



Power Amplifier

Model: PA-2G2-2G3-50

2.2-2.3GHz 50W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 2.2-2.3GHz
- High output power at saturation, 50W Min.
- High gain, 40 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-2G2-2G3-50 is a power amplifier with a minimum gain of 40 dB and a minimum Psat of 50 W across the frequency range of 2.2 to 2.3 GHz. The DC power requirement for the amplifier is +28 VDC/5 A. The input port configuration offers coax adapter structure with SMA female and output port configuration offers coax adapter structure with N female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	2.2		2.3	GHz
Gain	40	43		dB
Gain Flatness		±1	±1.5	dB
Output P1dB	44	45		dBm
Output Psat	47	47.5		dBm
Input VSWR		1.5	2	:1
DC Voltage	26	28	30	V DC
Static Current		1		A
Saturation Current		5	6	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/N Female	
DC Bias	PHD2.0-2x3P	
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	135*50*20	mm
Weight	300	g

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

Absolute Maximum Ratings:

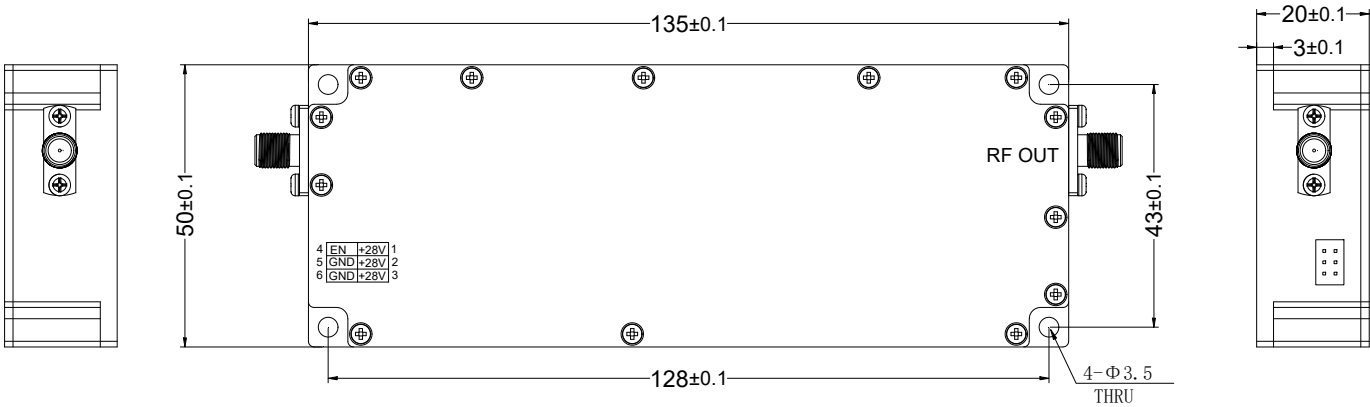
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



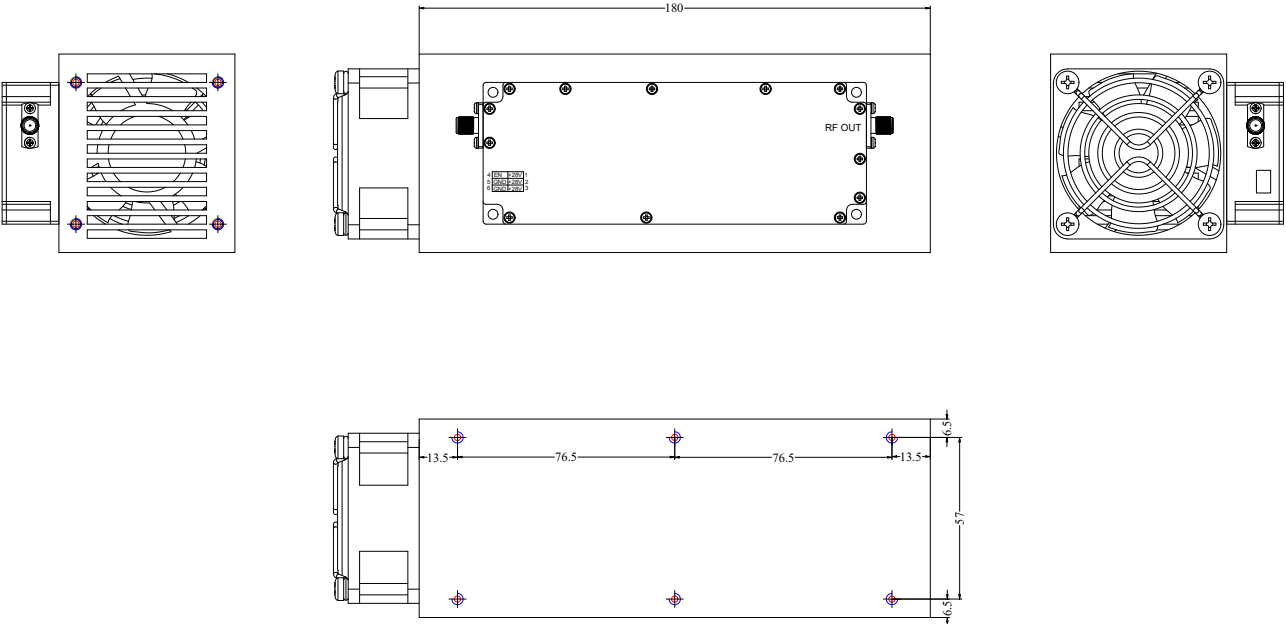
Outline Drawing:

Unit:mm

PA-2G2-2G3-50



PA-2G2-2G3-50-HS



Optional items:

Fan power supply	
Red line	Power supply positive, +24.0-28.0VDC DC current: 0.2A
Black line	Ground



Ordering Information:

Base Number	Description	Optional
PA-2G2-2G3-50	Power Amplifier, 2.2-2.3GHz, Gain:40dB,Psat:50W,+28V DC	Without Heatsink
PA-2G2-2G3-50-HS	Power Amplifier, 2.2-2.3GHz, Gain:40dB,Psat:50W,+28V DC	With Heatsink