

Equalizer

DC-18GHz /4.5dB, Insertion Loss

Model: TLME-DC18G-4.5

The TLME-DC18G-4.5 is a equalizer. It is a positive gain slope equalizer designed to pass DC to 18GHz. Equalization can be applied to reduce low pass filtering effects in both RF/microwave and high speed digital systems.

Features:

- Ultra Wide Band: DC-18 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:

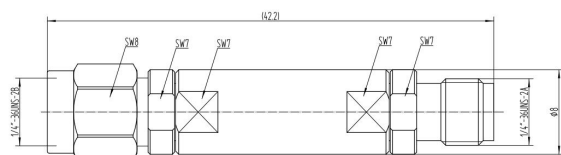
Parameter		Min	Typ	Max	Units
Frequency range		DC-18			GHz
Insertion Loss	@DC		4.5		dB
	@20GHz		0.8		
Return Loss			-15		dB
Power Handling			30		dBm
Impedance		50			Ohms

Mechanical Specifications:

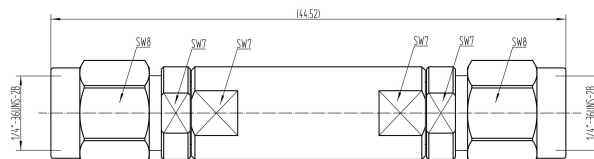
Parameter	Value	Units
Input /Output Connector	2.92mm	
Length	42.2	mm

Outline Drawing:

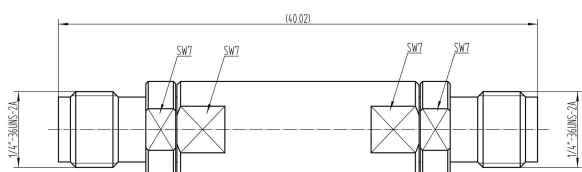
Unit:mm



TLME-DC20G-4.5



TLME-DC20G-4.5-MM



TLME-DC20G-4.5-FF

Environmental Conditions:

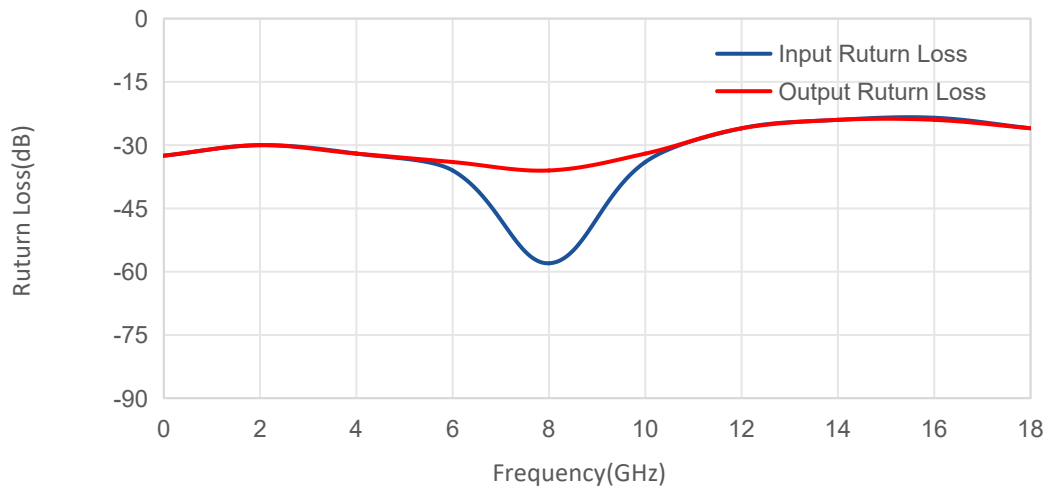
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

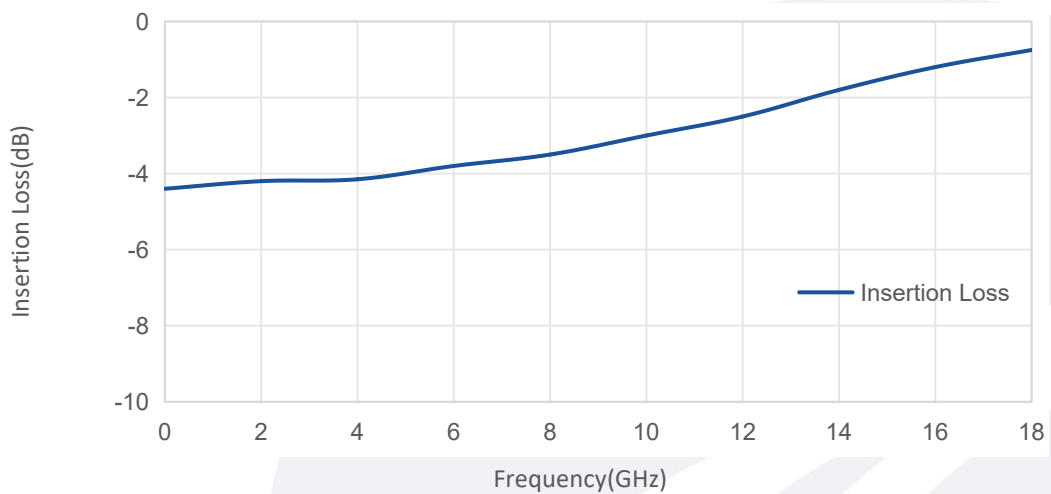
Base Number	Description	Revision
TLME-DC18G-4.5	Equalizer, DC-18GHz, Insertion loss:4.5dB@DC; 0.8dB@18GHz 2.92mm Male/2.92mm Female	Rev.1.1
TLME-DC18G-4.5-MM	Equalizer, DC-18GHz, Insertion loss:4.5dB@DC; 0.8dB@18GHz 2.92mm Male/2.92mm Male	Rev.1.1
TLME-DC18G-4.5-FF	Equalizer, DC-18GHz, Insertion loss:4.5dB@DC; 0.8dB@18GHz 2.92mm Female/2.92mm Female	Rev.1.1

Typical Performance Data:

Return Loss vs Frequency



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.