

**Model: TLLA18G27G-18-28**
**Low Noise Amplifier**
**18-27GHz, NF:2.8dB, Gain:18dB, P1dB:8dBm**
**Feature:**

- Ultra Wide Band: 18-27GHz
- Gain: 18dB Min
- Noise Figure: 2.8dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	18-27			GHz
Gain	18			dB
Gain Flatness		±0.6		dB
Noise Figure			2.8	dB
Output P1dB	8			dBm
Input VSWR			2	:1
DC Voltage		12		V DC
DC Supply Current		80		mA
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.9mm Female	
DC Bias	Solder Pin	
Size	32.1*29.2*11	mm
Weight	/	g

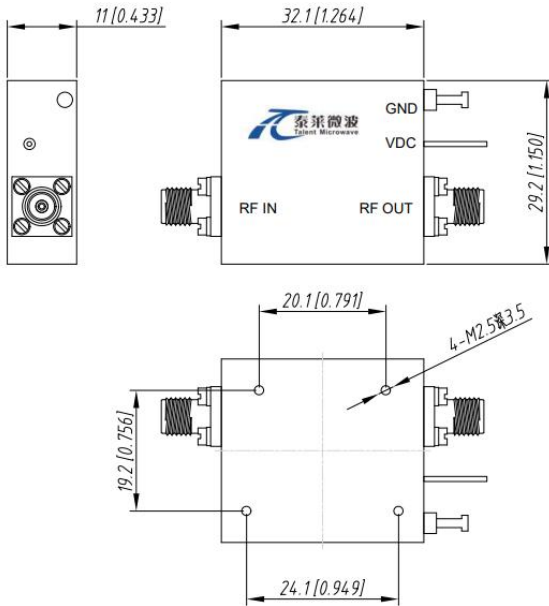
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	TBD
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
TLLA18G27G-18-28	Low Noise Amplifier, 18-27GHz, Noise Figure:2.8dB, Gain:18 dB,P1dB:8dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA18G27G-18-28-HS	Low Noise Amplifier, 18-27GHz, Noise Figure:2.8dB, Gain:18 dB,P1dB:8dBm,+12V DC,With Heatsink	Rev.1.1