

**Model:TLLA8G12G-32-15**
**Low Noise Amplifier**
**8-12GHz, NF:1.5 dB, Gain:32 dB,P1dB:15dBm**
**Feature:**

- Ultra Wide Band: 8-12 GHz
- Gain: 32dB Min
- Noise Figure: 1.5dB
- 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	8-12			GHz
增益 Gain	32			
增益平坦度 Gain Flatness			±1.5	
噪声系数 Noise Figure			1.5	dB
线性输出功率P1dB	15			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	+15	V DC
直流电流 DC Supply Current		100		mA
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

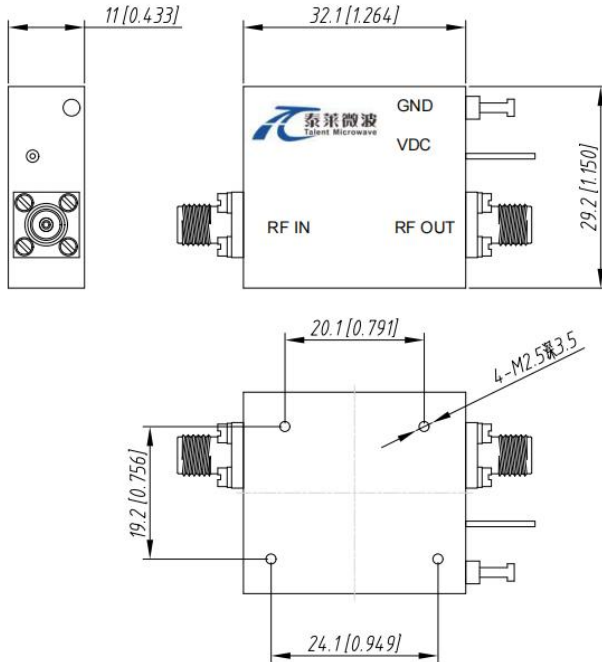
参数Parameter	指标 Value	单位Units
输入输出接口Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	32.1*29.2*11	mm
重量 Weight	300	g

**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	+15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**外形尺寸 Outline Drawing:**

Unit: mm



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



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**温度环境 Environmental Conditions:**

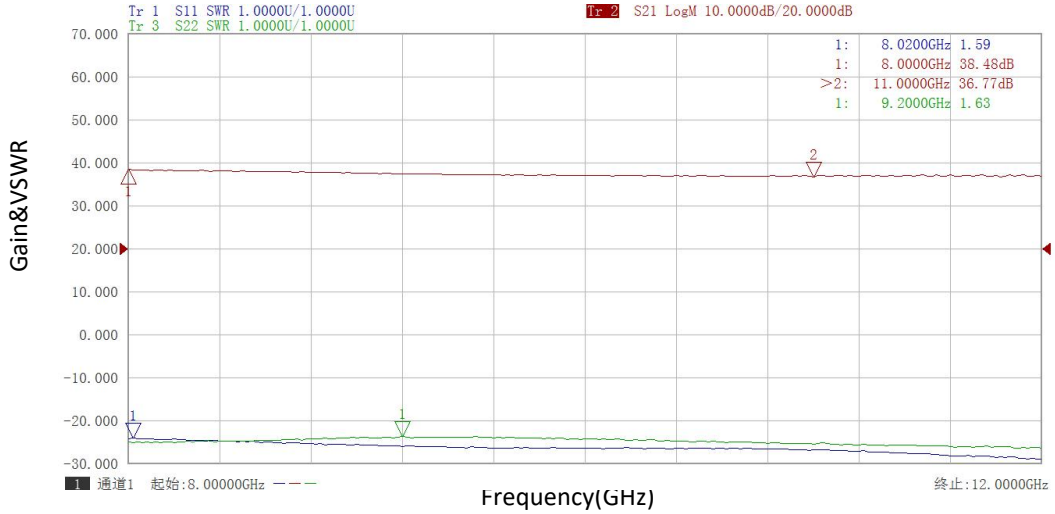
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-55		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	100% RH at 35c, 95%RH at 40°C			%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non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

**订货信息 Ordering Information:**

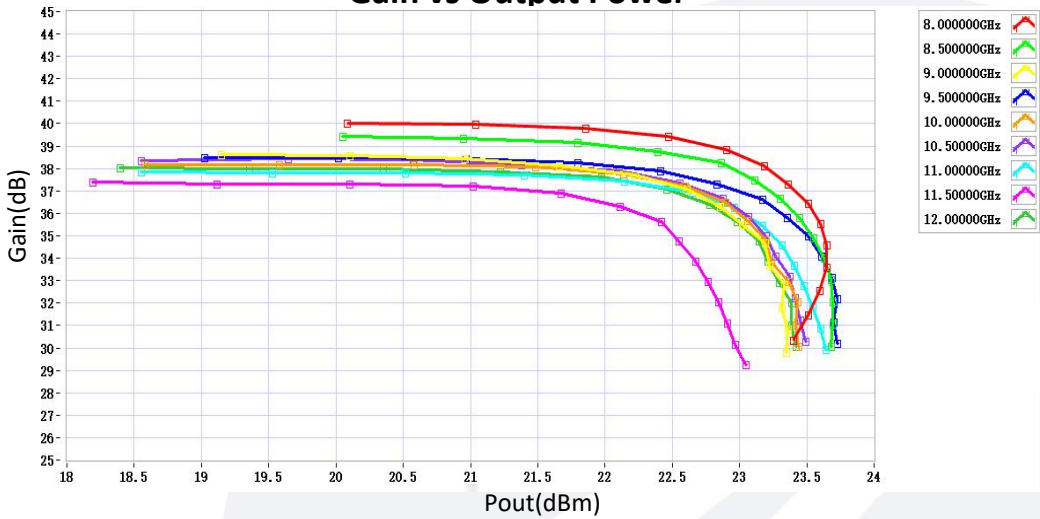
标准型号 Part Number	描述 Description	版本号Revision
TLLA8G12G-32-15	Low Noise Amplifier, 8-12GHz, Noise Figure:1.5dB, Gain:32dB,P1dB:15dBm,12V DC,Without Heatsink	Rev.1.1
TLLA8G12G-32-15-HS	Low Noise Amplifier, 8-12GHz, Noise Figure:1.5dB, Gain:32dB,P1dB:15dBm,12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

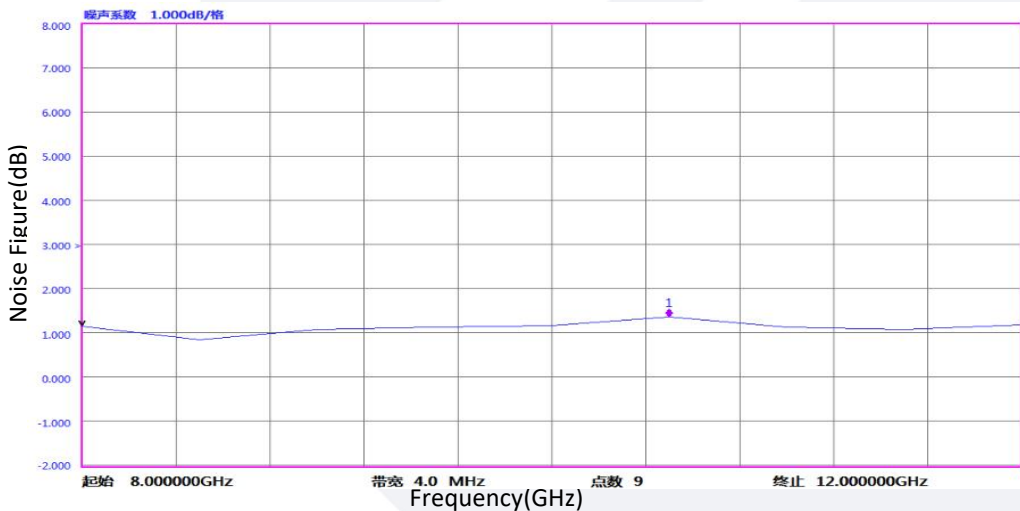
Gain&VSWR vs Frequency



Gain vs Output Power

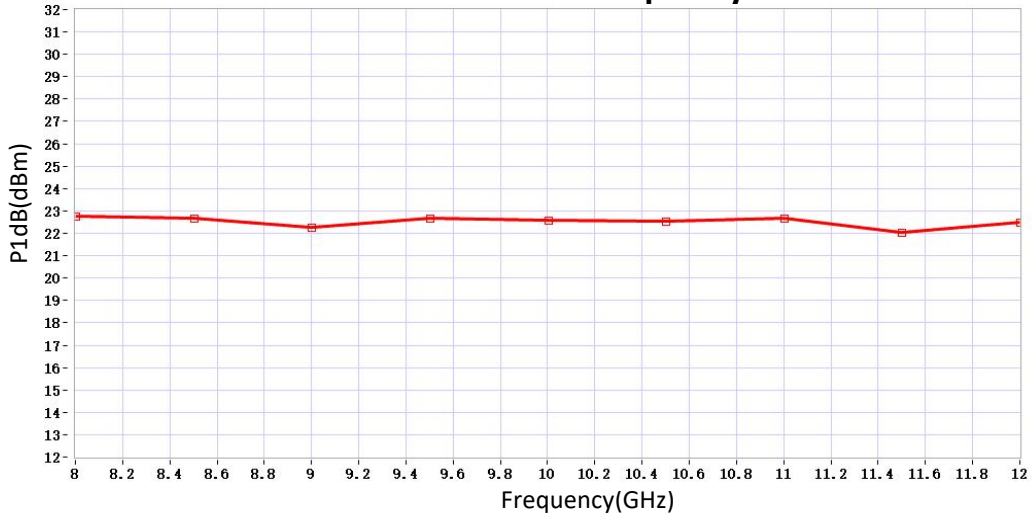


Noise Figure vs Frequency



典型曲线 Typical Performance Data:

**P1dB vs Frequency**



**P3dB vs Frequency**

