



Power Amplifier

Model: PA-0G3-5G-1.6

0.3-5GHz 1.6W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 0.3-5GHz
- High output power at saturation, 1.6W Min.
- High gain, 25 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-0G3-5G-1.6 is a power amplifier with a minimum small signal gain of 25 dB and a minimum P_{sat} of 1.6W across the frequency range of 0.3 to 5GHz. The DC power requirement for the amplifier is +12 VDC/0.7 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	0.3		5	GHz
Small Signal Gain	25			dB
Small Signal Gain Flatness		±2.0		dB
Output P1dB		30		dBm
Output Psat	32			dBm
Input VSWR		1.8		:1
Output VSWR		1.8		:1
DC Voltage	+9	+12	+15	V DC
DC Supply Current		0.7	0.9	A
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	100%RH at 35°C, 95%RH at 40°C	
RF Input/Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Altitude	50,000	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	30*50*12	mm

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

Absolute Maximum Ratings:

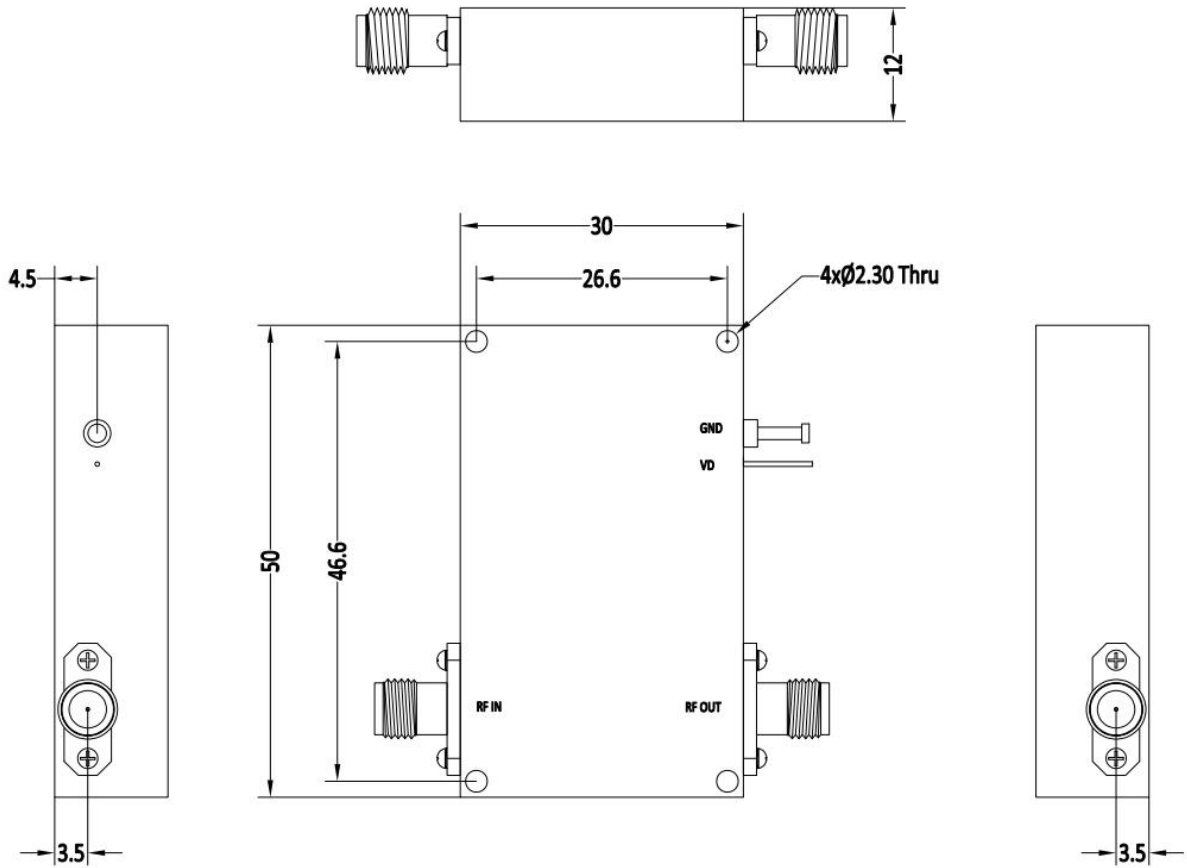
Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	+14 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-0G3-5G-1.6



Ordering Information:

Base Number	Description	Optional
PA-0G3-5G-1.6	Power Amplifier, 0.3-5GHz, Gain:25dB,Psat:1.6W,+12V DC	Without Heatsink
PA-0G3-5G-1.6-HS	Power Amplifier, 0.3-5GHz, Gain:25dB,Psat:1.6W,+12V DC	With Heatsink