

Model: TLLA1G2G-50-15

Low Noise Amplifier

1-2GHz, NF:2.0dB, Gain:50dB, P1dB:16dBm

Feature:

- Ultra Wide Band: 1-2GHz
- Gain: 50dB Min
- Noise Figure: 2.0dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	1-2			GHz
Gain	50	52		dB
Gain Flatness		±0.5		dB
Noise Figure		1.5	2	dB
Output P1dB	10	16		dBm
Output IP3		23		dBm
Input VSWR		1.3	1.8	:1
Output VSWR		1.3	1.8	:1
DC Voltage		12		V DC
DC Supply Current		200		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	50*40*10	mm
Weight	/	g

Absolute Maximum Ratings:

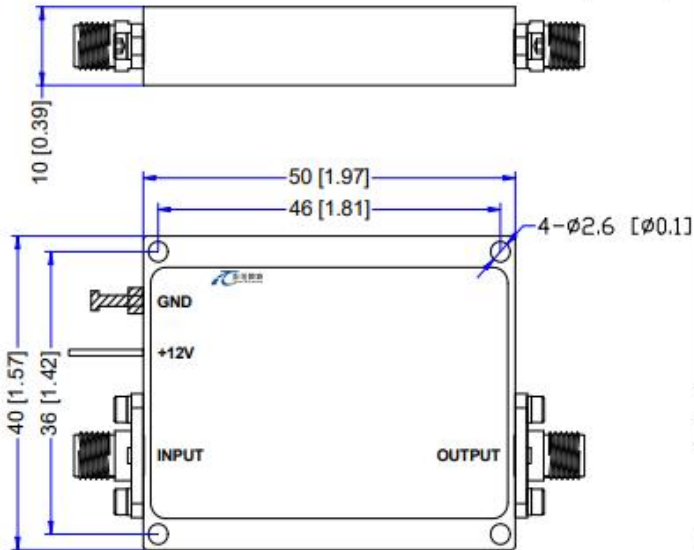
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	TBD
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm(inches)



*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-25		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
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			

Ordering Information:

Part Number	Description	Revision
TLLA1G2G-50-15	Low Noise Amplifier, 1-2GHz, Noise Figure:2.0dB, Gain:50 dB,P1dB:16dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA1G2G-50-15-HS	Low Noise Amplifier, 1-2GHz, Noise Figure:2.0dB, Gain:50 dB,P1dB:16dBm,+12V DC,With Heatsink	Rev.1.1