



Power Amplifier

Model: PA-1G6-1G7-6

1.6-1.7GHz 6W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 1.6-1.7GHz
- High output power at saturation, 6W Min.
- High gain, 38 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-1G6-1G7-6 is a power amplifier with a minimum gain of 38 dB and a minimum Psat of 6 W across the frequency range of 1.6 to 1.7 GHz. The DC power requirement for the amplifier is +28 VDC/1.5 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	1.6		1.7	GHz
Gain	38	40		dB
Gain Flatness		±1		dB
Output P1dB		35		dBm
Output Psat	38	39		dBm
PAE@Psat	40			%
Input VSWR		1.5	2.0	:1
DC Voltage		+28		V DC
DC Supply Current		1.5		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	90*48*15	mm
Weight	150	g

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

Absolute Maximum Ratings:

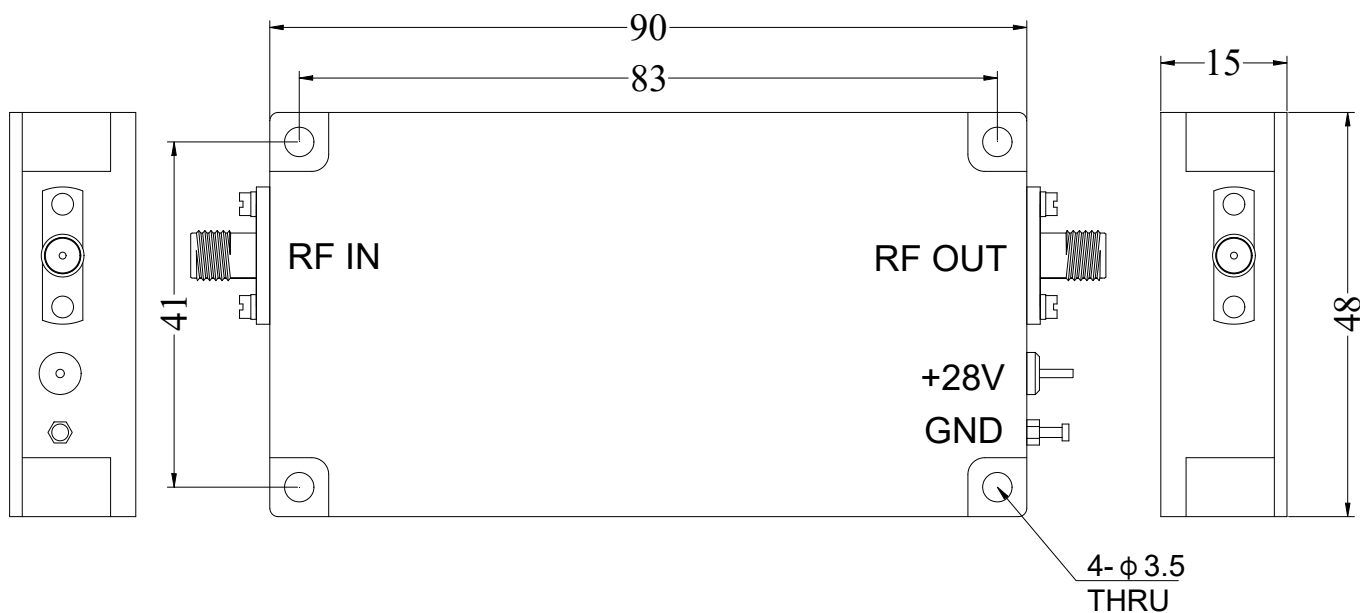
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+3 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-1G6-1G7-6



Ordering Information:

Base Number	Description	Optional
PA-1G6-1G7-6	Power Amplifier, 1.6-1.7GHz, Gain:38dB,Psat:6W,+28V DC	Without Heatsink
PA-1G6-1G7-6-HS	Power Amplifier, 1.6-1.7GHz, Gain:38dB,Psat:6W,+28V DC	With Heatsink