

**Model: TLLA0.01G67G-18-50**
**Low Noise Amplifier, 0.01-67GHz,  
 NF: 5.0dB, Gain: 18dB, P1dB: 15dBm**
**Feature:**

- Ultra Wide Band: 0.01-67GHz
- Gain: 18dB 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	0.01-67			GHz
Gain		18		dB
Gain Flatness		±2		dB
Noise Figure		5.0		dB
Output P1dB		15		dBm
Output IP3		20		dBm
Input VSWR		1.8	2.5	:1
Output VSWR		1.8	2.5	:1
DC Voltage		12		V DC
DC Supply Current		200		mA
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	1.85mm Female/1.85mm Female	
DC Bias	Solder Pin	
Size	30*30*8	mm
Weight	50	g

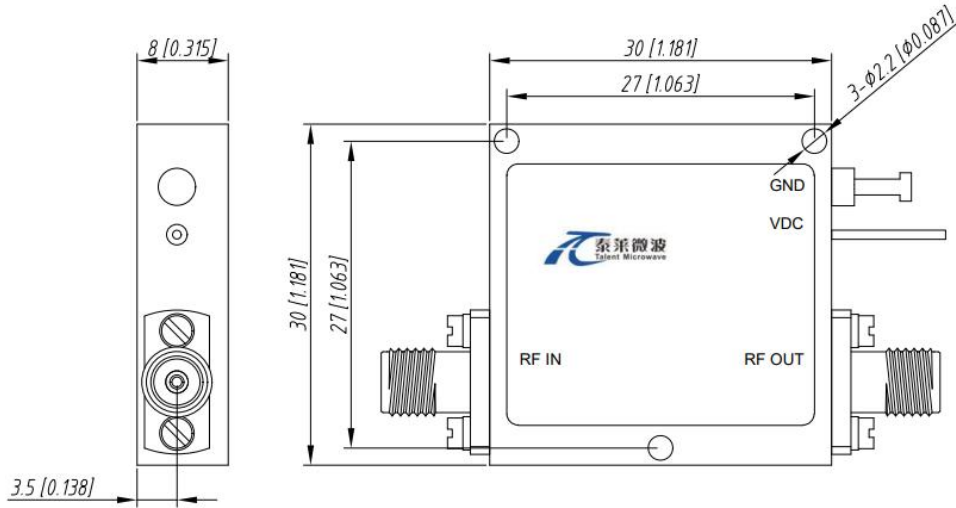
**Absolute Maximum Ratings:**

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
TLLA0.01G67G-18-50	Low Noise Amplifier, 0.01-67GHz, Noise Figure:5.0dB, Gain:18 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.01G67G-18-50-HS	Low Noise Amplifier, 0.01-67GHz, Noise Figure:5.0dB, Gain:18 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1