

Model: TLLA11.75G12.75G-60-13
Low Noise Amplifier
11.75-12.75GHz, NF:1.3 dB, Gain:60 dB
Feature:

- Frequency Band: 11.75-12.75GHz
- Gain:60dB Min
- Noise Figure: 1.3dB Max
- 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 | 11.75-12.75 | | | GHz |
| 增益 Gain | 60 | 61 | | dB |
| 增益平坦度 Gain Flatness | | ±1 | | dB |
| 噪声系数 Noise Figure | | 1 | 1.3 | dB |
| 线性输出功率P1dB | 11 | | | dBm |
| 输入驻波 Input VSWR | | 1.8 | 2 | :1 |
| 输出驻波 Output VSWR | | 1.8 | 2 | :1 |
| 直流电压 DC Voltage | | +12 | | V DC |
| 直流电流 DC Supply Current | | 100 | | 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 | SMA Female | |
| 直流偏置 Bias | Solder Pin | |
| 尺寸 Size | 44.8*29.2*11 | mm |
| 重量 Weight | 55 | g |

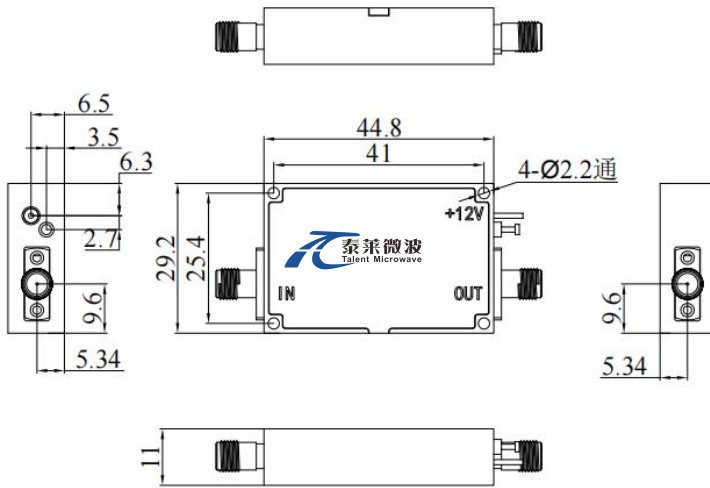

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

| 参数Parameter | 指标 Value |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage | +15V |
| 输入功率 RF INPUT POWER | 15 dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形尺寸 Outline Drawing:

Unit: mm



***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 | | +85 | °C |
| 存储温度 Non-operating Temperature | -55 | | +125 | °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 |
|---------------------------|---|--------------|
| TLLA11.75G12.75G-60-13 | Low Noise Amplifier, 11.75-12.75GHz,Gain:60dB,NF:1.3dB,+12VDC,Without Heatsink | Rev.1.0 |
| TLLA11.75G12.75G-60-13-HS | Low Noise Amplifier, 11.75-12.75GHz,Gain:60dB,NF:1.3dB,+12VDC,With Heatsink | Rev.1.0 |