

**Model: TLLA50K67G-12-50**
**Low Noise Amplifier , 50KHz-67GHz,  
 NF:5.0dB, Gain:12dB,P1dB:15dBm**
**Feature:**

- Ultra Wide Band: 50KHz-67GHz
- Gain: 12dB 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	50KHz-67GHz			GHz
Gain		12		dB
Gain Flatness		±2.0		dB
Noise Figure		5	6	dB
Output P1dB		15		dBm
Output IP3		20		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		8		V DC
DC Supply Current		95		mA
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	1.85 Female/1.85 Female	
DC Bias	Solder Pin	
Size	44.8*29.2*11	mm
Weight	/	g

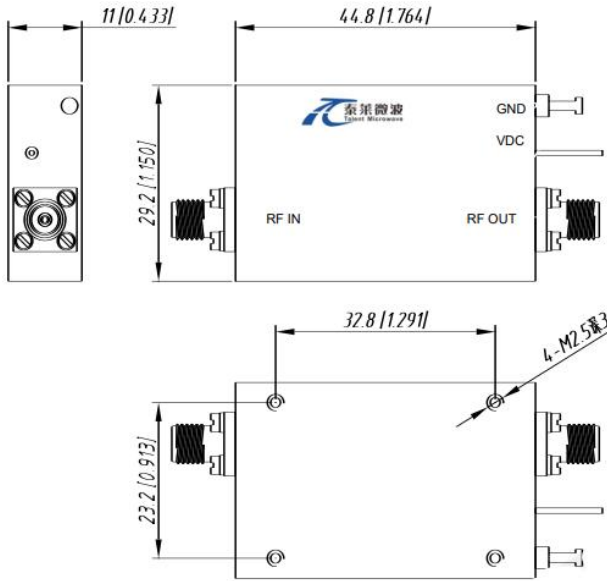
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	/
RF Input Power	10 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:**

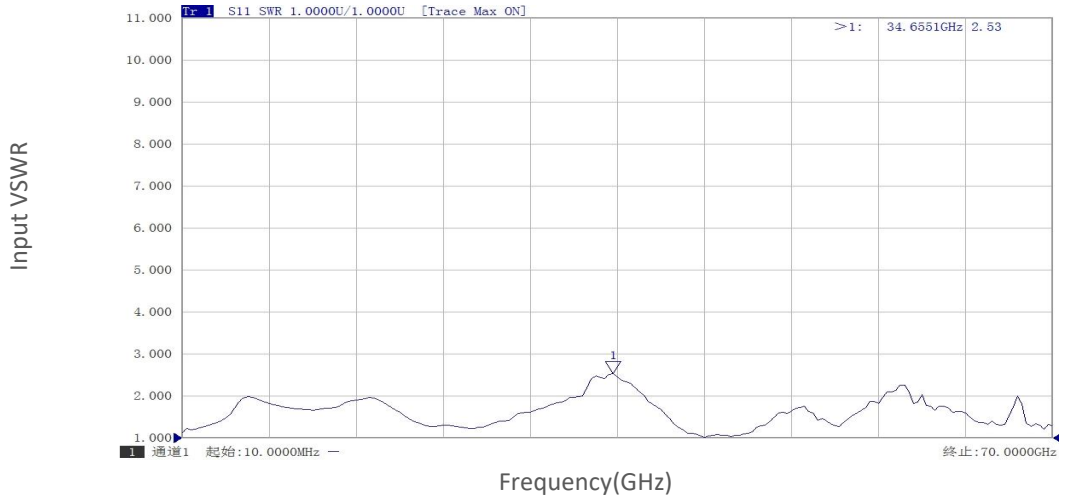
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

Part Number	Description	Revision
TLLA50K67G-12-50	Low Noise Amplifier, 50KHz-67GHz, Noise Figure:5.0dB, Gain:12 dB,P1dB:15dBm,+8V DC,Without Heatsink	Rev.1.1
TLLA50K67G-12-50-HS	Low Noise Amplifier, 50KHz-67GHz, Noise Figure:5.0dB, Gain:12 dB,P1dB:15dBm,+8V DC,With Heatsink	Rev.1.1

Typical Performance Data:

Input VSWR vs Frequency



Gain vs Frequency

