



Power Amplifier

Model: PA-2G-20G-4

2-20GHz 4W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 2-20GHz
- High output power at saturation, 4W Min.
- High gain, 30 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-2G-20G-4 is a power amplifier with a minimum power gain of 30 dB and a minimum Psat of 4W across the frequency range of 2 to 20 GHz. The DC power requirement for the amplifier is +28 VDC/2 A. The input and output port configuration offers coax adapter structure with SMA female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	2		20	GHz
Power Gain	30			dB
Linear Gain Flatness		±4		dB
Linear Gain Adjustment Range		20		dB
Output Psat	36			dBm
Spurious@Pout=36dBm			-50	dBc
Harmonic@Pout=36dBm			-10	dBc
Input VSWR			2	:1
DC Voltage		+28	+29	V DC
DC Supply Current		2	2.5	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	SMA Female/SMA Female	
DC Supply Connector	J30J-9ZKP	Pin1:Gain adjustment(0~+5V) Pin2~5:GND Pin6~9:+28V
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*65*11	mm
Weight	≤200	g

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



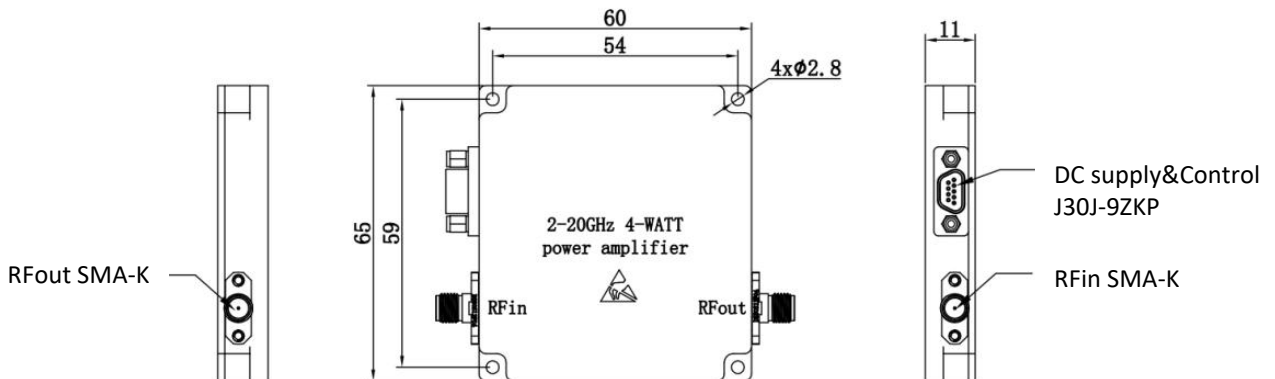
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+29 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm

PA-2G-20G-4



Key Features:

Parameter	Advantages
Protection function	Over DC voltage
Control function	Gain adjustment

Ordering Information:

Base Number	Description	Optional
PA-2G-20G-4	Power Amplifier, 2-20GHz, Gain:30dB,Psat:4W,+28V DC	Without Heatsink
PA-2G-20G-4-HS	Power Amplifier, 2-20GHz, Gain:30dB,Psat:4W,+28V DC	With Heatsink