



Power Amplifier

Model: PA-2G-6G-10

2-6GHz 10W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 2-6GHz
- High output power at saturation, 10W Min.
- High gain, 40 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-2G-6G-10 is a power amplifier with a typical small signal gain of 40 dB and a minimum Psat of 10W across the frequency range of 2 to 6 GHz. The DC power requirement for the amplifier is +28 VDC/1 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		6	GHz
Small Signal Gain	38	40		dB
Small Signal Gain Flatness		±2	±3	dB
Output P1dB	36	37		dBm
Output Psat	40	40.5		dBm
Input VSWR		1.5	2.0	:1
DC Voltage		+28	+30	V DC
Static Current		1		A
Saturation Current		2.5	3	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 Bias	J30J-9Pin	
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	100*70*15	mm
Weight	300	g

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

Absolute Maximum Ratings:

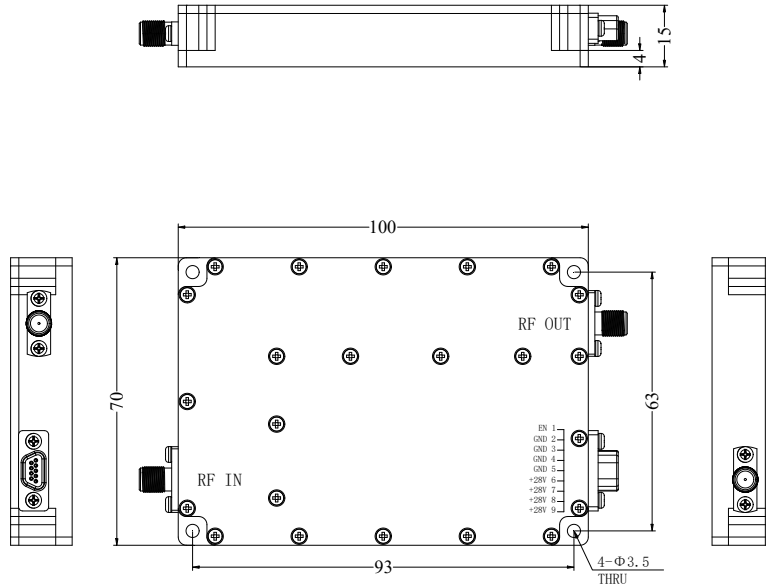
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



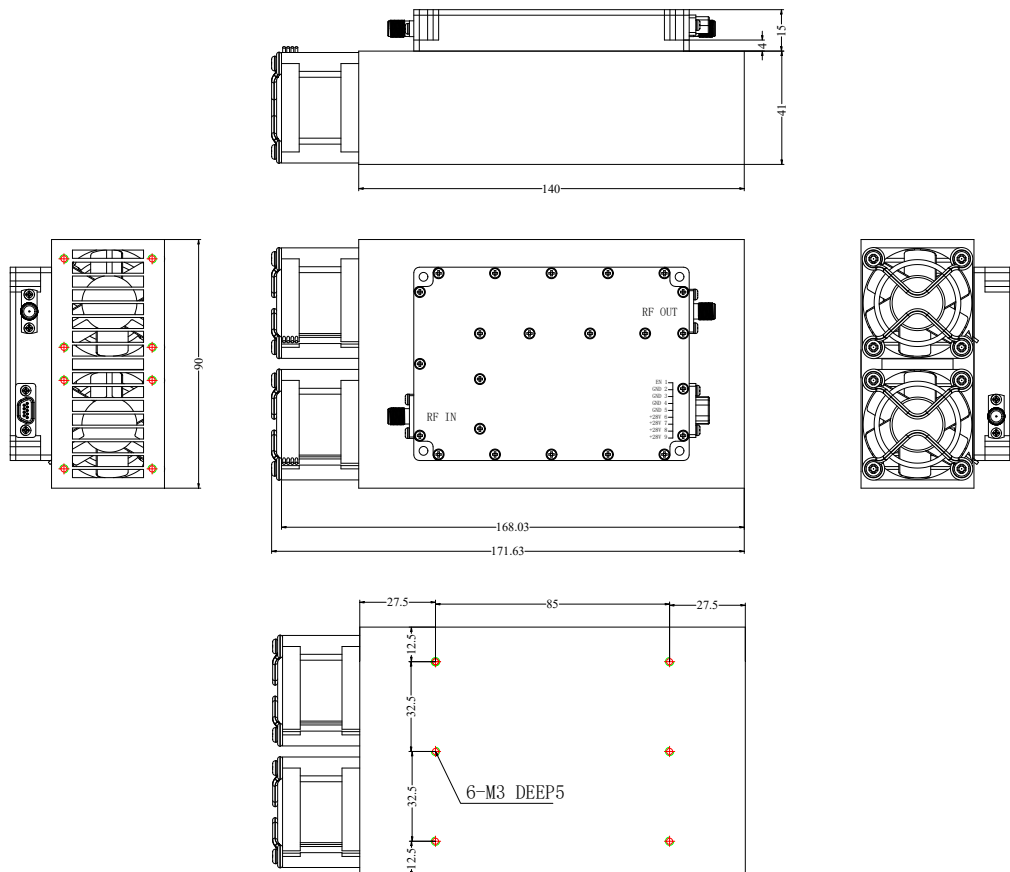
Outline Drawing:

Unit:mm

PA-2G-6G-10



PA-2G-6G-10-HS





DC Supply Connector(J30J-9 Female):

Pin	Name	Function
1	EN	Amplifier Enable: TTL High (5V) (Internally Pulled-High) Amplifier Disable: Short to ground
2~5	GND	Ground
6~9	VCC	Power supply positive,+26.0-30.0VDC

Ordering Information:

Base Number	Description	Optional
PA-2G-6G-10	Power Amplifier, 2-6GHz, Gain:40dB,Psat:10W,+28V DC	Without Heatsink
PA-2G-6G-10-HS	Power Amplifier, 2-6GHz, Gain:40dB,Psat:10W,+28V DC	With Heatsink