



Power Amplifier

Model: PA-2G-20G-10

2-20GHz 10W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 2-20GHz
- High output power at saturation, 10W Min.
- High gain, 40 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-2G-20G-10 is a power amplifier with a minimum power gain of 40 dB and a minimum P_{sat} of 10W across the frequency range of 2 to 20 GHz. The DC power requirement for the amplifier is +28 VDC/4.5 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	40			dB
Power Gain Flatness		±4		dB
Output Psat	40	42		dBm
Spurious@Pout=40dBm			-50	dBc
Harmonic@Pout=40dBm			-10	dBc
Input VSWR			2	:1
DC Voltage		+28	+29	V DC
DC Supply Current		4.5	5	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	SMA Female/SMA Female	
DC Supply&Control Connector	J30J-9ZKP	Pin1: EN (+3.3~+5V on;0V off) Pin2~5: +28V Pin6~9: 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	150*90*20	mm

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

Absolute Maximum Ratings:

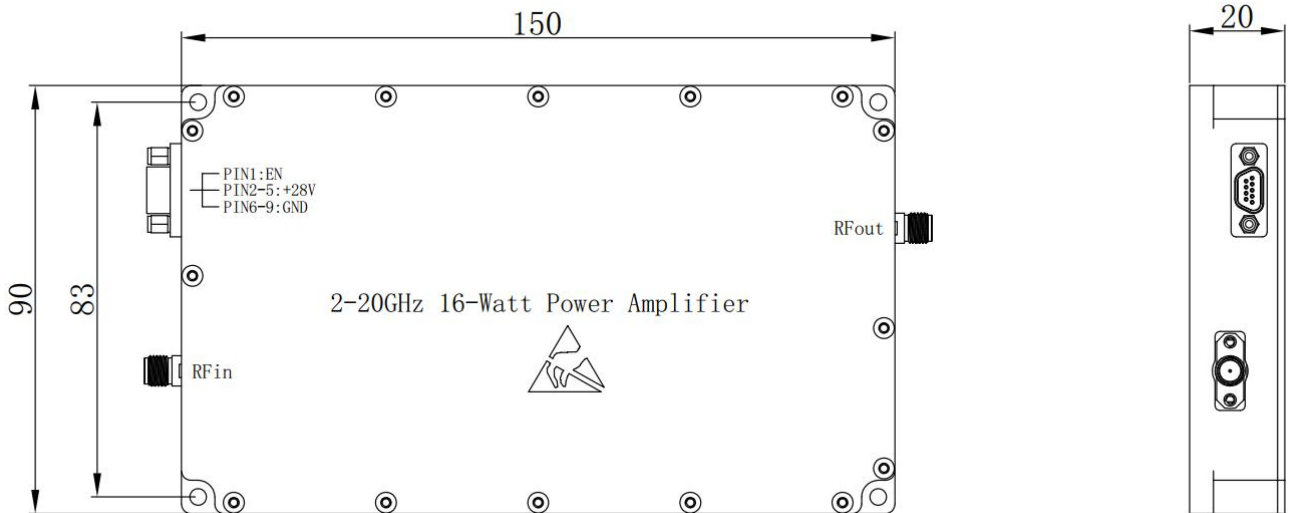
Parameter	Value
Supply Bias Voltage	+29 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-2G-20G-10



Ordering Information:

Base Number	Description	Optional
PA-2G-20G-10	Power Amplifier, 2-20GHz, Gain:40dB,Psat:10W,+28V DC	Without Heatsink
PA-2G-20G-10-HS	Power Amplifier, 2-20GHz, Gain:40dB,Psat:10W,+28V DC	With Heatsink