



# Power Amplifier

## Model: PA-1G-6G-200-HS

1-6GHz 200W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 1-6GHz
- 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-1G-6G-200-HS is a power amplifier with a minimum power gain of 53 dB and a minimum Psat of 200W across the frequency range of 1 to 6 GHz. The DC power requirement for the amplifier is +36 VDC/1900 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	1		6	GHz
Power Gain@Pout=53dBm	53			dB
Gain Flatness		±3		dB
Gain adjust Range		31.5		dB
Gain adjust Step		0.5		dB
Output Psat	53			dBm
Spurious@Pout=53dBm			-60	dBc
2nd Harmonics @Pout=53dBm			-10	dBc
Input VSWR			2	:1
Tolerate load VSWR			3	:1
DC Voltage		+36		V DC
Power Consumption			1900	W
Impedance		50		Ohms

## Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-20°C to +40°C	
Non-operating Temperature*	-30°C to +50°C	
Relative humidity	95	%
RF Input/Output Connector	SMA Female/N Female	
Control Interface*	J30J-9ZKP	Pin1-6:0.5/1/2/4/8/16 Attenuation control bit Pin7~9:GND
DC Bias	D-SUB5W5	Pin1-2: +36V 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

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

\*Active high, inactive at low level or floating state.



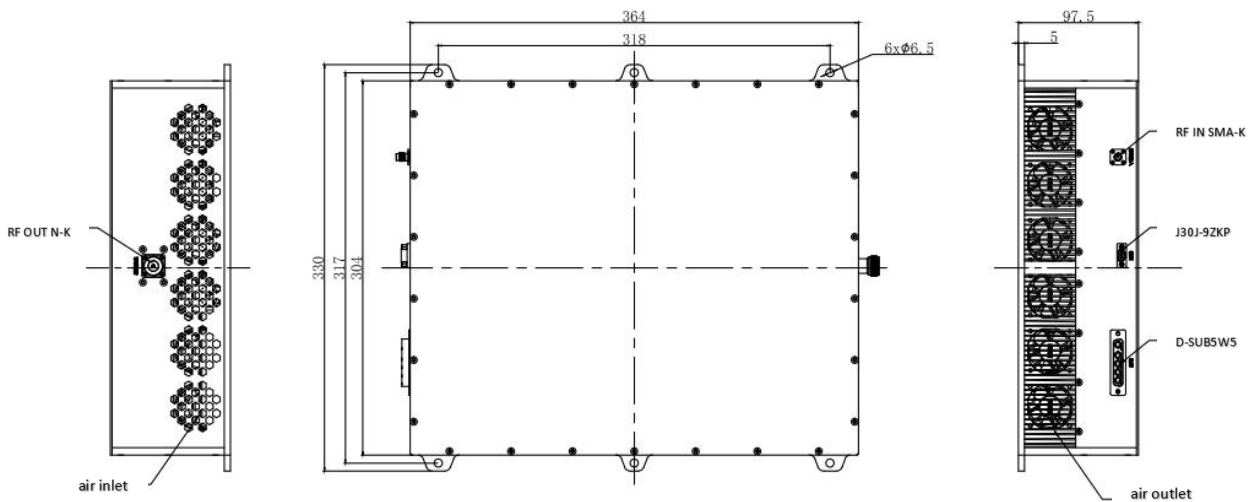
## Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+37 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

## Outline Drawing:

Unit:mm

PA-1G-6G-200-HS



## Ordering Information:

Base Number	Description	Optional
PA-1G-6G-200-HS	Power Amplifier, 1-6GHz, Gain:53dB,Psat:200W,+36V DC	With Heatsink