



# Power Amplifier

## Model: PA-18G-40G-32

18-40GHz 32W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 18-40GHz
- 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-18G-40G-32 is a power amplifier with a minimum power gain of 40 dB and a minimum Psat of 32W across the frequency range of 18 to 40 GHz. The DC power requirement for the amplifier is +18 VDC/50 A. The input port configuration offers coax adapter structure with 2.92mm female and output port is WRD180.



## Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	18		40	GHz
Power Gain	40			dB
Power Gain Flatness		±5		dB
Output Psat	45			dBm
Spurious@Pout=45dBm			-50	dBc
Harmonic@Pout=45dBm		-20		dBc
Input VSWR			2	:1
DC Voltage		18	19	V DC
DC Supply Current		50		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	2.92mm Female/WRD180	
DC Supply Connector	D-SUB8W8	A1~A4: +18V A5~A8: 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	220*160*76.5	mm

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

## Absolute Maximum Ratings:

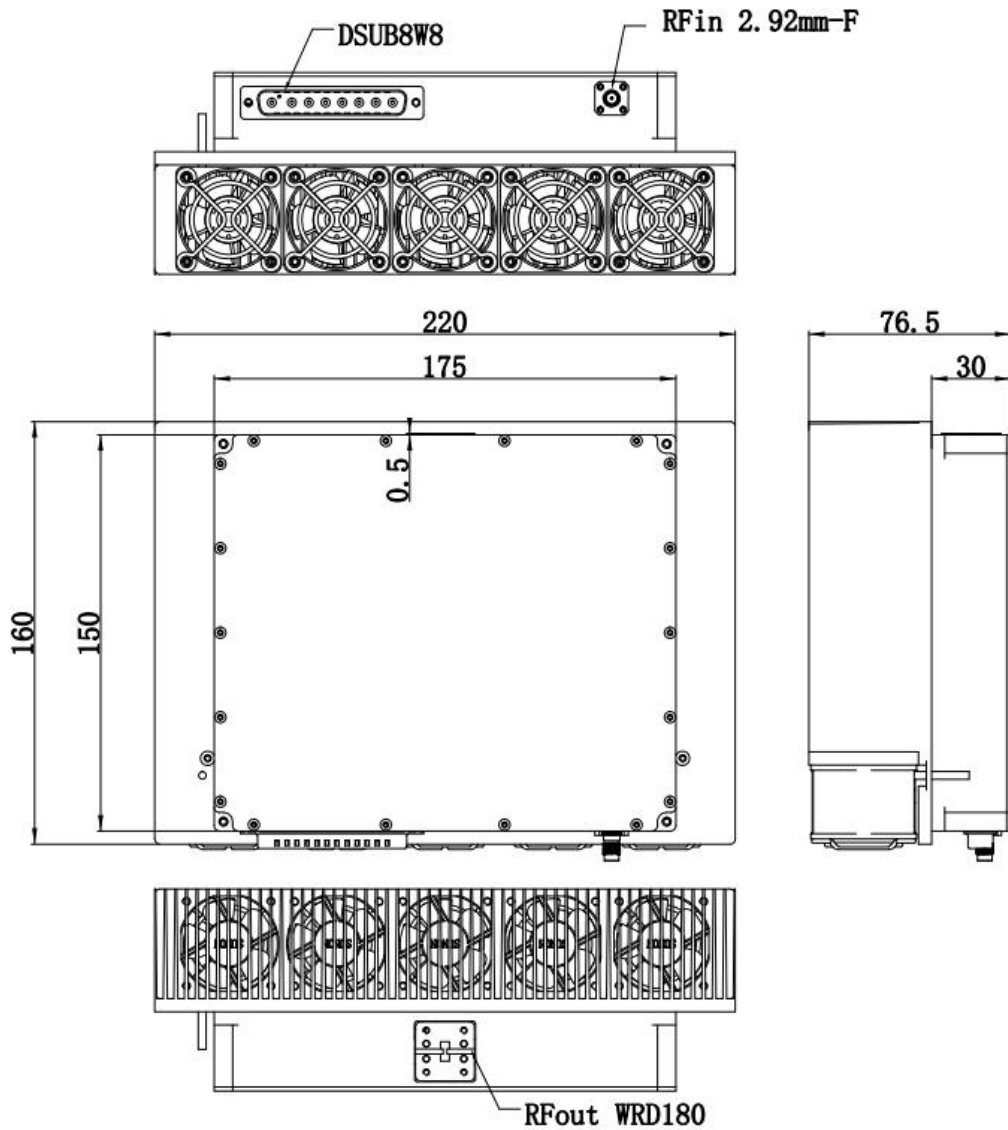
Parameter	Value
Supply Bias Voltage	+19 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



## Outline Drawing:

Unit:mm

PA-18G-40G-32



## Ordering Information:

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