泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
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Broadband Bias Tee

16KHz-43GHz/50V DC/2.92mm

Model: TLBT-16K43G-50H-KS

TLBT-16K43G-50H-KS is a bias tee that operates from 16 KHz to 43 GHz. The bias tee offers 4 dB insertion loss and -12 dB typical return loss. The bias tee can handle up to +50 VDC bias voltage and 1.1 A current. The RF ports are equipped with 2.92mm female connectors and DC port is equipped with SMA female connector.

Features:

- Frequency range:16KHz-43GHz
- Low Insertion Loss
- High Voltage
- High Current Capacity

Applications:

- Test Lab
- Sub-assemblies
- System Integrations

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	16KHz		43GHz	
插损 Insertion Loss			4	dB
回波损耗 Return Loss		-12		dB
隔离 Isolation		30		dB
直流电压 DC Voltage			50	V DC
直流电流 DC Current			1.1	A
射频功率 RF Power			1	W

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
直流接口 DC Connector	SMA Female	
壳体材料 Case Material	Aluminum	
表面处理 Finish	Blue Paint	
尺寸 Size	30.48*16*12.7	mm

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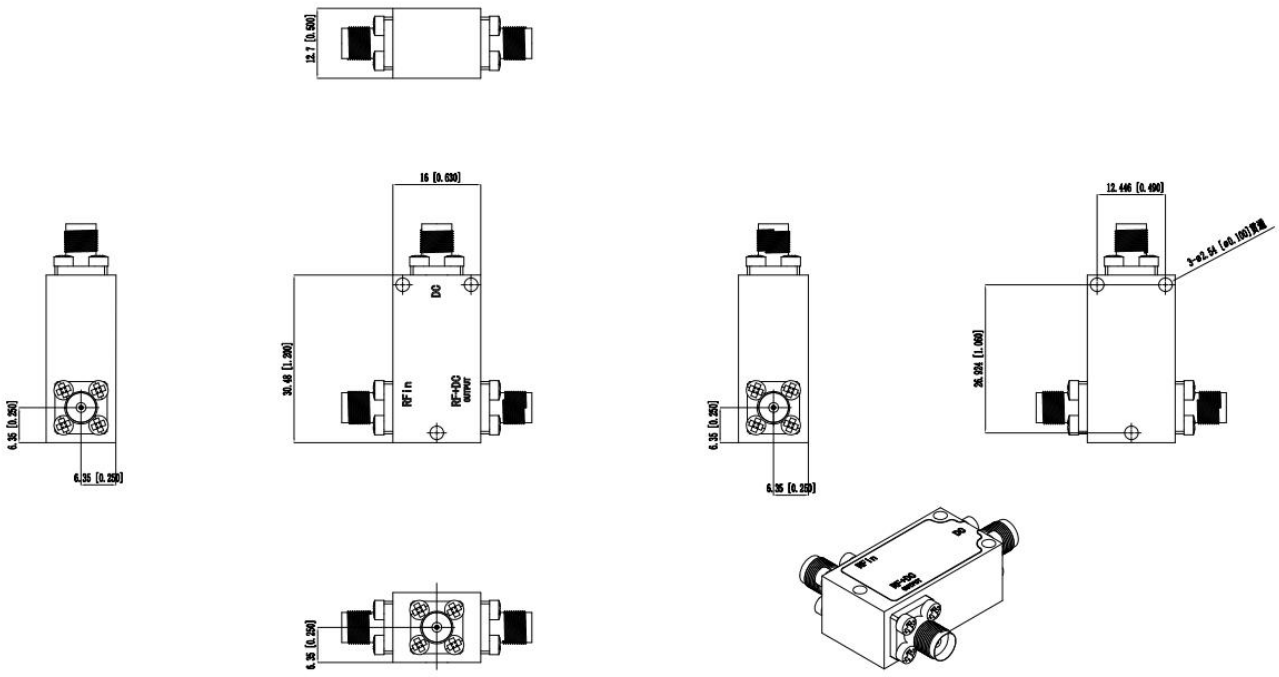
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+50 V
输入功率 RF Input Power	+30 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

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温度环境 Environmental Conditions:

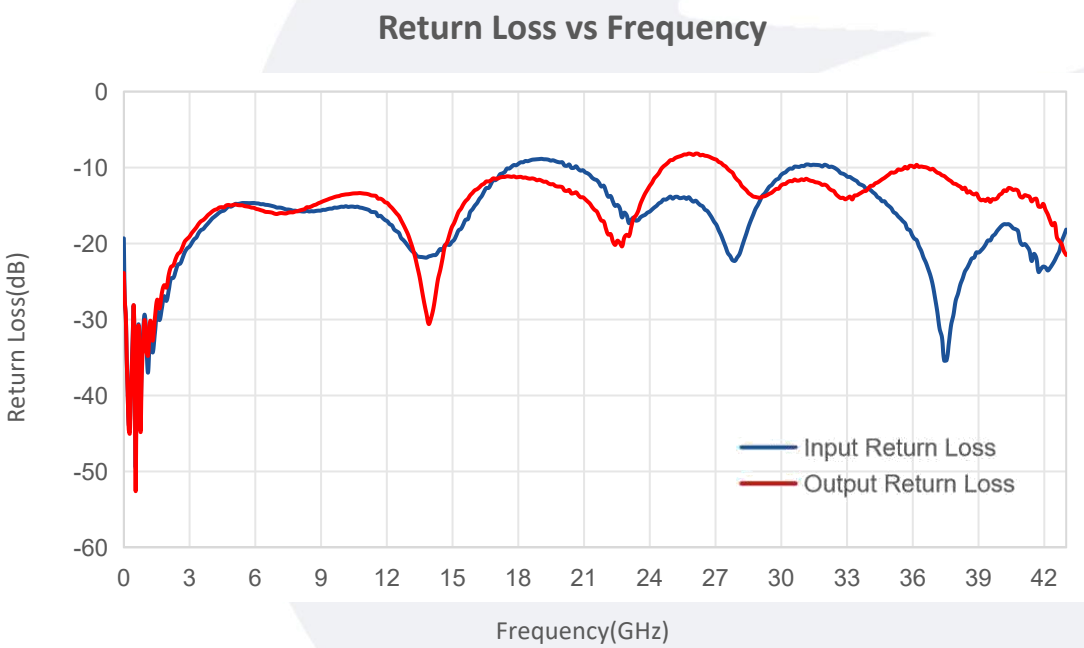
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+70	℃
存储温度 Non-operating Temperature	-55		+85	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half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

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLBT-16K43G-50H-KS	Broadband Bias Tee 2.92mm,16KHz-43GHz,+50V	Rev.1.1

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

典型曲线 Typical Performance Data:



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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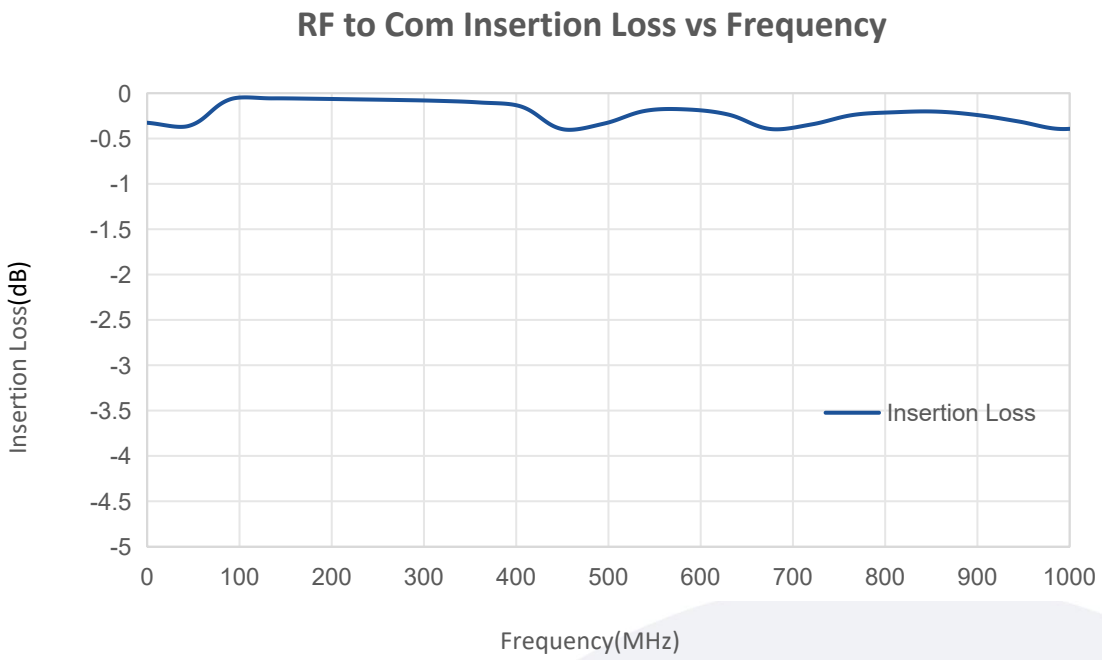

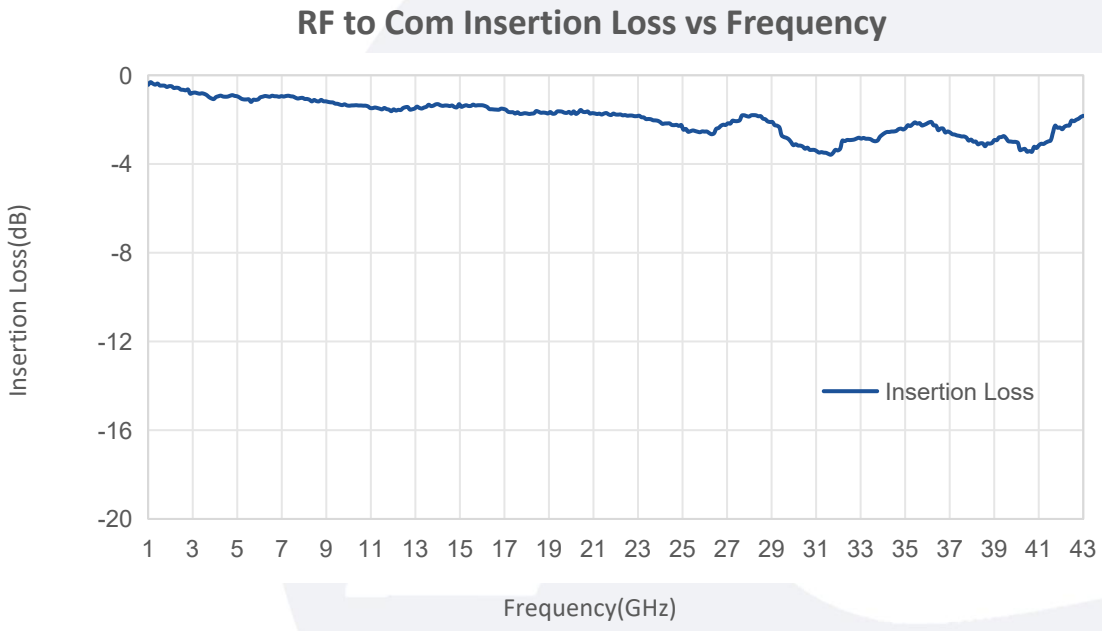

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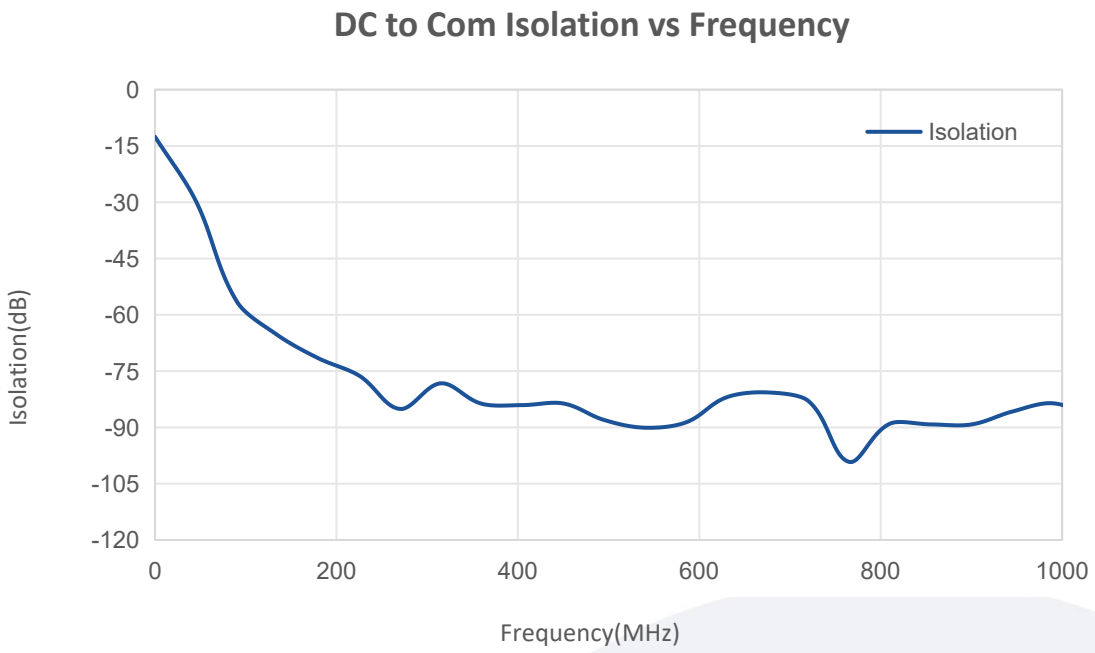

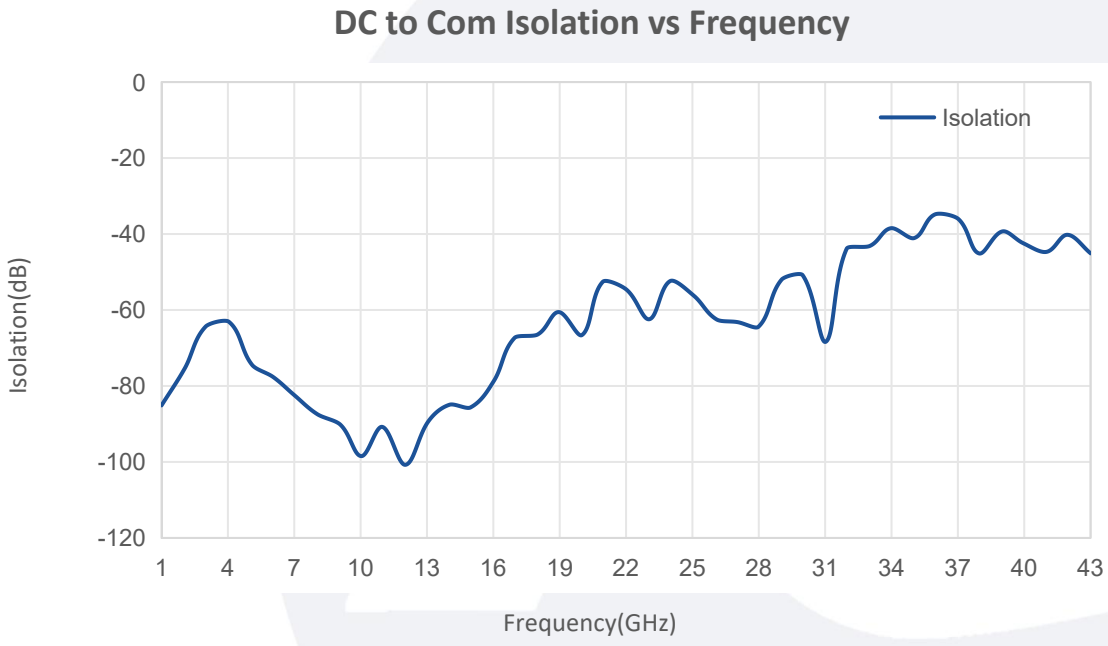

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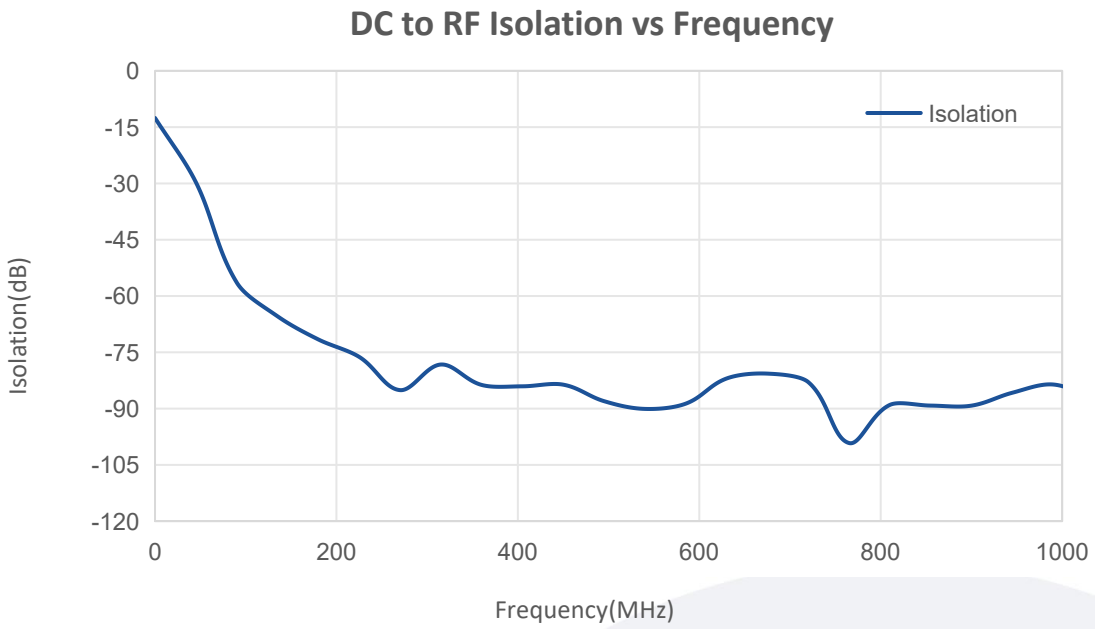

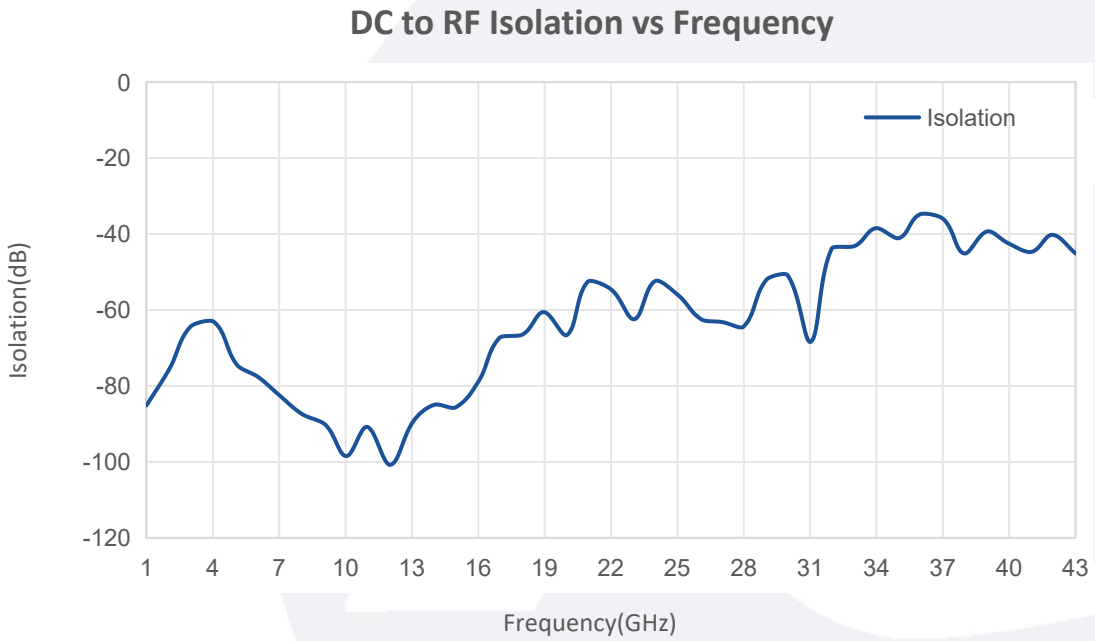

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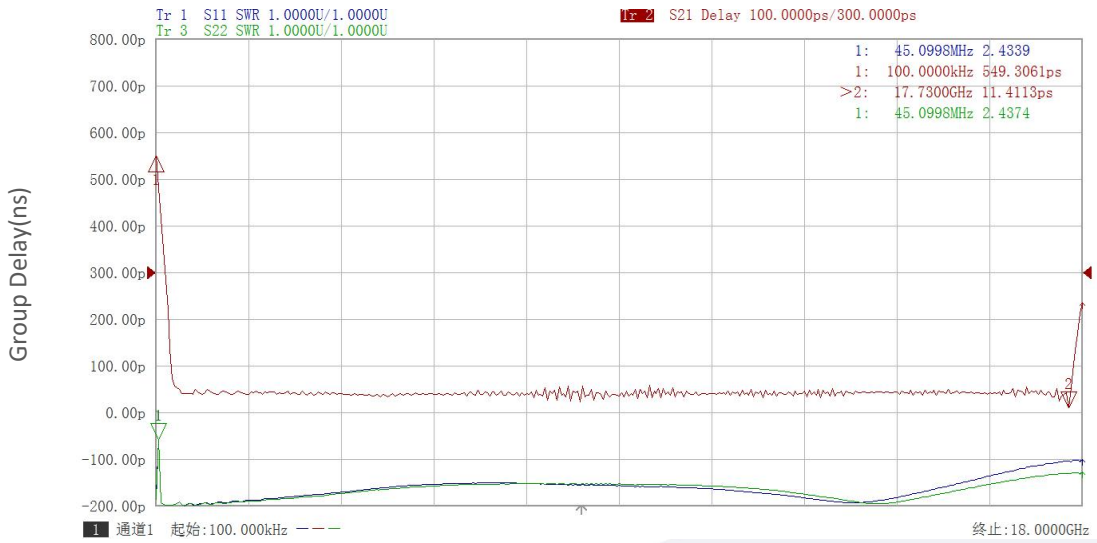
典型曲线 Typical Performance Data:

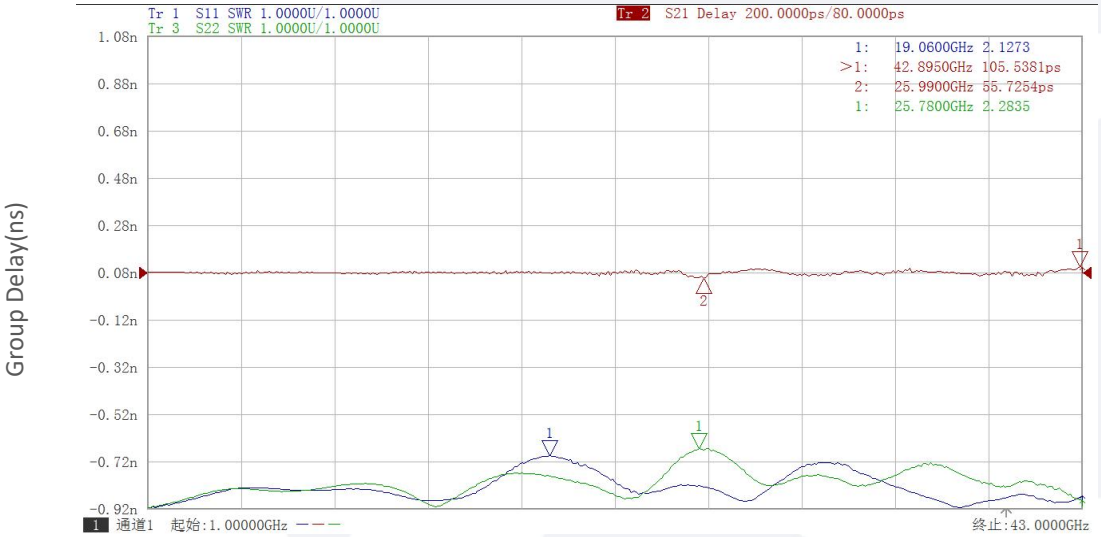
Group Delay vs Frequency



Group Delay(ns)

Frequency(GHz)

Group Delay vs Frequency



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Frequency(GHz)

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