Suzhou Talent Microwave,Inc
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Broadband Bias Tee

30KHz-65GHz /20V DC/1.85 mm　　　　Model: TLBT-30K65G-25-VS

TLBT-30K65G-25-VS is a bias tee that operates from 30 kHz to 65 GHz. The bias tee offers 4 dB insertion loss and -15 dB return loss. The bias tee can handle up to +25 VDC bias voltage and 500 mA current. The RF ports are equipped with 1.85 mm female connectors. Other connector types are available under different model numbers.

Features:

- Ultra Wide Band:30KHz-65GHz
- 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		30KHz-65GHz		
插损 Insertion Loss		4.0		dB
回波损耗 Ruturn Loss		-15		dB
隔离 Isolation		30		dB
直流电压 DC Voltage			+25	V DC
直流电流 DC Current			500	mA
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	1.85mm Female/1.85mm 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	15.24*30.07*12.7	mm
重量 Weight	45	g

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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	+25 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

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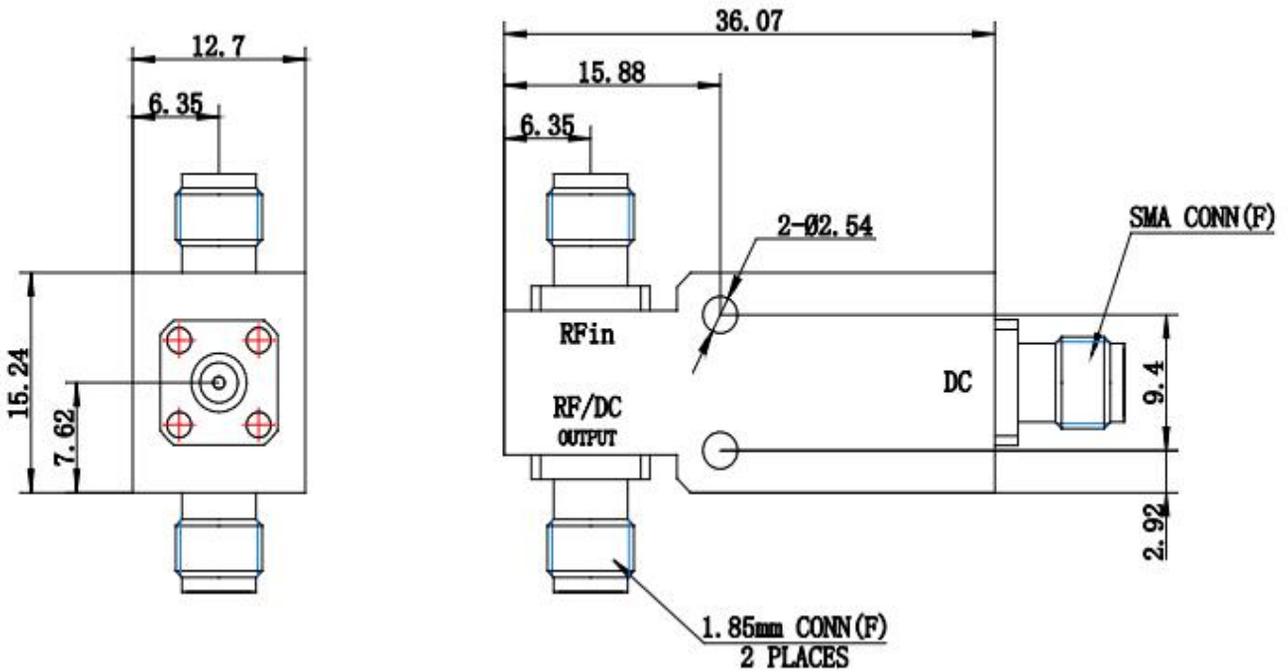
温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	0		+50	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			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-30K65G-25-VS	Broadband Bias Tee 1.85mm,30KHz-65GHz,25V	Rev.1.1

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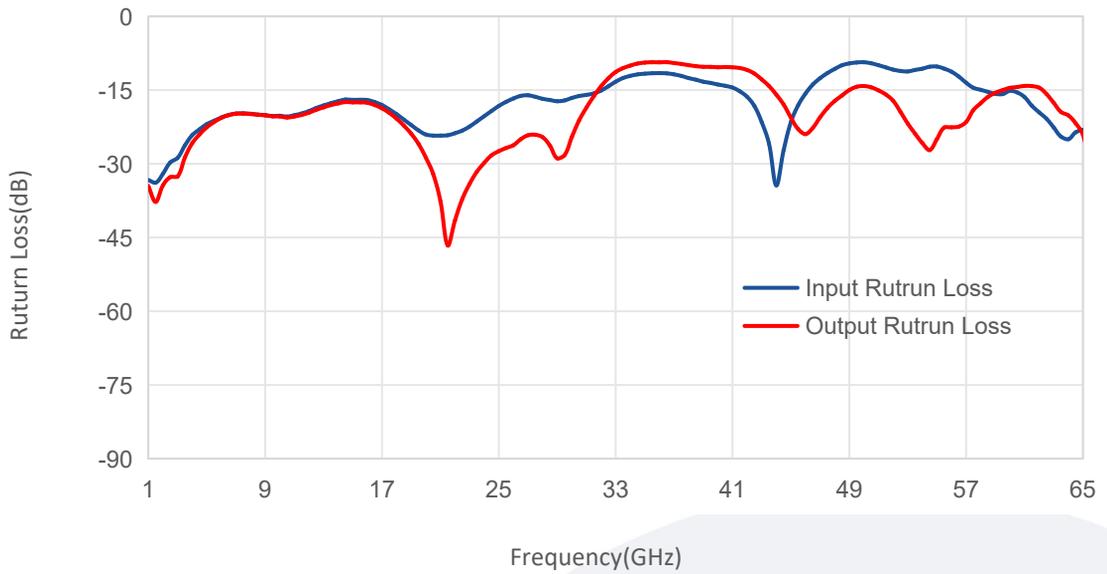
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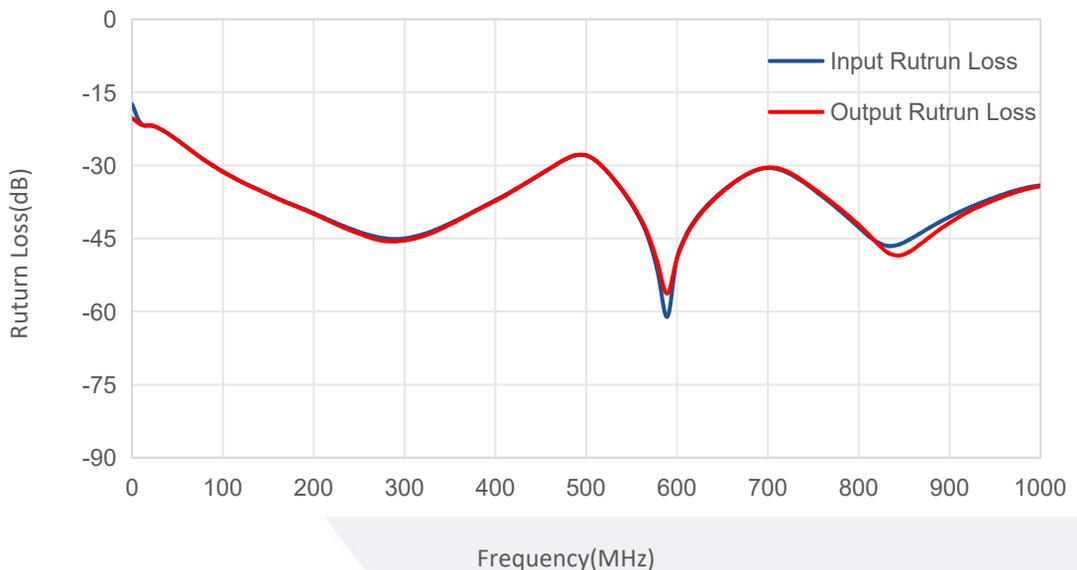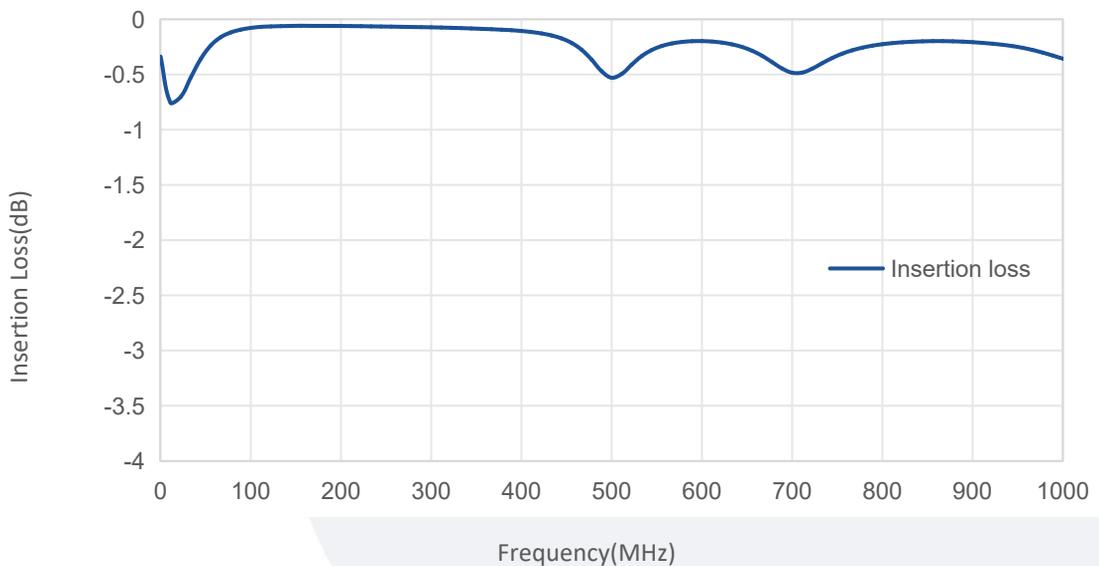
Ruturn Loss vs Frequency

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.

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典型曲线 Typical Performance Data:

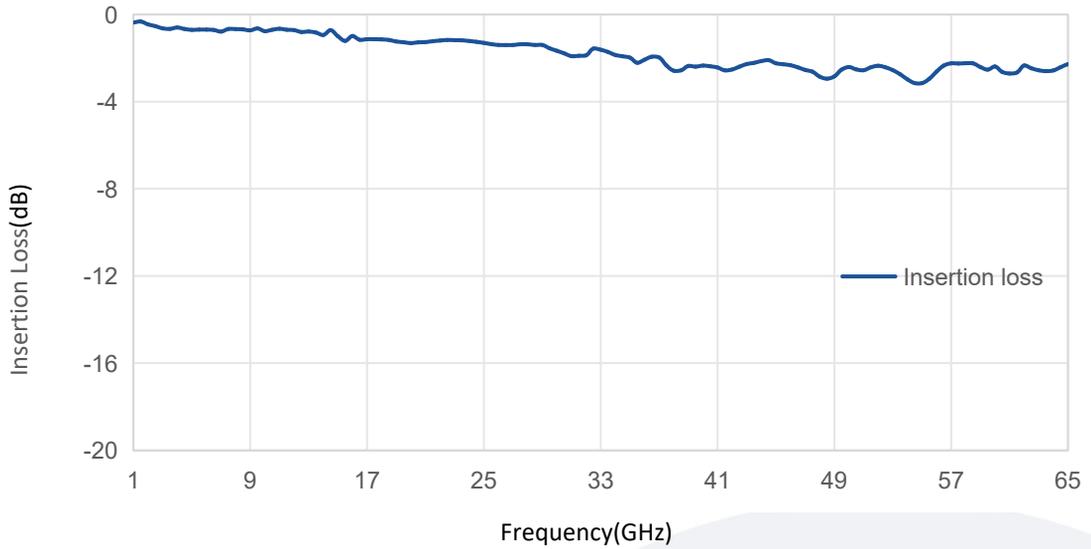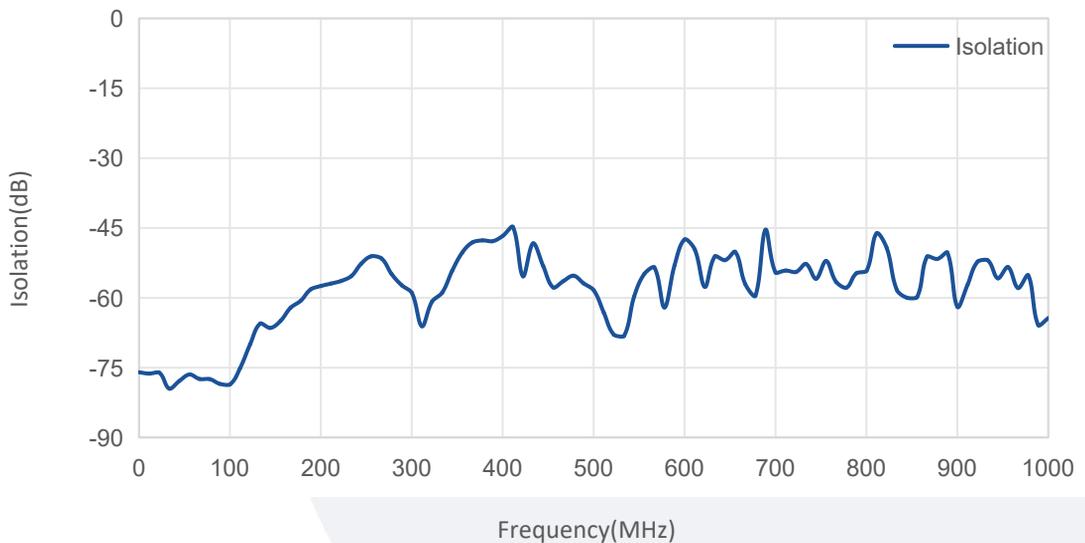### Ruturn Loss vs Frequency

RF to Com Insertion Loss vs Frequency

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典型曲线 Typical Performance Data:

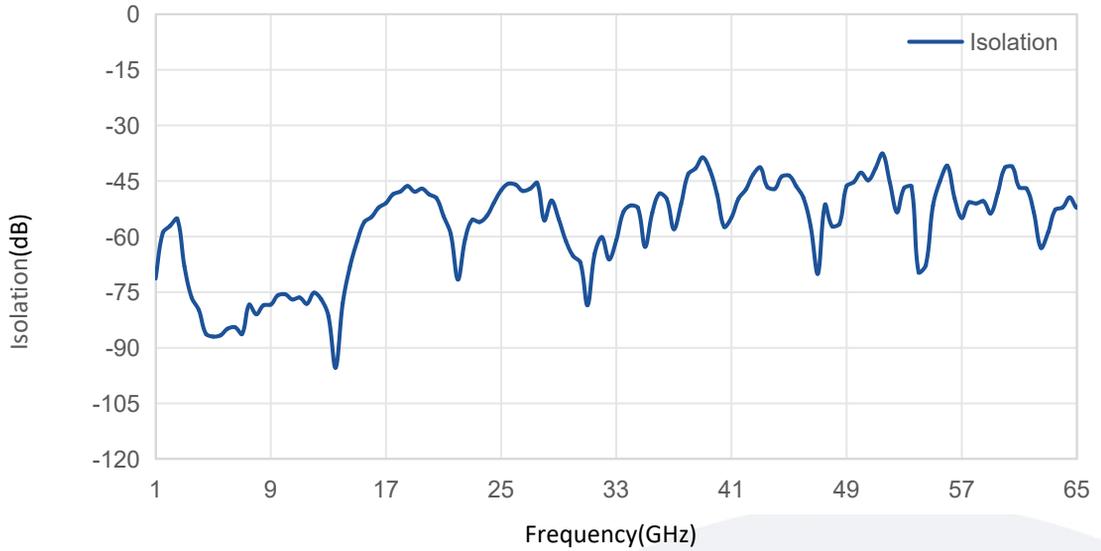### RF to Com Insertion Loss vs Frequency
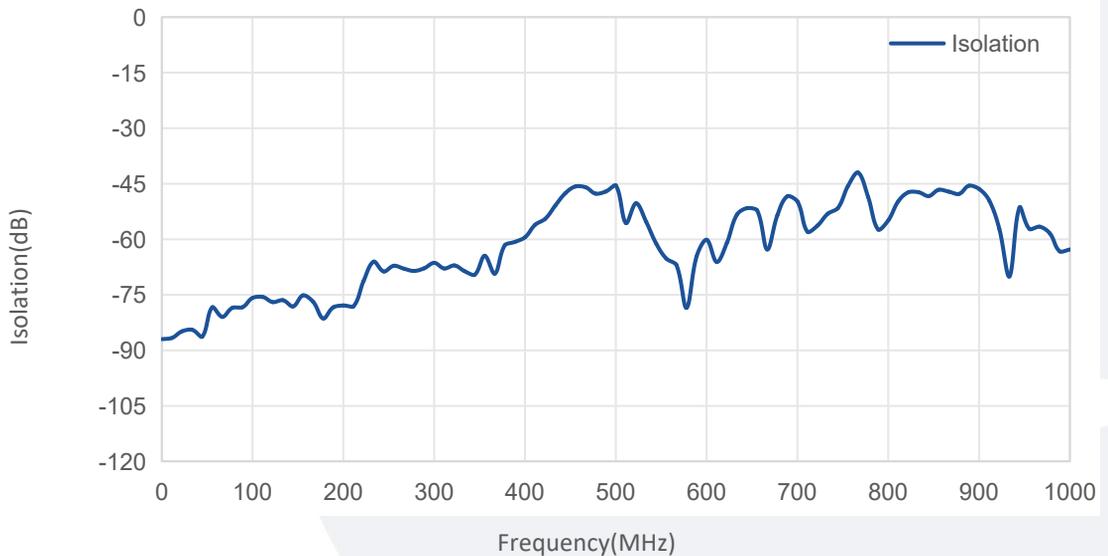

DC to Com Isolation vs Frequency

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典型曲线 Typical Performance Data:
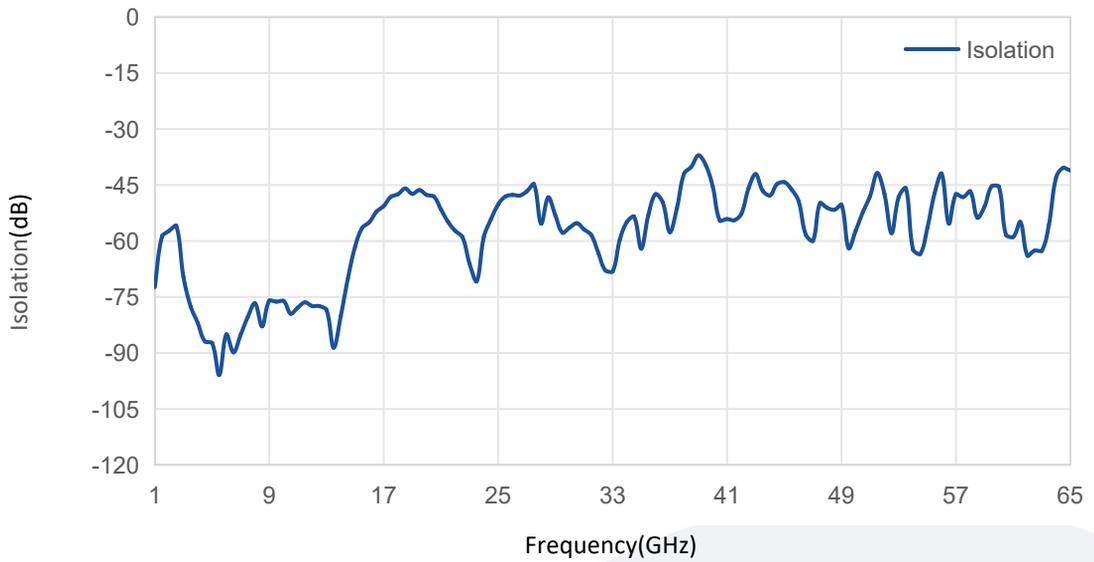
DC to Com Isolation vs Frequency

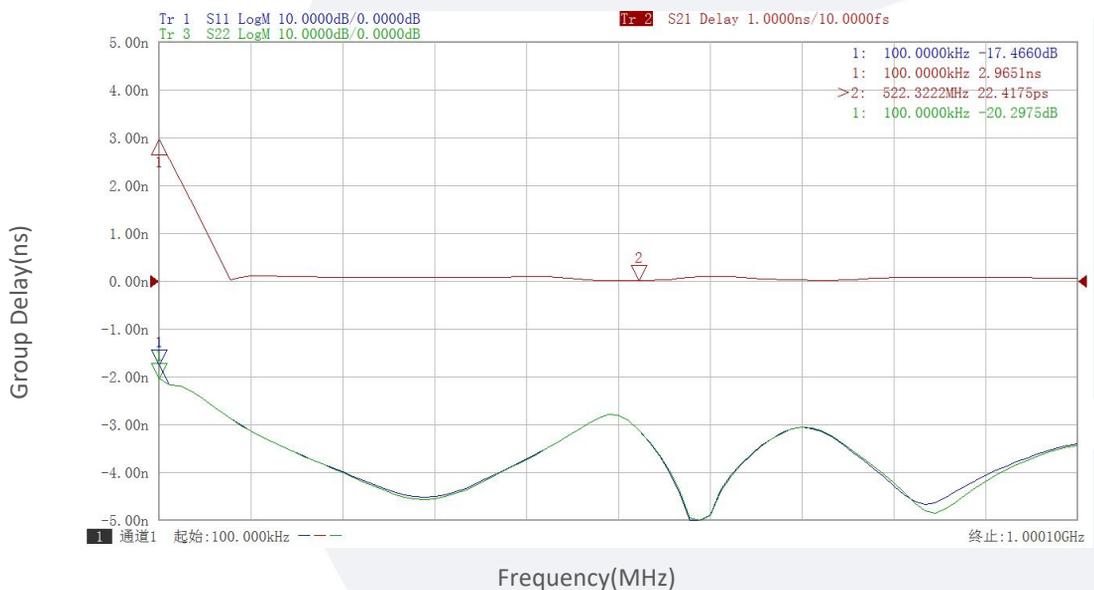### DC to RF Isolation vs Frequency

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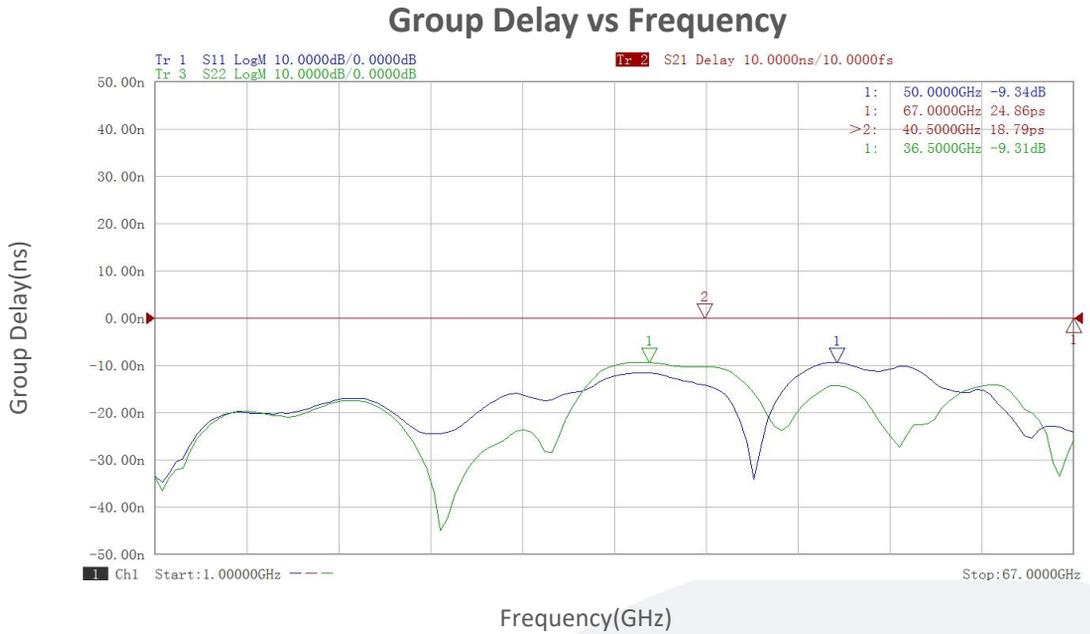### DC to RF Isolation vs Frequency

Group Delay vs Frequency

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典型曲线 Typical Performance Data:

Group Delay vs Frequency

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