

**Model: TLLA1G18G-27-25**
**Low Noise Amplifier**
**1-18GHz, NF:2.5dB, Gain:30dB, P1dB:20dBm**
**Feature:**

- Ultra Wide Band: 1-18GHz
- Gain: 30dB Typ
- Noise Figure: 2.5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

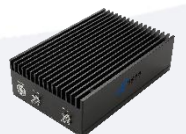
Parameter	Min	Typ	Max	Units
Frequency range	1-18			GHz
Gain	27	30		dB
Gain Flatness		±2	±3	dB
Noise Figure		2.5	3.5	dB
Output P1dB	15	20		dBm
Output IP3		25		dBm
Input VSWR		1.6	2	:1
Output VSWR		1.6	2	:1
DC Voltage		12		V DC
DC Supply Current		250		mA
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	30*30*8	mm
Weight	/	g

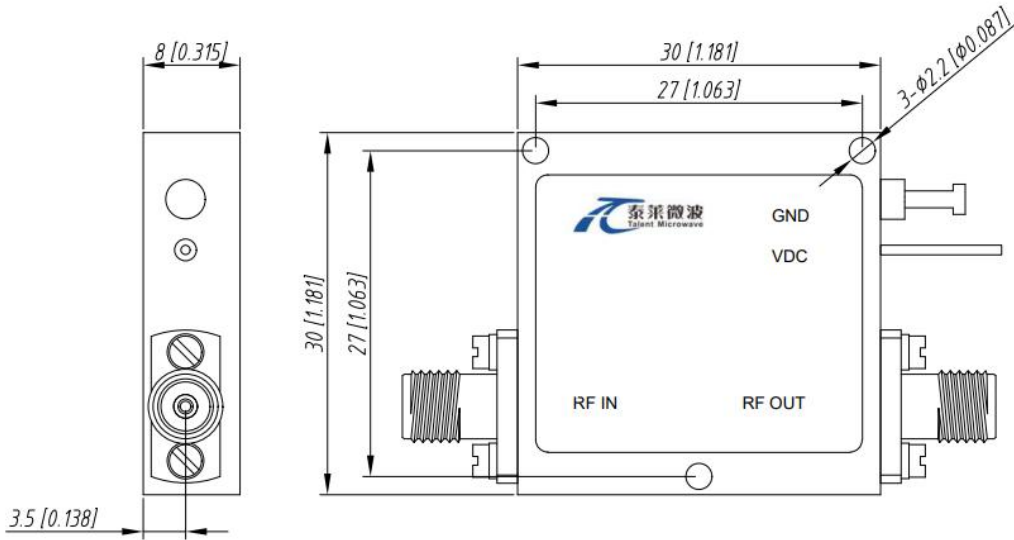
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	0 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
TLLA1G18G-27-25	Low Noise Amplifier, 1-18GHz, Noise Figure:2.5dB, Gain:30 dB,P1dB:20dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA1G18G-27-25-HS	Low Noise Amplifier, 1-18GHz, Noise Figure:2.5dB, Gain:30 dB,P1dB:20dBm,+12V DC,With Heatsink	Rev.1.1