Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

# Equalizer

## DC-12GHz/3.8dB, Slope

## Model: TLME-DC12G-3.8

The TLME-DC12G-3.8 is an equalizer. It is a positive gain slope equalizer designed to pass DC to 12 GHz. Equalization can be applied to reduce low pass filtering effects in both RF/microwave and high speed digital systems.

### Features:

- Frequency range: DC-12 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

### Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency range | DC | | 12 | GHz |
| Insertion Loss@12GHz | | 1.0 | | dB |
| Slope | | 3.8 | | dB |
| Return Loss | | -23 | | dB |
| Power Handling | | 30 | | dBm |
| Impedance | | 50 | | Ohms |

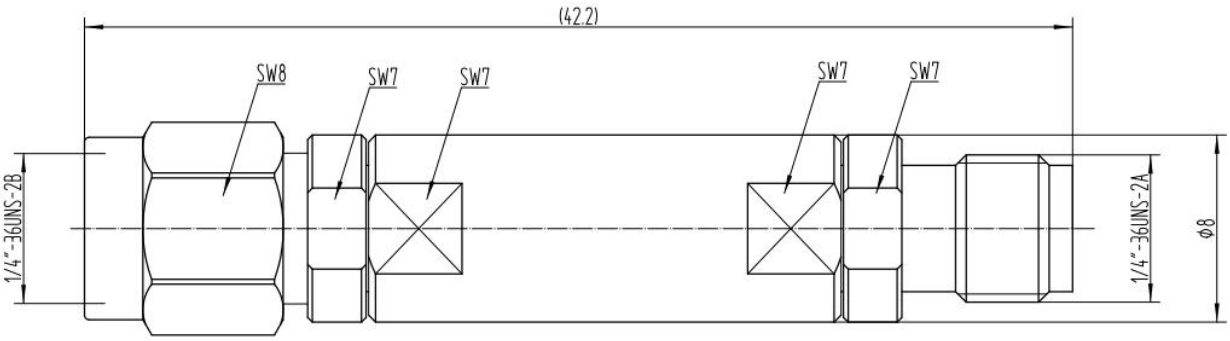
### Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Input /Output Connector | 2.92mm Male/2.92mm Female | |
| Length | 42.2 | mm |

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## Outline Drawing:

Unit:mm; Tolerance:±0.1mm




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

## Environmental Conditions:

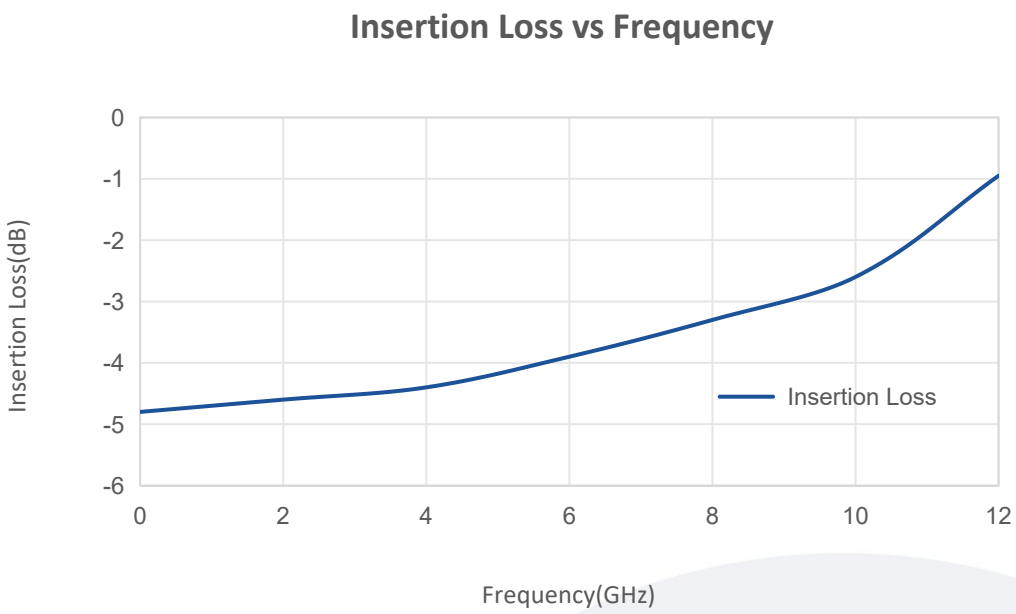
| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Operating Temperature | -40 | | +70 | ℃ |
| Non-operating Temperature | -55 | | +85 | ℃ |
| Relative humidity | | 95 | | % |
| Altitude | 10,000 | | | feet |
| Shock / Vibration(MIL-STD-810F) | 25g rms (15 degree 2KHz) endurance, 1 hour per axis | | | |
| Shock(non operating) | 20G for 11msc half sin wave,3 axis both directions | | | |

## Ordering Information:

| Base Number | Description | Revision |
|---|---|---|
| TLME-DC12G-3.8 | Equalizer, DC-12GHz, Insertion loss: 1.0dB@12GHz; 2.92mm Male to 2.92mm Female | Rev.1.1 |

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## Typical Performance Data:




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.