



# Power Amplifier

## Model: PA-18G-40G-0.8

18-40GHz 0.8W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 18-40GHz
- High output power at saturation, 0.8W Typ.
- High gain, 32 dB Typ.
- 50 Ohm Matched Input / Output.

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

### Product Overview:

The PA-18G-40G-0.8 is a power amplifier with a typical gain of 32 dB and a nominal Psat of 0.8W across the frequency range of 18 to 40GHz. The DC power requirement for the amplifier is +12 VDC/2.2 A. The input and output port configuration offers coax adapter structure with 2.92mm female.



## Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	18		40	GHz
Gain	30	32		dB
Gain Flatness		±2.5		dB
Output P1dB	27	28		dBm
Output Psat		29		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		+12		V DC
DC Supply Current		2.2		A
Impedance		50		Ohms

## Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-40°C to +60°C	
Non-operating Temperature*	-50°C to +70°C	
Relative humidity	95%	
RF Input/Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
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	60*50*12	mm

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

## Absolute Maximum Ratings:

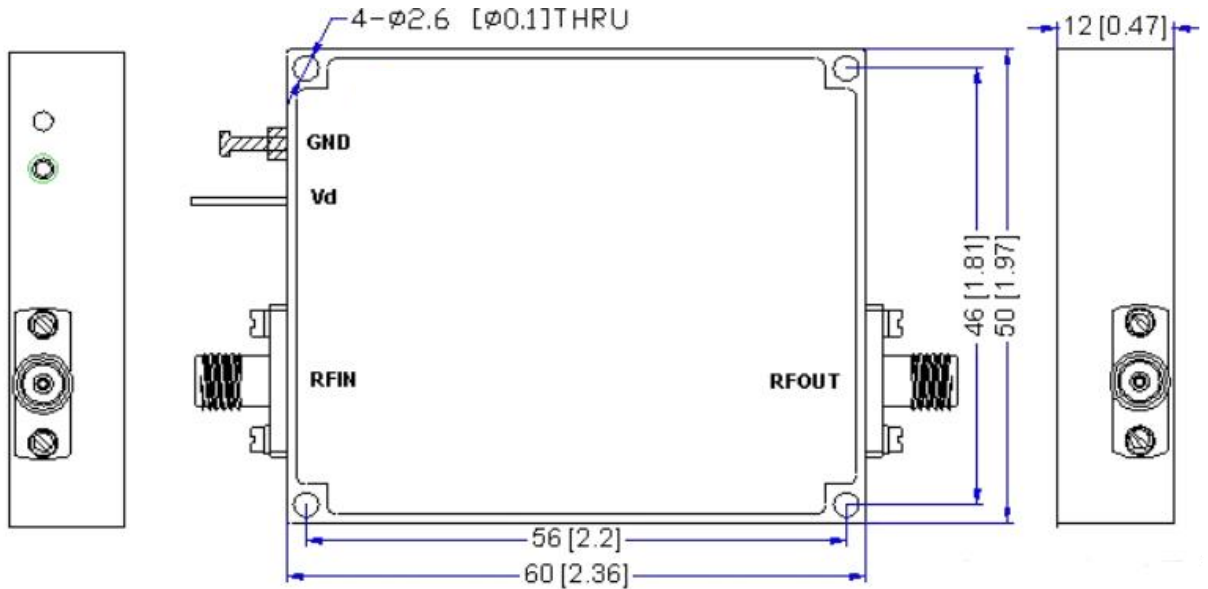
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	0 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



## Outline Drawing:

Unit:mm

PA-18G-40G-0.8



## Ordering Information:

Base Number	Description	Optional
PA-18G-40G-0.8	Power Amplifier, 18-40GHz, Gain:32dB,Psat:0.8W,+12V DC	Without Heatsink
PA-18G-40G-0.8-HS	Power Amplifier, 18-40GHz, Gain:32dB,Psat:0.8W,+12V DC	With Heatsink