

**Model:TLLA0.8G21G-26-30**
**L-Band Low Noise Amplifier**  
**0.8-21GHz, NF:3.0dB, Gain:26dB,P1dB:23dBm**
**Feature:**

- Ultra Wide Band: 0.8-21GHz
- Gain:26dB Typ
- Noise Figure: 3.0dB 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	0.8-21			GHz
增益 Gain	23	26		dB
增益平坦度 Gain Flatness		±2.0	±2.5	dB
噪声系数 Noise Figure		3.0	5.5	dB
线性输出功率P1dB		23		dBm
三阶交调 IP3		36		dBm
输入驻波 Input VSWR		1.8	2.0	: 1
输出驻波 Output VSWR		1.8	2.0	: 1
直流电压 DC Voltage		+12	+15	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	2.92mm Female
直流偏置 Bias	Solder Pin
尺寸 Size	44.8mm*29.2mm*11mm
重量 Weight	/

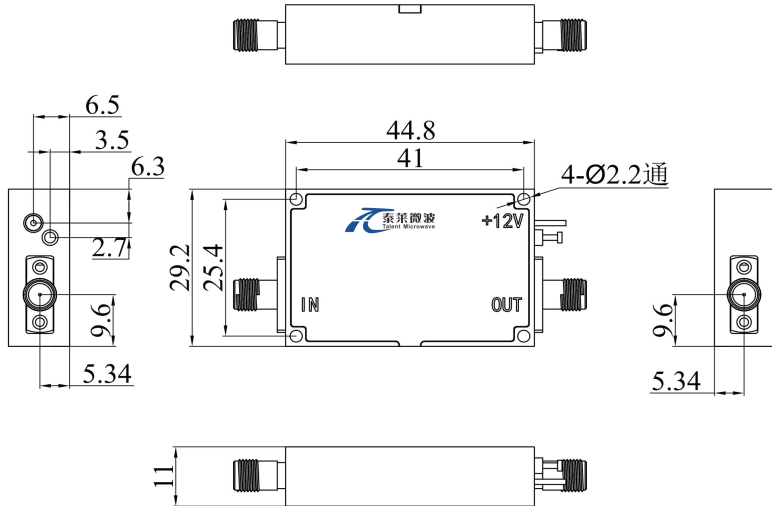

 Available 220V System  
 Benchtop Amplifier

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	15V
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)



**\*\*\*Heat Sink Required During Operation**



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

温度环境 Environmental Conditions:

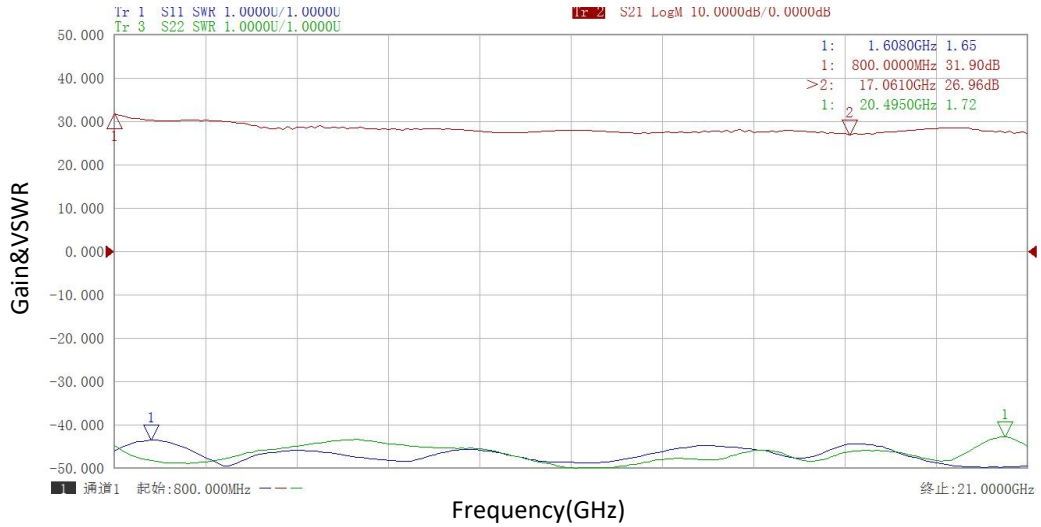
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc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

订货信息 Ordering Information:

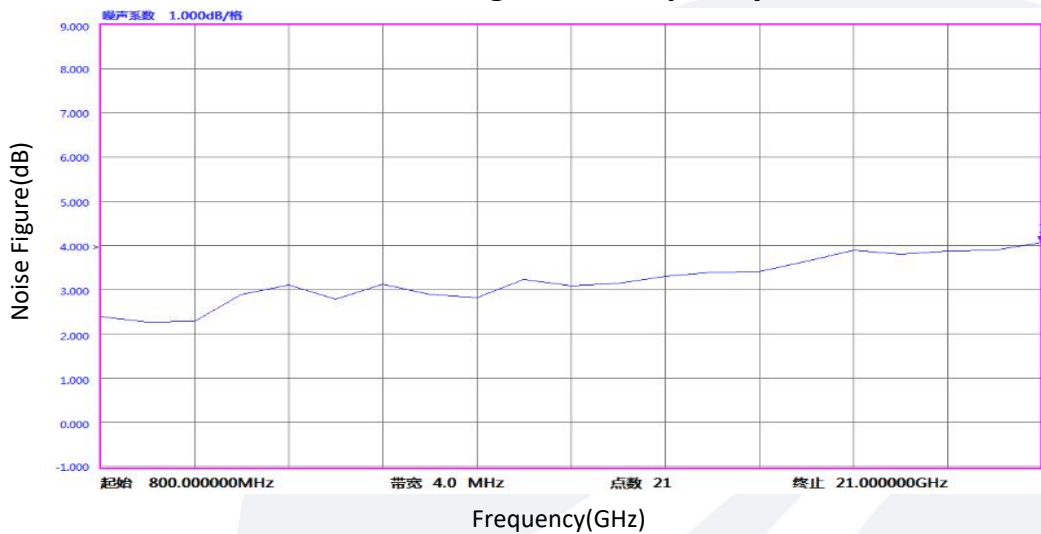
标准型号 Part Number	描述 Description	版本号Revision
TLLA0.8G21G-26-30	Low Noise Amplifier, 0.8-21GHz, Noise Figure:3.0 dB, Gain:26 dB,P1dB:23dBm,12V DC,Without Heatsink	Rev.1.1
TLLA0.8G21G-26-30-HS	Low Noise Amplifier, 0.8-21GHz, Noise Figure:3.0 dB, Gain:26 dB,P1dB:23dBm,12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

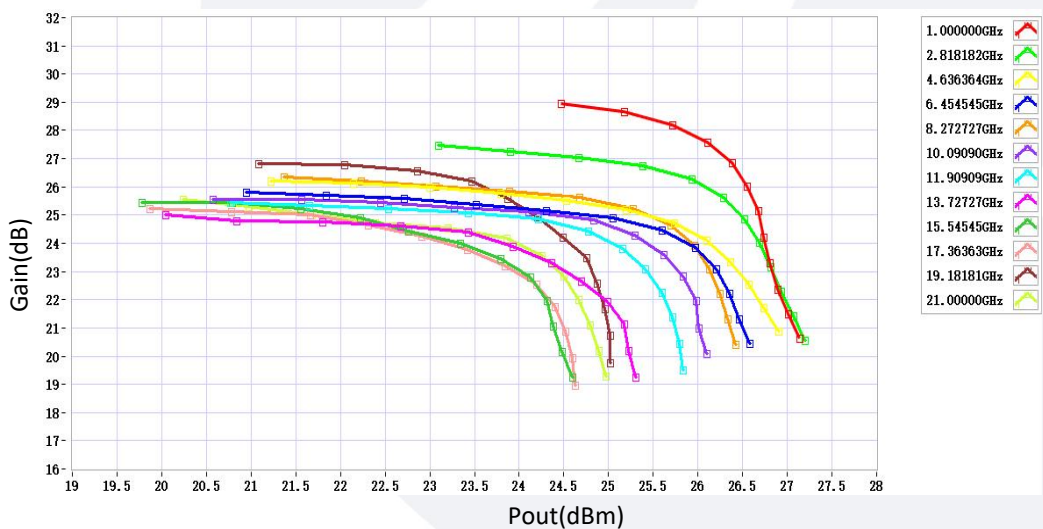
Gain&VSWR vs Frequency



Noise Figure vs Frequency



Gain vs Output Power



典型曲线 Typical Performance Data:

P1dB vs Frequency

