

## Equalizer

5-10GHz/3.5 to 12.5dB, Insertion Loss

Model: TLME-5G10G-10

The TLME-5G10G-10 is a equalizer. It is a positive gain slope equalizer designed to pass 5 to 10GHz. Equalization can be applied to reduce low pass filtering effects in both RF/microwave and high speed digital systems.

### Features:

- Frequency range: 5-10GHz
- Good gain equalization
- Small Size and simple to use
- Excellent return loss

### Applications:

- Cable or Waveguide Loss Compensation
- Amplifier Flatness Compensation
- Microwave Radio
- RF Transceivers
- Telecom Infrastructure

## 电气特性 Electrical Characteristics:

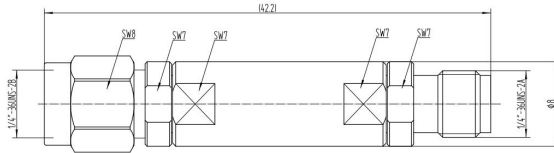
| 参数 Parameter            | Min | Typ | Max | 单位 Units |
|-------------------------|-----|-----|-----|----------|
| 频率范围 Frequency range    | 5   |     | 10  | GHz      |
| 插损 Insertion Loss@5GHz  |     | 12  |     | dB       |
| 插损 Insertion Loss@10GHz |     | 3.5 |     | dB       |
| 均衡量 Slope               |     | 8.5 |     | dB       |
| 回波损耗 Return Loss        |     | -12 |     | dB       |
| 耐受功率 Power Handling     |     | 27  |     | dBm      |
| 阻抗 Impedance            | 50  |     |     | Ohms     |

## 机械特性 Mechanical Specifications:

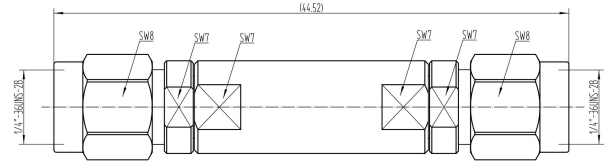
| 参数 Parameter                    | 指标 Value                  | 单位 Units |
|---------------------------------|---------------------------|----------|
| 输入/输出接口 Input /Output Connector | 2.92mm Male/2.92mm Female |          |
| 长度 Length                       | 42.2                      | mm       |

## 外形图 Outline Drawing:

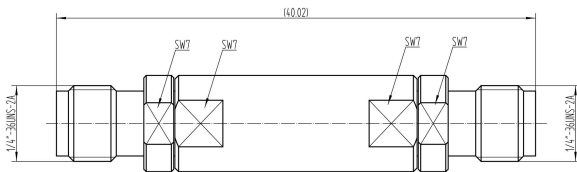
Unit:mm; Tolerance:±0.1mm



TLME-5G10G-10



TLME-5G10G-10-MM



TLME-5G10G-10-FF



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

## 温度环境 Environmental Conditions:

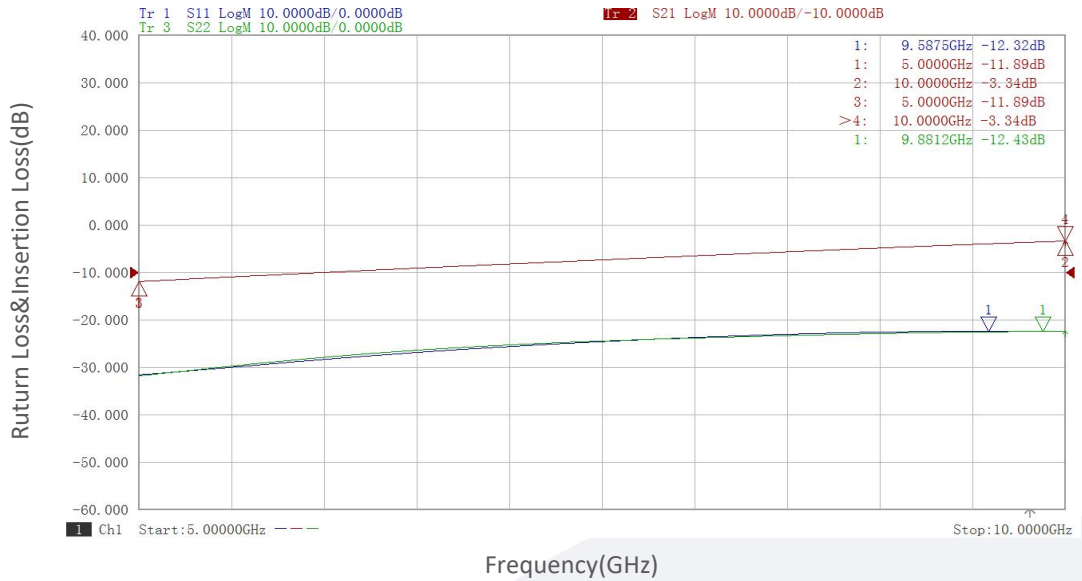
| 参数 Parameter                       | Min                                                 | Typ | Max  | 单位 Units |
|------------------------------------|-----------------------------------------------------|-----|------|----------|
| 操作温度 Operating Temperature         | -45                                                 |     | +85  | °C       |
| 存储温度 Non-operating Temperature     | -55                                                 |     | +125 | °C       |
| 相对湿度 Relative humidity             |                                                     | 95  |      | %        |
| 海拔 Altitude                        | 10,000                                              |     |      | 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 Base Number | 描述 Description                                                                             | 版本号 Revision |
|------------------|--------------------------------------------------------------------------------------------|--------------|
| TLME-5G10G-10    | Equalizer, 5-10GHz, Insertion loss: 12dB@5GHz; 3.5dB@10GHz; 2.92mm Male to 2.92mm Female   | Rev.1.0      |
| TLME-5G10G-10-MM | Equalizer, 5-10GHz, Insertion loss: 12dB@5GHz; 3.5dB@10GHz; 2.92mm Male to 2.92mm Male     | Rev.1.0      |
| TLME-5G10G-10-FF | Equalizer, 5-10GHz, Insertion loss: 12dB@5GHz; 3.5dB@10GHz; 2.92mm Female to 2.92mm Female | Rev.1.0      |

## 典型曲线 Typical Performance Data:

### Return Loss&Insertion Loss vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.