



# Power Amplifier

## Model: PA-26G5-40G-20

26.5-40GHz 20W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 26.5-40GHz
- High output power at saturation, 20W Min.
- High gain, 43 dB Min.
- 50 Ohm Matched Input / Output.

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

### Product Overview:

The PA-26G5-40G-20 is a power amplifier with a minimum power gain of 43 dB and a minimum Psat of 20W across the frequency range of 26.5 to 40GHz. The DC power requirement for the amplifier is +22 VDC/15 A. The input port configuration is a female 2.92mm connector and the output is a WR28 waveguide.



## Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	26.5		40	GHz
Power Gain	43			dB
Power Gain Flatness		±4.5		dB
Output Psat	43	44		dBm
Spurious			-50	dBc
Input VSWR		2	2.5	:1
DC Voltage		+22	+24	V DC
DC Supply Current			15	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 WR28	
DC Power Interface	SUB-2W2	Pin1:+22V Pin2:GND
Control Connector	J30J-9ZKP	
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	230*194*85	mm
Weight	5	Kg

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

## Absolute Maximum Ratings:

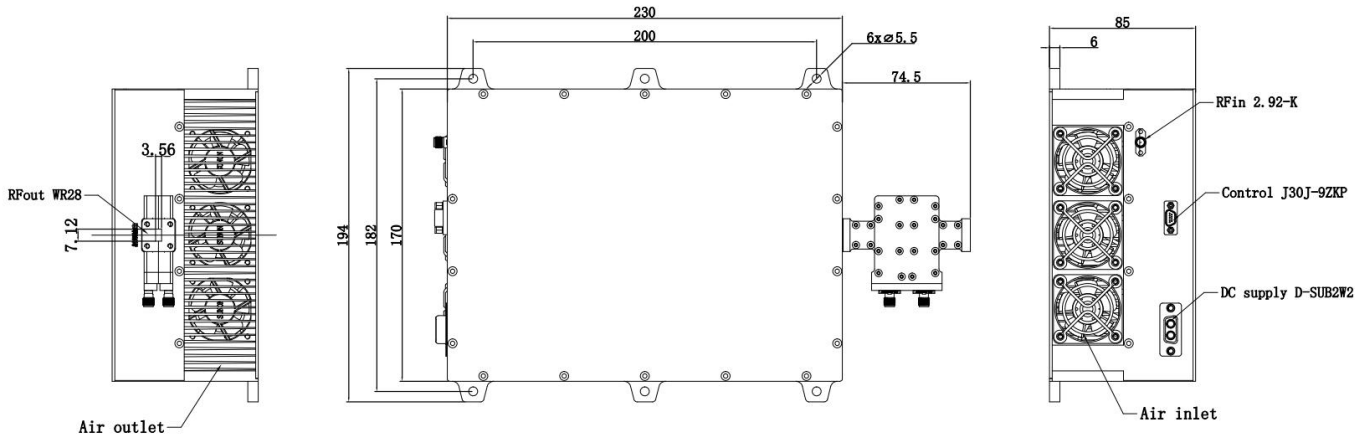
Parameter	Value
Supply Bias Voltage	+24 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



## Outline Drawing:

Unit:mm

PA-26G5-40G-20-HS



## Control Connector Pin Define(J30J-9ZKP Define):

Pin	Function
1	TTL(high for open,low for close)
2	Current Monitor
3	Temperature Monitor
4	0.5dB Attenuation
5	1dB Attenuation
6	2dB Attenuation
7	4dB Attenuation
8	8dB Attenuation
9	16dB Attenuation

## Ordering Information:

Base Number	Description	Optional
PA-26G5-40G-20	Power Amplifier, 26.5-40GHz, Gain:43dB,Psat:20W,+22V DC	Without Heatsink
PA-26G5-40G-20-HS	Power Amplifier, 26.5-40GHz, Gain:43dB,Psat:20W,+22V DC	With Heatsink