

**Model: TLLA26G40G-35-50**
**Low Noise Amplifier**
**26-40GHz, NF:5.0dB, Gain:35dB, P1dB:21dBm**
**Feature:**

- Ultra Wide Band: 26-40GHz
- Gain: 35dB Min
- Noise Figure: 5.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	26-40			GHz
Gain	35			dB
Gain Flatness		±2.0		dB
Noise Figure		5		dB
Output P1dB		21		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage	8	12		V DC
DC Supply Current		200		mA
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	4.*35*12	mm
Weight	50	g

**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	+20V
RF Input Power	15 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:**

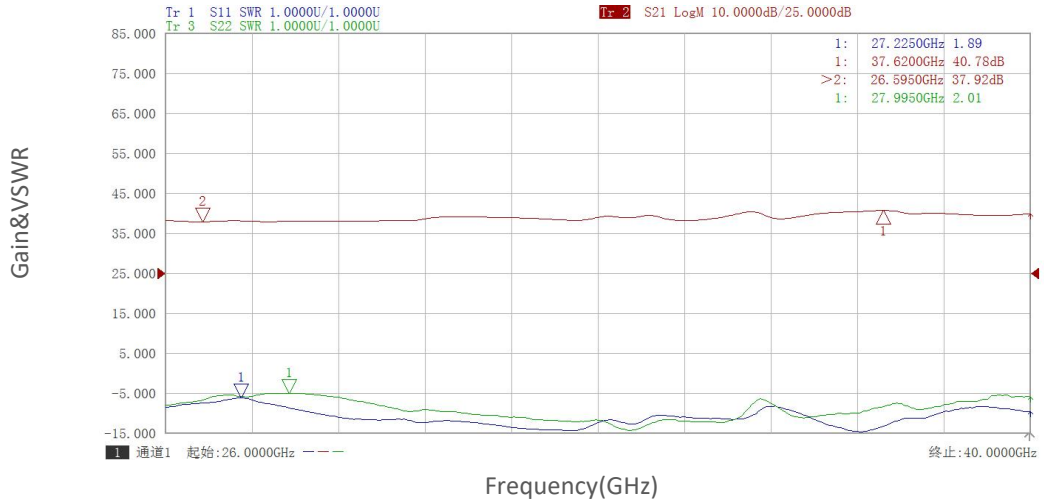
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

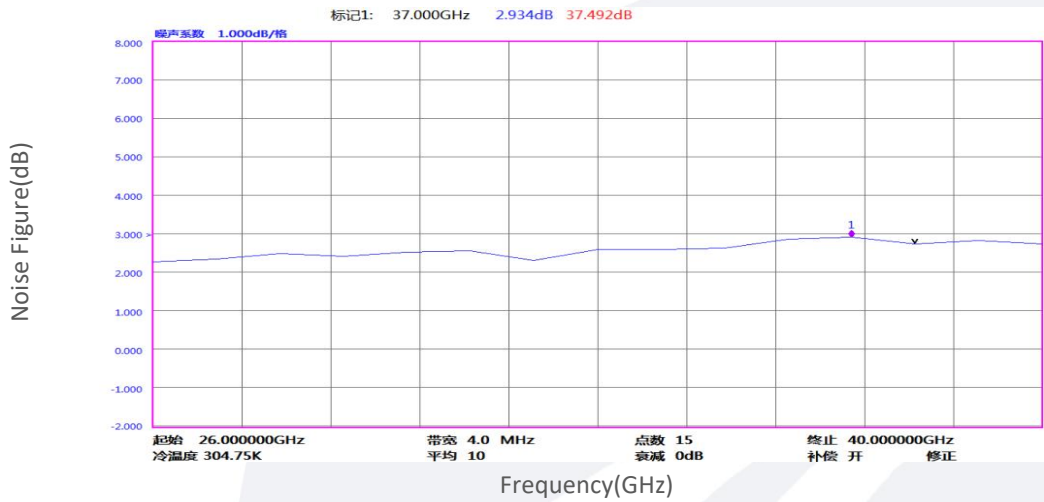
Part Number	Description	Revision
TLLA26G40G-35-50	Low Noise Amplifier, 26-40GHz, Noise Figure:5.0dB, Gain:35 dB,P1dB:21dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA26G40G-35-50-HS	Low Noise Amplifier, 26-40GHz, Noise Figure:5.0dB, Gain:35 dB,P1dB:21dBm,+12V DC,With Heatsink	Rev.1.1

Typical Performance Data:

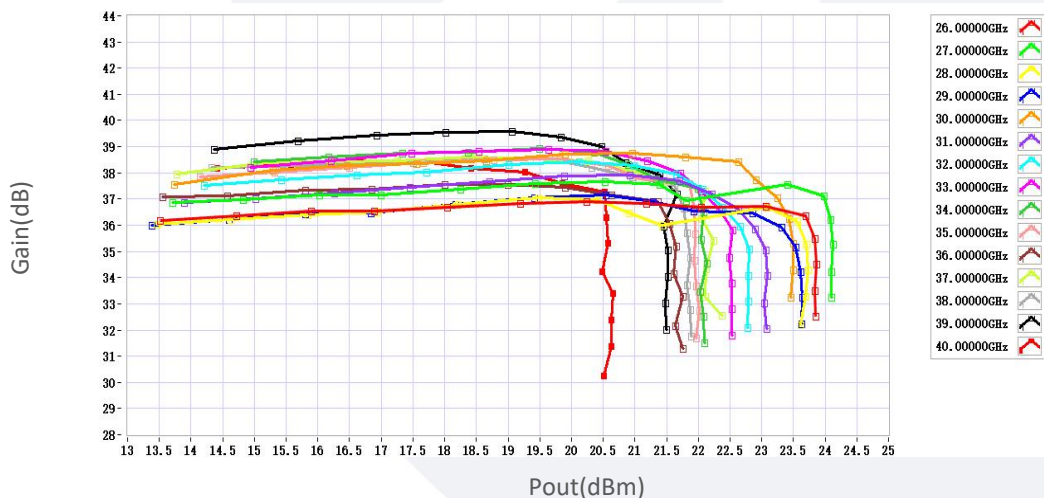
Gain&VSWR vs Frequency



Noise Figure vs Frequency

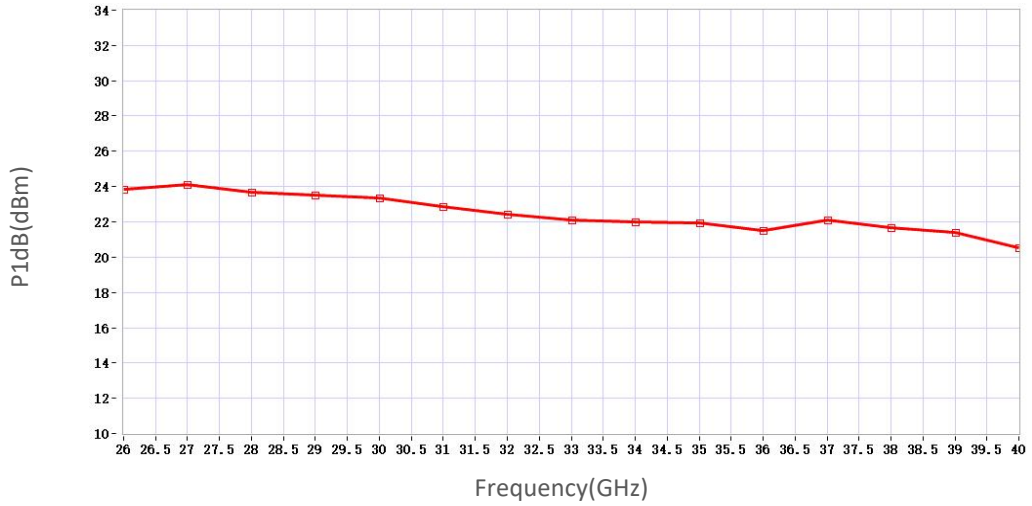


Gain vs Output Power



Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

