



Power Amplifier

Model: PA-2G-18G-32

2-18GHz 32W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 2-18GHz
- High output power at saturation, 32W Min.
- High gain, 40 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-2G-18G-32 is a power amplifier with a minimum power gain of 40 dB and a minimum Psat of 32W across the frequency range of 2 to 18 GHz. The DC power requirement for the amplifier is +22 VDC/16 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		18	GHz
Power Gain	40			dB
Power Gain Flatness		±3	±5	dB
Output Psat	45			dBm
Spurious@Pout=45dBm			-60	dBc
Harmonic@Pout=45dBm		-15	-10	dBc
Input VSWR			2	:1
DC Voltage		22	24	V DC
DC Supply Current		16		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-40°C to +50°C	
Non-operating Temperature*	-50°C to +60°C	
Relative humidity	95	%
RF Input/Output Connector	SMA Female/N Female	
DC Supply Connector	D-SUB-7W2	A1: +22V A2: GND 1~5: NC
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*100*69.5	mm

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

Absolute Maximum Ratings:

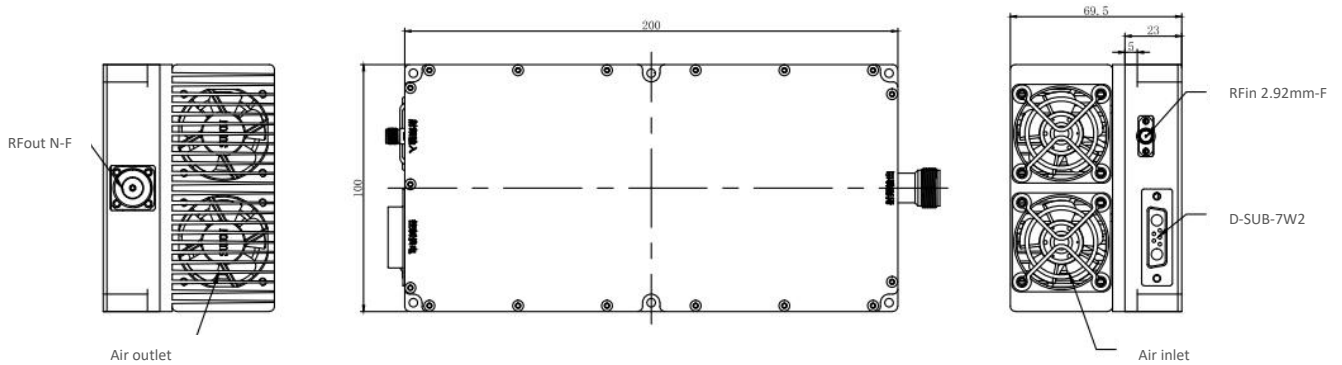
Parameter	Value
Supply Bias Voltage	+24 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-2G-18G-32



Ordering Information:

Base Number	Description	Optional
PA-2G-18G-32	Power Amplifier, 2-18GHz, Gain:40dB,Psat:32W,+22V DC	With Heatsink