



Power Amplifier

Model: PA-1G-2G-40

1-2GHz 40W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 1-2GHz
- High output power at saturation, 40W Min.
- High gain, 46 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-1G-2G-40 is a power amplifier with a minimum power gain of 46 dB and a minimum Psat of 40 W across the frequency range of 1 to 2 GHz. The DC power requirement for the amplifier is +28 VDC/6 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	1		2	GHz
Working Mode	CW/PULSE compatible			
Power Gain	46			dB
Power Gain Flatness		±1		dB
Output Psat	46	47		dBm
Spurious@Pout=46dBm			-60	dBc
Harmonic@Pout=46dBm		-15	-10	dBc
Input VSWR			2	:1
DC Voltage		28	29	V DC
DC Supply Current			6	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 Power Supply Connector	J30J-9ZKP	Pin1: Enable 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*25	mm
Weight	≤500	g

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



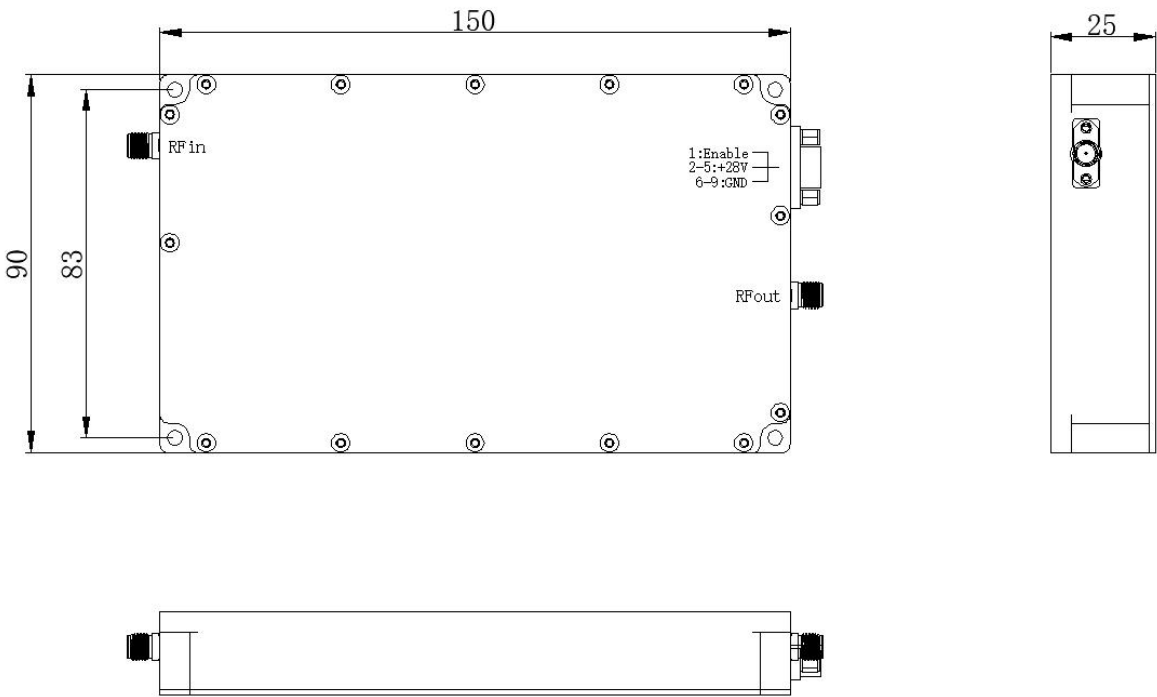
Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm

PA-1G-2G-40



Ordering Information:

Base Number	Description	Optional
PA-1G-2G-40	Power Amplifier, 1-2GHz, Gain:46dB,Psat:40W,+28V DC	Without Heatsink
PA-1G-2G-40-HS	Power Amplifier, 1-2GHz, Gain:46dB,Psat:40W,+28V DC	With Heatsink