

## Equalizer

DC-18GHz /4.5dB, Insertion Loss

Model: TLME-DC18G-4.5

The TLME-DC18G-4.5 is a equalizer. It is a positive gain slope equalizer designed to pass DC to 18GHz. Equalization can be applied to reduce low pass filtering effects in both RF/microwave and high speed digital systems.

### Features:

- Ultra Wide Band: DC-18 GHz
- 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:

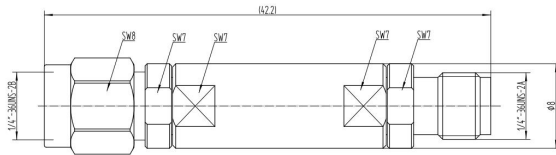
| 参数 Parameter         |        | Min   | Typ | Max | 单位 Units |
|----------------------|--------|-------|-----|-----|----------|
| 频率范围 Frequency range |        | DC-18 |     |     | GHz      |
| 插损 Insertion Loss    | @DC    |       | 4.5 |     | dB       |
|                      | @20GHz |       | 0.8 |     |          |
| 回波损耗 Return Loss     |        |       | -15 |     | dB       |
| 耐受功率 Power Handling  |        |       | 30  |     | dBm      |
| 阻抗 Impedance         |        | 50    |     |     | Ohms     |

### 机械特性 Mechanical Specifications:

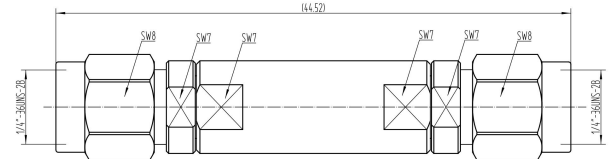
| 参数 Parameter                    | 指标 Value | 单位 Units |
|---------------------------------|----------|----------|
| 输入/输出接口 Input /Output Connector | 2.92mm   |          |
| 长度 Length                       | 42.2     | mm       |

## 外形图 Outline Drawing:

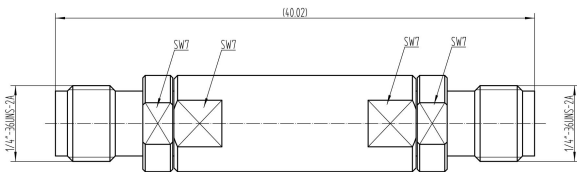
Unit:mm



TLME-DC20G-4.5



TLME-DC20G-4.5-MM



TLME-DC20G-4.5-FF

## 温度环境 Environmental Conditions:

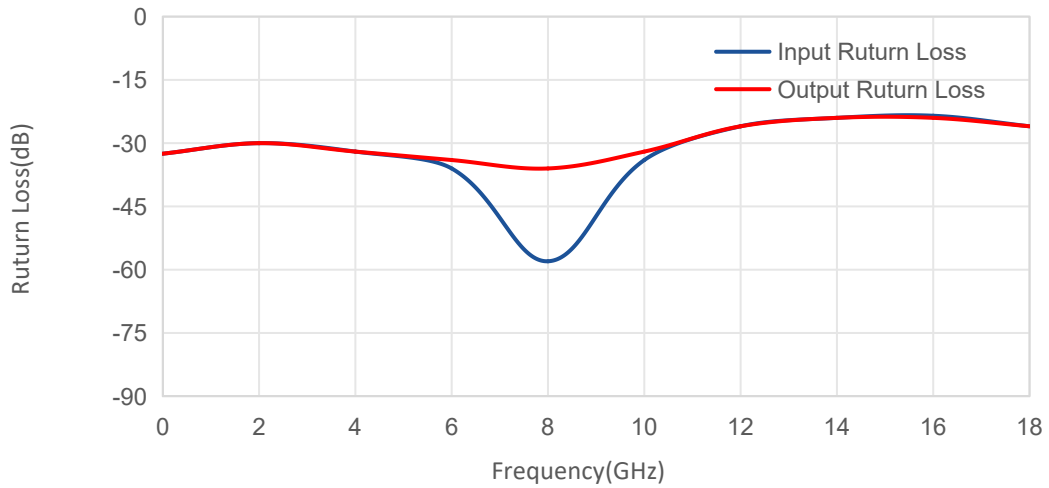
| 参数 Parameter                       | Min                                                 | Typ | Max  | 单位 Units |
|------------------------------------|-----------------------------------------------------|-----|------|----------|
| 操作温度 Operating Temperature         | -45                        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

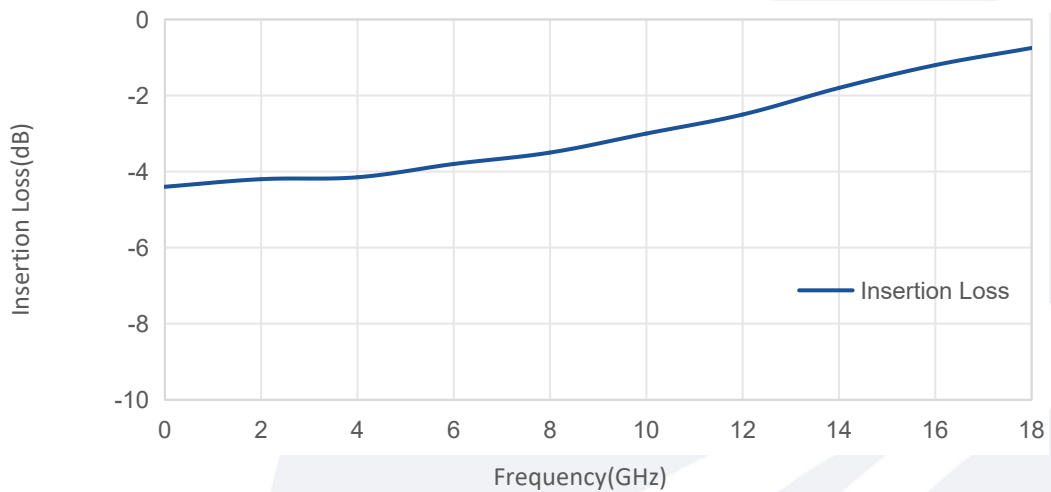
| 标准型号 Base Number  | 描述 Description                                                                              | 版本号 Revision |
|-------------------|---------------------------------------------------------------------------------------------|--------------|
| TLME-DC18G-4.5    | Equalizer, DC-18GHz,<br>Insertion loss:4.5dB@DC; 0.8dB@18GHz<br>2.92mm Male/2.92mm Female   | Rev.1.1      |
| TLME-DC18G-4.5-MM | Equalizer, DC-18GHz,<br>Insertion loss:4.5dB@DC; 0.8dB@18GHz<br>2.92mm Male/2.92mm Male     | Rev.1.1      |
| TLME-DC18G-4.5-FF | Equalizer, DC-18GHz,<br>Insertion loss:4.5dB@DC; 0.8dB@18GHz<br>2.92mm Female/2.92mm Female | Rev.1.1      |

## 典型曲线 Typical Performance Data:

### Return Loss vs Frequency



### 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.