

**Model: TLA18G40G-11-25**
**Low Noise Amplifier**
**18-40GHz, NF:2.5dB, Gain:11dB, P1dB:11dBm**
**Feature:**

- Ultra Wide Band: 18-40GHz
- Gain: 11dB Min
- Noise Figure: 2.5dB 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	18-40			GHz
增益 Gain		11		dB
增益平坦度 Gain Flatness		±2.0		dB
噪声系数 Noise Figure		2.5	3.0	dB
线性输出功率P1dB	10	11		dBm
最大输入功率 Max Input Power	+10			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
直流电流 DC Supply Current	30			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	2.92 Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	28*16*20	mm
重量 Weight	/	g

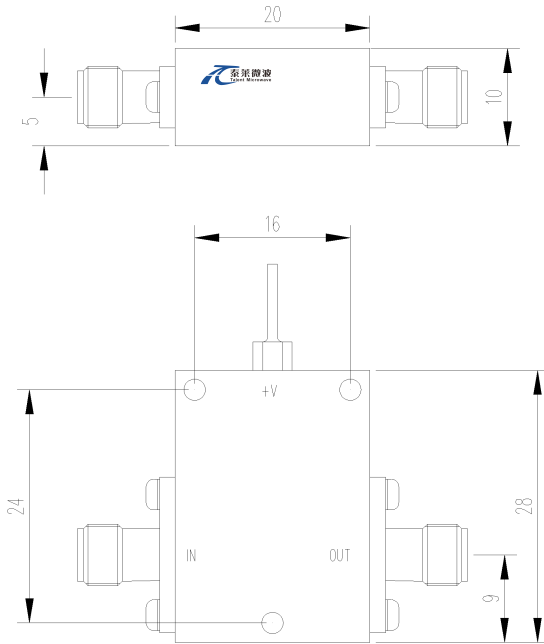

 Available 220V System  
 Benchtop Amplifier

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12V max
输入功率 RF INPUT POWER	10 dBm max
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**外形尺寸 Outline Drawing:**

Unit: mm(Inches)



**温度环境 Environmental Conditions:**

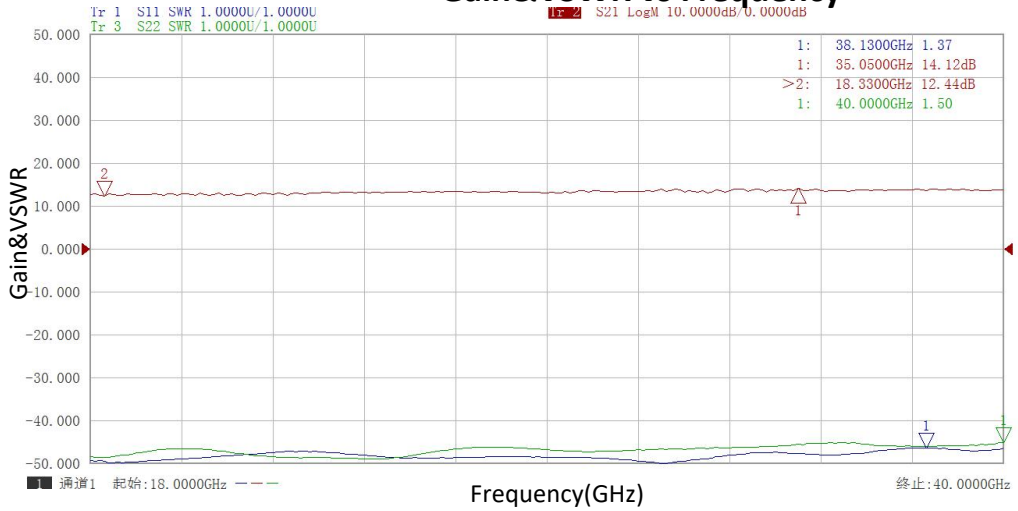
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000		30000	feet
震动 Shock / Vibration(MIL-STD-810F)		Airborne		
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**订货信息 Ordering Information:**

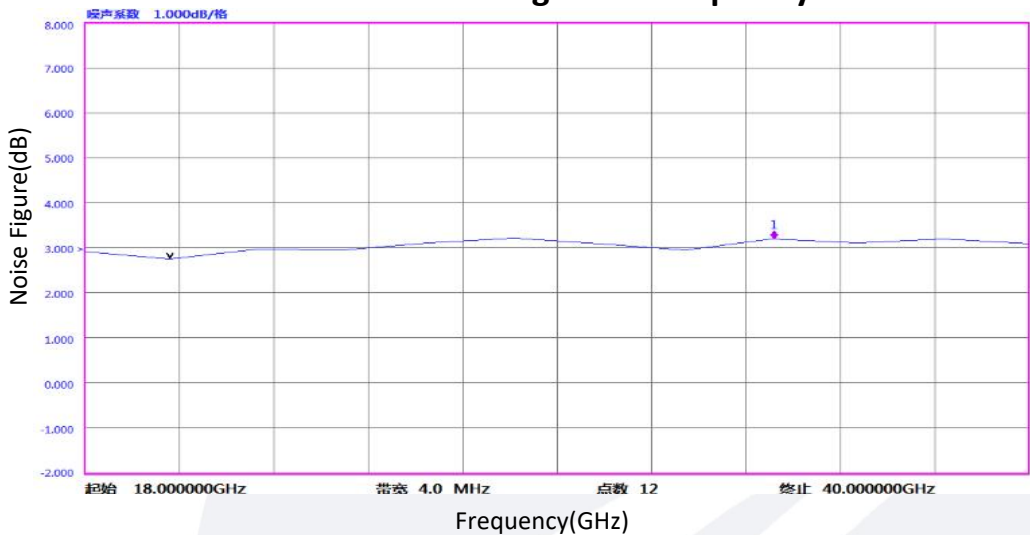
标准型号 Part Number	描述 Description	版本号Revision
TLLA18G40G-11-25	Low Noise Amplifier, 18-40GHz, Noise Figure:2.5 dB, Gain:11 dB,P1dB:11dBm,12V DC,Without Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

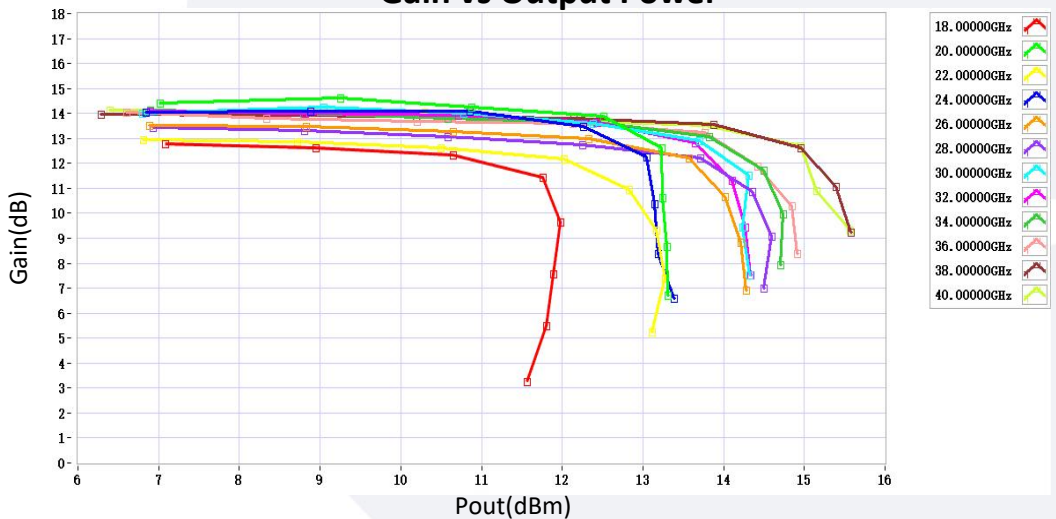
Gain&VSWR vs Frequency



Noise Figure vs Frequency

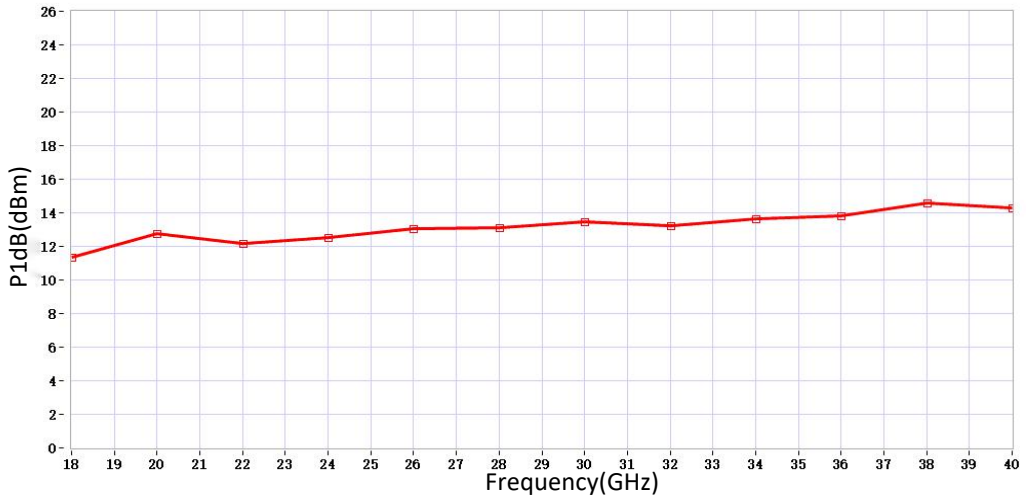


Gain vs Output Power

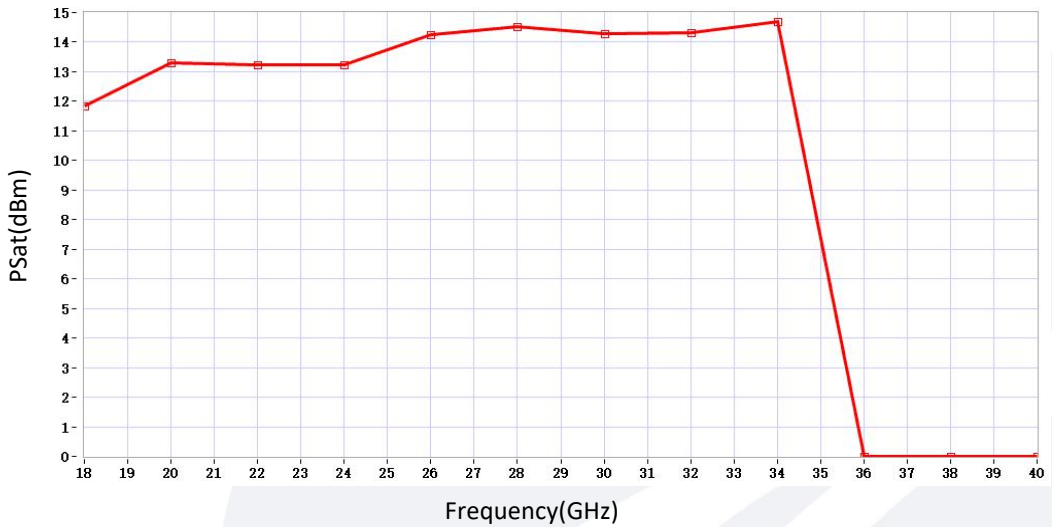


典型曲线 Typical Performance Data:

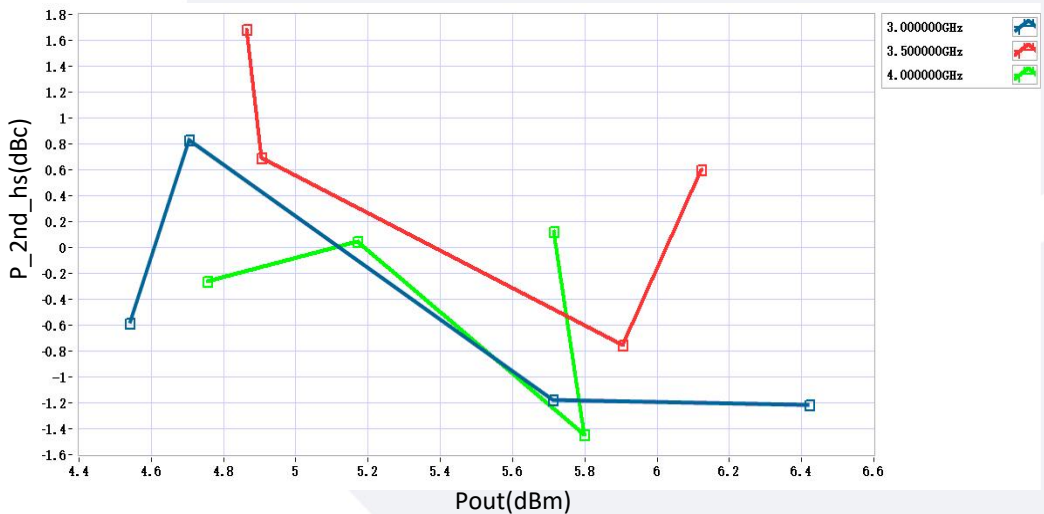
**P1dB vs Frequency**



**PSat vs Frequency**

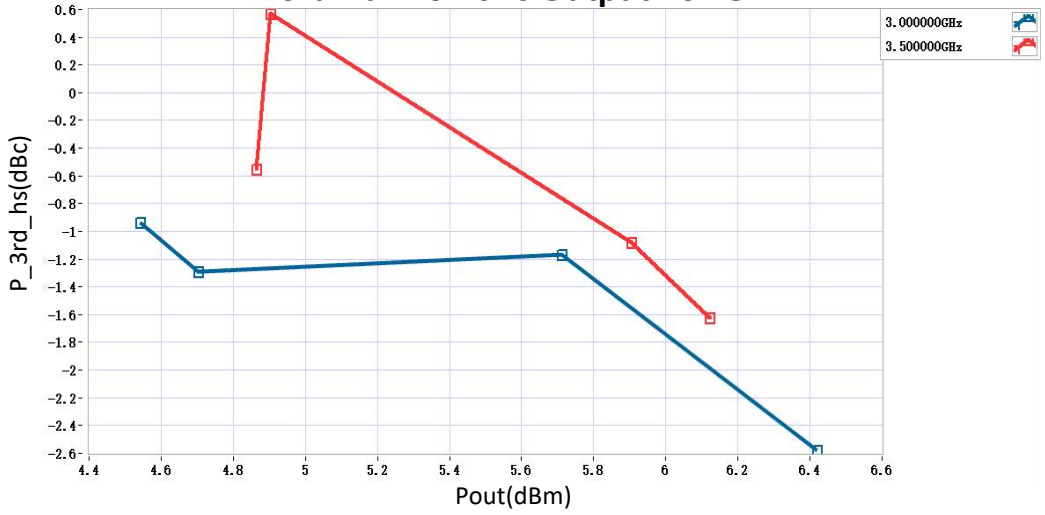


**2nd Harmonic vs Output Power**



典型曲线 Typical Performance Data:

3rd Harmonic vs Output Power



Current vs Output Power

