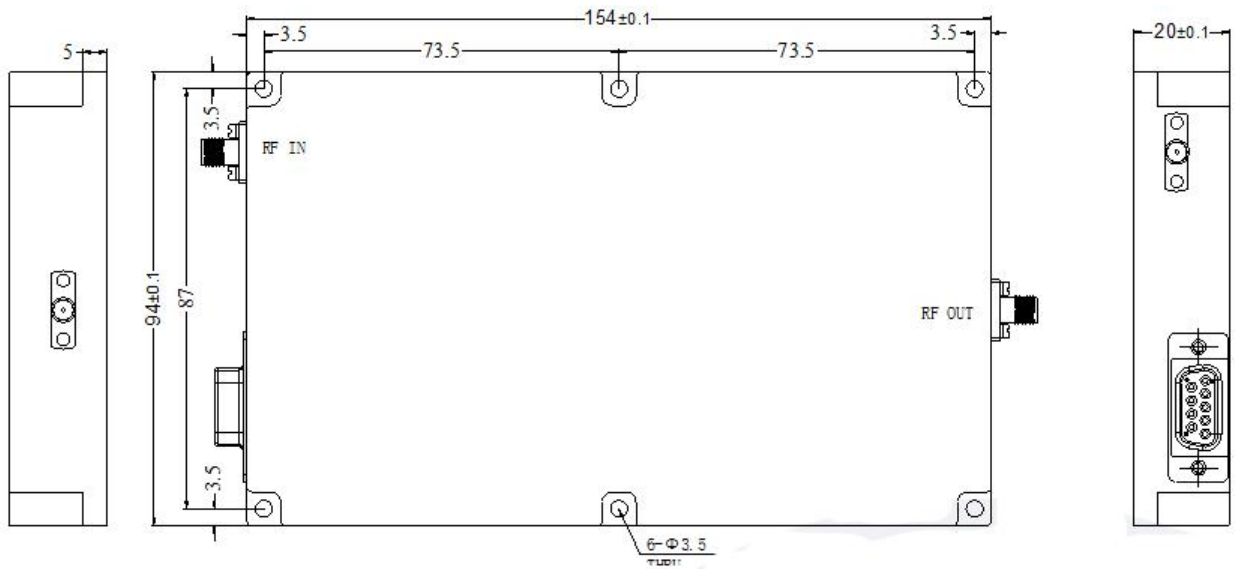
Parameter	Value
Supply Bias Voltage	+25 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



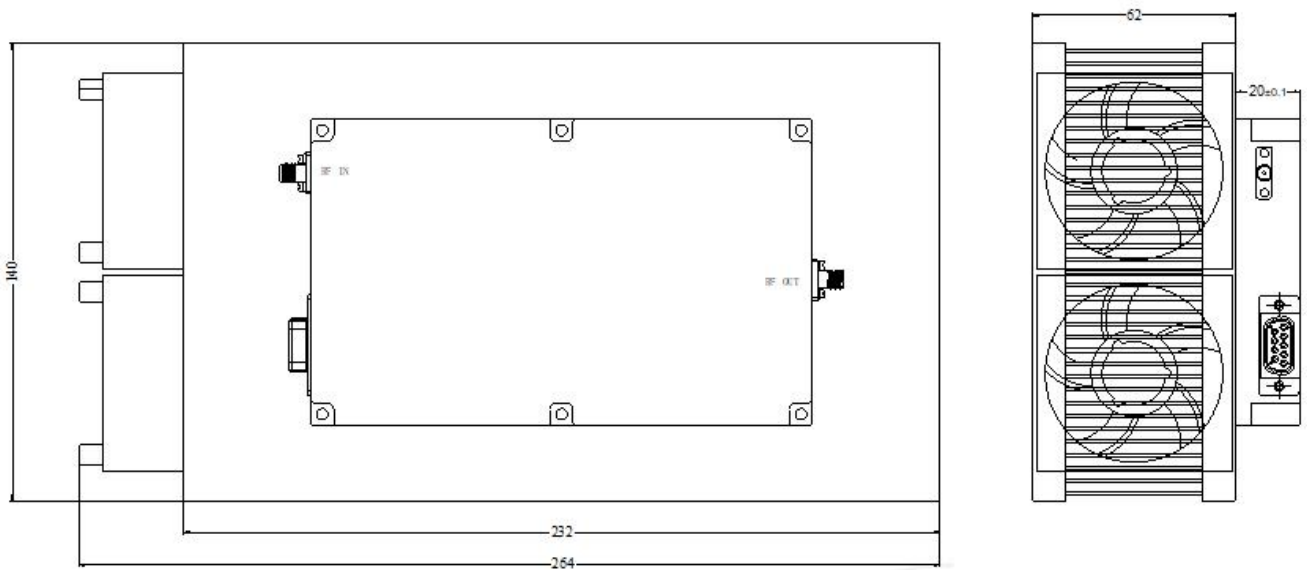
Outline Drawing:

Unit:mm

PA-0M1-200M-25



PA-0M1-200M-25-HS



Ordering Information:

Base Number	Description	Optional
PA-0M1-200M-25	Power Amplifier, 0.1-200MHz, Gain:43dB,Psat:25W,+24V DC	Without Heatsink
PA-0M1-200M-25-HS	Power Amplifier, 0.1-200MHz, Gain:43dB,Psat:25W,+24V DC	With Heatsink