泰莱微波
Talent Microwave

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# Equalizer

## 1-2GHz/1.6 to 6.4dB,Insertion Loss

## Model: TLME-1G2G-5

The TLME-1G2G-5 is an equalizer. It is a positive gain slope equalizer designed to pass 1.6 to 6.4GHz. Equalization can be applied to reduce low pass filtering effects in both RF/microwave and high speed digital systems.

## Features:

- Frequency range: 1-2GHz
- 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 | | 1 | | 2 | GHz |
| Insertion Loss | @1GHz | | 6.4 | | dB |
| | @2GHz | | 1.6 | | dB |
| Slope | | | 4.8 | | dB |
| Return Loss | | | -15 | | dB |
| Power Handling | | | 30 | | dBm |
| Impedance | | | 50 | | Ohms |

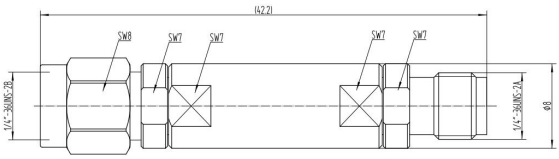
## Mechanical Specifications:

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

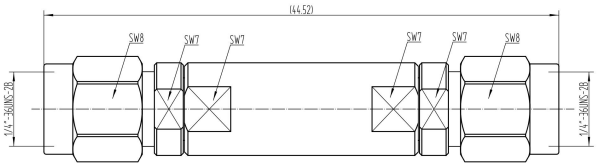
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## Outline Drawing:

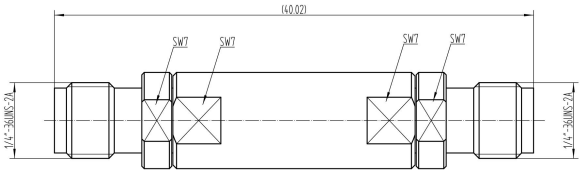
Unit:mm; Tolerance:±0.1mm




TLME-1G2G-5




TLME-1G2G-5-MM




TLME-1G2G-5-FF



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

## Environmental Conditions:

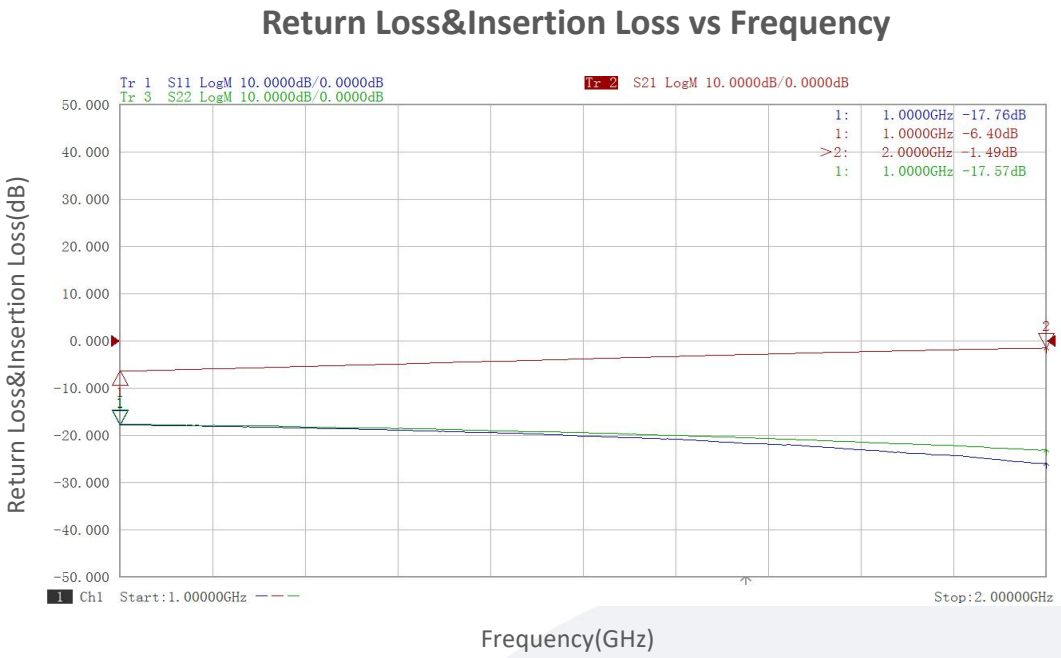
| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Operating Temperature | -40 | | +70 | ℃ |
| Non-operating Temperature | -55 | | +85 | ℃ |
| Relative humidity | | 95 | | % |
| Altitude | 10,000 | | | feet |
| Shock / Vibration(MIL-STD-810F) | 25g rms (15 degree 2KHz) endurance, 1 hour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

## Ordering Information:

| Base Number | Description | Revision |
|---|---|---|
| TLME-1G2G-5 | Equalizer, 1-2GHz, Insertion loss: 6.3dB@1GHz; 1.6dB@2GHz; 2.92mm Male to 2.92mm Female | Rev.1.0 |
| TLME-1G2G-5-MM | Equalizer, 1-2GHz, Insertion loss: 6.3dB@1GHz; 1.6dB@2GHz; 2.92mm Male to 2.92mm Male | Rev.1.0 |
| TLME-1G2G-5-FF | Equalizer, 1-2GHz, Insertion loss: 6.3dB@1GHz; 1.6dB@2GHz; 2.92mm Female to 2.92mm Female | Rev.1.0 |

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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.