



# Power Amplifier

## Model: PA-2G-8G-100

2-8GHz 100W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 2-8GHz
- High output power at saturation, 100W Min.
- High gain, 50 dB Min.
- 50 Ohm Matched Input / Output.

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

### Product Overview:

The PA-2G-8G-100 is a power amplifier with a minimum power gain of 50 dB and a minimum Psat of 100W across the frequency range of 2 to 8 GHz. The DC power requirement for the amplifier is +28 VDC/1350 W. 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		8	GHz
Power Gain	50			dB
Gain Flatness			±2.5	dB
Gain adjust Range		31.5		dB
Gain adjust Step		0.5		dB
Output Psat	50			dBm
Spurious@Pout=50dBm			-60	dBc
Harmonic@Pout=50dBm		-15	-10	dBc
Input VSWR			2	:1
Output VSWR			2.5	:1
DC Voltage		+28	+29	V DC
Power Consumption@Pout=50dBm			1350	W
Power Consumption@Psat			1700	W
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	DSUB-5W5	Pin1~2: +28V Pin3~5: GND
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	364*330*97.5	mm
Weight	≤12	Kg

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



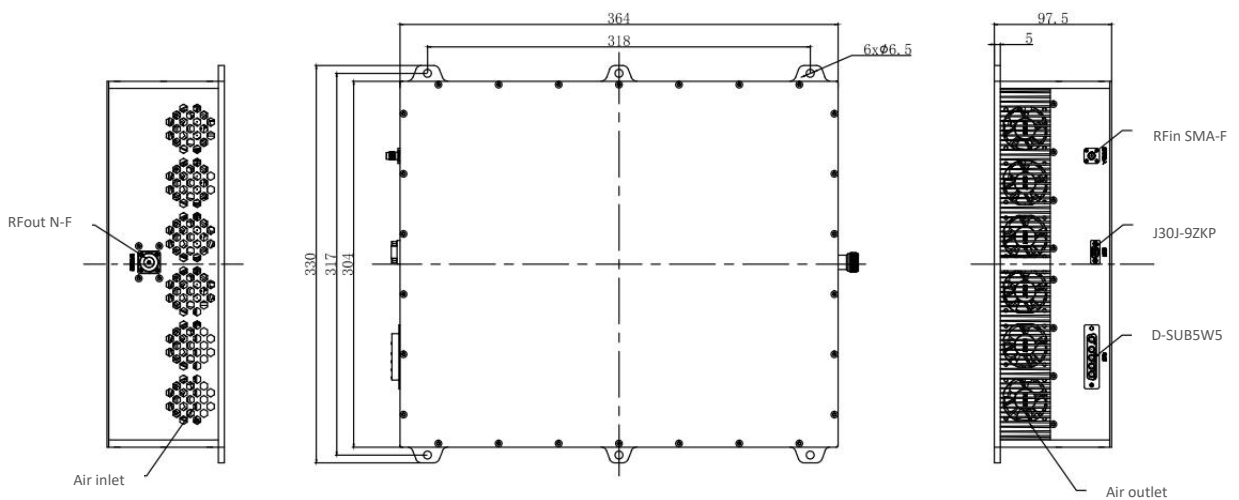
## Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+29 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

## Outline Drawing:

Unit:mm

PA-2G-8G-100-HS



## Key Features:

Parameter	Advantages
Control functions	1, Power setting on/off 2, Gain control
Cooling system	Built in Cooling system, forced air cooling

## Ordering Information:

Base Number	Description	Optional
PA-2G-8G-100	Power Amplifier, 2-8GHz, Gain:50dB,Psat:100W,+28V DC	With Heatsink