



Power Amplifier

Model: PA-4G-8G-25

4-8GHz 25W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 4-8GHz
- High output power at saturation, 25W Typ.
- High gain, 50 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-4G-8G-25 is a power amplifier with a minimum gain of 50 dB and a nominal Psat of 25W across the frequency range of 4 to 8GHz. The DC power requirement for the amplifier is +28 VDC/2 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	4		8	GHz
Gain	50	52		dB
Gain Flatness		±3	±4	dB
Output P1dB	43	43.5		dBm
Output Psat	43.5	44		dBm
Input VSWR		1.5	2.0	:1
DC Voltage		+28		V DC
DC Supply Current		2	10	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	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	140*80*15	mm
Weight	200	g

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

Absolute Maximum Ratings:

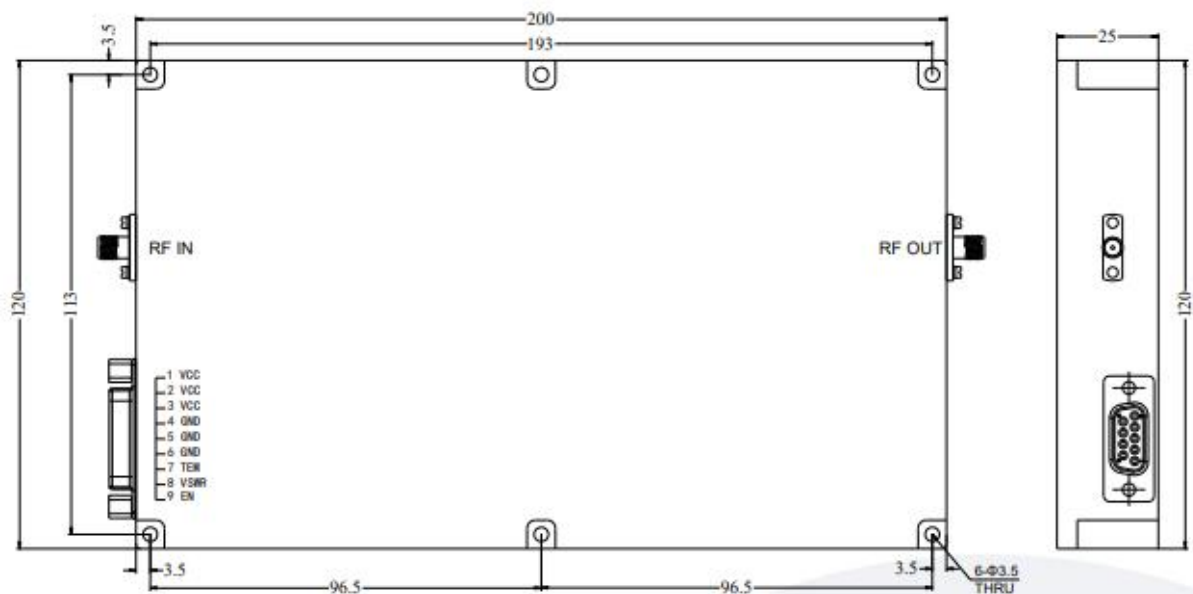
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+3 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-4G-8G-25



DC Supply Connector(J30J-9ZKP):

Pin	Name	Function
1	EN	Amplifier Enable: TTL High (5V) (Internally Pulled-High) Amplifier Disable: Short to ground
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	+28V	Power supply positive,+26.0-30.0VDC
7	+28V	Power supply positive,+26.0-30.0VDC
8	+28V	Power supply positive,+26.0-30.0VDC
9	+28V	Power supply positive,+26.0-30.0VDC



Ordering Information:

Base Number	Description	Optional
PA-4G-8G-25	Power Amplifier, 4-8GHz, Gain:50dB,Psat:25W,+28V DC	Without Heatsink
PA-4G-8G-25-HS	Power Amplifier, 4-8GHz, Gain:50dB,Psat:25W,+28V DC	With Heatsink