



Power Amplifier

Model: PA-2G-6G-50-H

2-6GHz 50W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 2-6GHz
- High output power at saturation, 50W Min.
- High gain, 47 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-2G-6G-50-H is a power amplifier with a minimum gain of 47 dB and a minimum Psat of 50W across the frequency range of 2 to 6 GHz. The DC power requirement for the amplifier is +36 VDC/12 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		6	GHz
Gain	47			dB
Gain Flatness		±3		dB
Output Psat	47			dBm
Output Psat Flatness		±1.5		dB
Spurious			-60	dBc
Harmonics		-15		dBc
Input VSWR			2.0	:1
DC Voltage		+36		V DC
DC Supply Current		12		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	J30J-21ZKP	
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	200*120*20	mm
Weight	3	Kg

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

Absolute Maximum Ratings:

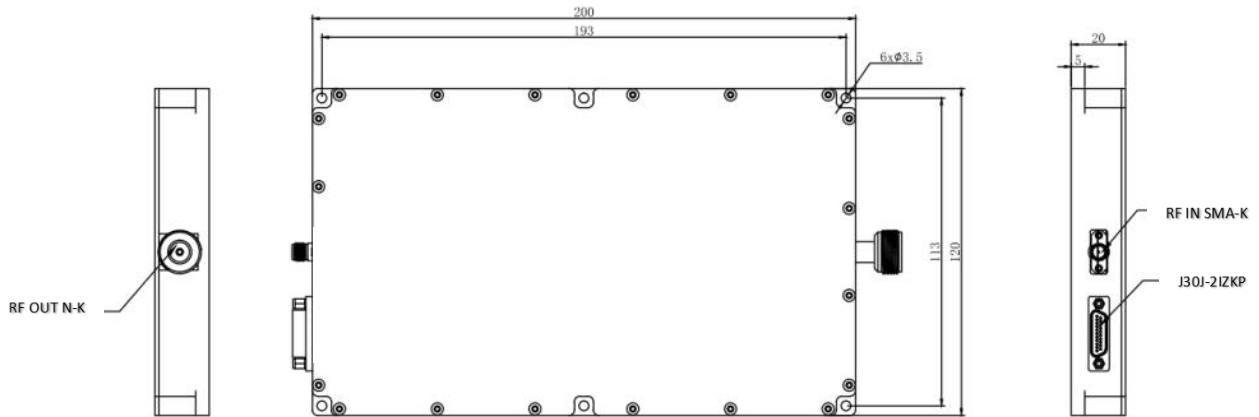
Parameter	Value
Supply Bias Voltage	+36 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-2G-6G-50-H



J30J-21ZKP:

Pin	Function
Pin1-9	+36V
Pin10-18	GND
Pin19	Current detection (analog voltage, current/voltage comparison table provided)
Pin20	Temperature detection (analog voltage, temperature/voltage comparison table available)
Pin21	Enable (high level valid, low level and hover invalid)

Ordering Information:

Base Number	Description	Optional
PA-2G-6G-50-H	Power Amplifier, 2-6GHz, Gain:47dB,Psat:50W,+36V DC	Without Heatsink
PA-2G-6G-50-H-HS	Power Amplifier, 2-6GHz, Gain:47dB,Psat:50W,+36V DC	With Heatsink