

## Equalizer

DC-50GHz /3.8dB, Insertion Loss

Model: TLME-DC70G-8

The TLME-DC70G-8 is a equalizer. It is a positive gain slope equalizer designed to pass DC to 70GHz. Equalization can be applied to reduce low pass filtering effects in both RF/microwave and high speed digital systems.

### Features:

- Frequency range: DC-70GHz
- Good gain equalization
- Small Size and simple to use
- Excellent return loss

### Applications:

- N/A

### Electrical Characteristics:

| Parameter            | Min   | Typ | Max | Units |
|----------------------|-------|-----|-----|-------|
| Frequency range      | DC-70 |     |     | GHz   |
| Insertion Loss@70GHz |       | 3.8 |     | dB    |
| Slope                |       | 8.0 |     | dB    |
| Return Loss          |       | -20 |     | dB    |
| Impedance            | 50    |     |     | Ohms  |

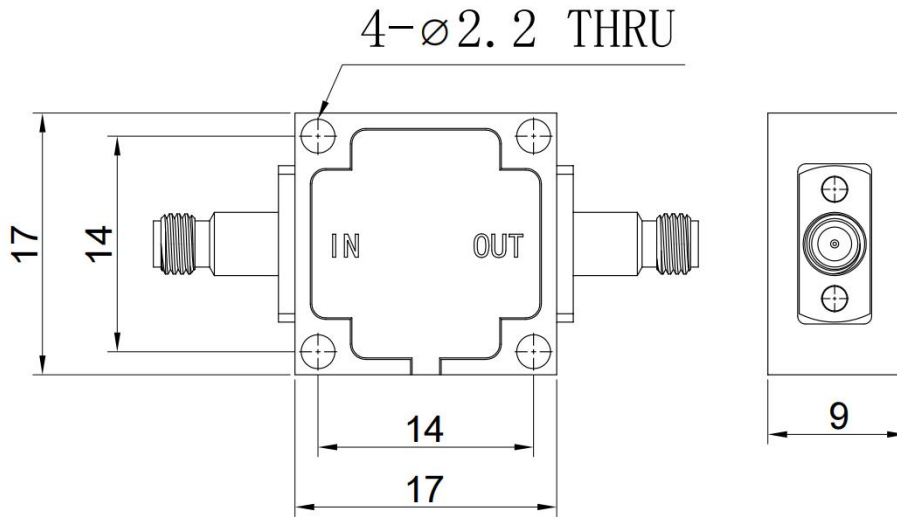
### Mechanical Specifications:

| Parameter               | Value                     | Units |
|-------------------------|---------------------------|-------|
| Input /Output Connector | 1.0mm Female/1.0mm Female |       |
| Size                    | 17*17*9                   | mm    |

## Outline Drawing:

Unit:mm

## Regulatory Compliance:



## Environmental Conditions:

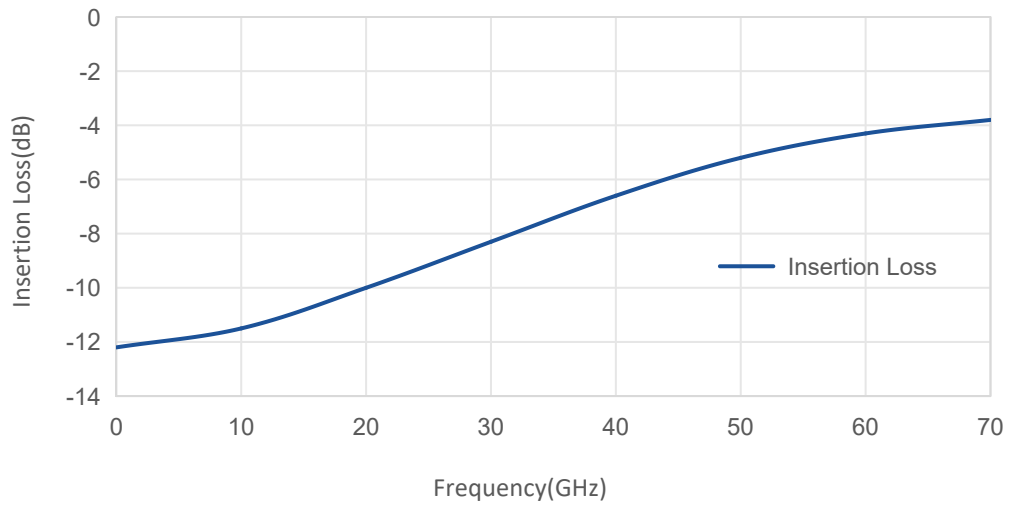
| Parameter                       | Min                                                 | Typ | Max  | Units |
|---------------------------------|-----------------------------------------------------|-----|------|-------|
| Operating Temperature           | -45                                                 |     | +85  | °C    |
| Non-operating Temperature       | -55                                                 |     | +125 | °C    |
| 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-DC70G-8 | Equalizer, DC-70GHz,<br>Insertion loss:3.8dB@70GHz | Rev.1.1  |

## Typical Performance Data:

### 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.