

## Equalizer

DC-42GHz /3.1dB, Insertion Loss

Model: TLME-DC42G-3.5

The TLME-DC42G-3.5 is a equalizer. It is a positive gain slope equalizer designed to pass DC to 42GHz. Equalization can be applied to reduce low pass filtering effects in both RF/microwave and high speed digital systems.

### Features:

- Frequency range: DC-42GHz
- 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-42			GHz
Insertion Loss@42GHz		3.1		dB
Slope		3.5		dB
Rreturn Loss		-20		dB
Power Handling			25	dBm
Impedance	50			Ohms

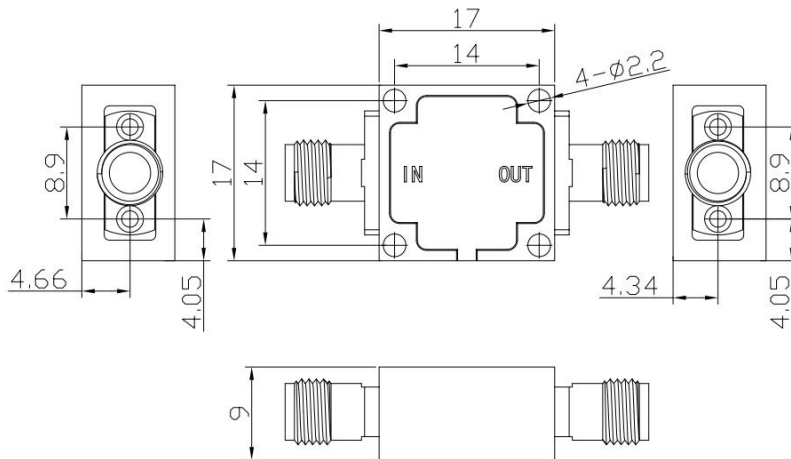
### Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
Size	17*17*9	mm

**Outline Drawing:**

Unit:mm

**Regulatory Compliance:**



**Environmental Conditions:**

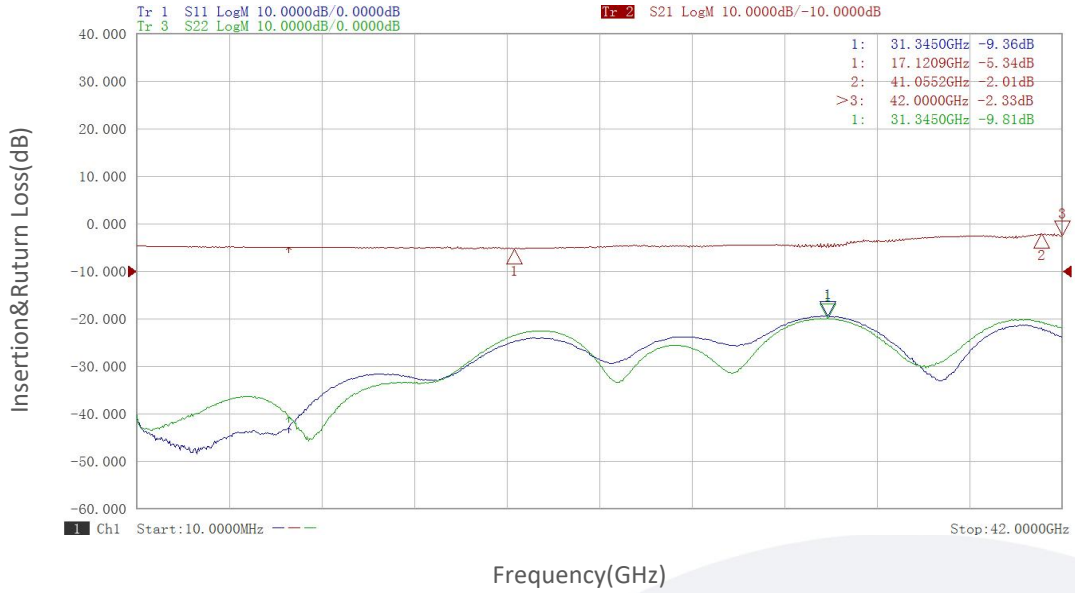
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude		10,000		feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

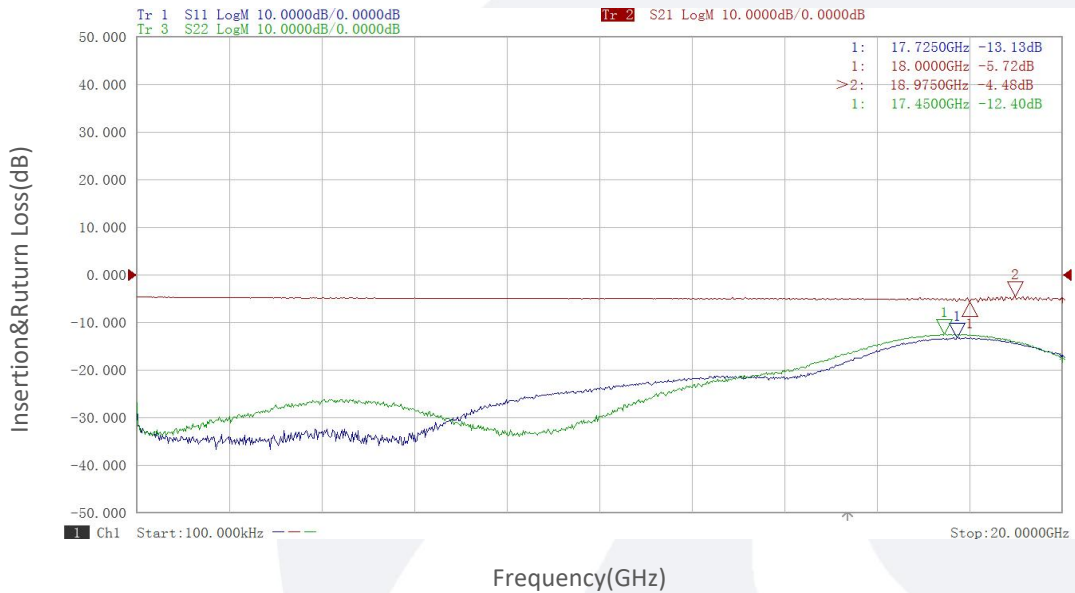
Base Number	Description	Revision
TLME-DC42G-3.5	Equalizer, DC-42GHz, Insertion loss:3.1dB@42GHz	Rev.1.1

**Typical Performance Data:**

**Insertion&Return Loss vs Frequency**



**Insertion&Return 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.