

**Model:TLLA1G40G-40-50**
**Low Noise Amplifier**
**1-40GHz, NF:5.0 dB, Gain:43 dB,P1dB:18dBm**
**Feature:**

- Ultra Wide Band: 1-40GHz
- Gain: 43dB Type
- Noise Figure: 5.0dB Typ
- Unconditional stability
- 50 Ohm Matched Input / Output

**电气特性 Electrical:**

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	1-40			GHz
增益 Gain		43		dB
增益平坦度 Gain Flantness		+2.5		dB
噪声系数 Noise Figure		5.0		dB
线性输出功率P1dB		18		dBm
输入驻波 Input VSWR		2.0	2.5	: 1
输出驻波 Output VSWR		2.0	2.5	: 1
直流电压 DC Voltage	+8	+12		V DC
直流供电 DC power supply		500		mA
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

参数Parameter	指标 Value
输入输出接口 Input /Output Connector	2.92 Female
直流偏置 Bias	Solder Pin
尺寸 Size	44mm*36mm*12mm
重量 Weight	30 g

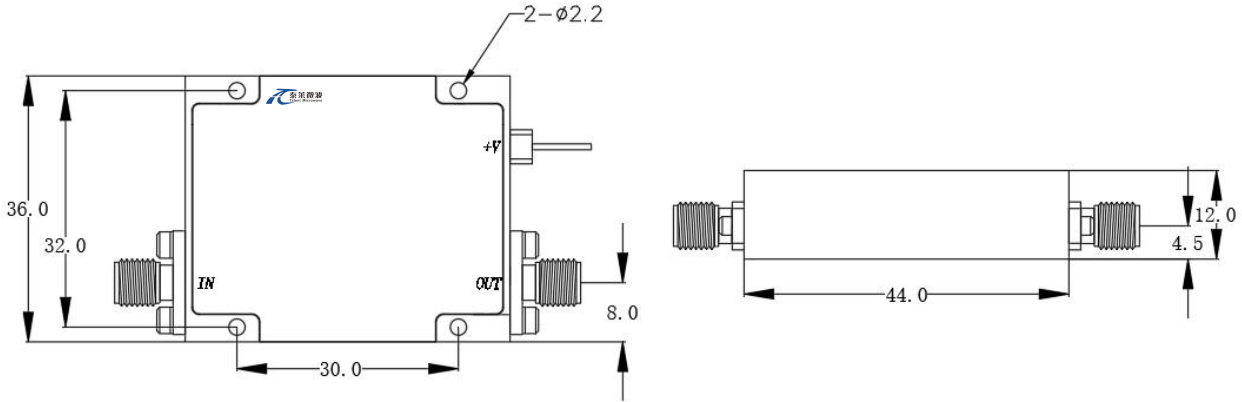

 Available 220V System  
 Benchtop Amplifier

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF INPUT POWER	0 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm(Inches)



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

温度环境 Environmental Conditions:

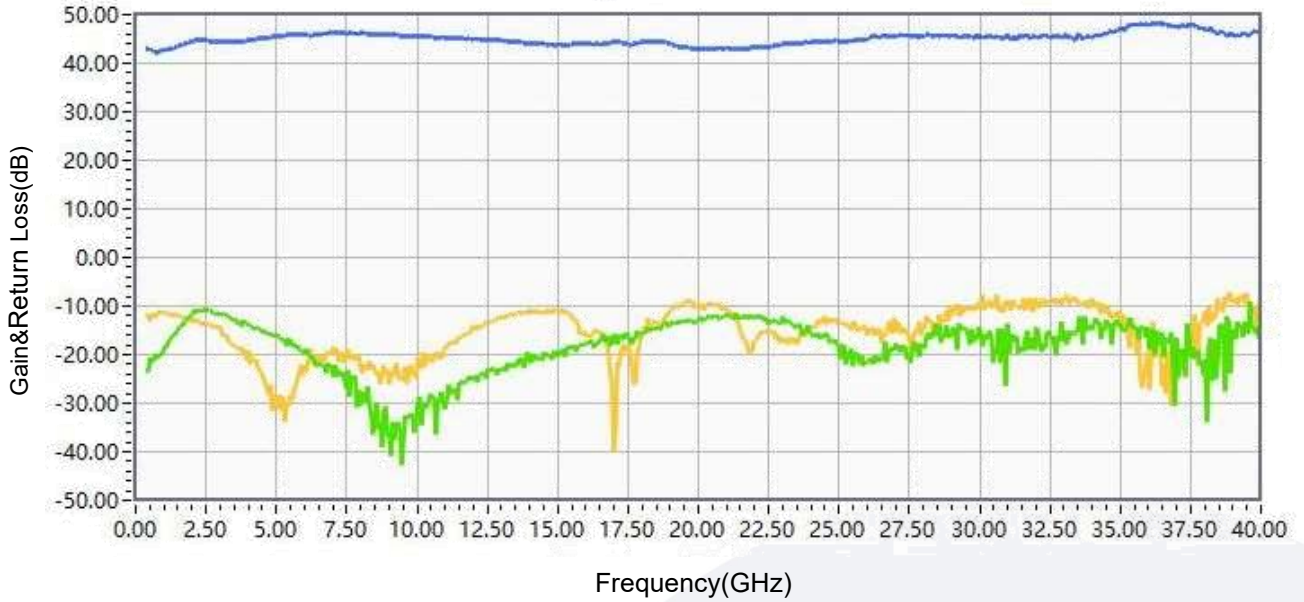
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	100% RH at 35c,95%RH at 40°C			
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

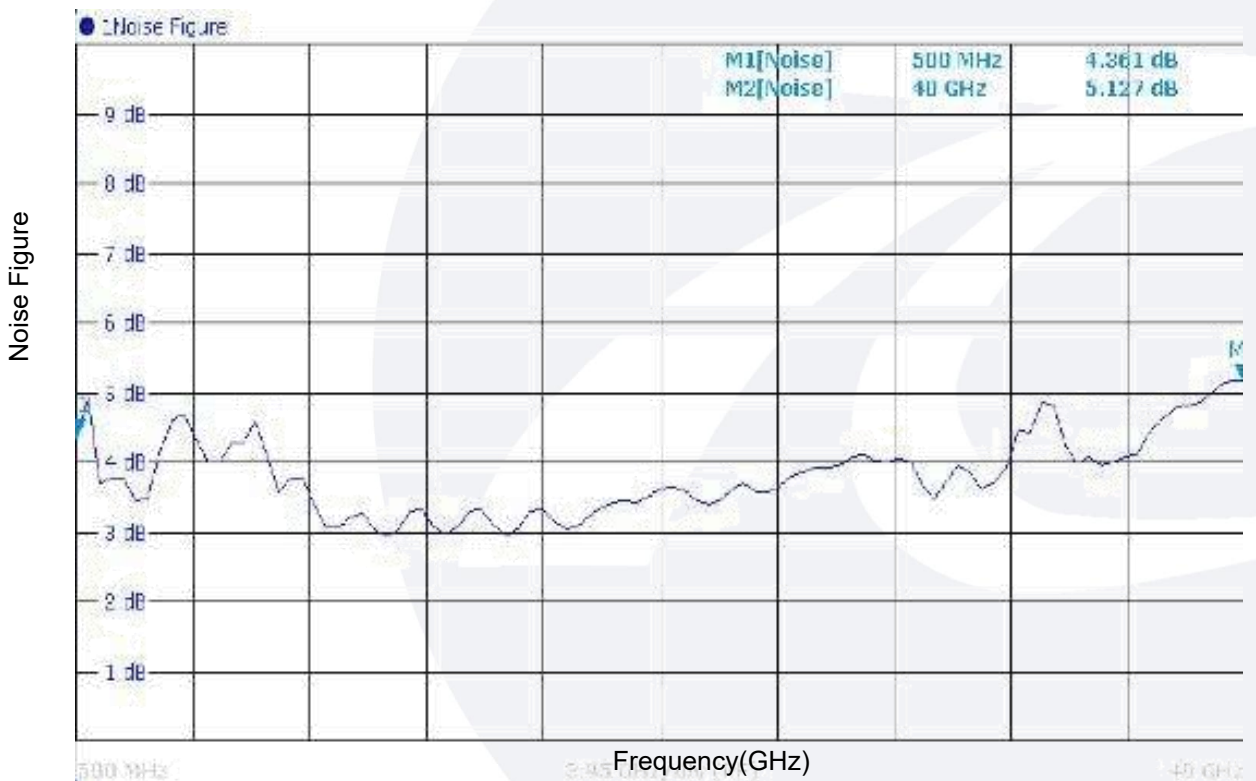
标准型号 Part Number	描述 Description	版本号Revision
TLLA1G40G-40-50	Low Noise Amplifier,1-40GHz,Noise Figure:5.0dB, Gain:43 dB,P1dB:18dBm,8~12V DC,Without Heatsink	Rev.1.1
TLLA1G40G-40-50-HS	Low Noise Amplifier,1-40GHz,Noise Figure:5.0dB, Gain:43 dB,P1dB:18dBm,8~12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

Gain&Return Loss VS Frequency

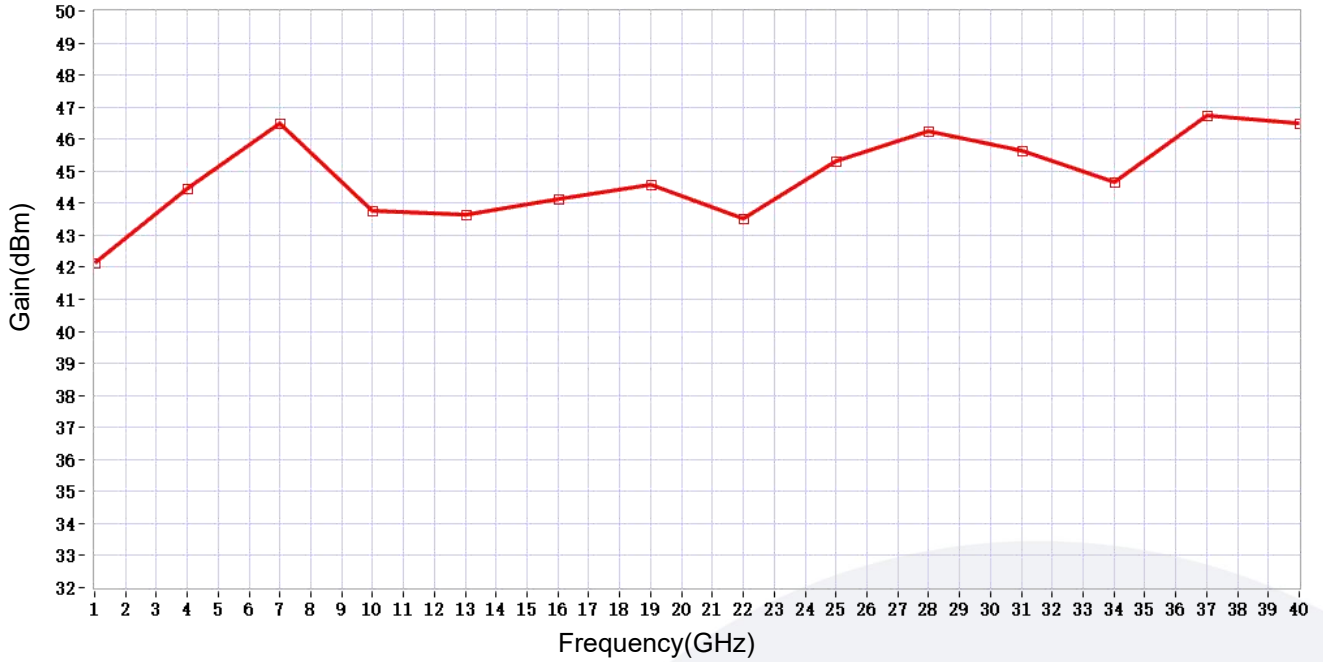


Noise Figure VS Frequency

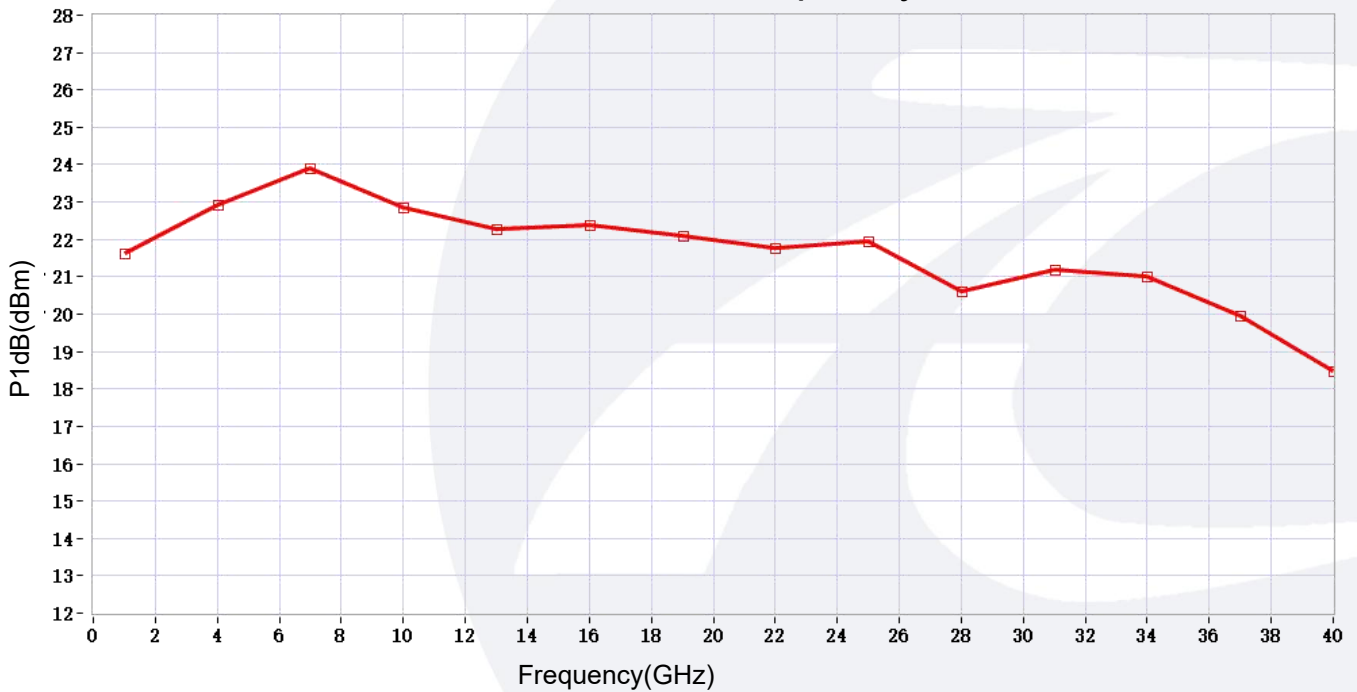


典型曲线 Typical Performance Data:

Gain vs Frequency



P1dB vs Frequency



典型曲线 Typical Performance Data:

### Gain & VSWR vs Frequency

