

**Model: TLLA2G40G-27-50**
**Low Noise Amplifier**
**2-40GHz, NF:5.0dB, Gain:27dB, P1dB:17dBm**
**Feature:**

- Ultra Wide Band: 2-40GHz
- Gain: 27dB Typ
- Noise Figure: 5.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	2-40			GHz
Gain		27		dB
Gain Flatness		±2.5		dB
Noise Figure		5		dB
Output P1dB	16	17		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		12		V DC
DC Supply Current		250		mA
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	40*35*15	mm
Weight	/	g

**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	TBD
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
TLLA2G40G-27-50	Low Noise Amplifier, 2-40GHz, Noise Figure:5.0dB, Gain:27 dB,P1dB:17dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA2G40G-27-50-HS	Low Noise Amplifier, 2-40GHz, Noise Figure:5.0dB, Gain:27 dB,P1dB:17dBm,+12V DC,With Heatsink	Rev.1.1