

**Model:TLLA35G50G-35-35**
**Low Noise Amplifier**  
**35-50GHz, NF:3.5dB, Gain:35 dB**
**Feature:**

- Ultra Wide Band: 35-50GHz
- Gain:35dB Type
- Noise Figure: 5.0dB 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	35-50			GHz
增益 Gain	30	35		dB
增益平坦度 Gain Flatness		±1.5		dB
噪声系数 Noise Figure		3.5	4.0	dB
线性输出功率P1dB	10	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		V DC
直流供电 DC power supply		130		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	SMA Female
直流偏置 Bias	Solder Pin
尺寸 Size	44.8mm*29.2mm*11mm
重量 Weight	

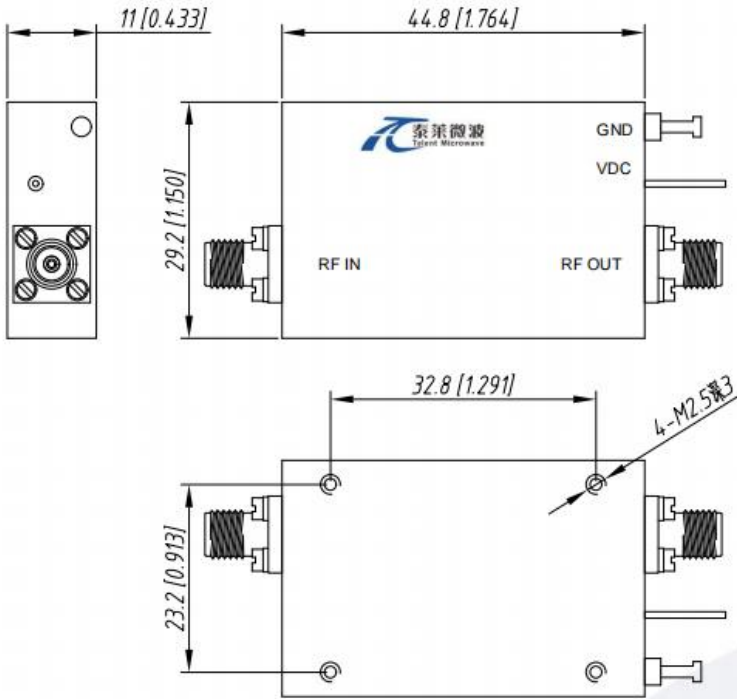

 Available 220V System  
 Benchtop Amplifier

**绝对最大值 Absolute Maximum Ratings:**

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



**温度环境 Environmental Conditions:**

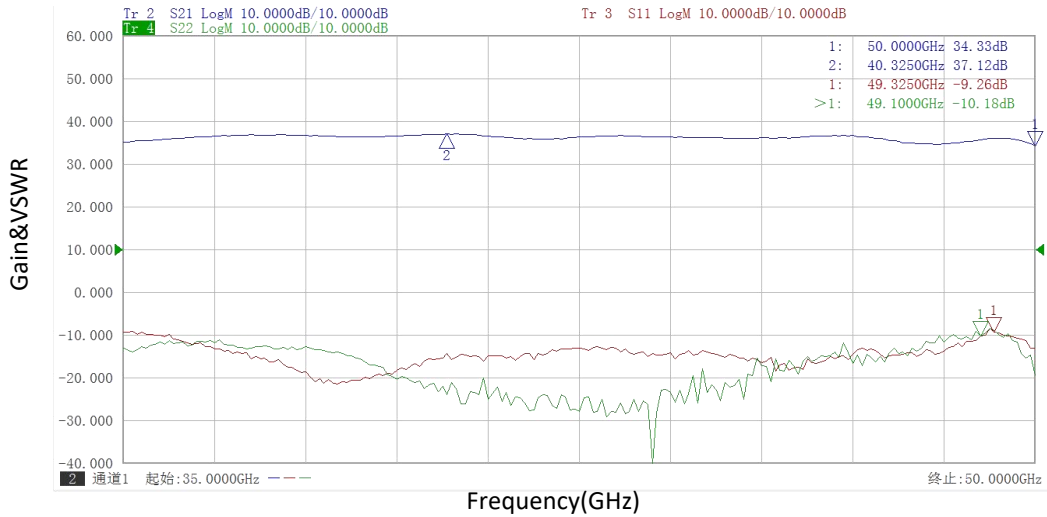
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	100% RH at 35c,95%RH at 40°C			
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**订货信息 Ordering Information:**

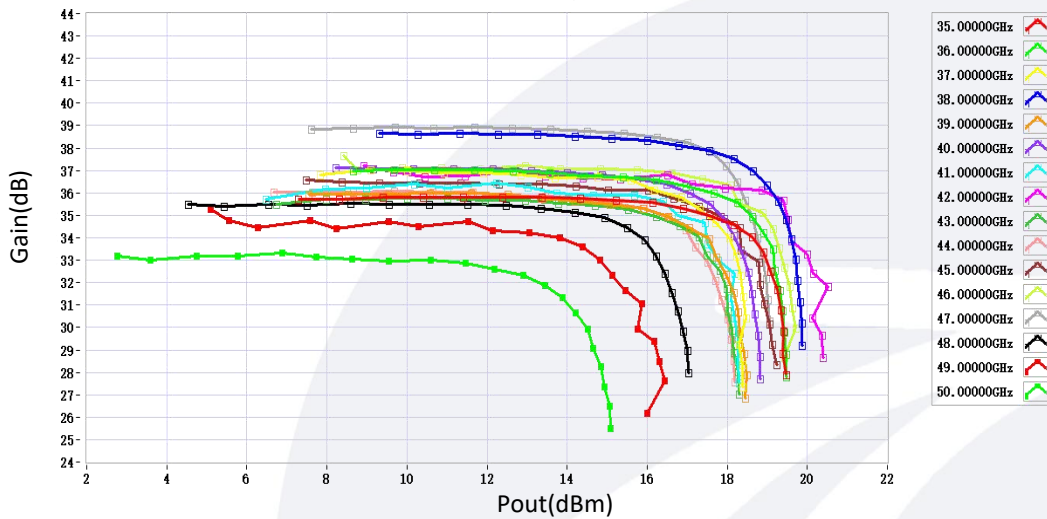
标准型号 Part Number	描述 Description	版本号Revision
TLLA35G50G-35-35	Low Noise Amplifier,35-50GHz,Noise Figure:3.5dB, Gain:35 dB,SMA Female	Rev.1.1

典型曲线 Typical Performance Data:

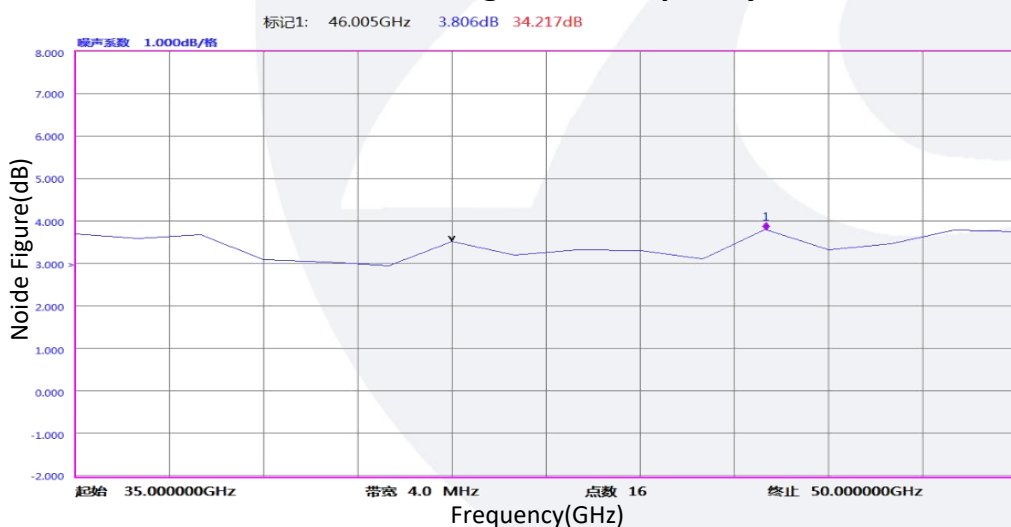
Gain&VSWR vs Frequency



Gain vs Output Power

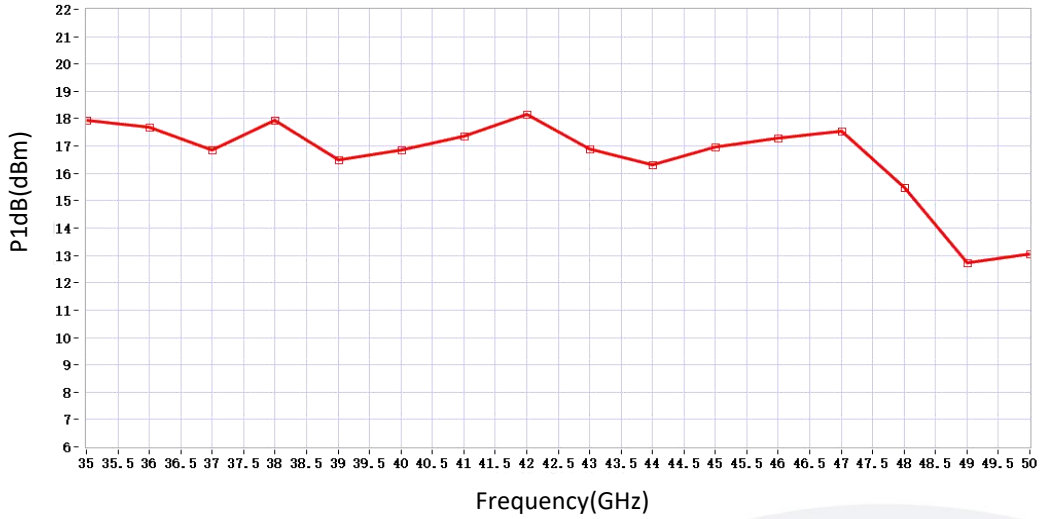


Noise Figure vs Frequency



典型曲线 Typical Performance Data:

**P1dB vs Frequency**



**Current vs Output Power**

