



Power Amplifier

Model: PA-0G7-5G-1.6

0.7-5GHz 1.6W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 0.7-5GHz
- High output power at saturation, 1.6W Typ.
- High gain, 20dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-0G7-5G-1.6 is a power amplifier with a minimum gain of 20 dB and a nominal P_{sat} of 1.6W across the frequency range of 0.7 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	0.7		5	GHz
Gain	20	25		dB
Gain Flatness		±2	±3	dB
Output P1dB	30	31		dBm
Output Psat		32		dBm
Harmonics @Pout=40dBm		-15		dBc
Input VSWR		1.5	2	:1
DC Voltage		+12	+15	V DC
DC Supply Current		0.7	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	100*50*15	mm
Weight	150	g

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

Absolute Maximum Ratings:

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

