

Model:TMLA-075110-3542-10
**Low Noise Amplifier, WR-10, W-Band
 75-110GHz , NF:4.2 dB, Gain:35 dB**
Feature:

- RF Frequency: 75-110GHz
- Gain: 35dB Typ
- Noise Figure: 4.0dB Typ
- Compact and lightweight.
- Single power supply required.

电气特性 Electrical:

| 参数Parameter | Min. | Typ. | Max. | 单位Units |
|------------------------|------|------|------|---------|
| RF 频率 RF Frequency | 75 | | 110 | GHz |
| 增益 Gain | | 35 | | dB |
| 噪声系数 Noise Figure | | 4.2 | | dB |
| 输出功率1dB压缩点Output P1dB | | 0 | | dBm |
| 输入驻波 Input VSWR | | 2.5 | | :1 |
| 输出驻波 Output VSWR | | 2.2 | | :1 |
| 直流电压 DC Voltage | | +12 | | V |
| 供电电流 DC Supply Current | | 80 | | mA |

机械特性 Mechanical :

| 参数Parameter | 指标 Value | 单位 Units |
|----------------------|-----------------|----------|
| 输出接口Output Connector | WR-10/ UG-387/U | |
| 输入接口Input Connector | WR-10/ UG-387/U | |
| 直流偏置 Bias | Solder Pin | |
| 尺寸 Size | 39×30×21 | mm |

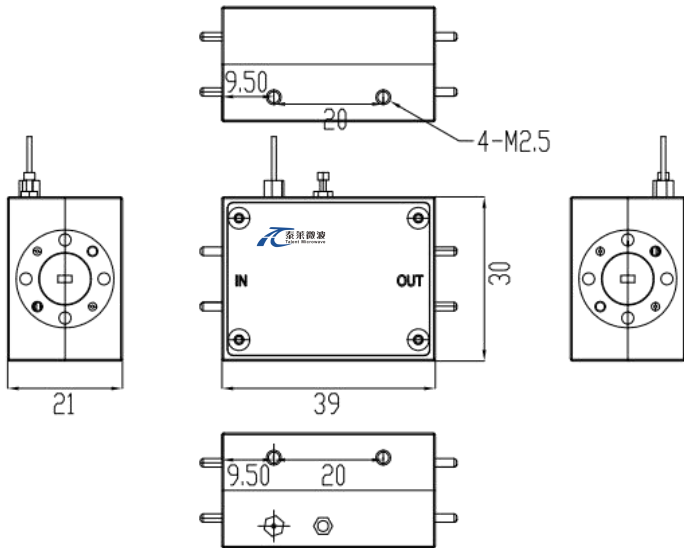

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

| 参数Parameter | 指标 Value |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage | 13V |
| 输入功率 RF Input Power | 0dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形尺寸 Outline Drawing:

Unit: mm



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 | -10 | | +65 | °C |
| 存储温度 Non-operating Temperature | -25 | | +75 | °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-075110-3542-10 | Low Noise Amplifier,W-Band 75-110GHz, NF:4.2 dB, Gain:35 dB,WR-10 | Rev.1.1 |