



# Power Amplifier

## Model: PA-26G5-40G-1-2

26.5-40GHz 1W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 26.5-40GHz
- High output power at saturation, 1W Min.
- High gain, 30 dB Min.
- 50 Ohm Matched Input / Output.

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

### Product Overview:

The PA-26G5-40G-1-2 is a power amplifier with a minimum gain of 30 dB and a minimum Psat of 1W across the frequency range of 26.5 to 40GHz. The DC power requirement for the amplifier is +12 VDC/1.5 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	26.5		40	GHz
Gain	30	32		dB
Gain Flatness		±3		dB
Output P1dB		28		dBm
Output Psat	30	31		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		+12		V DC
DC Supply Current		1.5		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	50,000	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	30*50*17.5	mm

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

## Absolute Maximum Ratings:

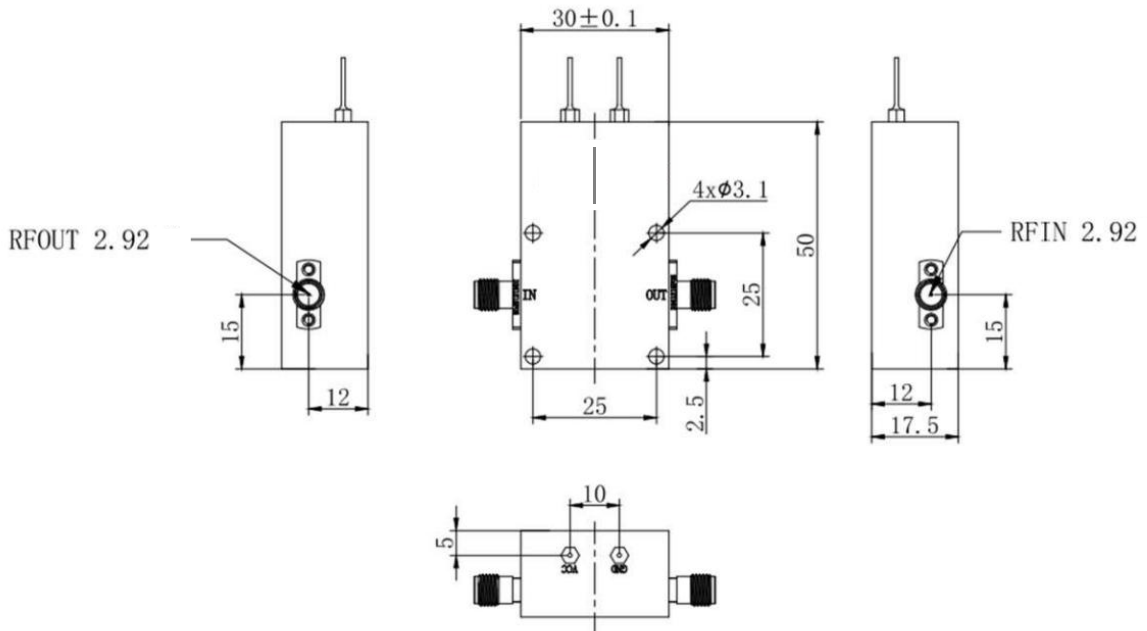
Parameter	Value
Supply Bias Voltage	+12V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



## Outline Drawing:

Unit:mm

PA-26G5-40G-1



## Ordering Information:

Base Number	Description	Optional
PA-26G5-40G-1-2	Power Amplifier,26.5-40GHz, Gain:30dB,Psat:1W,+12V DC	Without Heatsink
PA-26G5-40G-1-2-HS	Power Amplifier,26.5-40GHz, Gain:30dB,Psat:1W,+12V DC	With Heatsink