



Power Amplifier

Model: PA-0G3-18G-1

0.3-18GHz 1W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 0.3-18GHz
- High output power at saturation, 1W Typ.
- High gain, 34 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-0G3-18G-1 is a power amplifier with a minimum gain of 34 dB and a nominal Psat of 1 W across the frequency range of 0.3 to 18 GHz. The DC power requirement for the amplifier is +15 VDC/700 mA. 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	0.3		18	GHz
Small Signal Gain	34	37		dB
Gain Flatness		±2		dB
Output P1dB		30.5		dBm
OIP3		42		dBm
Noise Figure		3.5	5	dB
Spurious			-60	dBc
Reverse Isolation		60		dB
Input VSWR		1.8		:1
Input VSWR		1.8		:1
DC Voltage		15		V DC
DC Supply Current		700		mA
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 Bias	Solder Pin	
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	38*58.2*12.5	mm

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



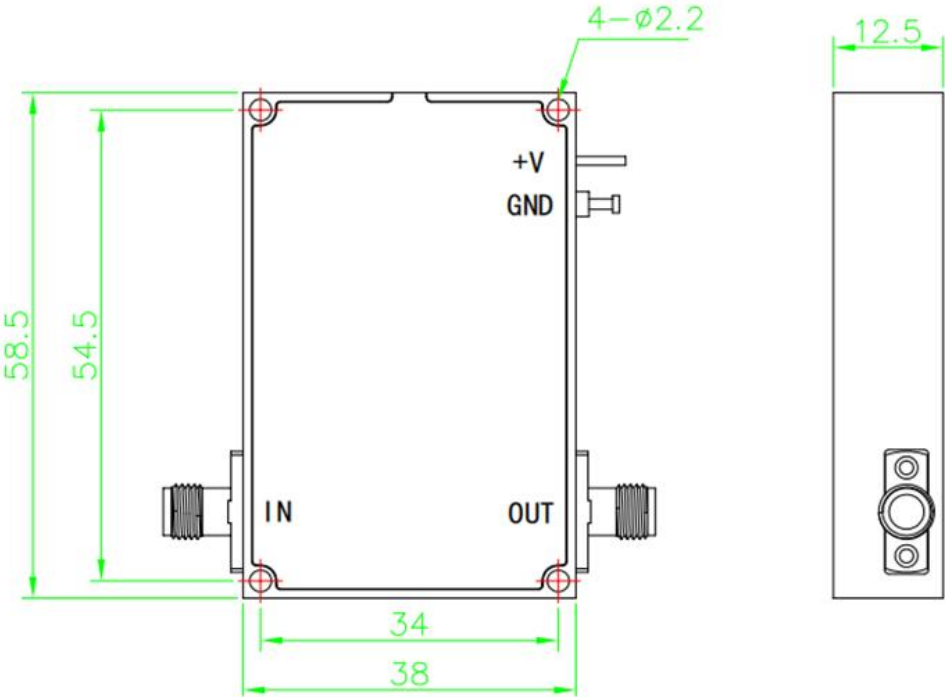
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+18 V
RF Input Power	+15 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm

PA-0G3-18G-1



Ordering Information:

Base Number	Description	Optional
PA-0G3-18G-1	Power Amplifier, 0.3-18GHz, Gain:34dB,Psat:1W,+15V DC	Without Heatsink
PA-0G3-18G-1-HS	Power Amplifier, 0.3-18GHz, Gain:34dB,Psat:1W,+15V DC	With Heatsink