



# Power Amplifier

## Model: PA-0G7-6G-12.5

0.7-6GHz 12.5W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 0.7-6GHz
- High output power at saturation, 12.5W Typ.
- High gain, 40 dB Min.
- 50 Ohm Matched Input / Output.

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

### Product Overview:

The PA-0G7-6G-12.5 is a power amplifier with a minimum gain of 40 dB and a nominal Psat of 12.5W across the frequency range of 0.7 to 6GHz. 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	0.7		6	GHz
Gain	40	43		dB
Gain Flatness		±3		dB
Output P1dB	40	40.5		dBm
Output Psat		41		dBm
Harmonic		-15	-13	dBc
Input VSWR		1.5	2.5	: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 +50°C	
Non-operating Temperature*	-50°C to +60°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)	20g,11ms,saw-tooth	
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions	
Dimensions W x H x D	90*65*12	mm

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

## Absolute Maximum Ratings:

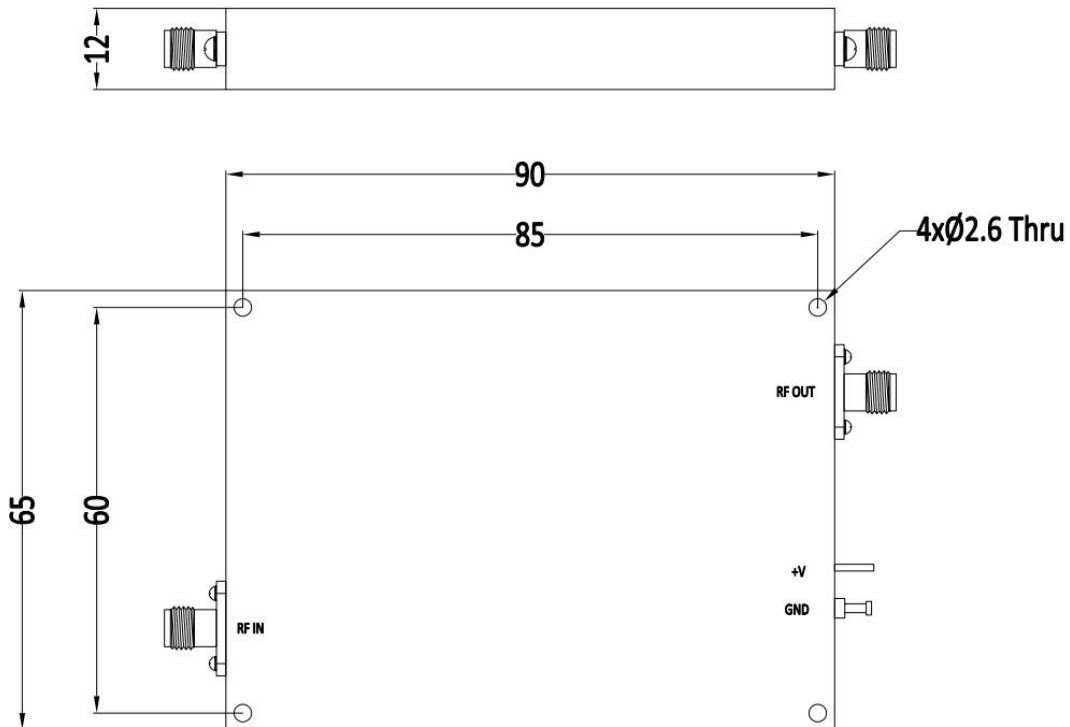
Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	0 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



## Outline Drawing:

Unit:mm

PA-0G7-6G-12.5



## Ordering Information:

Base Number	Description	Optional
PA-0G7-6G-12.5	Power Amplifier, 0.7-6GHz, Gain:40dB,Psat:12.5W,+28V DC	Without Heatsink
PA-0G7-6G-12.5-HS	Power Amplifier, 0.7-6GHz, Gain:40dB,Psat:12.5W,+28V DC	With Heatsink