

Model: TLLA40G50G-40-28

Low Noise Amplifier 40-50GHz, NF:2.8dB, Gain:40 dB, P1dB:20dBm

Feature:

- Ultra Wide Band: 40-50GHz
- Gain: 40dB Typ
- Noise Figure: 2.8dB Typ
- 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	40-50			GHz
增益 Gain		40		dB
增益平坦度 Gain Flatness		±2		dB
噪声系数 Noise Figure		2.8	3.0	dB
线性输出功率 P1dB		20		dBm
输入驻波 Input VSWR			2.2	:1
输出驻波 Output VSWR			2.2	:1
直流电压 DC Voltage	+8	+12	+20	V DC
直流电流 DC Supply Current		110		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	2.4mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	50*30*11	mm
重量 Weight	55	g

绝对最大值 Absolute Maximum Ratings:

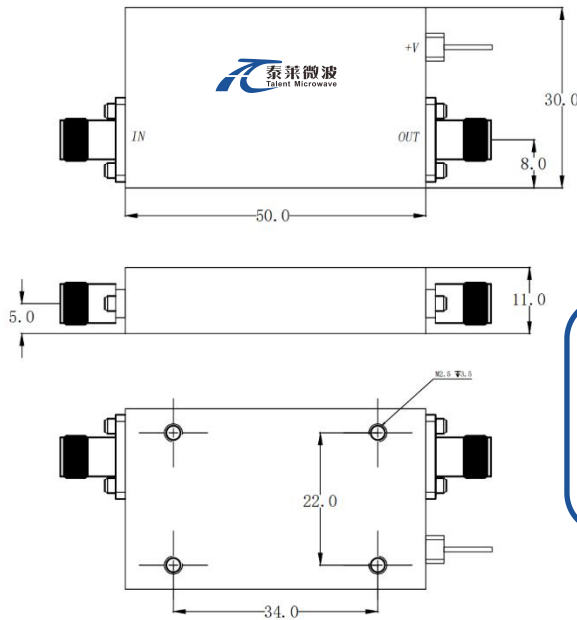
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+20V max
输入功率 RF INPUT POWER	+15 dBm max
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

外形尺寸 Outline Drawing:

Unit: mm(Inches)



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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

温度环境 Environmental Conditions:

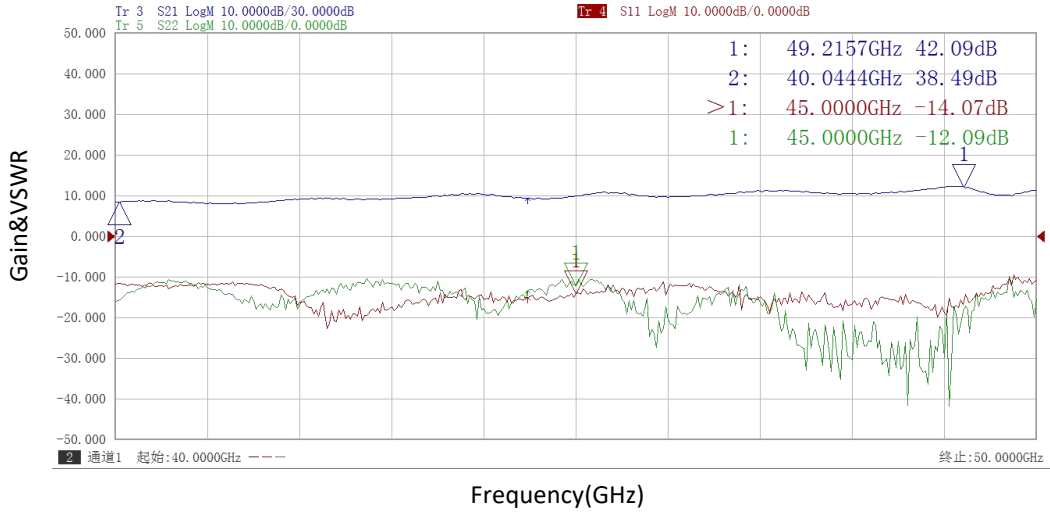
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc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

订货信息 Ordering Information:

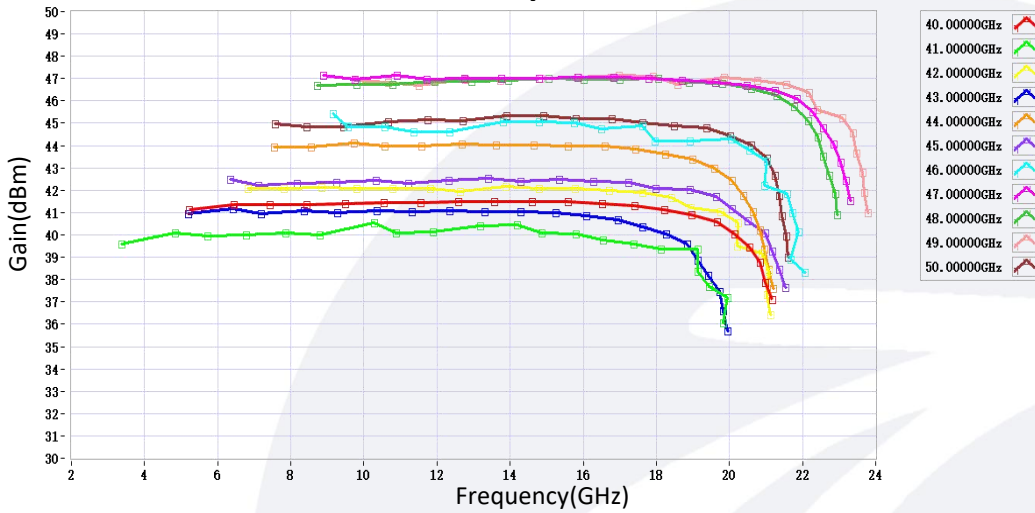
标准型号 Part Number	描述 Description	版本号Revision
TLLA40G50G-40-28	Low Noise Amplifier, 40-50GHz, Noise Figure:2.8 dB, Gain:40 dB,P1dB:20dBm,12V DC,Without Heatsink	Rev.1.1
TLLA40G50G-40-28-HS	Low Noise Amplifier, 40-50GHz, Noise Figure:2.8 dB, Gain:40 dB,P1dB:20dBm,12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

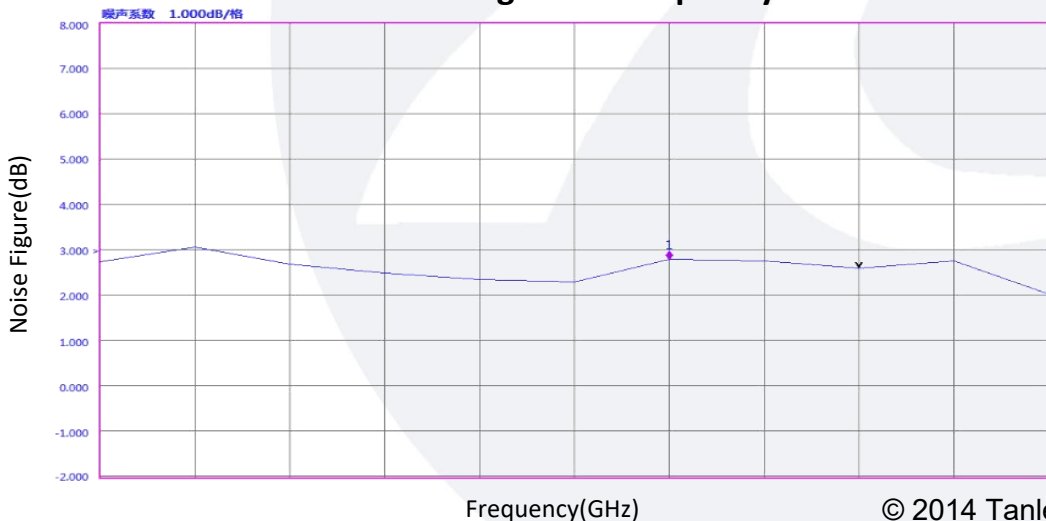
Gain&VSWR vs Frequency



Gain vs Output Power

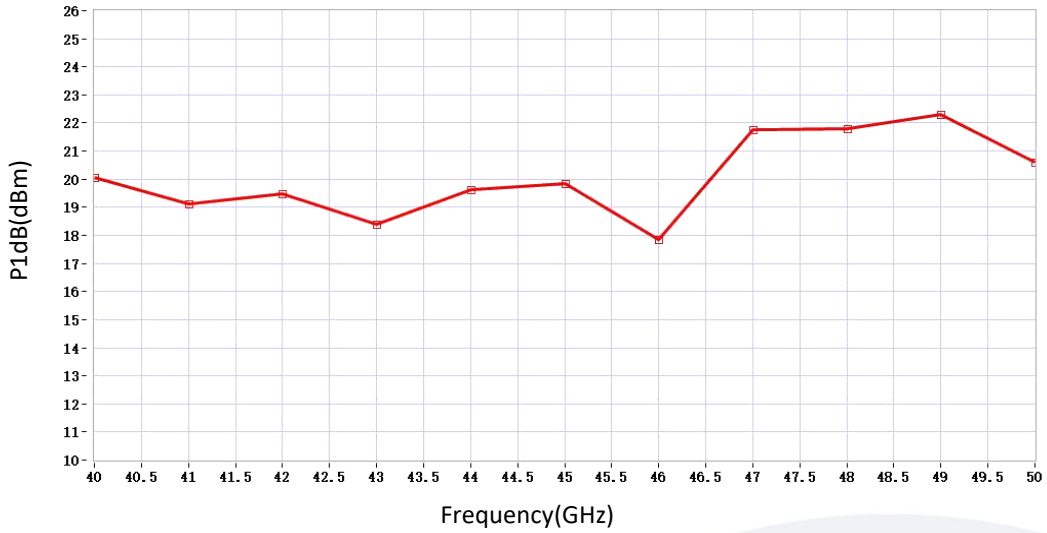


Noise Figure vs Frequency



典型曲线 Typical Performance Data:

P1dB vs Frequency



Current vs Output Power

