

## Model:TLVA2G18G-50-10H

## Voltage Controlled Attenuator 2-18 GHz, 50 dB Range

### Feature:

- Ultra Wide Band: 2-18 GHz
- Attenuation Range: 50 dB Typ
- Insertion Loss:1.4 dB Typ
- High Attenuator Accuracy

### 电气特性 Electrical Specifications:

| 参数Parameter            | Min. | Typ. | Max. | 单位Units |
|------------------------|------|------|------|---------|
| 频率范围 Frequency range   | 2-18 |      |      | GHz     |
| 插损 Insertion Loss      |      | 1.4  | 1.8  | dB      |
| 衰减范围 Attenuation Range |      | 50   |      | dB      |
| 切换时间 Swtich Speed      |      | 5    |      | us      |
| 输入三节交调点 Input IP3      |      | 45   |      | dBm     |
| 输入驻波 Input VSWR        |      | 1.5  | 1.8  | :1      |
| 输出驻波 Output VSWR       |      | 1.5  | 1.8  | :1      |
| 最大输入功率 Input Max Power |      |      | 37   | dBm     |
| 直流电压 DC Voltage        | 0    | 10   |      | V DC    |
| 直流电流 Supply Current    |      |      | 15   | mA      |
| 阻抗 Impedance           | 50   |      |      | Ohms    |

### 机械特性 Mechanical Specifications:

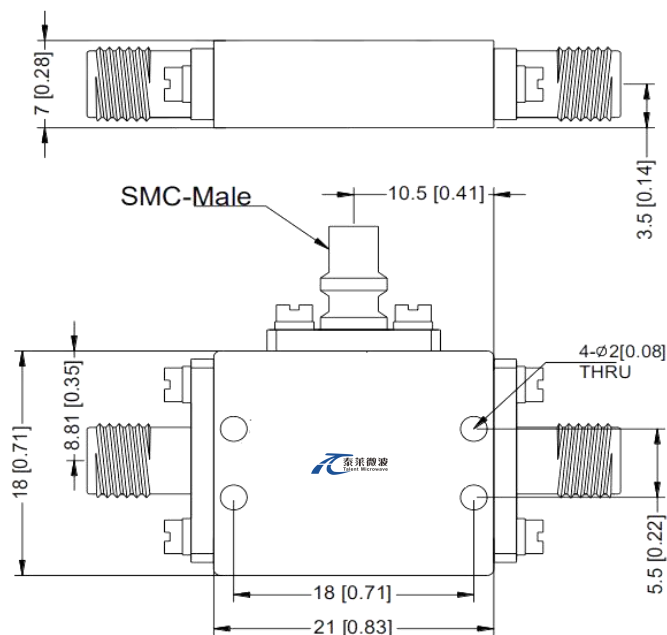
| 参数Parameter                     | 指标 Value   | 单位Units |
|---------------------------------|------------|---------|
| 输入/输出接口 Input /Output Connector | SMA-Female |         |
| 控制连接器 Control Connector         | SMC-Male   |         |
| 尺寸 Size                         | 21*18*7    | mm      |
| 材质 Material                     | Copper     |         |

### 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          | 37 dBm               |
| 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:

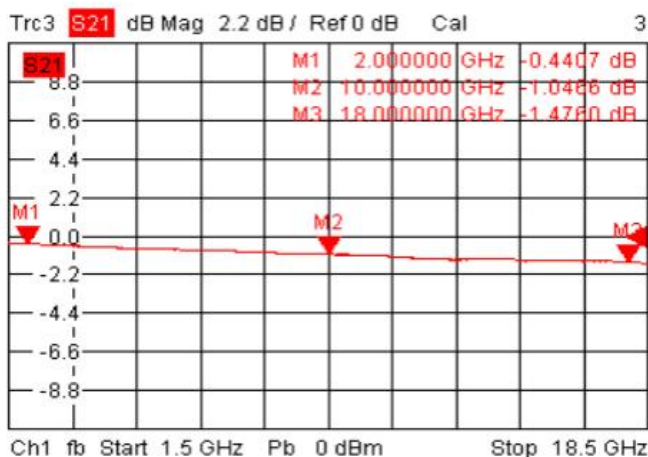
| 参数Parameter                        | Min.                                                | Typ. | Max. | 单位Units |
|------------------------------------|-----------------------------------------------------|------|------|---------|
| 操作温度 Operating Temperature         | -45                                                 |      | +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:

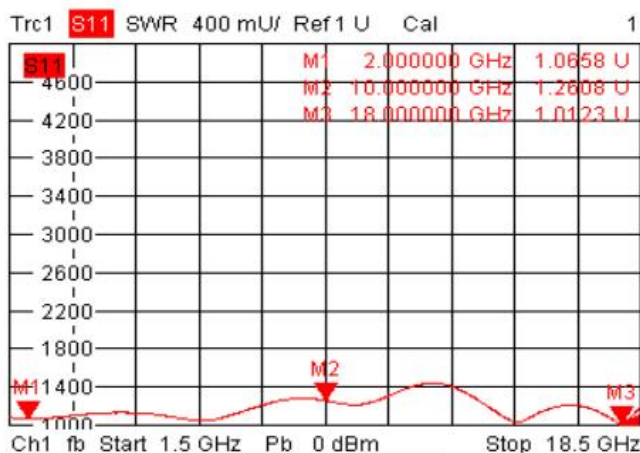
| 标准型号 Part Number | 描述 Description                                                    | 版本号Revision |
|------------------|-------------------------------------------------------------------|-------------|
| TLVA2G18G-50-10H | Voltage Controlled Attenuator<br>2-18 GHz, 50 dB Range,SMA-Female | Rev.1.1     |

典型曲线 Typical Performance Date:

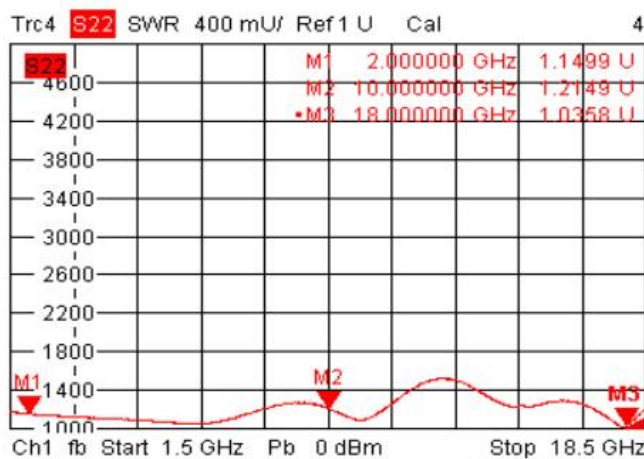
插损 vs 频率



输入驻波 vs 频率



输出驻波 vs 频率



衰减 vs 频率

