

## Model:TLLA0.4G50G-40-60

## Low Noise Amplifier

0.4-50GHz, NF:6.0dB, Gain:40dB,P1dB:18dBm

### Feature:

- Ultra Wide Band: 0.4-50GHz
- Gain: 40dB Typ
- Noise Figure: 6.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

### Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.4-50			GHz
Gain		40		dB
Gain Flatness		±2.5	±4	dB
Noise Figure		6		dB
Output P1dB		18		dBm
Output IP3		21		dBm
Spurious		-60		dBc
Input VSWR		2	2.5	:1
Output VSWR		2	2.5	:1
DC Voltage	8	12		V DC
DC Supply Current		500		mA
Impedance	50			Ohms

### Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.4mm Female/2.4mm Female	
DC Bias	Solder Pin	
Size	35.3*40.3*12	mm
Weight	48	g

### Absolute Maximum Ratings:

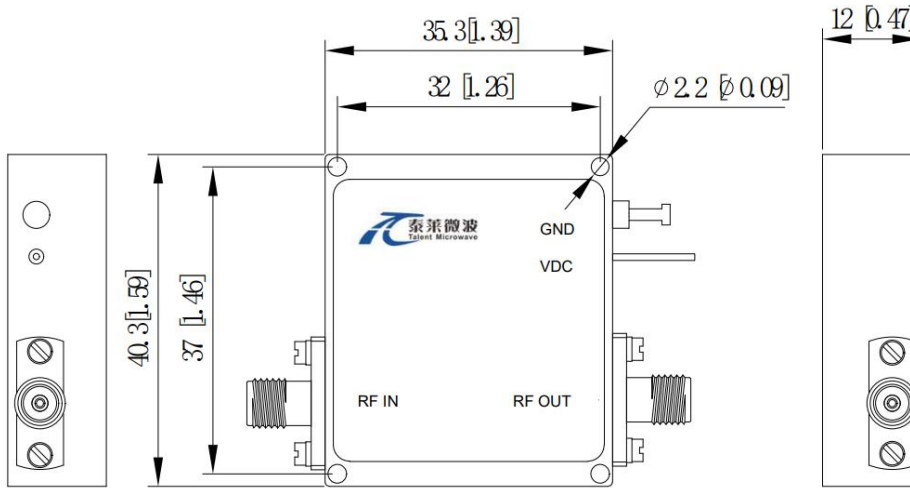
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	-15 dBm
ESD sensitivity (HBM)	Class 0, passed 150V



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	-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
TLLA0.4G50G-40-60	Low Noise Amplifier, 0.4-50GHz, Noise Figure:6.0dB, Gain:40 dB,P1dB:18dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.4G50G-40-60-HS	Low Noise Amplifier, 0.4-50GHz, Noise Figure:6.0dB, Gain:40 dB,P1dB:18dBm,+12V DC,With Heatsink	Rev.1.1