

Model: TLLA2G18G-35-40

Low Noise Amplifier 2-18GHz, NF:2.5dB, Gain:35dB, P1dB:20dBm

Feature:

- Ultra Wide Band: 2-18GHz
- Gain: 35dB Min
- Noise Figure: 2.5dB Max
- Good Power and Gain Flatness
- 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	2-18			GHz
增益 Gain	35	40		dB
增益平坦度 Gain Flatness		±2		dB
输入功率 Input Power			15	dBm
噪声系数 Noise Figure		1.5	2.5	dB
线性输出功率 P1dB	18	20		dBm
输入驻波 Input VSWR			2.0	:1
输出驻波 Output VSWR			2.0	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		180		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	44*36*11	mm
重量 Weight	42	g

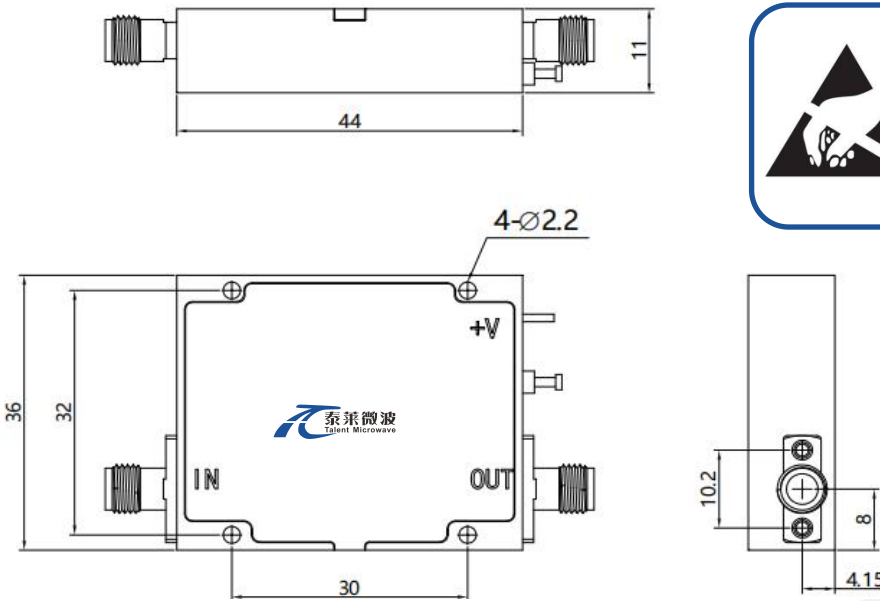


Available 220V System
Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

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

外形尺寸 Outline Drawing:



Unit: mm

温度环境 Environmental Conditions:

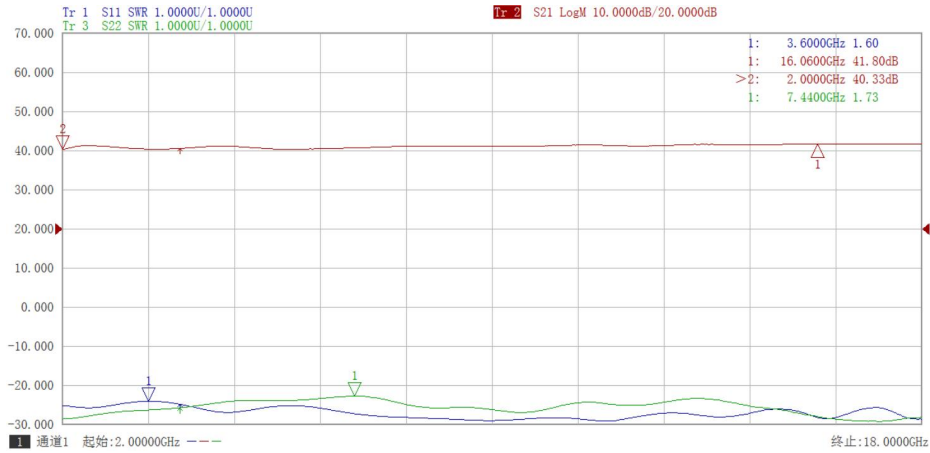
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

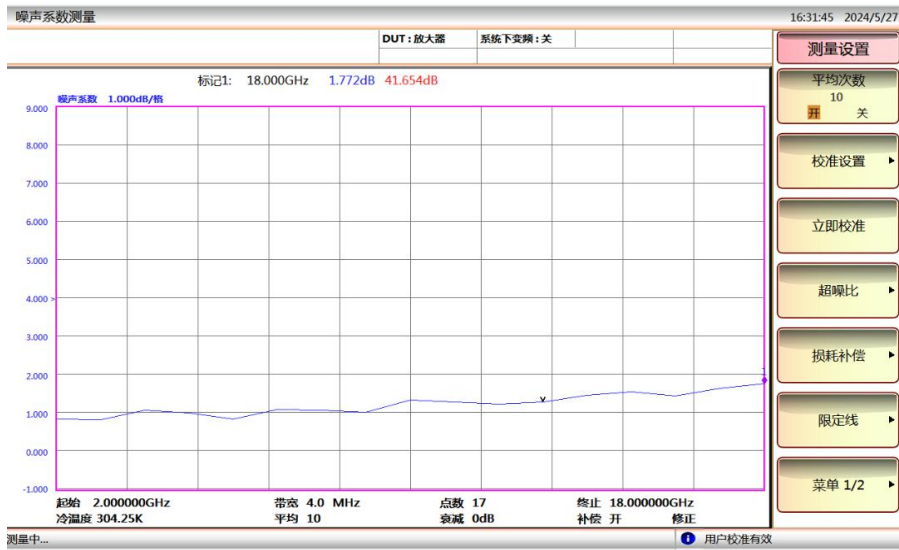
标准型号 Part Number	描述 Description	版本号Revision
TLLA2G18G-35-40	Low Noise Amplifier, 2-18GHz, Noise Figure:2.5dB, Gain:35dB,P1dB:20dBm,12V DC,Without Heatsink	Rev.1.1

典型曲线 Typical Performance

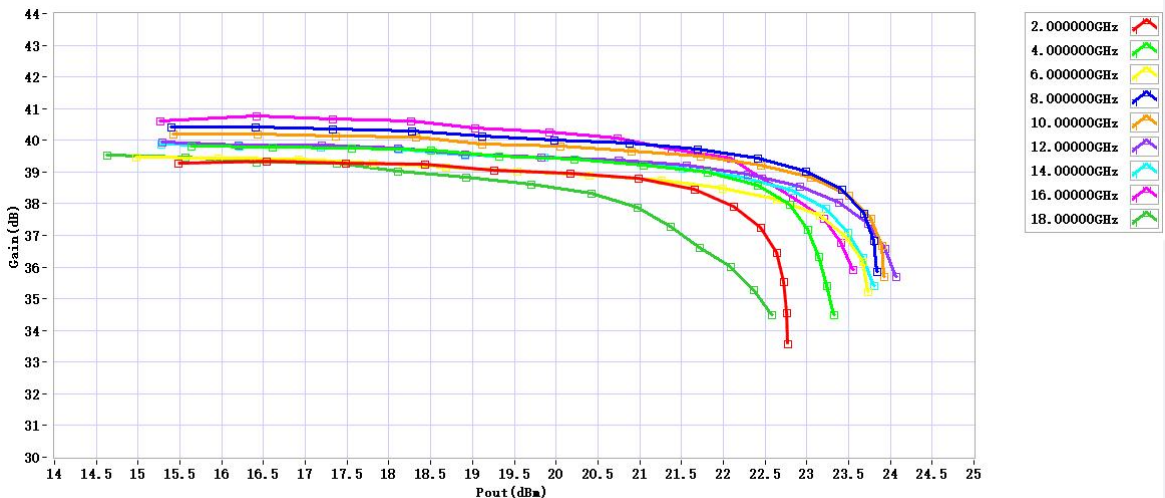
Gain&VSWR vs Frequency



Noise Figure vs Frequency

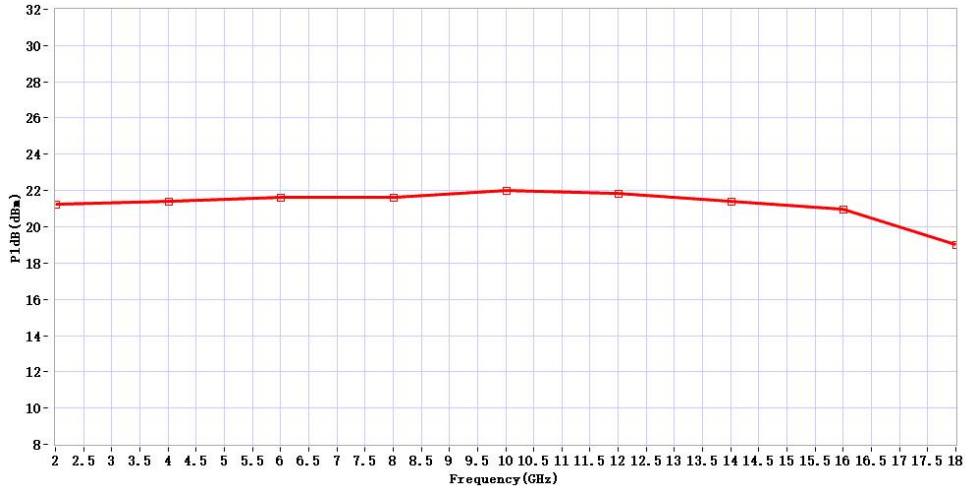


Gain vs Output Power

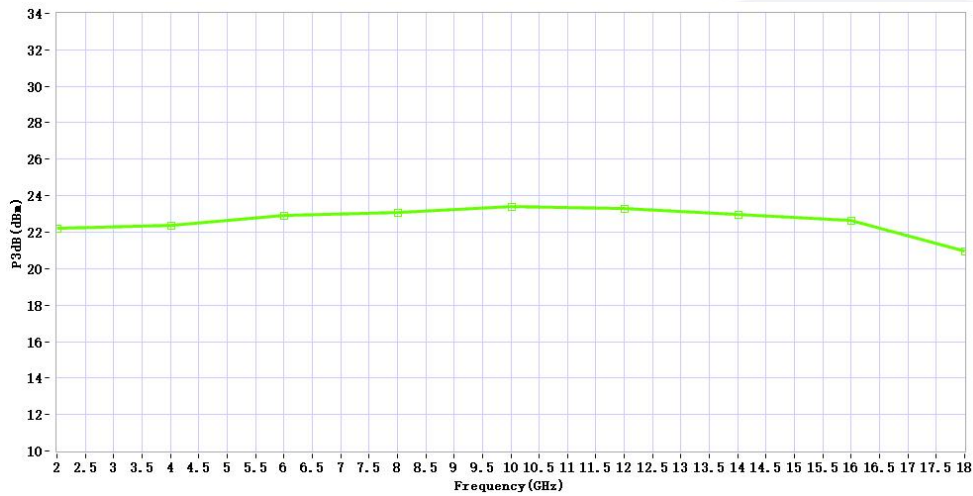


典型曲线 Typical Performance

P1dB vs Frequency



P3dB vs Frequency



2nd Harmonic(dBc) vs. Output Power

