



Power Amplifier

Model: PA-0G7-6G-3

0.7-6GHz 3W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 0.7-6GHz
- High output power at saturation, 3W Typ.
- High gain, 30 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-0G7-6G-3 is a power amplifier with a minimum gain of 30 dB and a nominal Psat of 3W across the frequency range of 0.7 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	0.7		6	GHz
Gain	30	33		dB
Gain Flatness		±2	±2.5	dB
Output P1dB	33	34		dBm
Output Psat		35		dBm
Spurious		-60		dBc
Input VSWR		1.6	2.0	:1
DC Voltage		+28		V DC
DC Supply Current		1		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	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	67*80*12	mm

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

Absolute Maximum Ratings:

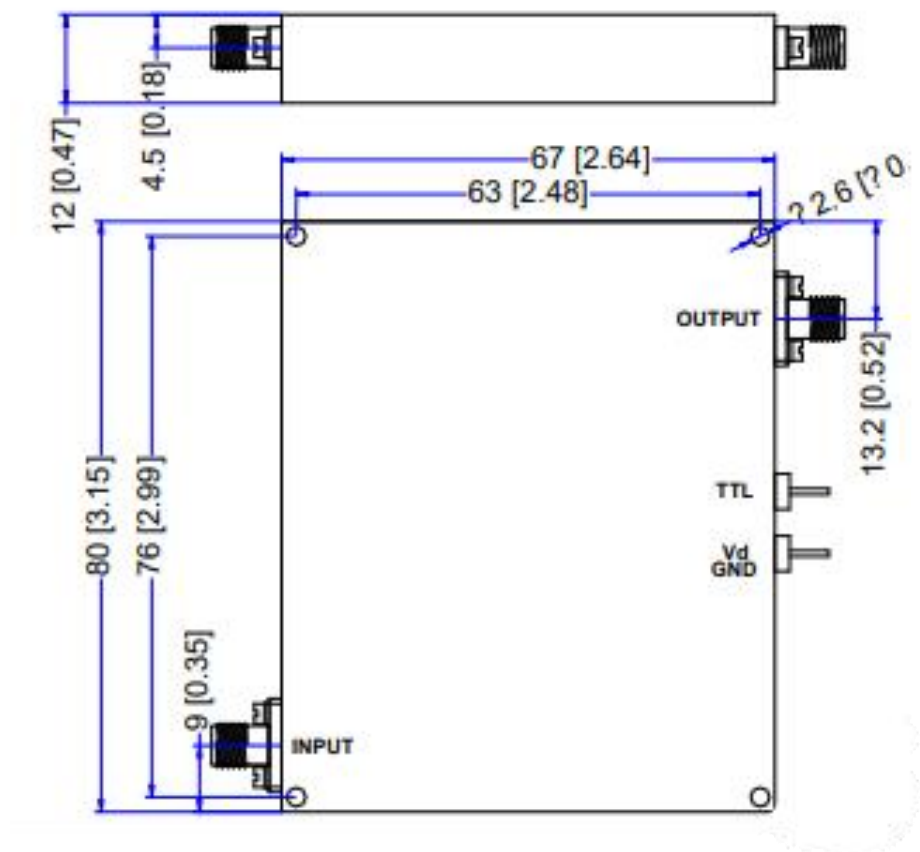
Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-0G7-6G-3



Ordering Information:

Base Number	Description	Optional
PA-0G7-6G-3	Power Amplifier, 0.7-6GHz, Gain:30dB,Psat:3W,+28V DC	Without Heatsink
PA-0G7-6G-3-HS	Power Amplifier, 0.7-6GHz, Gain:30dB,Psat:3W,+28V DC	With Heatsink