



# Power Amplifier

## Model: PA-0G4-2G5-100

0.4-2.5GHz 100W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 0.4-2.5GHz
- High output power at saturation, 100W Typ.
- High gain, 50 dB Min.
- 50 Ohm Matched Input / Output.

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

### Product Overview:

The PA-0G4-2G5-100 is a power amplifier with a minimum gain of 50 dB and a nominal Psat of 100W across the frequency range of 0.4 to 2.5 GHz. The DC power requirement for the amplifier is +28 VDC/12 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	0.4		2.5	GHz
Gain	50	52		dB
Gain Flatness		±1.8	±2.5	dB
Output Psat		100		W
Noise Figure			10	dB
Spurious			-60	dBc
Harmonics@Pout=100W		-20		dBc
Input VSWR		1.5	2.0	:1
DC Voltage	+26	+28	+30	V DC
DC Supply Current		12	15	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	D-SUB 9-Pin, Male	
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	208.3*91.4*26.9	mm
Weight	1000	g

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

## Absolute Maximum Ratings:

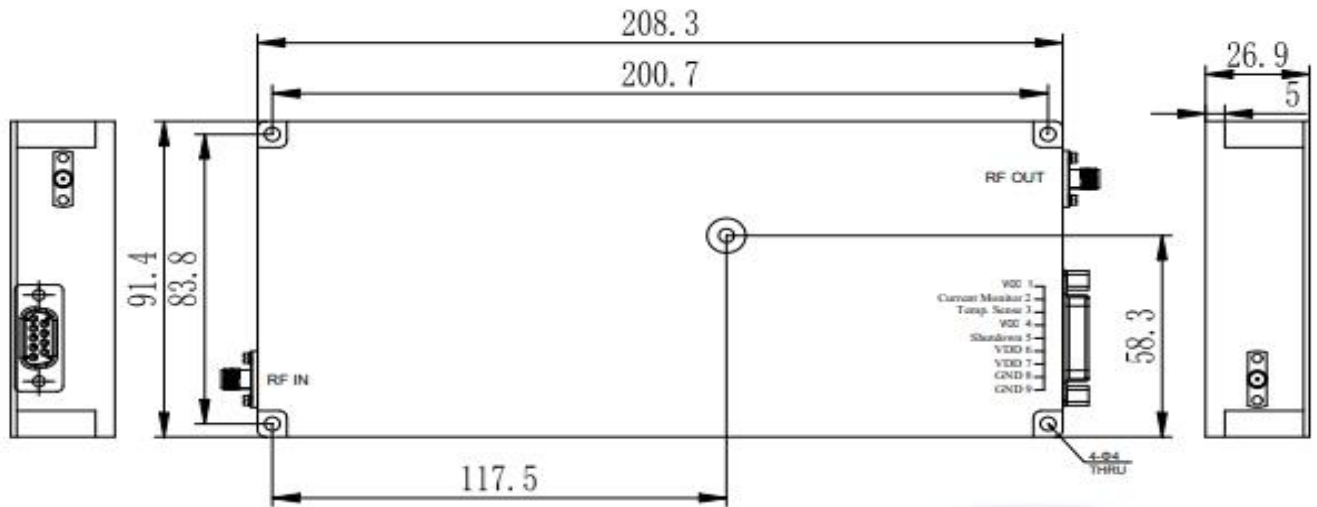
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



## Outline Drawing:

Unit:mm

PA-0G4-2G5-100



## DC Supply Connector(DSUB-9 Female):

Pin	Name	Function
1	+28V	Power supply positive,+26.0-30.0VDC
2	NC	Not connected
3	NC	Not connected
4	GND	Power supply negative
5	EN	Amplifier Enable: The amplifier is turned on at high level (or floating) and off when shorted to ground.
6	+28V	Power supply positive,+26.0-30.0VDC
7	+28V	Power supply positive,+26.0-30.0VDC
8	GND	Power supply negative
9	GND	Power supply negative



## Ordering Information:

Base Number	Description	Optional
PA-0G4-2G5-100	Power Amplifier, 0.4-2.5GHz, Gain:50dB,Psat:100W,+28V DC	Without Heatsink
PA-0G4-2G5-100-HS	Power Amplifier, 0.4-2.5GHz, Gain:50dB,Psat:100W,+28V DC	With Heatsink