

## Equalizer

DC-3.5GHz /0.8dB,Insertion Loss

Model: TLME-DC3.5G-6

The TLME-DC3.5G-6 is a equalizer. It is a positive gain slope equalizer designed to pass DC to 3.5GHz. Equalization can be applied to reduce low pass filtering effects in both RF/microwave and high speed digital systems.

### Features:

- Frequency range: DC-3.5GHz
- 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-3.5 |     |     | GHz   |
| Insertion Loss@3.5GHz |        | 0.8 |     | dB    |
| Slope                 |        | 6   |     | dB    |
| Ruturn Loss           |        | -20 |     | dB    |
| Power Handling        |        | 30  |     | dBm   |
| Impedance             | 50     |     |     | Ohms  |

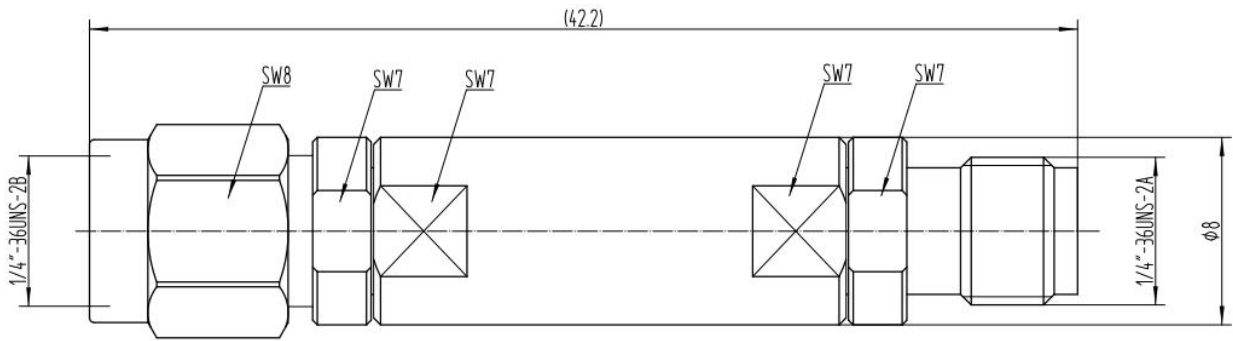
### Mechanical Specifications:

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

## Outline Drawing:

Unit:mm

## Regulatory Compliance:



## Environmental Conditions:

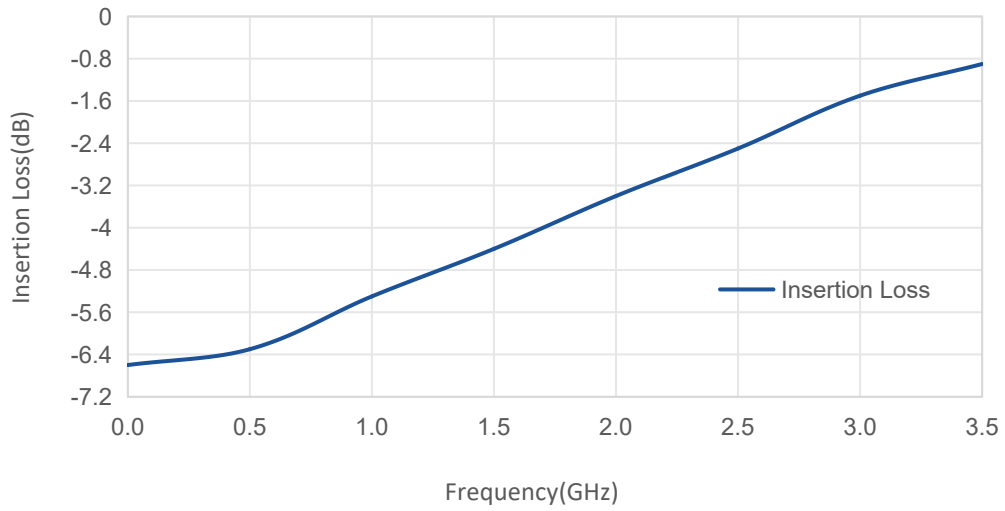
| Parameter                       | Min                                                 | Typ | Max  | Units |
|---------------------------------|-----------------------------------------------------|-----|------|-------|
| Operating Temperature           | -55                                                 |     | +125 | °C    |
| Non-operating Temperature       | -65                                                 |     | +150 | °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-DC3.5G-6 | Equalizer, DC-3.5GHz,<br>Insertion loss:0.8dB@3.5GHz | 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.