

**Model: TLLA1G40G-15-50**
**Low Noise Amplifier**
**1-40GHz, NF:5.0dB, Gain:15dB, P1dB:19dBm**
**Feature:**

- Ultra Wide Band: 1-40GHz
- Gain: 14dB Min
- Noise Figure: 5.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	1-40			GHz
Gain	14	15		dB
Gain Flatness		±1.5		dB
Noise Figure		5	6	dB
Output P1dB	18	19		dBm
Output IP3		30		dBm
Input VSWR		1.4	1.9	:1
Output VSWR		1.4	1.9	:1
DC Voltage		12		V DC
DC Supply Current		280		mA
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	30*30*10.2	mm
Weight	/	g

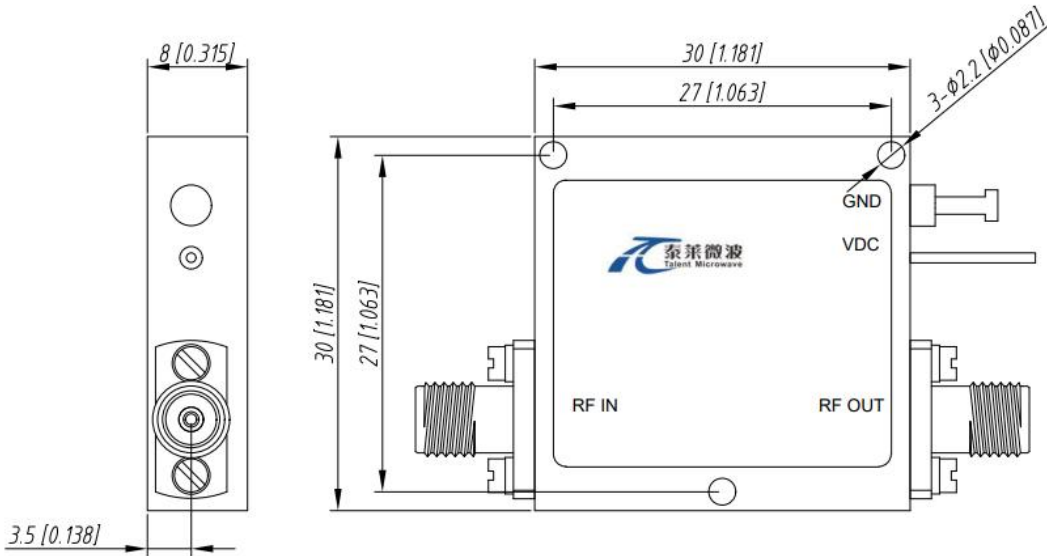
**Absolute Maximum Ratings:**

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	-40		+75	°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
TLLA1G40G-15-50	Low Noise Amplifier, 1-40GHz, Noise Figure:5.0dB, Gain:15 dB,P1dB:19dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA1G40G-15-50-HS	Low Noise Amplifier, 1-40GHz, Noise Figure:5.0dB, Gain:15 dB,P1dB:19dBm,+12V DC,With Heatsink	Rev.1.1