

**Model: TLLA6G34G-32-35**
**Low Noise Amplifier**
**6-34GHz, NF:3.5dB, Gain:32dB, P1dB:14dBm**
**Feature:**

- Ultra Wide Band: 6-34GHz
- Gain: 32dB Typ
- Noise Figure: 3.5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	6-34			GHz
Gain	30	32		dB
Gain Flatness		±2.5		dB
Noise Figure		3.5		dB
Output P1dB	13	14		dBm
Output Psat		15		dBm
Input VSWR		1.6		:1
Output VSWR		1.6		:1
DC Voltage	8	12	13	V DC
DC Supply Current		280		mA
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	44*36*12	mm
Weight	/	g

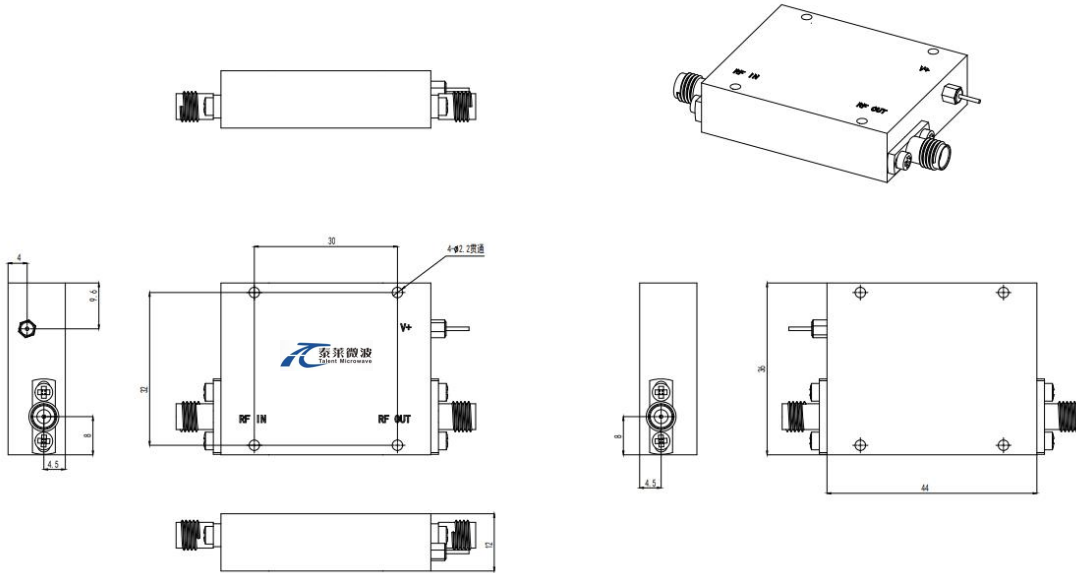
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	+13V
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:**

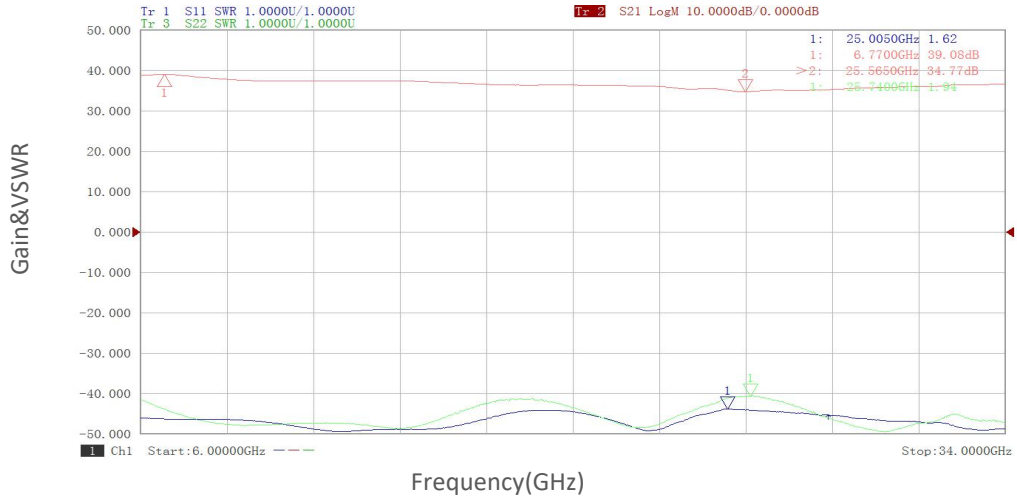
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

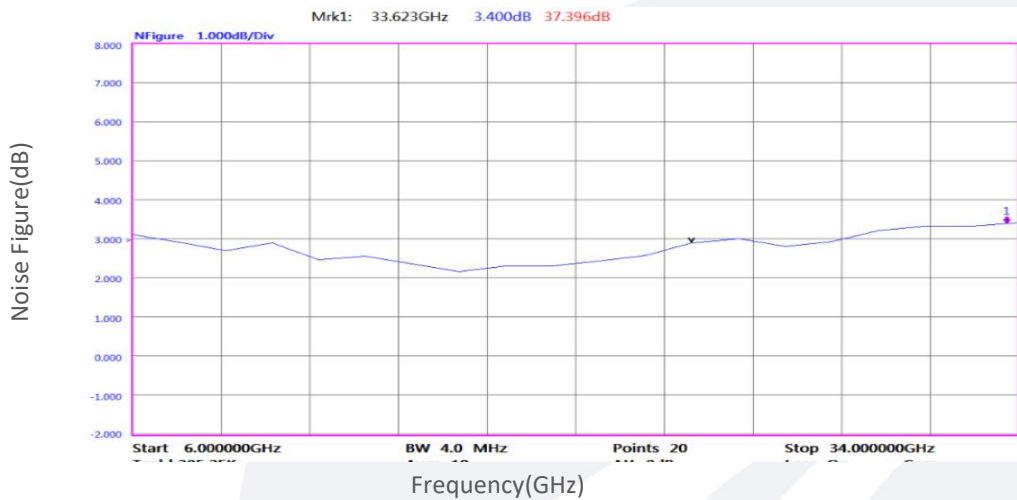
Part Number	Description	Revision
TLLA6G34G-32-35	Low Noise Amplifier, 6-34GHz, Noise Figure:3.5dB, Gain:32 dB,P1dB:14dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA6G34G-32-35-HS	Low Noise Amplifier, 6-34GHz, Noise Figure:3.5dB, Gain:32 dB,P1dB:14dBm,+12V DC,With Heatsink	Rev.1.1

Typical Performance Data:

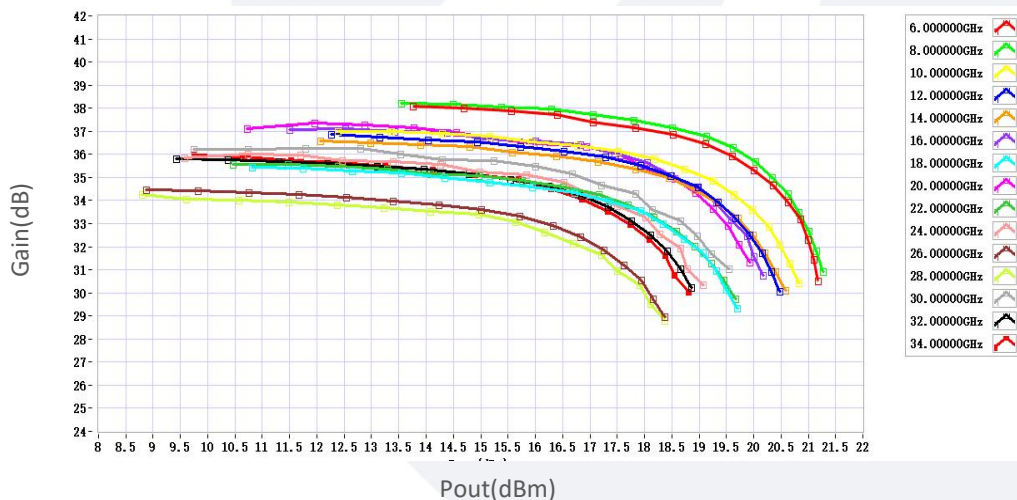
### Gain&VSWR vs Frequency



### Noise Figure vs Frequency

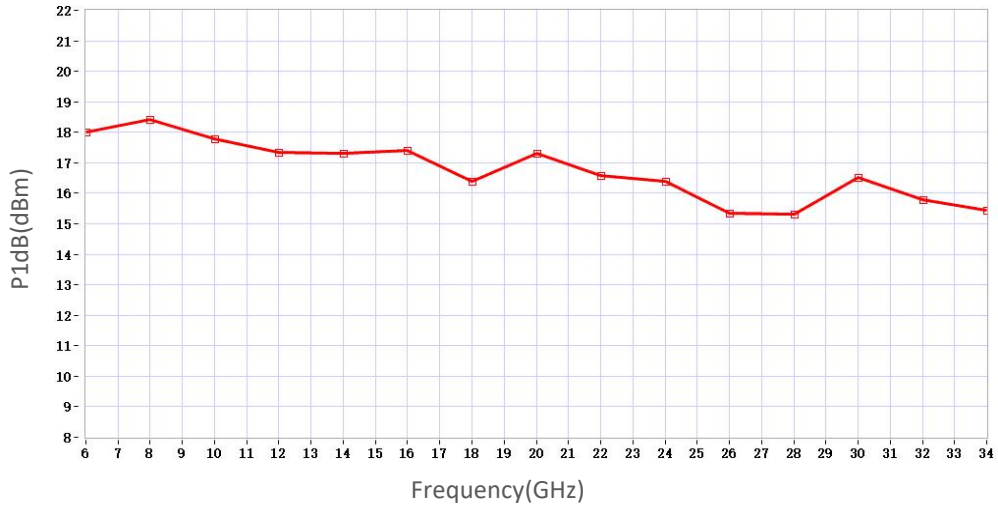


### Gain vs Output Power



Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

