

**Model: TLLA18G40G-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       |

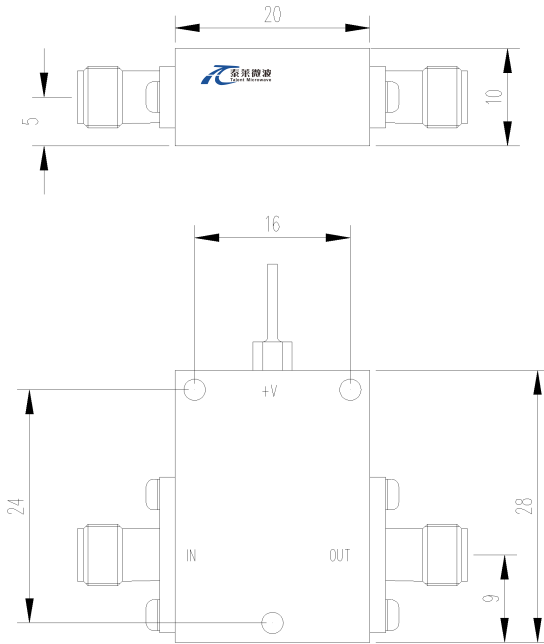

 Available 220V System  
 Benchtop Amplifier

**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:**

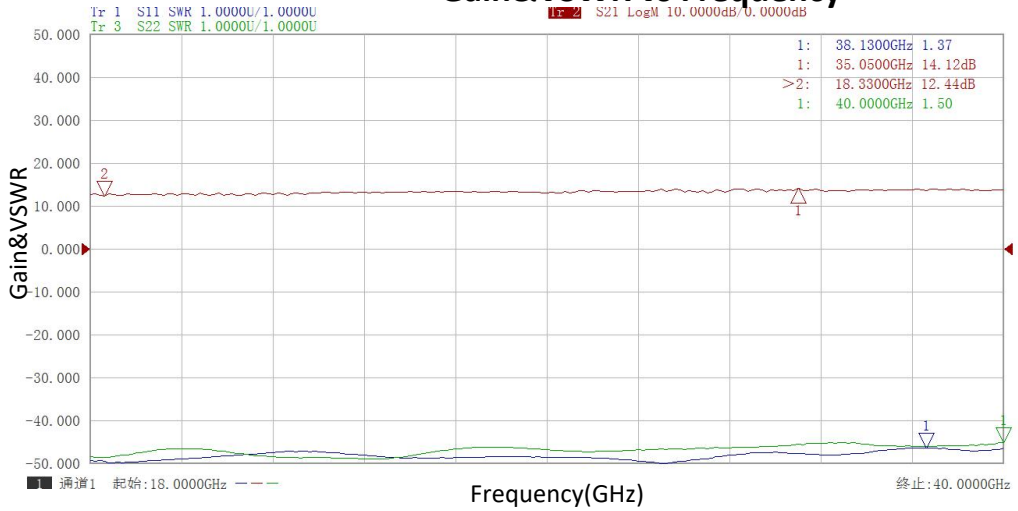
| 参数Parameter                        | Min.   | Typ.     | Max.  | 单位Units |
|------------------------------------|--|----------|-------|---------|
| 操作温度 Operating Temperature         | -40  |          | +85   | °C      |
| 存储温度 Non-operating Temperature     | -55  |          | +125  | °C      |
| 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:**

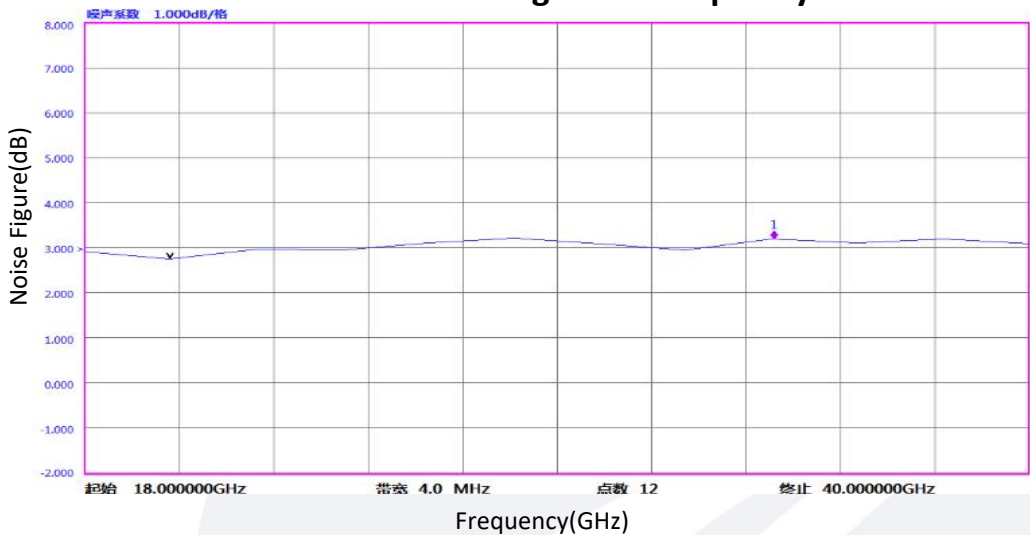
| 标准型号 Part Number | 描述 Description  | 版本号Revision |
|------------------|---|-------------|
| TLLA18G40G-11-25 | Low Noise Amplifier, 18-40GHz, Noise Figure:2.5 dB, Gain:11 dB,P1dB:11dBm,12V DC,Without Heatsink | Rev.1.1     |

典型曲线 Typical Performance Data:

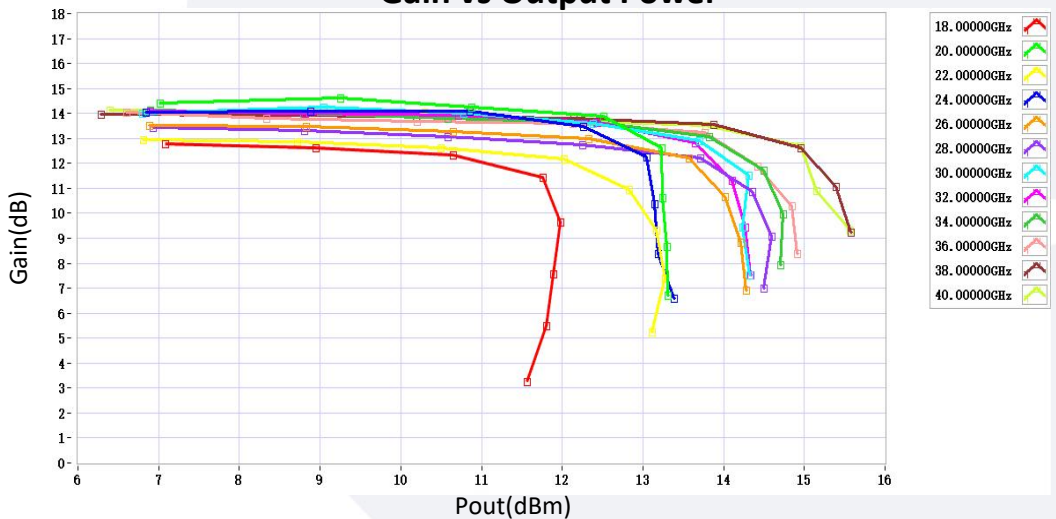
Gain&VSWR vs Frequency



Noise Figure vs Frequency



Gain vs Output Power



典型曲线 Typical Performance Data:

P1dB vs Frequency

