

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 Return 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:

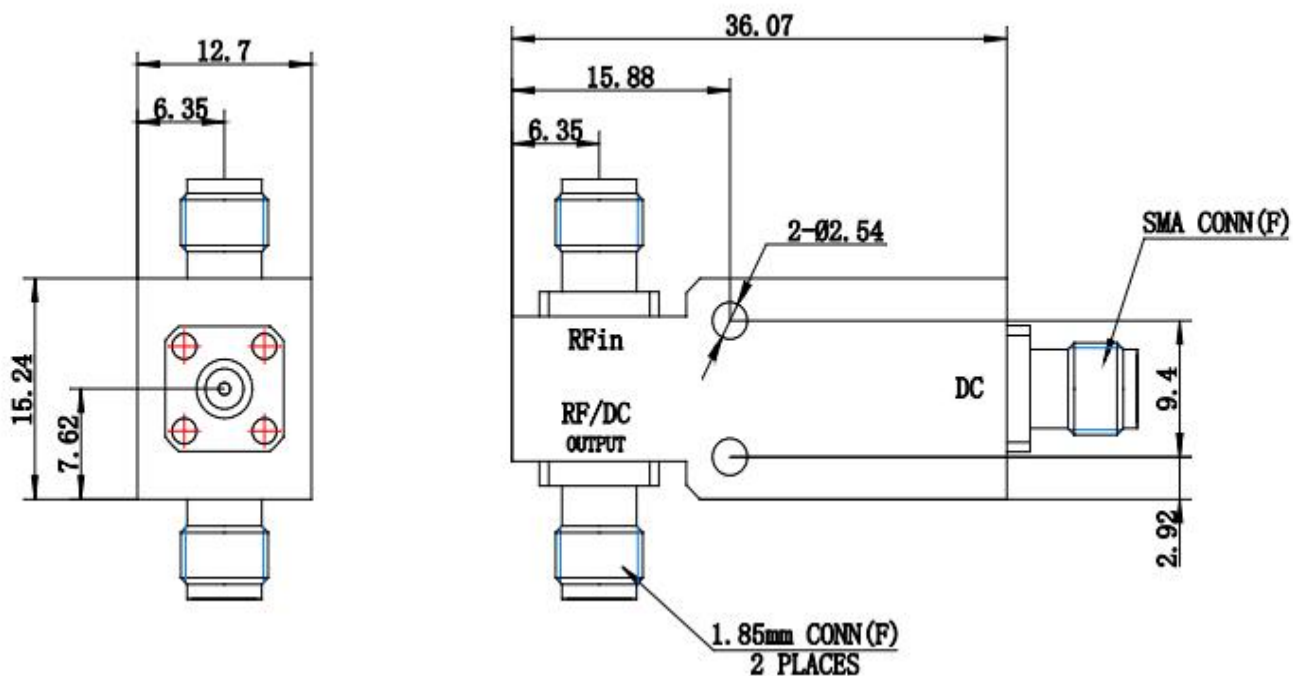
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	1.85mm Female/1.85mm Female	
直流接口 DC Connector	SMA Female	
壳体材料 Case Material	Aluminum	
表面处理 Finish	Blue Paint	
尺寸 Size	15.24*30.07*12.7	mm
重量 Weight	45	g

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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

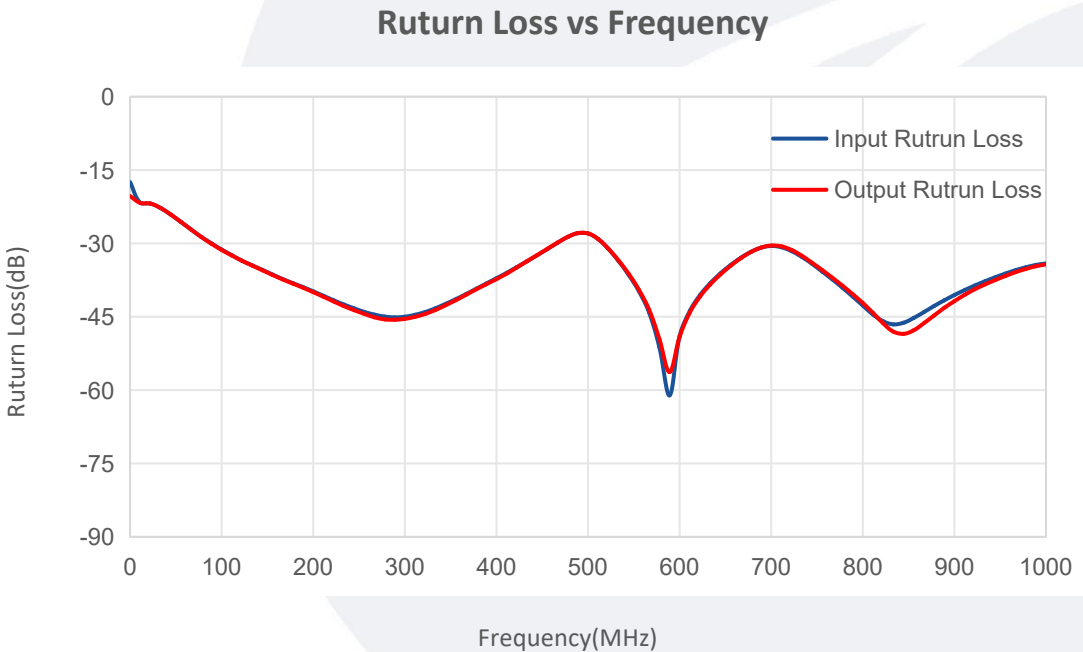
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	0		+50	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half 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. Dimensions and specifications may be changed without prior notice.

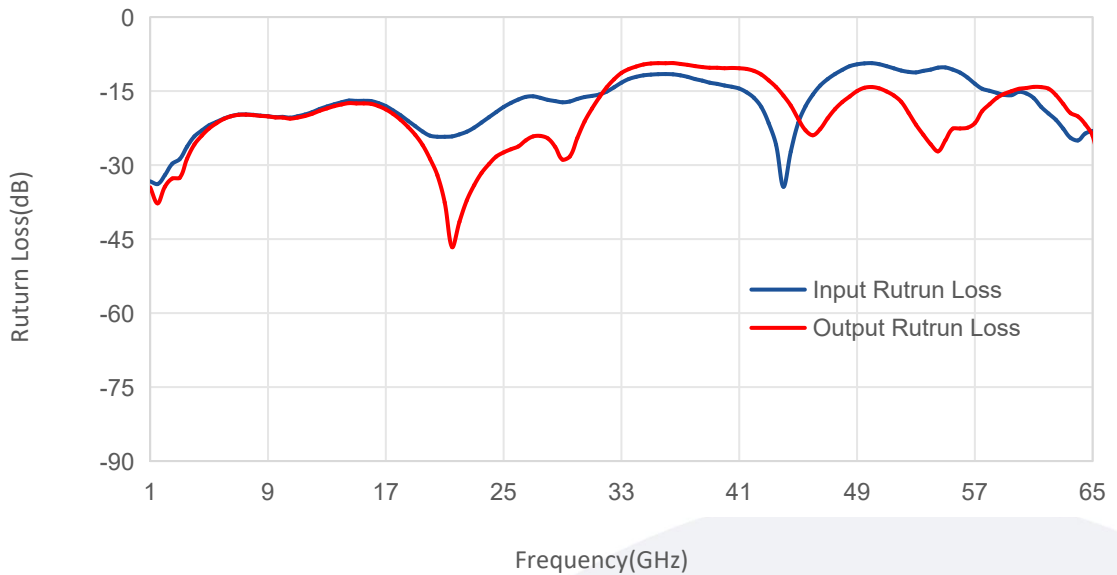
典型曲线 Typical Performance Data:



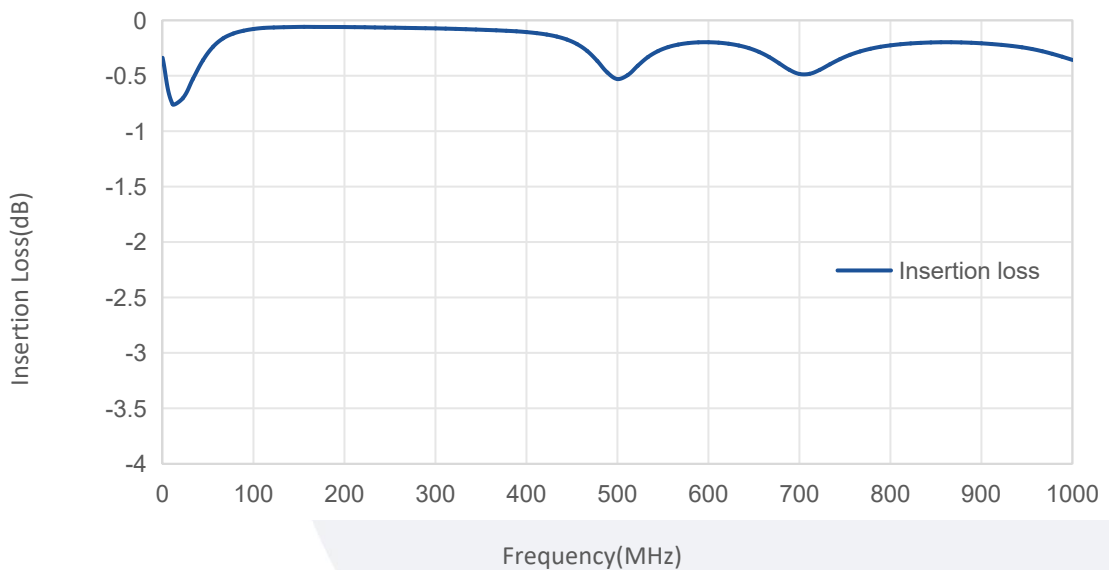
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

Return Loss vs Frequency



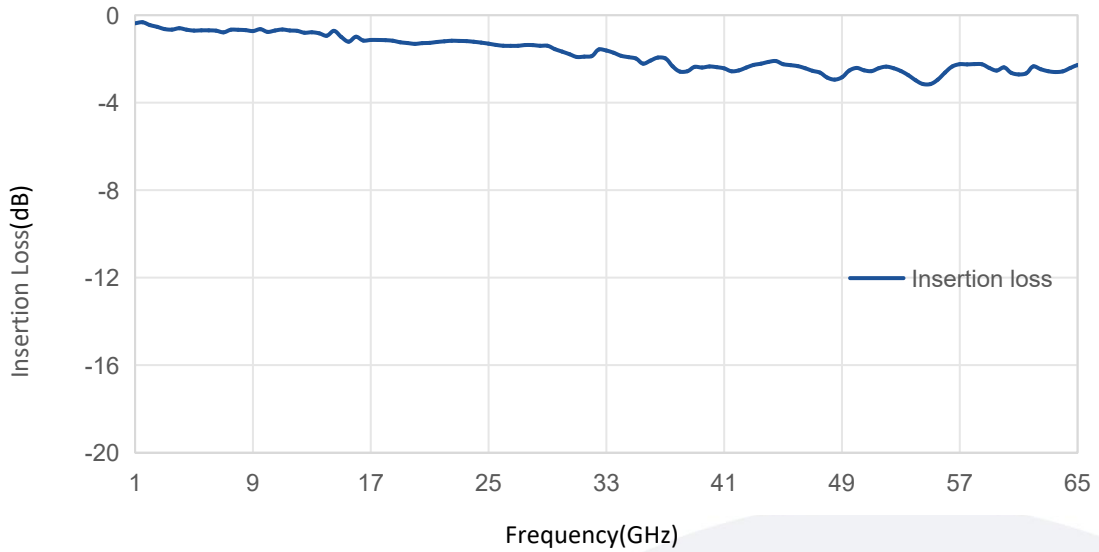
RF to Com Insertion Loss vs Frequency



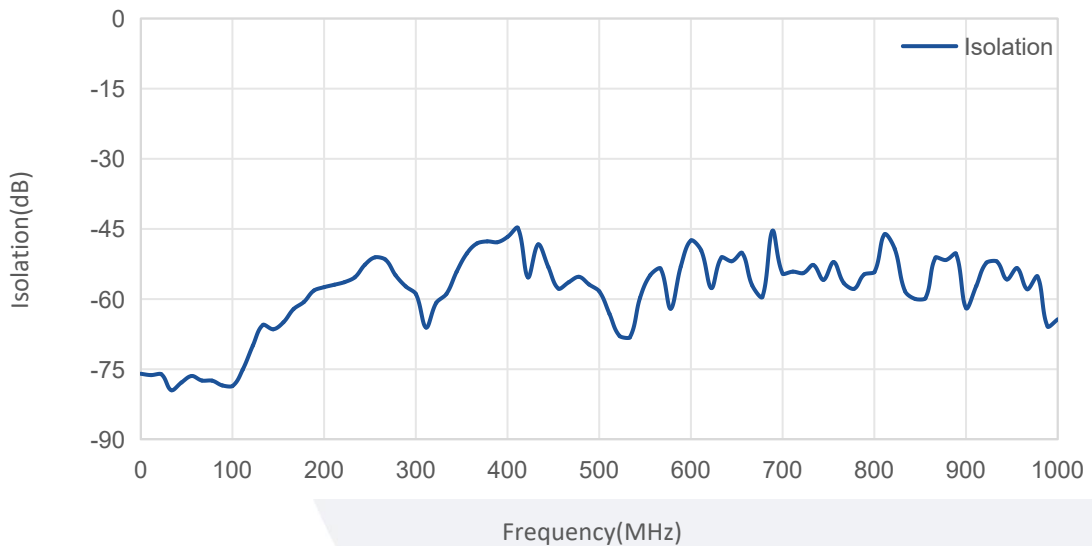
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

RF to Com Insertion Loss vs Frequency



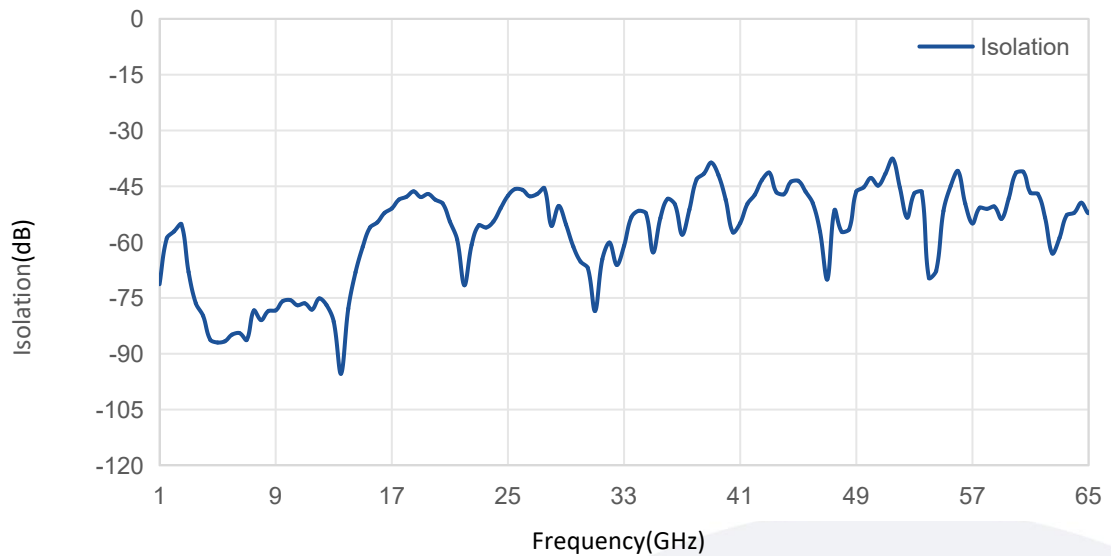
DC to Com Isolation vs Frequency



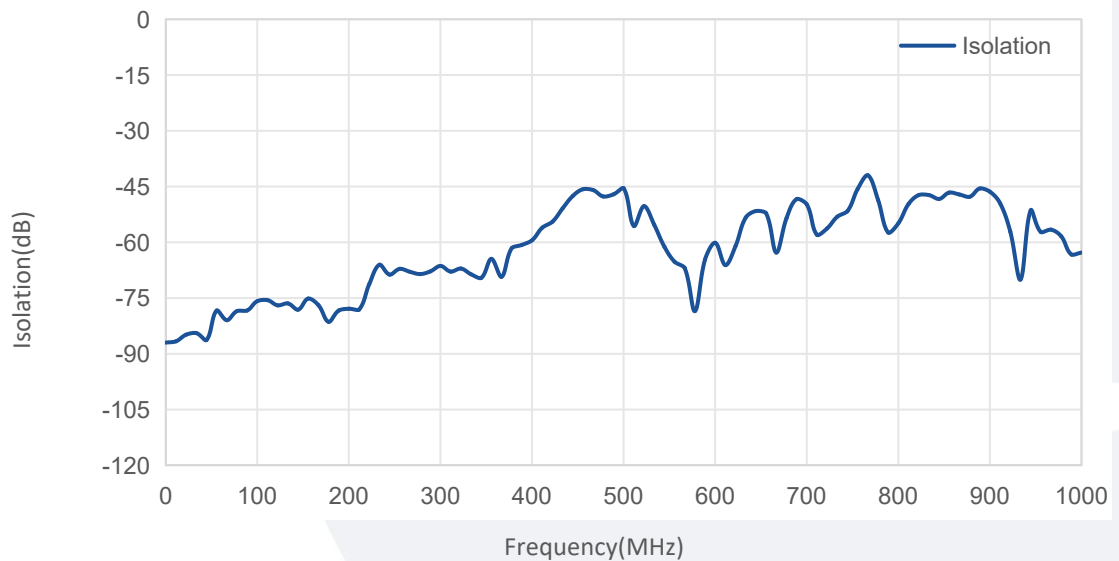
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典型曲线 Typical Performance Data:

DC to Com Isolation vs Frequency



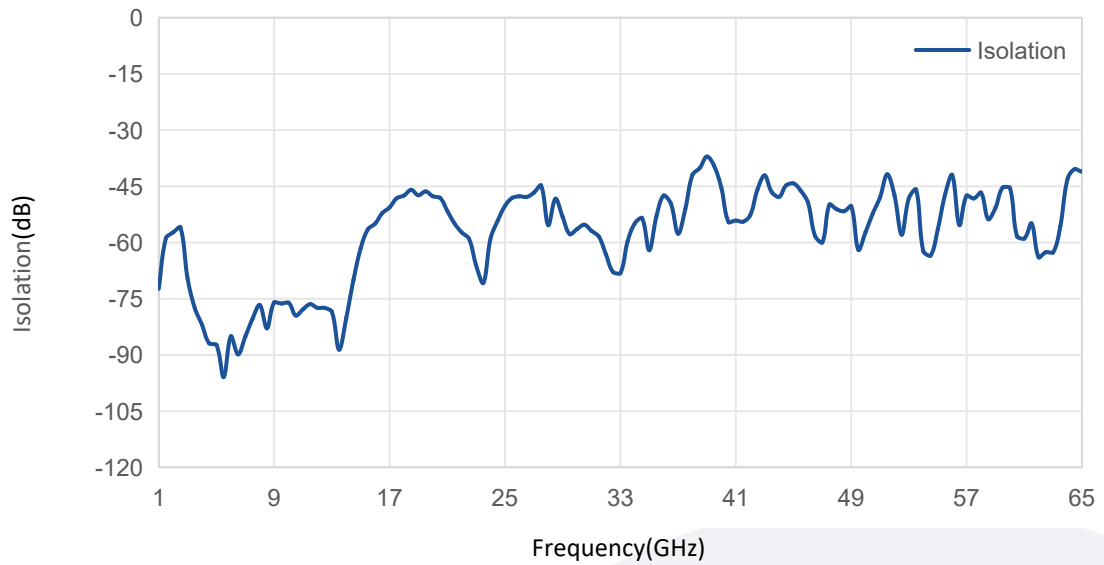
DC to RF Isolation vs Frequency



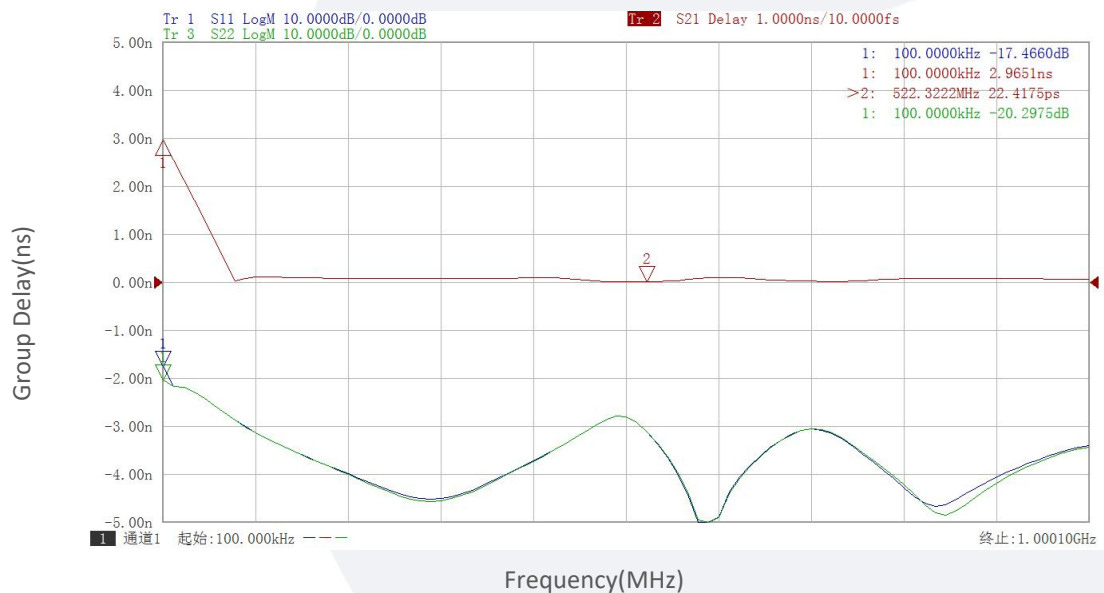
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典型曲线 Typical Performance Data:

DC to RF Isolation vs Frequency

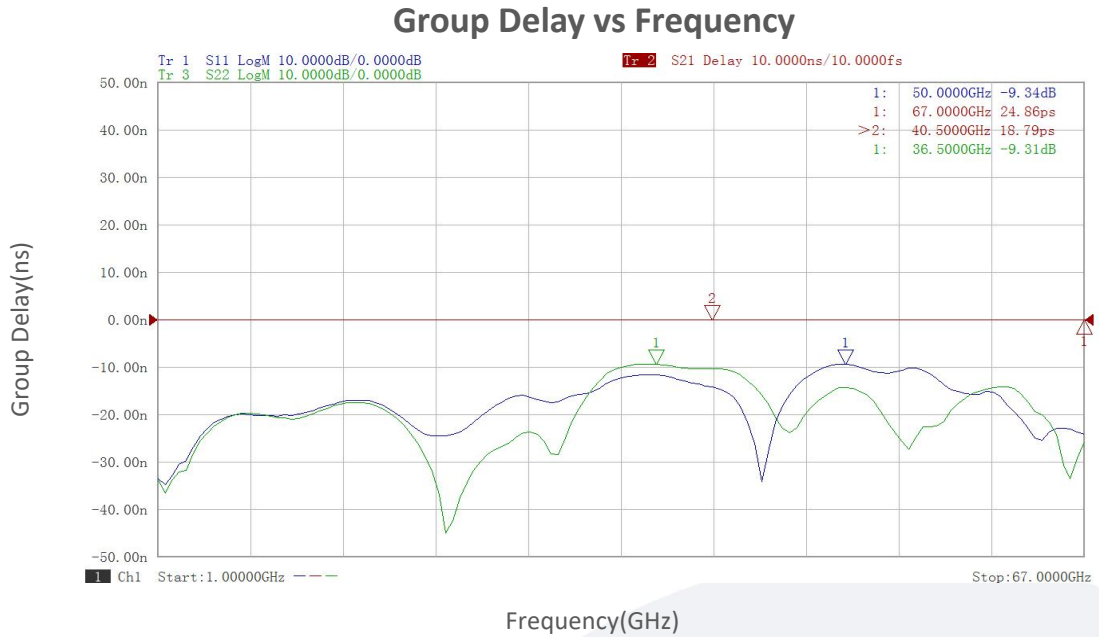


Group Delay vs Frequency



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典型曲线 Typical Performance Data:



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