泰莱微波
Talent Microwave

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# Model:TLLA0.5G40G-28-50

## Low Noise Amplifier
## 0.5-40GHz, NF:5.0dB, Gain:28dB,P1dB:17dBm

**Feature:**

- Ultra Wide Band: 0.5-40GHz
- Gain: 28dB Typ
- Noise Figure: 5.0dB 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 | | 0.5-40 | | GHz |
| 增益 Gain | 25 | 28 | | dB |
| 增益平坦度 Gain Flatness | | ±2.0 | ±2.5 | dB |
| 噪声系数 Noise Figure | | 5.0 | | dB |
| 线性输出功率 Output P1dB | | 17 | | dBm |
| 输出三阶交调 Output IP3 | | 30 | | dBm |
| 输入驻波 Input VSWR | | 1.8 | 2.5 | :1 |
| 输出驻波 Output VSWR | | 1.8 | 2.5 | :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 | 2.92mm Female/2.92mm Female | |
| 直流偏置 DC Bias | Solder Pin | |
| 尺寸 Size | 48*30*12(Without Heatsink)<br>92*30*27(With Heatsink 92*30*15) | mm |
| 重量 Weight | / | g |

## 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

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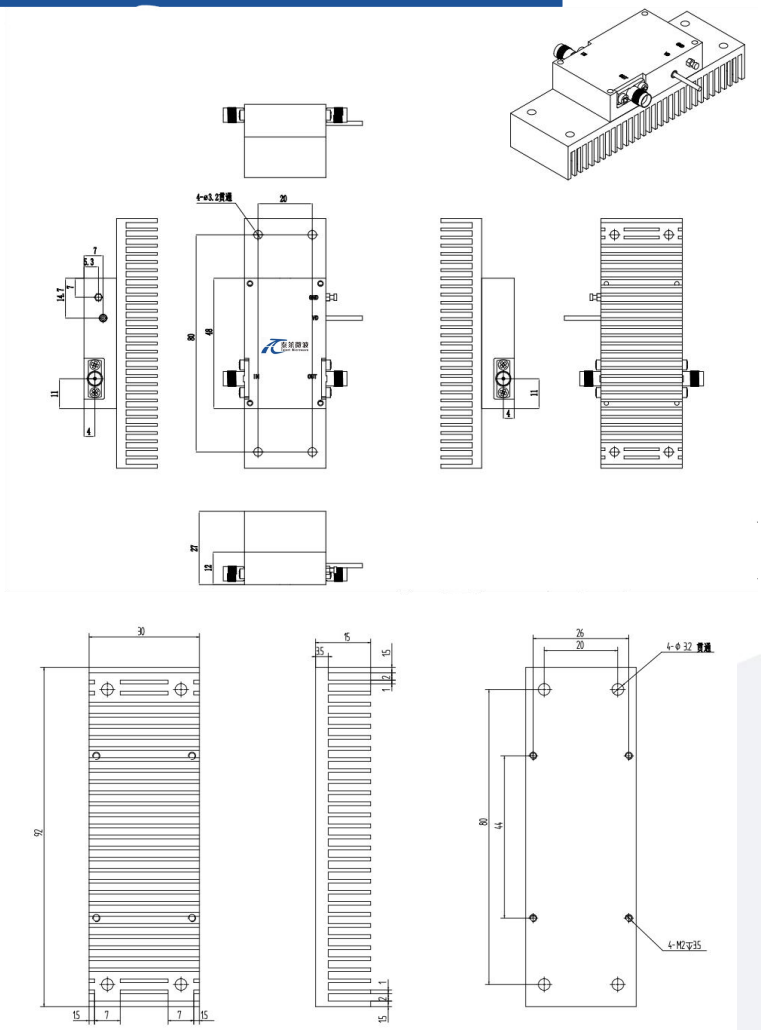
## 外形尺寸 Outline Drawing:

Unit: mm





OBSERVE PRECAUTIONS
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DEVICES

## 温度环境 Environmental Conditions:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|---|---|---|---|---|
| 操作温度 Operating Temperature | -45 | | +85 | ℃ |
| 存储温度 Non-operating Temperature | -55 | | +125 | ℃ |
| 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 | | | |

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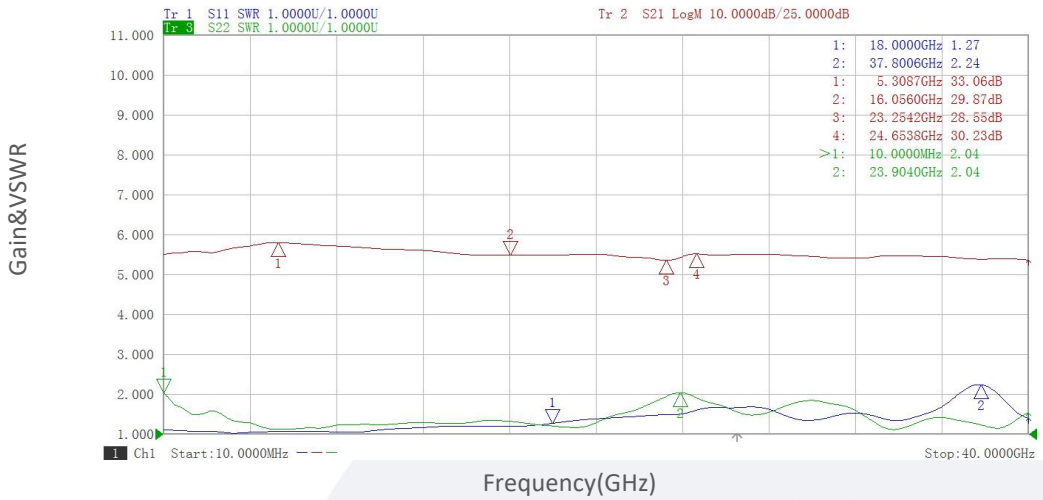
## 订货信息 Ordering Information:

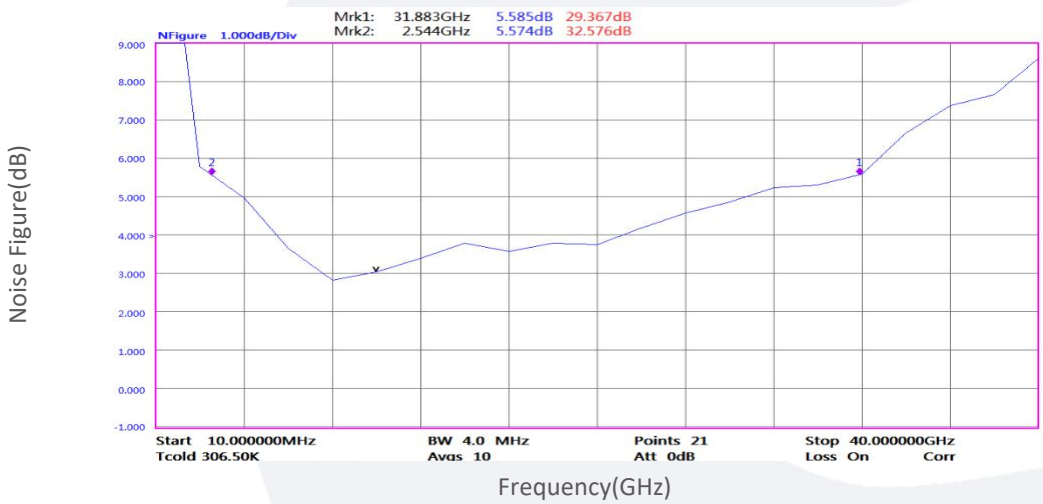
| 标准型号 Part Number | 描述 Description | 版本号Revision |
|---|---|---|
| TLLA0.5G40G-28-50 | Low Noise Amplifier, 0.5-40GHz, Noise Figure:5.0dB, Gain:28 dB,P1dB:17dBm,+12V DC,Without Heatsink | Rev.1.1 |
| TLLA0.5G40G-28-50-HS | Low Noise Amplifier, 0.5-40GHz, Noise Figure:5.0dB, Gain:28 dB,P1dB:17dBm,+12V DC,With Heatsink | Rev.1.1 |

## 典型曲线 Typical Performance Data:

### Gain&VSWR vs Frequency




### Noise Figure vs Frequency



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## 典型曲线 Typical Performance Data:

### P1dB vs Frequency


### Gain vs Output Power