

Model: TLLA50K43G-30-50
**Low noise amplifier, 2.92mm (f),
50K-43GHz, NF:5.0dB, Gain:30dB Typ**
Feature:

- Ultra Wide Band:50K-43GHz
- Gain: 30dB Typ
- 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 | 50K-43GHz | | | GHz |
| 增益 Gain | 23 | 30 | | dB |
| 噪声系数 Noise Figure | | 5 | | dB |
| 输出功率1dB压缩点 Output P1dB | | 16 | | 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 | | +8 | +12 | V DC |
| 直流供电 DC power supply | 350 | | | mA |
| 阻抗 Impedance | 50 | | | Ohms |

机械特性 Mechanical :

| 参数Parameter | 指标 Value |
|-----------------------|---------------|
| 输入接口 Input Connector | 2.92mm-Female |
| 输出接口 Output Connecto | 2.92mm-Female |
| 供电引脚 Power Supply Pin | Solder Pin |
| 尺寸 Size | / |

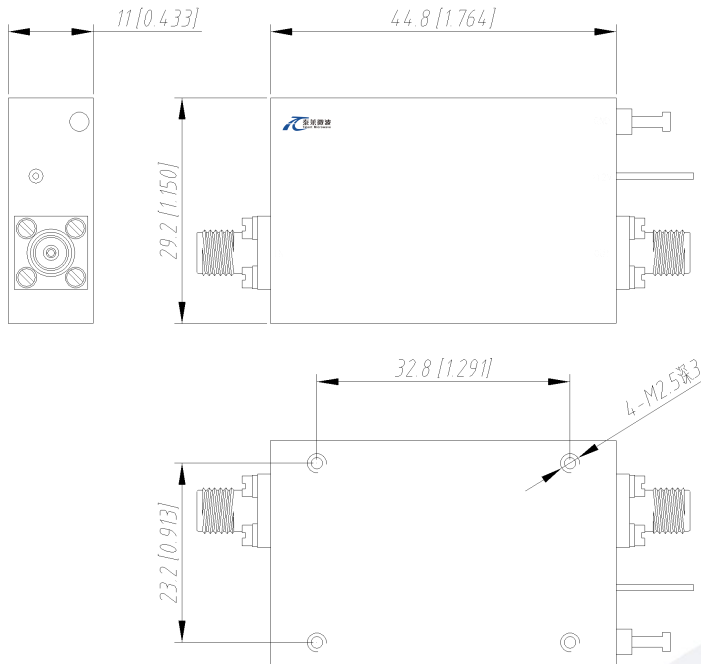

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

| 参数Parameter | 指标 Value |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage | +15 V |
| 输入功率 RF INPUT POWER | +10 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:

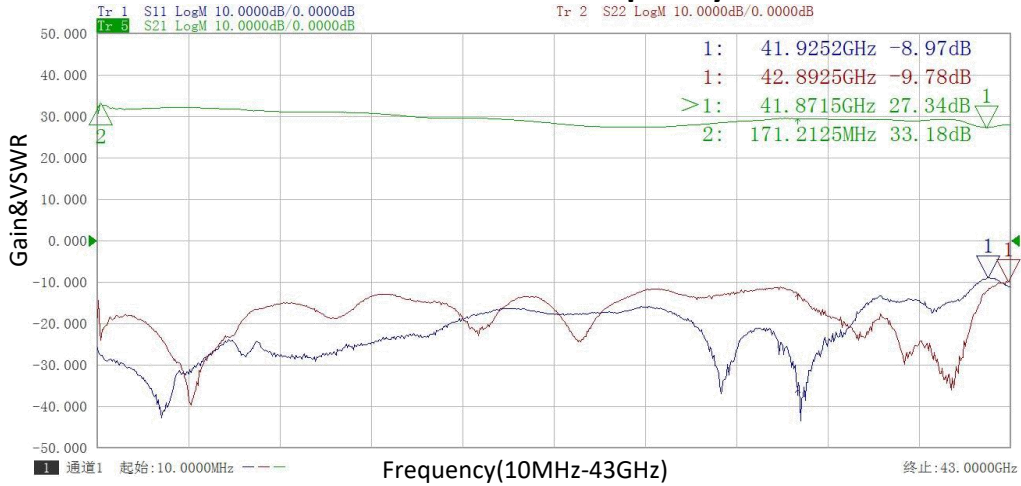
| 参数Parameter | Min. | Typ. | Max. | 单位Units |
|------------------------------------|--|----------|-------|---------|
| 操作温度 Operating Temperature | -40 | | +85 | °C |
| 存储温度 Non-operating Temperature | -55 | | +125 | °C |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 10000 | | 30000 | feet |
| 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:

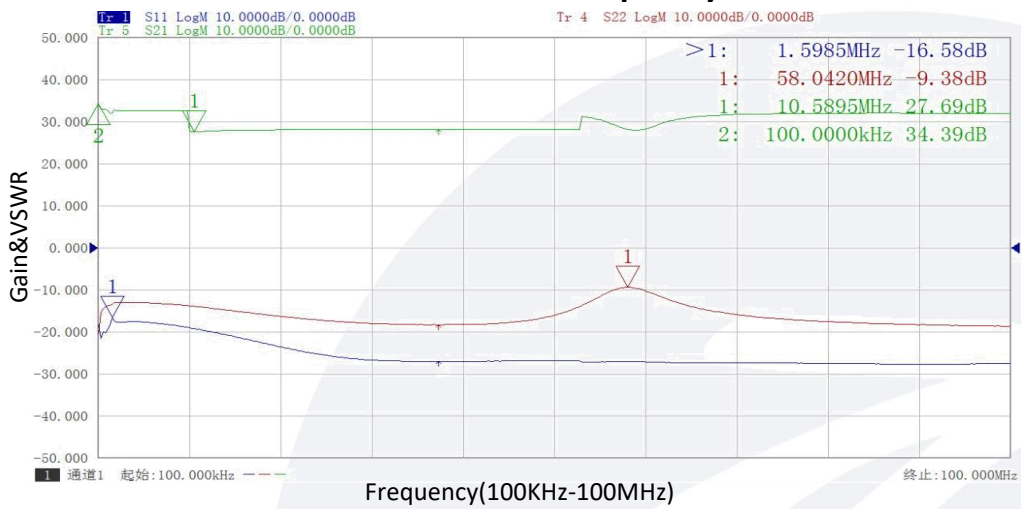
| 标准型号 Part Number | 描述 Description | 版本号Revision |
|------------------|--|-------------|
| TLLA50K43G-25-50 | Low noise amplifier, 2.92mm (f), 50K-43GHz, NF:5.0dB, Gain:30dB Typ | Rev.1.1 |

典型曲线 Typical Performance Data:

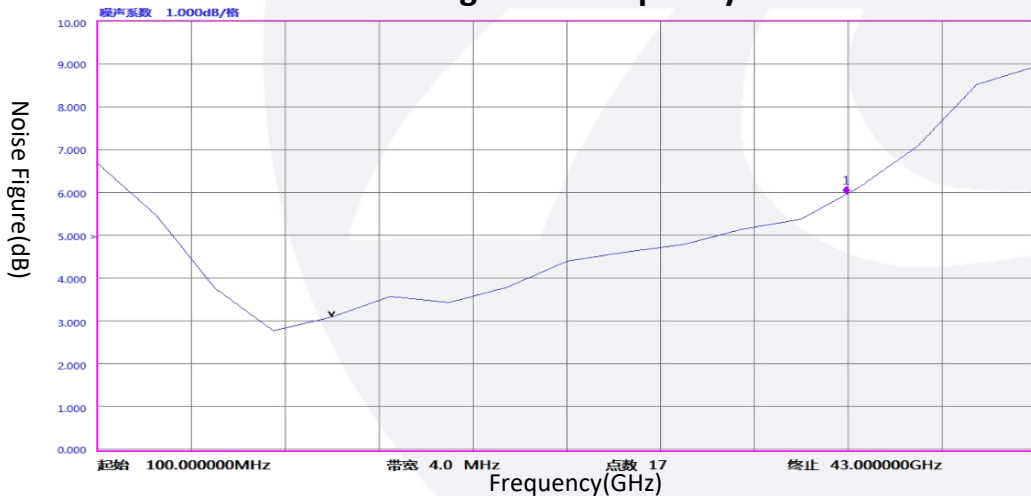
Gain&VSWR vs Frequency



Gain&VSWR vs Frequency



Noise Figure vs Frequency



典型曲线 Typical Performance Data:

P1dB vs Frequency

