

Model: TLLA40G50G-50-35
Low Noise Amplifier
40-50GHz, NF:3.5dB, Gain:50dB, P1dB:20dBm
Feature:

- Ultra Wide Band: 40-50GHz
- Gain: 50dB Min
- Noise Figure: 3.5dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	40-50			GHz
Gain	50	53		dB
Gain Flatness		±3.0		dB
Noise Figure		3	3.5	dB
Output P1dB		20		dBm
Spurious		-60		dBc
Input VSWR		2.6		:1
DC Voltage	8	12		V DC
DC Supply Current	180	270		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.4mm Female/2.4mm Female	
DC Bias	Solder Pin	
Size	44*36*12	mm
Weight	/	g

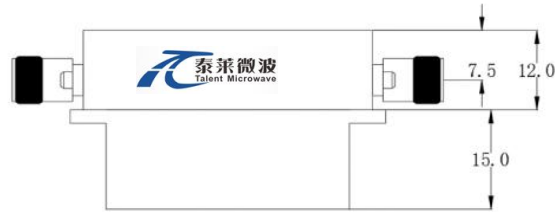
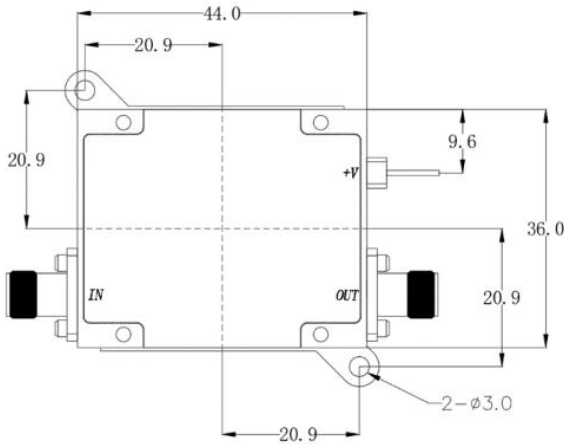
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+13V
RF Input Power	5 dBm
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	-45		+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
TLLA40G50G-50-35	Low Noise Amplifier, 40-50GHz, Noise Figure:3.5dB, Gain:50 dB,P1dB:20dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA40G50G-50-35-HS	Low Noise Amplifier, 40-50GHz, Noise Figure:3.5dB, Gain:50 dB,P1dB:20dBm,+12V DC,With Heatsink	Rev.1.1