

Model:TMLA-050070-3722-15
V-band Low Noise Amplifier
50-75 GHz, NF:2.2 dB, Gain:37 dB
Feature:

- Ultra Wide Band: 50-70GHz
- Gain: 37dB Typ
- Noise Figure: 2.2dB Typ
- Unconditional stability

电气特性 Electrical:

| 参数Parameter | Min. | Typ. | Max. | 单位Units |
|---------------------------|------|------|------|---------|
| 频率范围 Frequency range | 50 | | 70 | GHz |
| 增益 Gain | 33 | 37 | | dB |
| 噪声系数 Noise Figure | | 2.2 | 2.8 | dB |
| 输出功率1dB压缩点 Output P1dB | | -5 | | 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 | | +5 | | V DC |
| 直流供电 DC power supply | | 58 | | mA |

机械特性 Mechanical :

| 参数Parameter | 指标 Value |
|-----------------------|----------------|
| 输入接口 Input Connector | WR-15/UG-385/U |
| 输出接口 Output Connecto | WR-15/UG-385/U |
| 供电引脚 Power Supply Pin | Solder Pin |
| 尺寸 Size | 50mmx30mmx22mm |

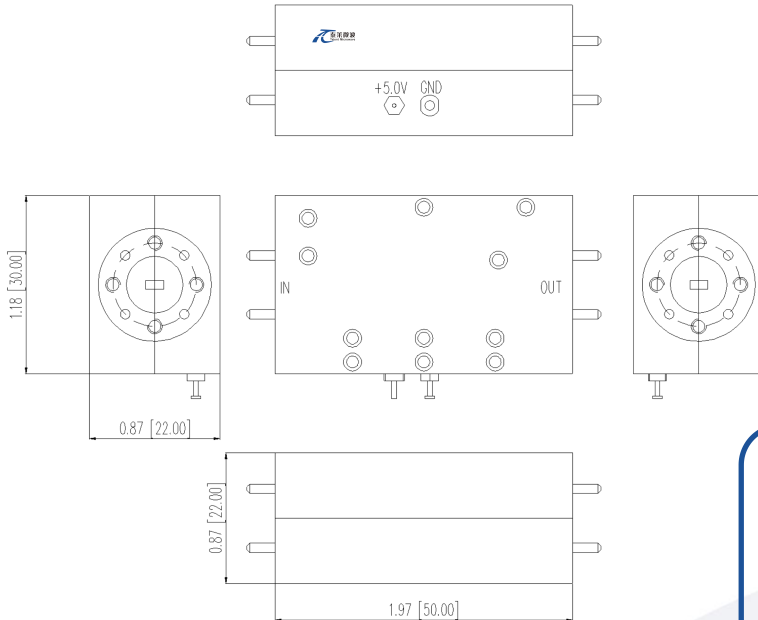

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

| 参数Parameter | 指标 Value |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage | 5V |
| 输入功率 RF INPUT POWER | 10dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形尺寸 Outline Drawing:

Unit: Inches(mm)



温度环境 Environmental Conditions:

| 参数Parameter | Min. | Typ. | Max. | 单位Units |
|------------------------------------|---|------|------|---------|
| 操作温度 Operating Temperature | 0 | | +65 | °C |
| 存储温度 Non-operating Temperature | -45 | | +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 |
|---------------------|---|-------------|
| TMLA-050070-3722-15 | V-band Low Noise Amplifier 50-75 GHz, NF:2.2 dB, Gain:37 dB, WR-15 | Rev.1.1 |