

## Equalizer

**DC-34GHz /1.0dB, Insertion Loss**

**Model: TLME-DC34G-6**

The TLME-DC34G-6 is a equalizer. It is a positive gain slope equalizer designed to pass DC to 34GHz. Equalization can be applied to reduce low pass filtering effects in both RF/microwave and high speed digital systems.

### **Features:**

- Frequency range: DC-34GHz
- 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-34 |     |     | GHz   |
| Insertion Loss@34GHz |       | 1.0 |     | dB    |
| Slope                |       | 6.0 |     | dB    |
| Rreturn Loss         |       | -20 |     | dB    |
| Power Handling       |       | 30  |     | dBm   |
| Impedance            | 50    |     |     | Ohms  |

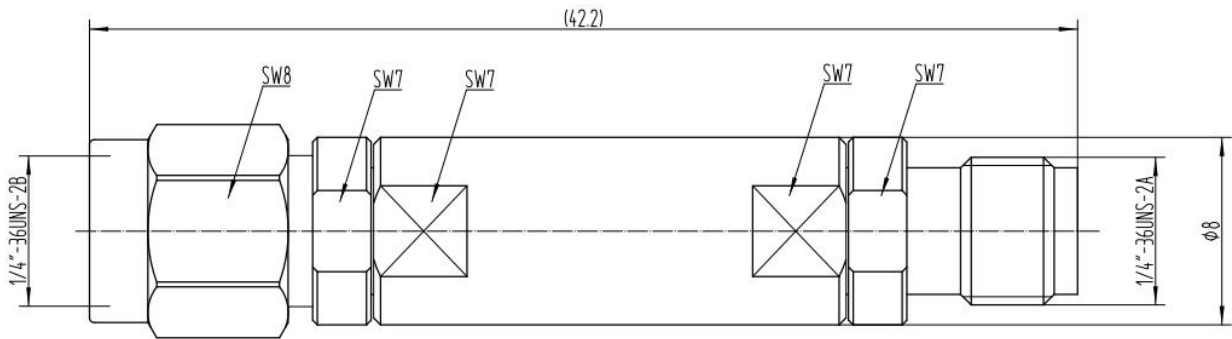
### **Mechanical Specifications:**

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

## Outline Drawing:

Unit:mm

## Regulatory Compliance:



## Environmental Conditions:

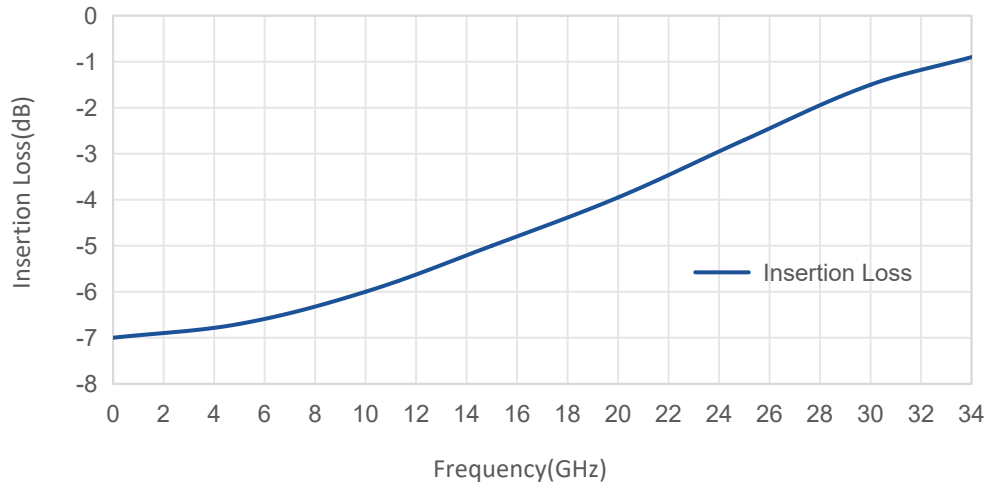
| Parameter                       | Min                                                 | Typ | Max  | Units |
|---------------------------------|-----------------------------------------------------|-----|------|-------|
| Operating Temperature           | -65                                                 |     | +150 | °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-DC34G-6 | Equalizer, DC-34GHz,<br>Insertion loss:1.0dB@34GHz | 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.