Suzhou Talent Microwave,Inc
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Broadband Bias Tee

10MHz-18GHz/100V DC/SMA

Model: TLBT-10M18G-100-SP

TLBT-10M18G-100-SP is a bias tee that operates from 10 MHz to 18 GHz. The bias tee offers 1.2 dB insertion loss and -15dB typical return loss. The bias tee can handle up to +100 VDC bias voltage and 600 mA current. The RF ports are equipped with SMA female connectors and DC port is equipped with solder pin.

Features:

- Frequency range:10MHz-18GHz
- Low Insertion Loss
- High Voltage
- High Current Capacity

Applications:

- Test Lab
- Sub-assemblies
- System Integrations

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	10MHz		18GHz	
Insertion Loss		1.2	2	dB
Return Loss		-15		dB
Isolation		30		dB
DC Voltage			100	V DC
DC Current			600	mA
RF Power			10	W

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Connector	Solder Pin	
Case Material	Aluminum	
Finish	Ture color conductive oxidation	
Size	50.8*38.1*25.4	mm

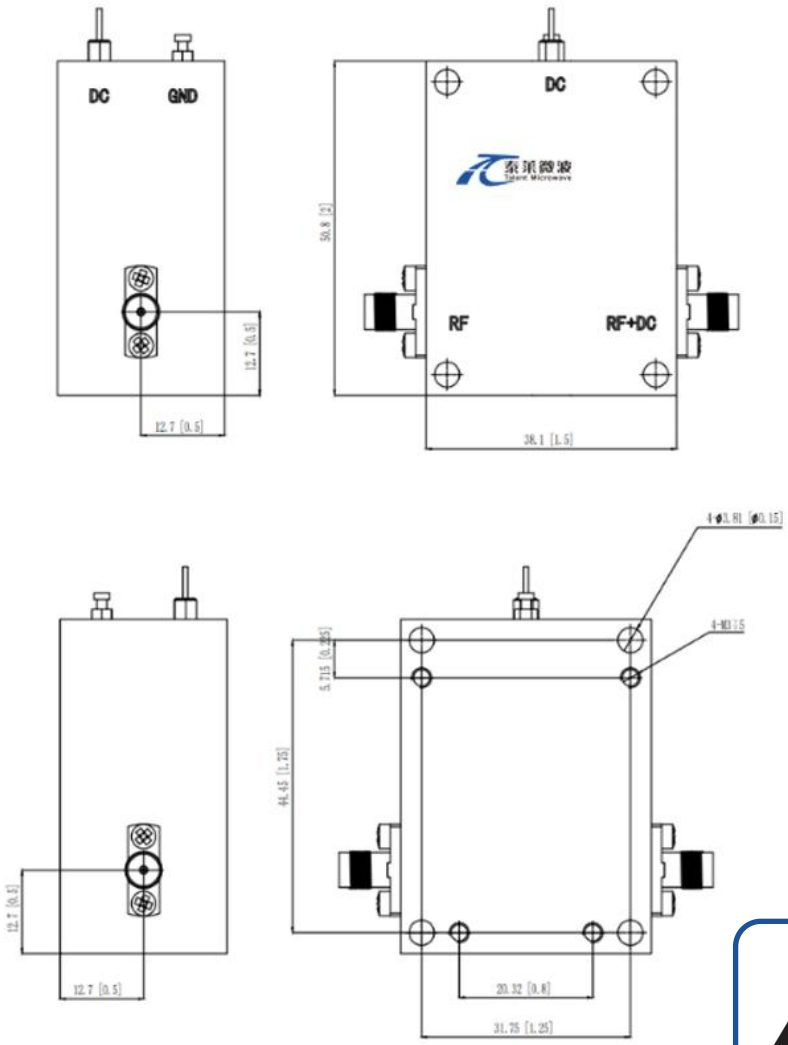
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Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+100 V
RF Input Power	+40 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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Environmental Conditions:

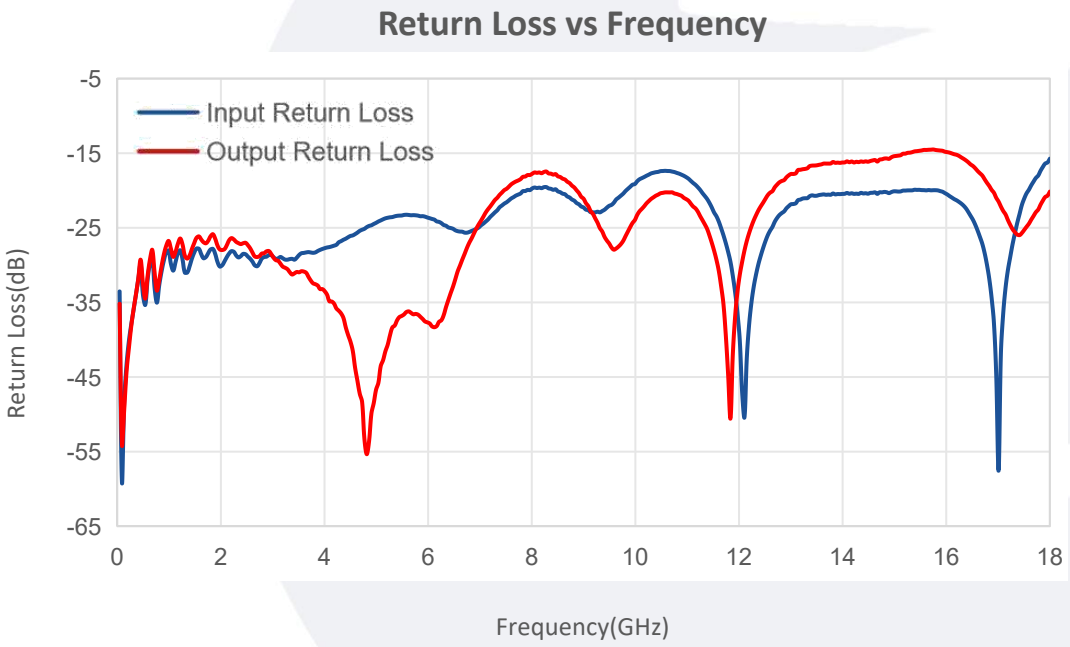
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+70	℃
Non-operating Temperature	-55		+85	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TLBT-10M18G-100-SP	Broadband Bias Tee SMA,10MHz-18GHz,+100V	Rev.1.1

Notes:
1. All data taken @ +23° C unless otherwise specified.
2. Dimensionsandspecificationsmay be changed withoutprior notice.

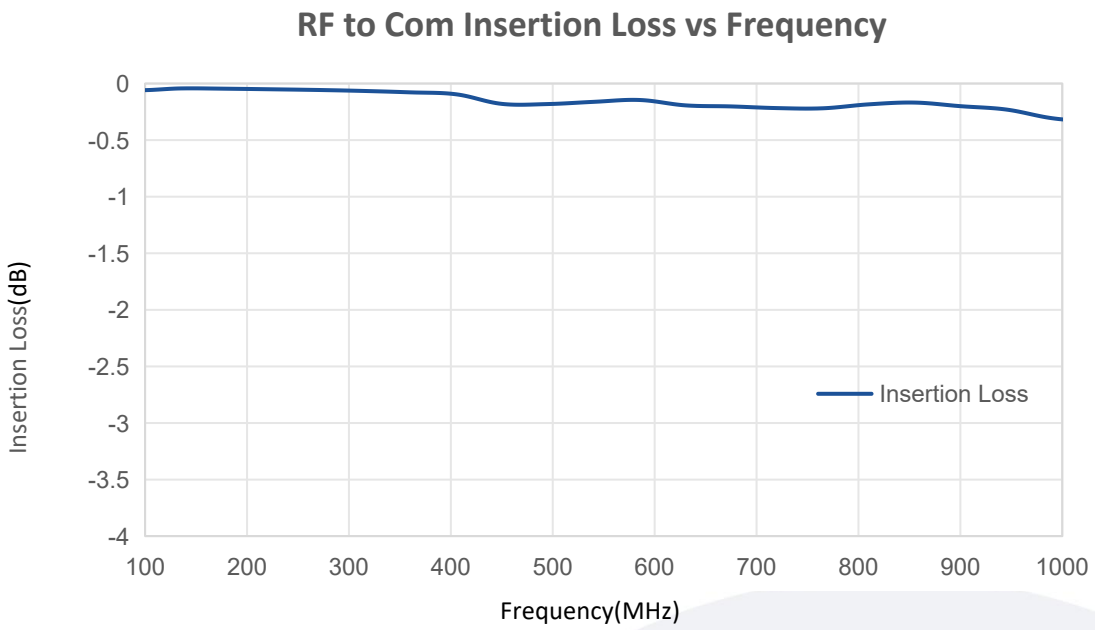
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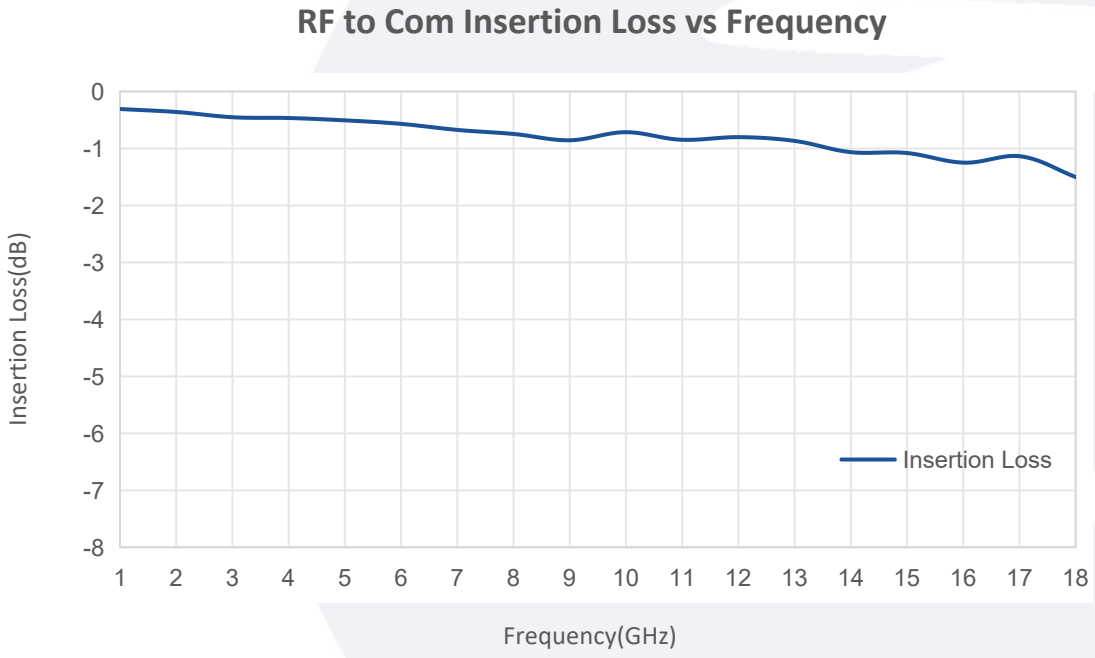


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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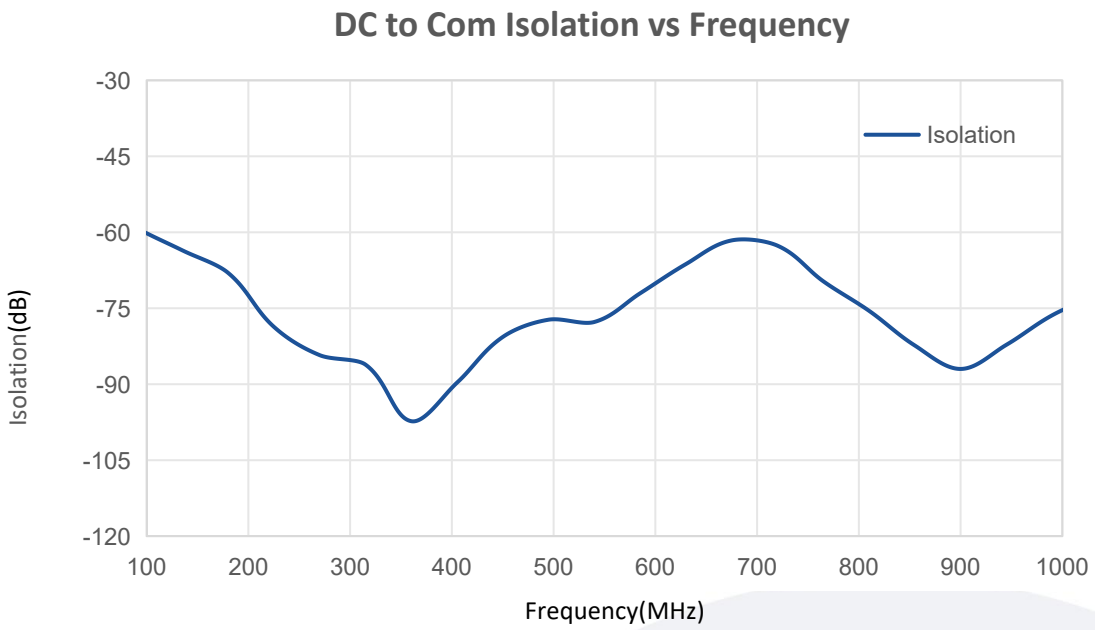


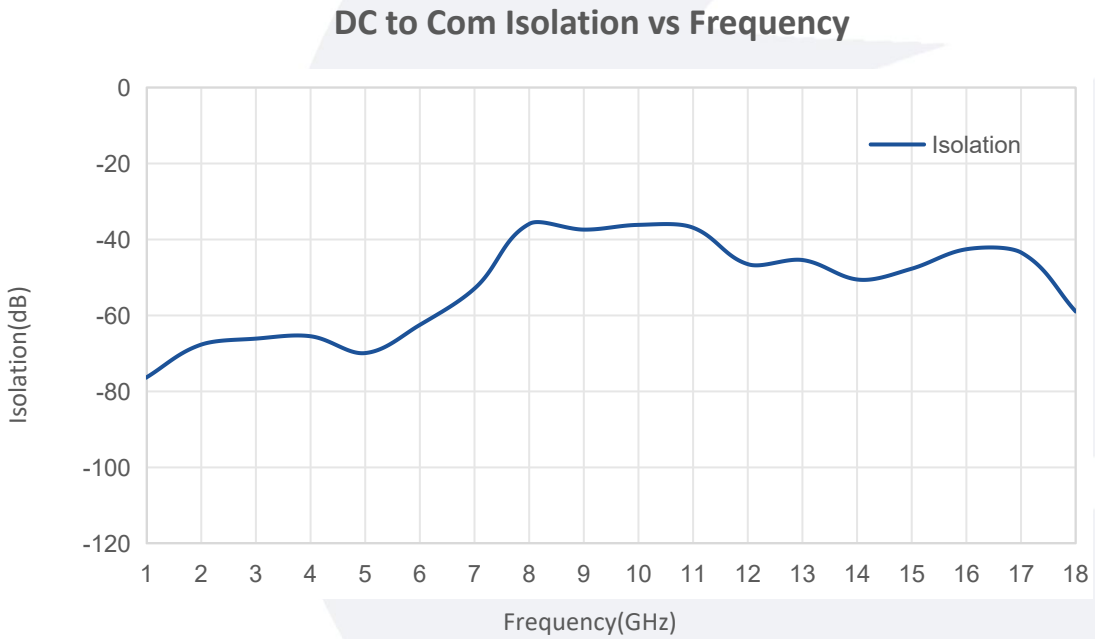


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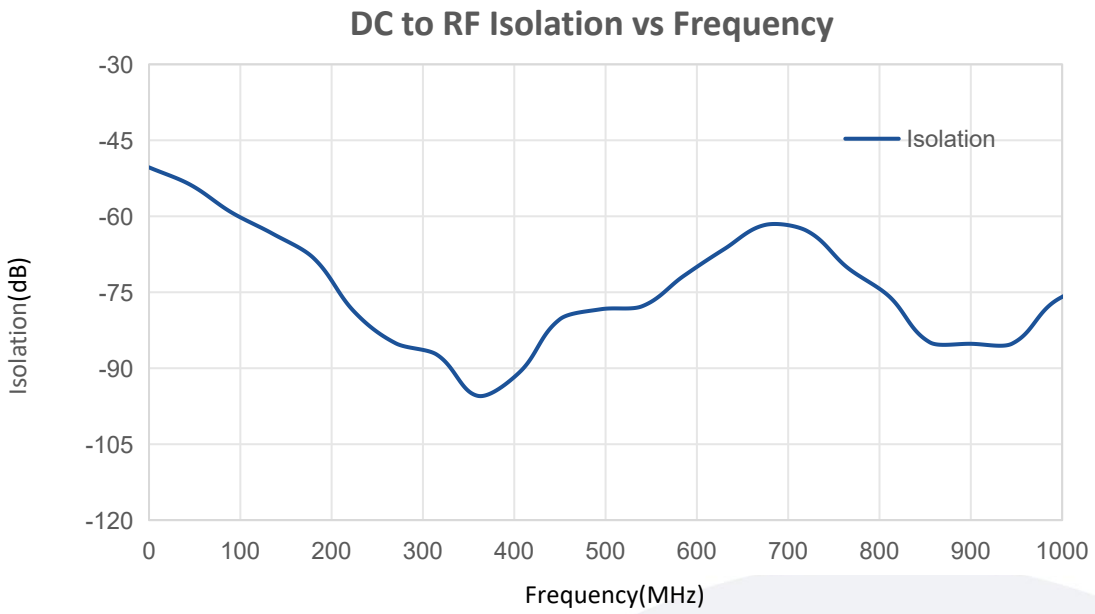


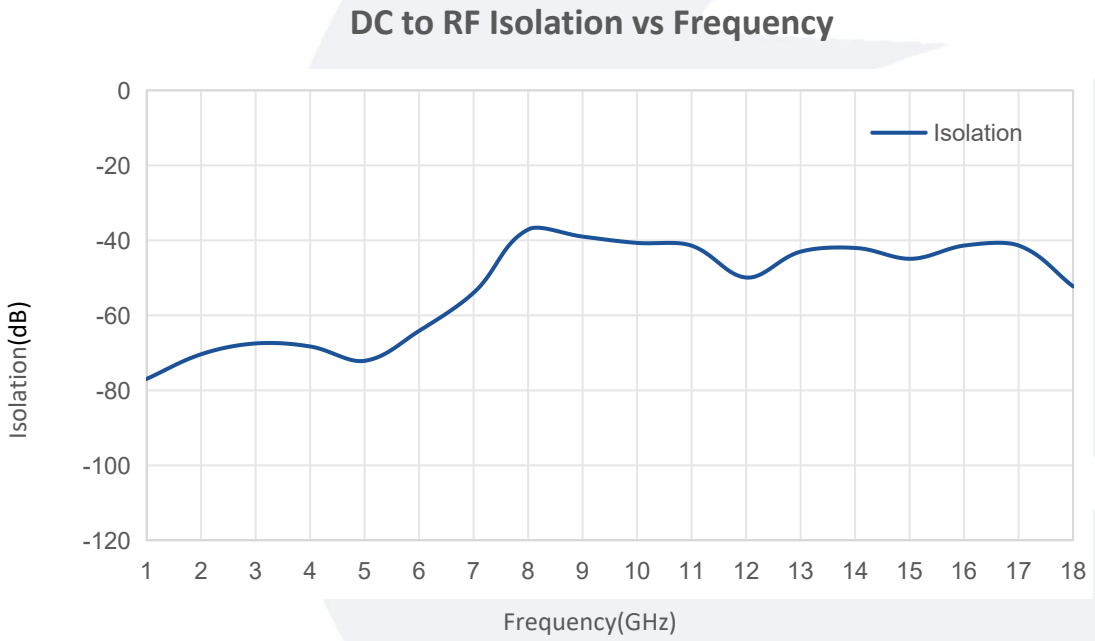


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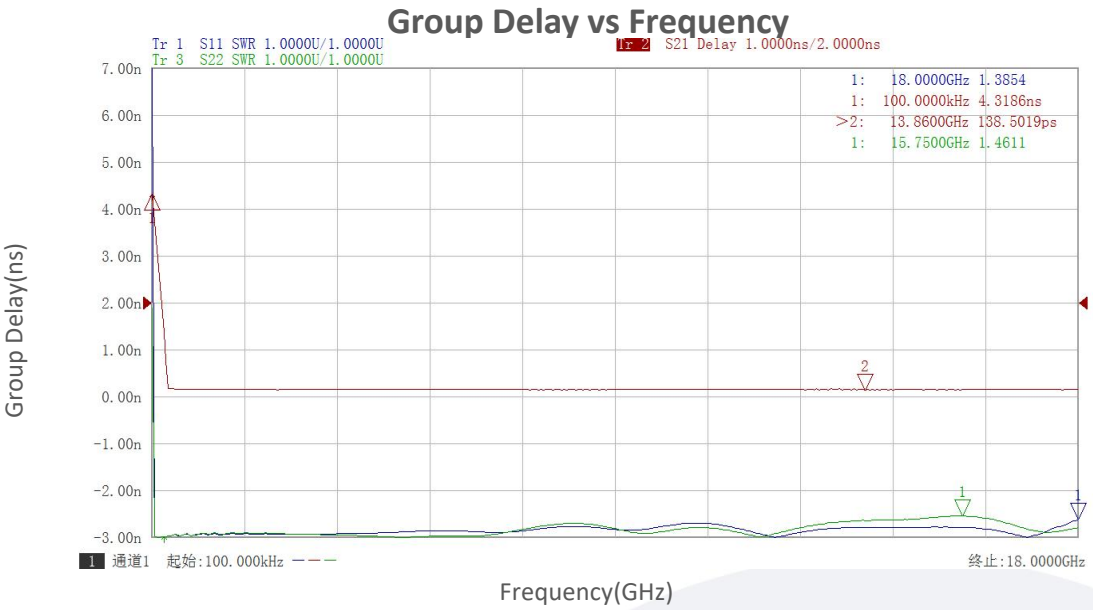




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