Suzhou Talent Microwave,Inc
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Equalizer

DC-42GHz/3.5dB, Slope

Model: TLME-DC42G-3.5

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

Features:

- Frequency range: DC-42 GHz
- 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	DC		42	GHz
Insertion Loss@42GHz		3.1		dB
Slope		3.5		dB
Return Loss		-12		dB
Power Handling			25	dBm
Impedance		50		Ohms

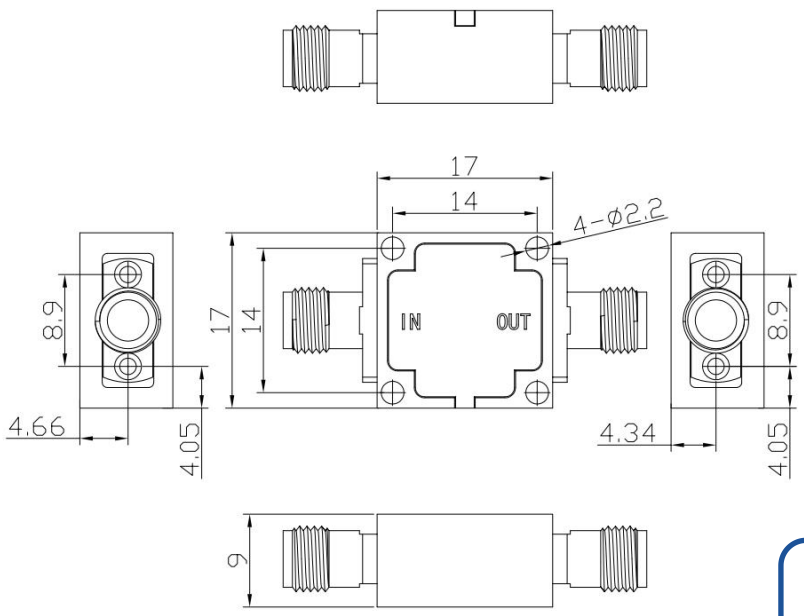
Mechanical Specifications:

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

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Outline Drawing:

Unit:mm; Tolerance:±0.1mm





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			

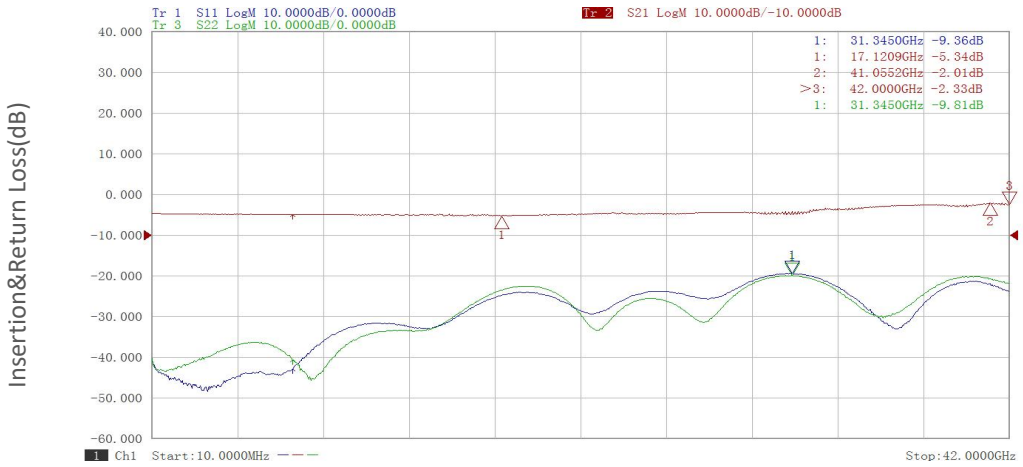
Ordering Information:

Base Number	Description	Revision
TLME-DC42G-3.5	Equalizer, DC-42GHz, Insertion loss: 3.1dB@42GHz; 2.92mm Female to 2.92mm Female	Rev.1.1

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Typical Performance Data:

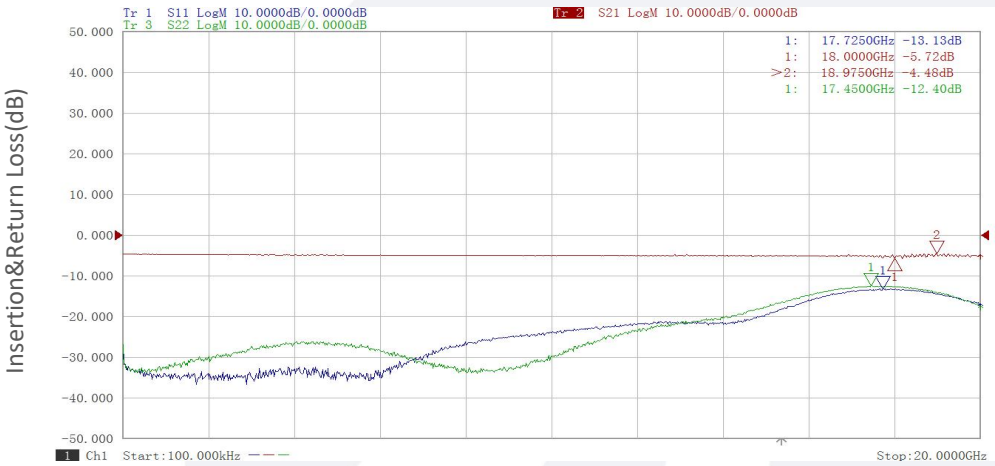
Insertion&Return Loss vs Frequency



Insertion&Return Loss(dB)

Frequency(GHz)

Insertion&Return Loss vs Frequency



Insertion&Return Loss(dB)

Frequency(GHz)

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.