

**Model: TLLA10G67G-30-50**
**Low Noise Amplifier**  
**10-67GHz, NF:5.0dB, Gain:30dB, P1dB:13dBm**
**Feature:**

- Ultra Wide Band: 10-67GHz
- Gain: 30dB 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	10-67			GHz
Gain	28	30		dB
Gain Flatness		±3		dB
Noise Figure		5	8	dB
Output P1dB		13		dBm
Output IP3		25		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		12	13	V DC
DC Supply Current		300		mA
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	1.85mm Female/1.85mm Female	
DC Bias	Solder Pin	
Size	76.2*50.8*37.2	mm
Weight	/	g

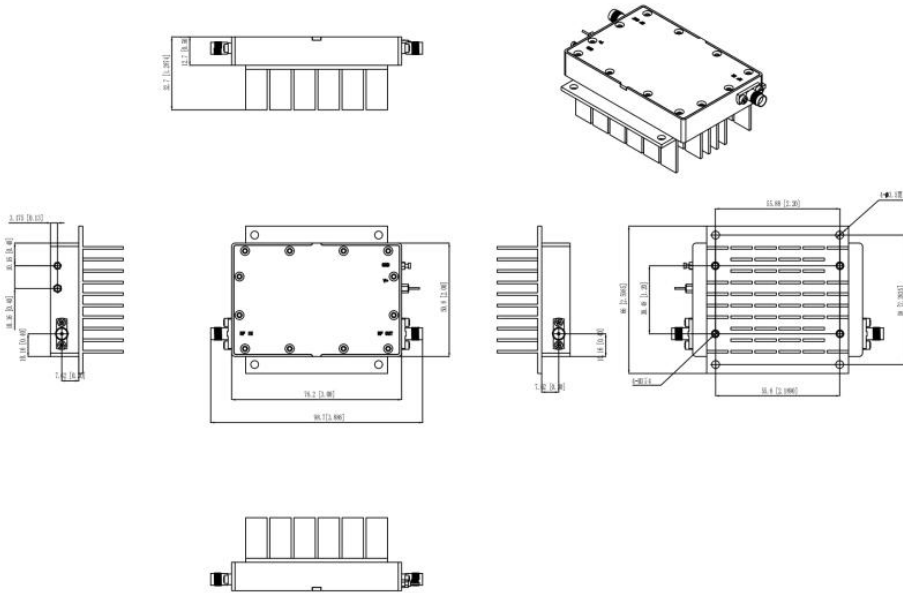
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	+13V
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:**

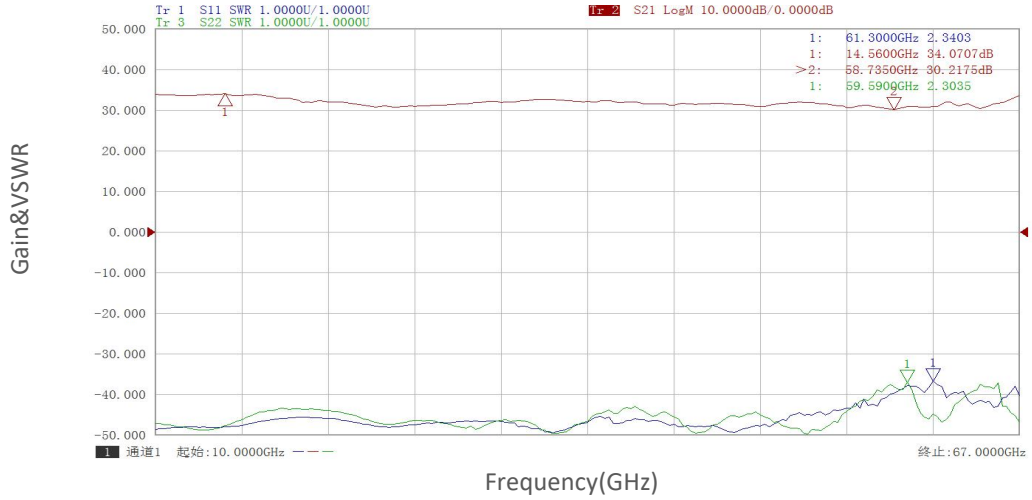
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude		50,000		feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

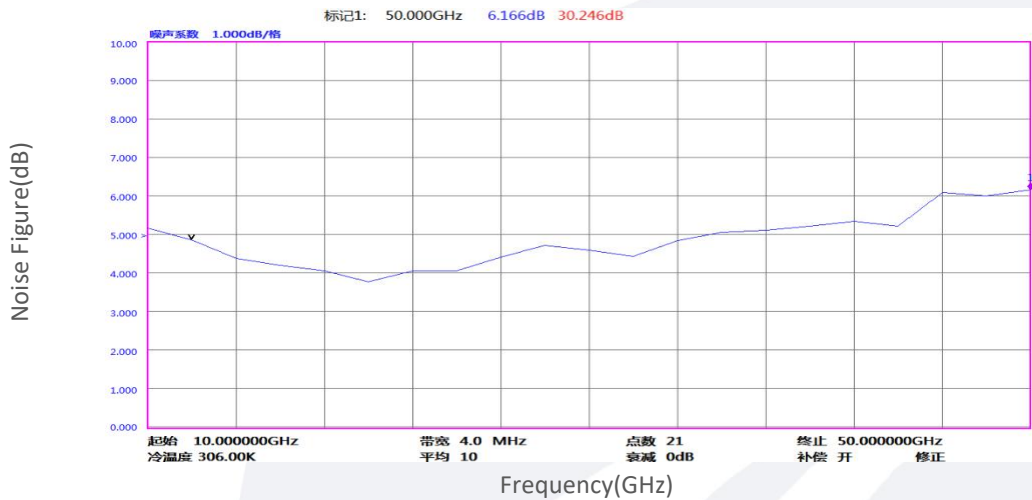
Part Number	Description	Revision
TLLA10G67G-36-50	Low Noise Amplifier, 10-67GHz, Noise Figure:5.0dB, Gain:30 dB,P1dB:13dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA10G67G-36-50-HS	Low Noise Amplifier, 10-67GHz, Noise Figure:5.0dB, Gain:30 dB,P1dB:13dBm,+12V DC,With Heatsink	Rev.1.1

Typical Performance Data:

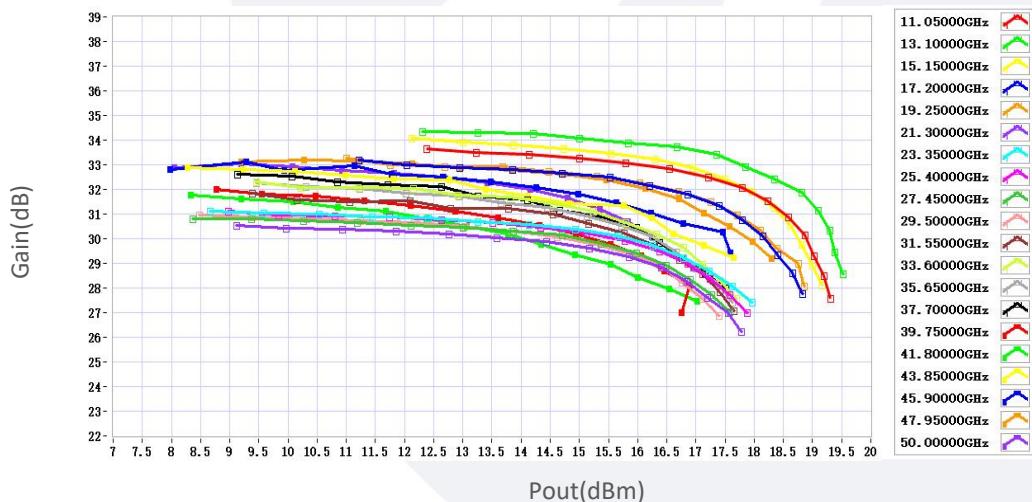
Gain&VSWR vs Frequency



Noise Figure vs Frequency



Gain vs Output Power



Typical Performance Data:

P1dB vs Frequency

