



Power Amplifier

Model: PA-0G1-1G-32

0.1-1GHz 32W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 0.1-1GHz
- High output power at saturation, 32W Min.
- High gain, 35 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-0G1-1G-32 is a power amplifier with a minimum gain of 35 dB and a minimum Psat of 32W across the frequency range of 0.1 to 1GHz. 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	0.1		1	GHz
Gain	35	38		dB
Gain Flatness		±1.5	±2	dB
Input P1dB	42	43		dBm
Output Psat	45	46		dBm
Input VSWR		1.5	2	:1
Output VSWR		1.5	2	:1
DC Voltage		+28		V DC
DC Supply Current		1	12	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	D-SUB-9	
Altitude	10,000	feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth	
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions	
Dimensions W x H x D	170*80*20	mm
Weight	200	g

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

Absolute Maximum Ratings:

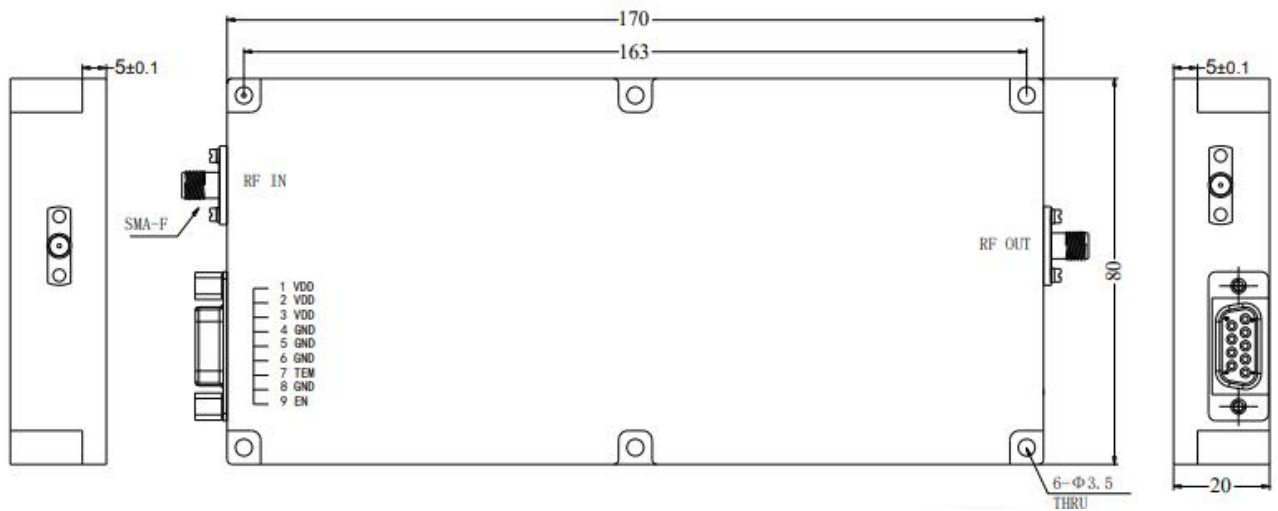
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+16 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-0G1-1G-32



Ordering Information:

Base Number	Description	Optional
PA-0G1-1G-32	Power Amplifier, 0.1-1GHz, Gain:35dB,Psat:32W,+28V DC	Without Heatsink
PA-0G1-1G-32-HS	Power Amplifier, 0.1-1GHz, Gain:35dB,Psat:32W,+28V DC	With Heatsink