

**Model: TLLA50K50G-33-60**
**Low Noise Amplifier**
**50KHz-50GHz, NF:6dB, Gain:32dB, P1dB:19dBm**
**Feature:**

- Ultra Wide Band: 50KHz-50GHz
- Gain: 32dB Typ
- Noise Figure: 6dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**电气特性 Electrical Specifications:**

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	50KHz-50GHz			GHz
增益 Gain		32		dB
增益平坦度 Gain Flatness		±3.5		dB
噪声系数 Noise Figure		6		dB
线性输出功率P1dB		19		dBm
输入驻波 Input VSWR		1.9		:1
输出驻波 Output VSWR		1.9		:1
直流电压 DC Voltage		12		V DC
直流电流 DC Supply Current		400		mA
阻抗 Impedance	50			Ohms

**机械特性 Mechanical Specifications:**

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 DC Bias	Solder Pin	
尺寸 Size	40*35*12	mm

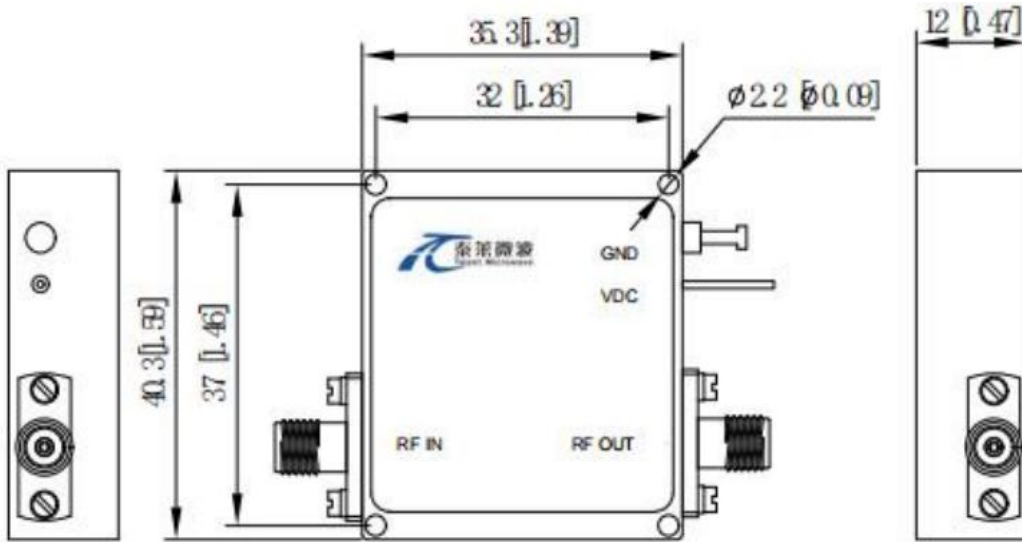
**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	-5 dBm
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)



\*\*\*Heat Sink Required During Operation



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

温度环境 Environmental Conditions:

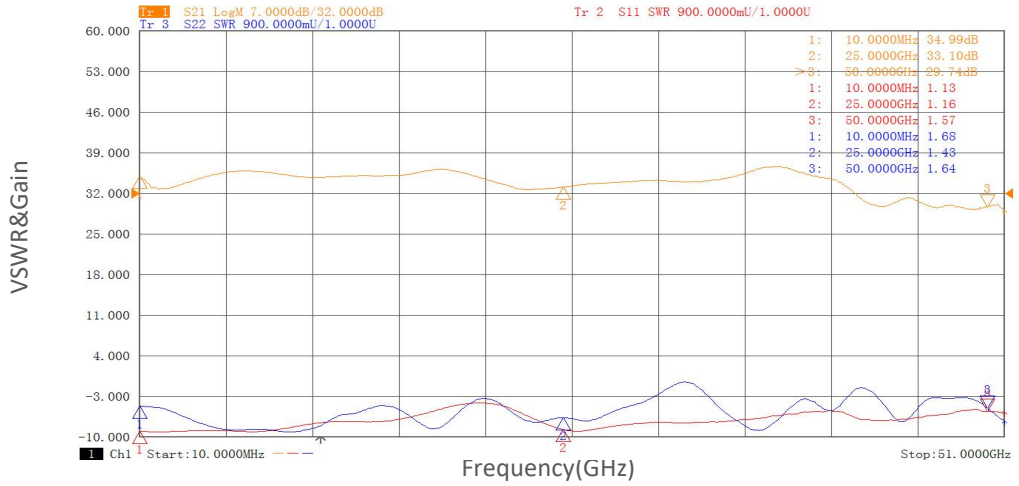
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-40		+75	°C
存储温度 Non-operating Temperature	-55		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

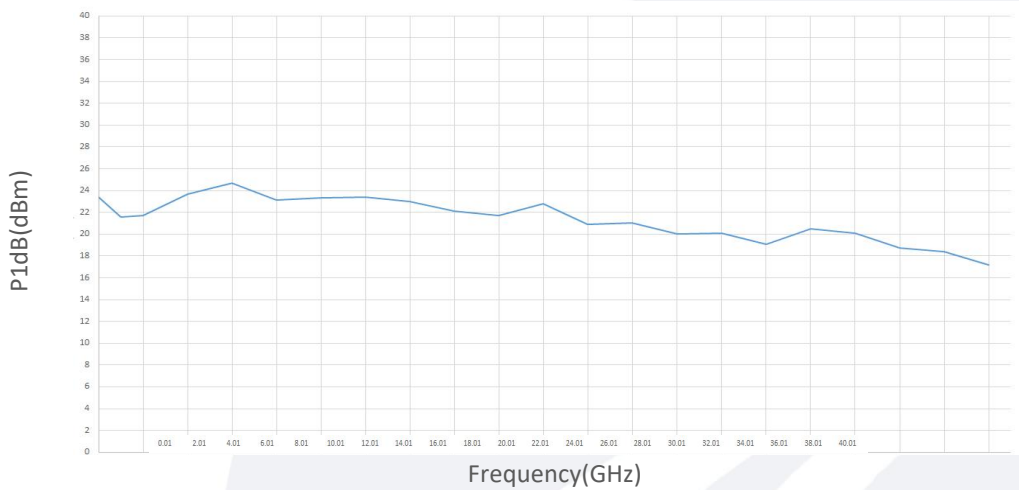
标准型号 Part Number	描述 Description	版本号Revision
TLLA50K50G-33-60	Low Noise Amplifier, 50KHz-50GHz, Noise Figure:6dB, Gain:32 dB,P1dB:19dBm,12V DC,Without Heatsink	Rev.1.1
TLLA50K50G-33-60-HS	Low Noise Amplifier, 50KHz-50GHz, Noise Figure:6dB, Gain:32 dB,P1dB:19dBm,12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

VSWR&Gain vs Frequency



P1dB vs Frequency



Psat vs Frequency

