

Model:TLLA2G4G-40-15
Low Noise Amplifier
2-4GHz, NF:1.5dB, Gain:40dB,P1dB:24dBm
Feature:

- Ultra Wide Band: 2-4GHz
- Gain: 40dB Min
- Noise Figure: 1.5dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	2-4			GHz
Gain	40	41		dB
Noise Figure		1	1.5	dB
Output P1dB	20	24		dBm
Output Psat		25		dBm
Input VSWR		1.6		:1
Output VSWR		1.8		:1
DC Voltage	8	12	14	V DC
DC Supply Current		320		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	30*28*10	mm
Weight	/	g

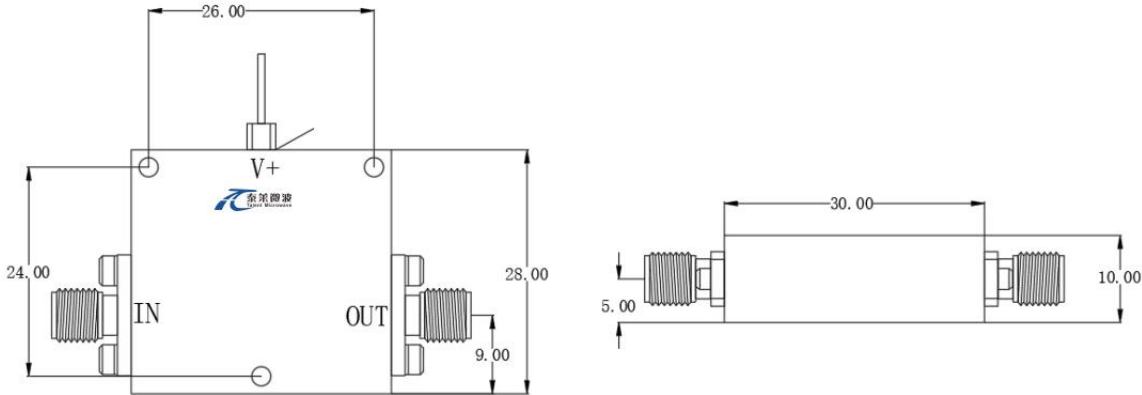
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+14V
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		+60	°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
TLLA2G4G-40-15	Low Noise Amplifier, 2-4GHz, Noise Figure:1.5dB, Gain:40 dB,P1dB:24dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA2G4G-40-15-HS	Low Noise Amplifier, 2-4GHz, Noise Figure:1.5dB, Gain:40 dB,P1dB:24dBm,+12V DC,With Heatsink	Rev.1.1