



Power Amplifier

Model: PA-4G-8G-200

4-8GHz 200W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 4-8GHz
- High output power at saturation, 200W Min.
- High gain, 53 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-4G-8G-200 is a power amplifier with a minimum power gain of 53 dB and a minimum Psat of 200W across the frequency range of 4 to 8GHz. The DC power requirement for the amplifier is +28 VDC/1250 W. The input port configuration offers coax adapter structure with SMA female and output port configuration offers coax adapter structure with N female. And it has built-in protection functions included over TEM, over voltage, over current, and over VSWR protection.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	4		8	GHz
Power Gain@Pout=53dBm	53			dB
Output Psat	53			dBm
Gain adjust Range		31.5		dB
Gain adjust Step		0.5		dB
Gain flatness		±3.5		dB
2nd Harmonics		-15		dBc
Input VSWR			2	:1
DC Voltage		+28	+29	V DC
Power Consumption			1250	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 Supply Connector	DSUB-5W5	
Control Connector	J30J-9ZKP	
Communication Connector	RS422	
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	310*326*98	mm
Weight	≤15	Kg

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



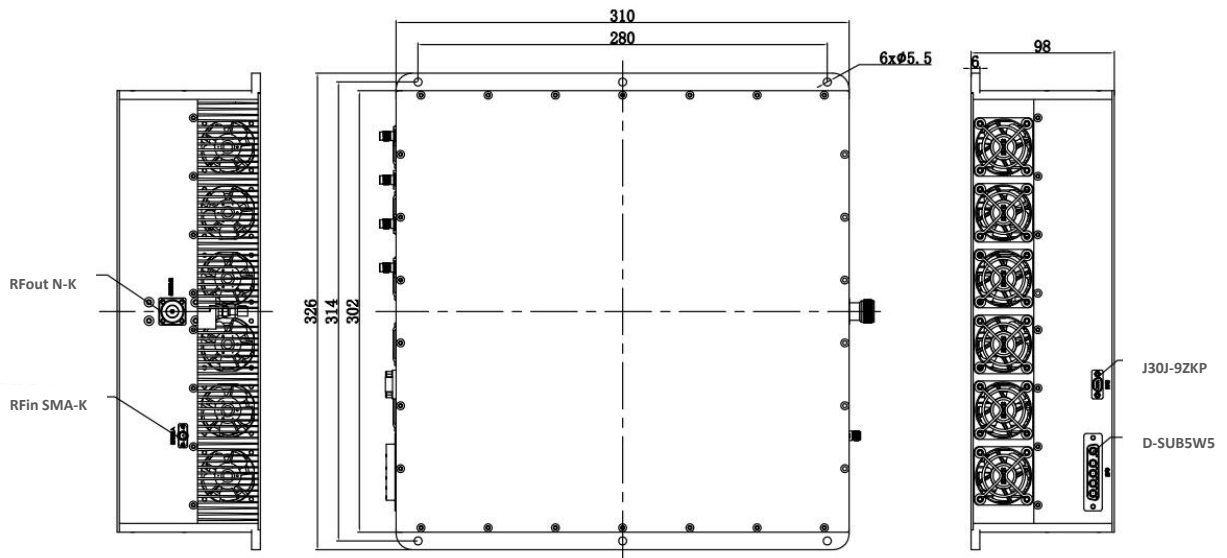
Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm

PA-4G-8G-200-HS



Key Features:

Parameter	Advantages
Control functions	1, Power setting on/off 2, RF setting on/off 3, ALC automatic level control
Monitoring functions	1, TEM 2, Operating voltage 3, Operating current 4, Output/reflected power



Key Features:

Parameter	Advantages
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR: the safe level of3:1
Remote control	RS422
Cooling system	Built in Cooling system,forced air cooling

Ordering Information:

Base Number	Description	Optional
PA-4G-8G-200-HS	Power Amplifier, 4-8GHz, Gain:53dB,Psat:200W,+28V DC	With Heatsink