

## Absorptive, Broadband MMIC Switch

### 9K-8GHz/SPDT/ SMA Female/Phase matched

Model: TLSPDT9K8GA-PM-LAN

The TLSPDT9K8GA-PM-LAN is an absorptive MMIC switch that operates between 9K and 8 GHz. The SPDT switch offers 50 dB port-to-port isolation with a typical switching speed of 15ms. The input and output connectors of the switch are SMA female.

#### Features:

- Frequency range: 9K-8GHz
- Low Insertion Loss: 1.5 dB
- Power Handling : 27 dBm
- High Isolation
- Switch Type: Absorptive
- Phase Matched

#### Applications:

- Communication Systems
- Automatic Test Equipment
- Switching Network

#### 电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	9KHz		8GHz	
插损 Insertion Loss		1.5	2	dB
隔离 Isolation		50		dB
切换速度 Switch Speed		15		ms
输入驻波 Input VSWR		1.5	2	:1
输出驻波 Output VSWR		1.5	2	:1
耐功率 Power Handling			27	dBm
直流电压 DC Voltage		5		V DC
直流电流 DC Supply Current		500		mA
开关类型 Switch type	Absorptive			
阻抗 Impedance	50			Ohms

## 绝对最大值 Absolute Maximum Ratings :

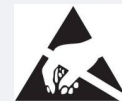
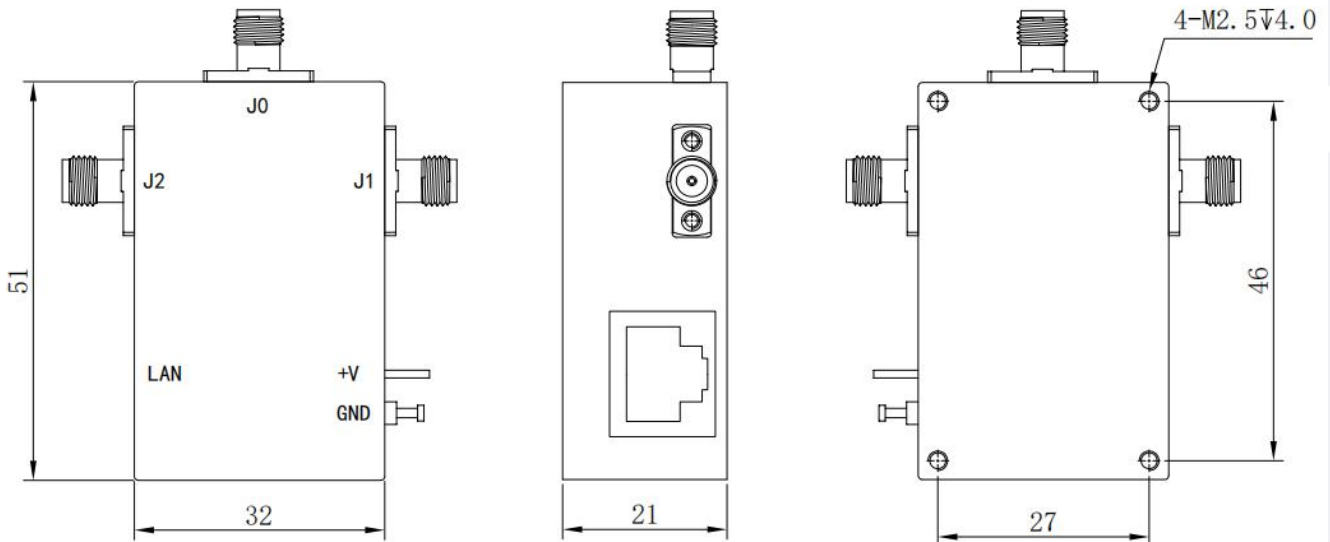
描述 Description	参数 Parameter	单位 Units
供电偏置电压 Supply Bias Voltage	5±5%	V
射频输入功率 RF Input Power	27	dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

## 机械特性 Mechanical Specifications:

描述 Description	参数 Parameter	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
供电接口 Power Supply interface	Solder Pin	
控制接口 Control interface	RJ45	
尺寸 Size	51*32*21	mm

## 外形图 Outline Drawing:

Unit:mm



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

## 温度环境 Environmental Conditions:

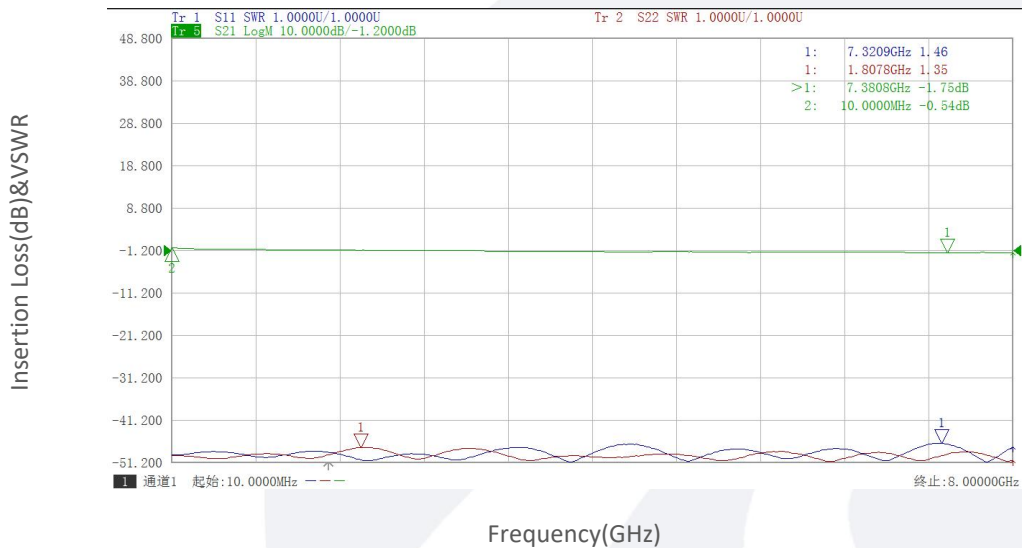
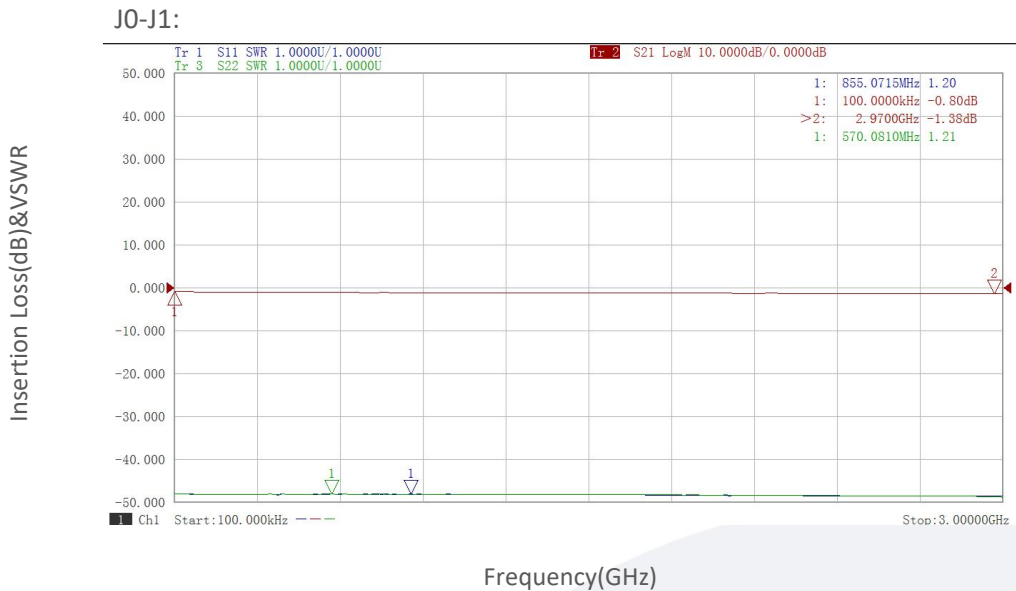
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	°C
存储温度 Non-operating Temperature	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half 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
TLSPDT9K8GA-PM-LAN	Absorptive,Broadband MMIC Switch 9KHz-8GHz,SPDT,SMA,LAN control	Rev.1.0

## 典型曲线 Typical Performance Data:

### Insertion vs Frequency

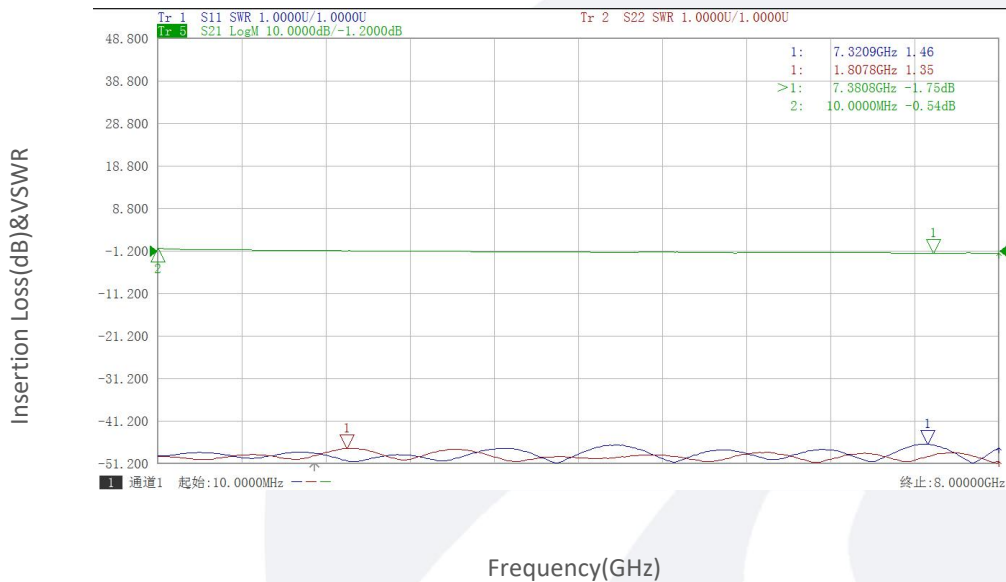
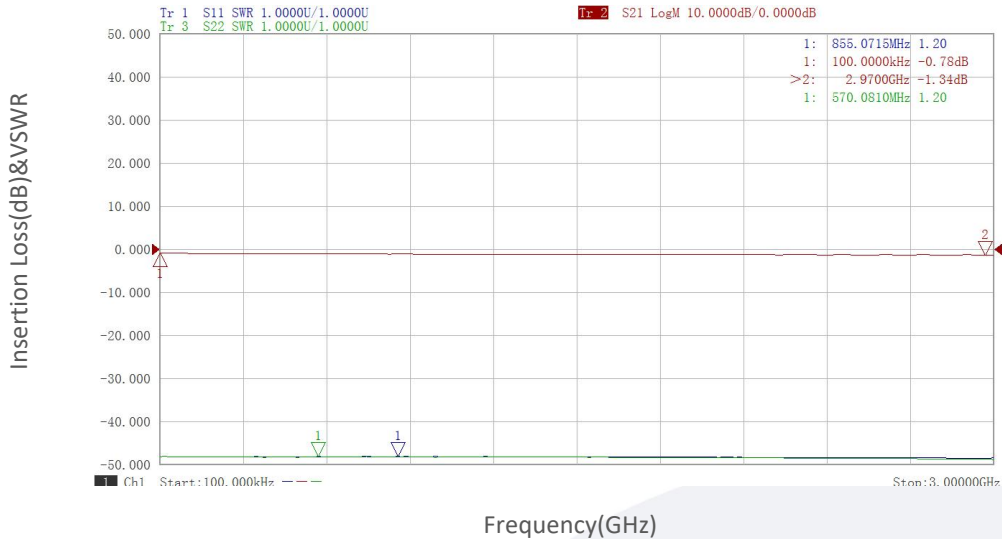


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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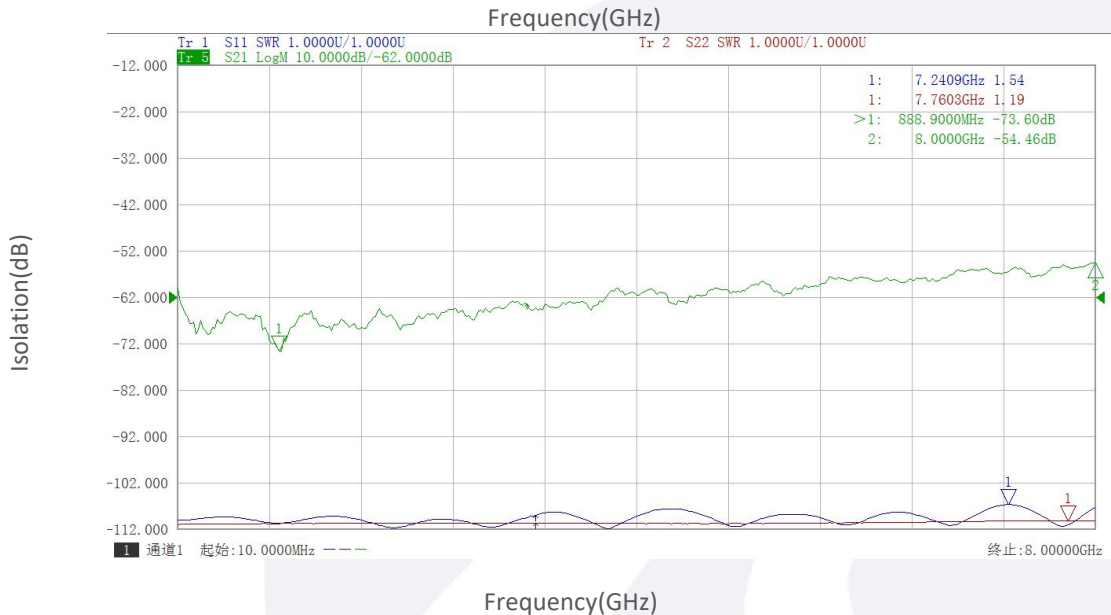
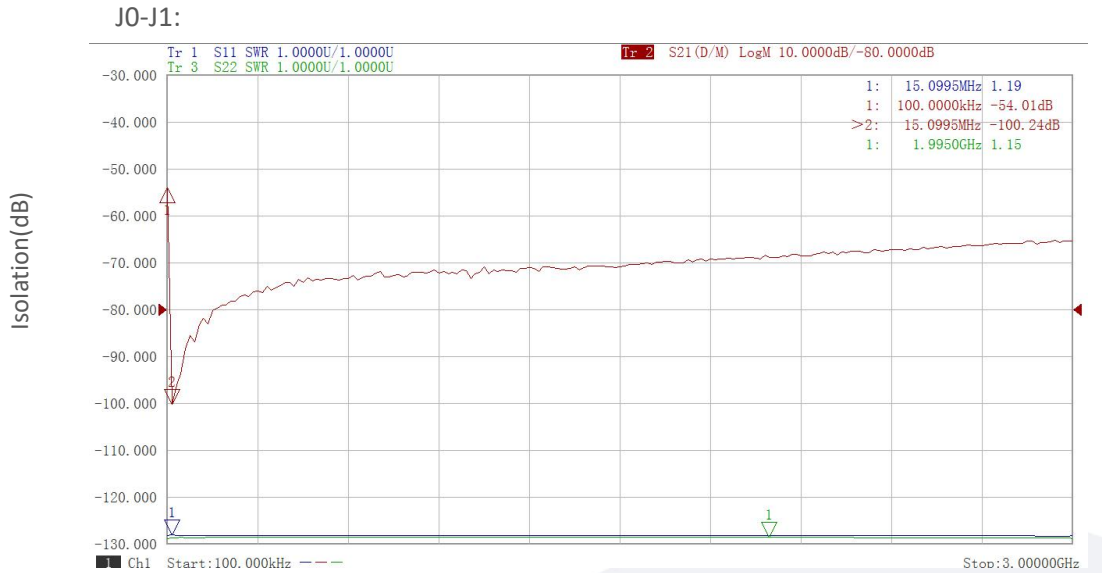
J0-J2:



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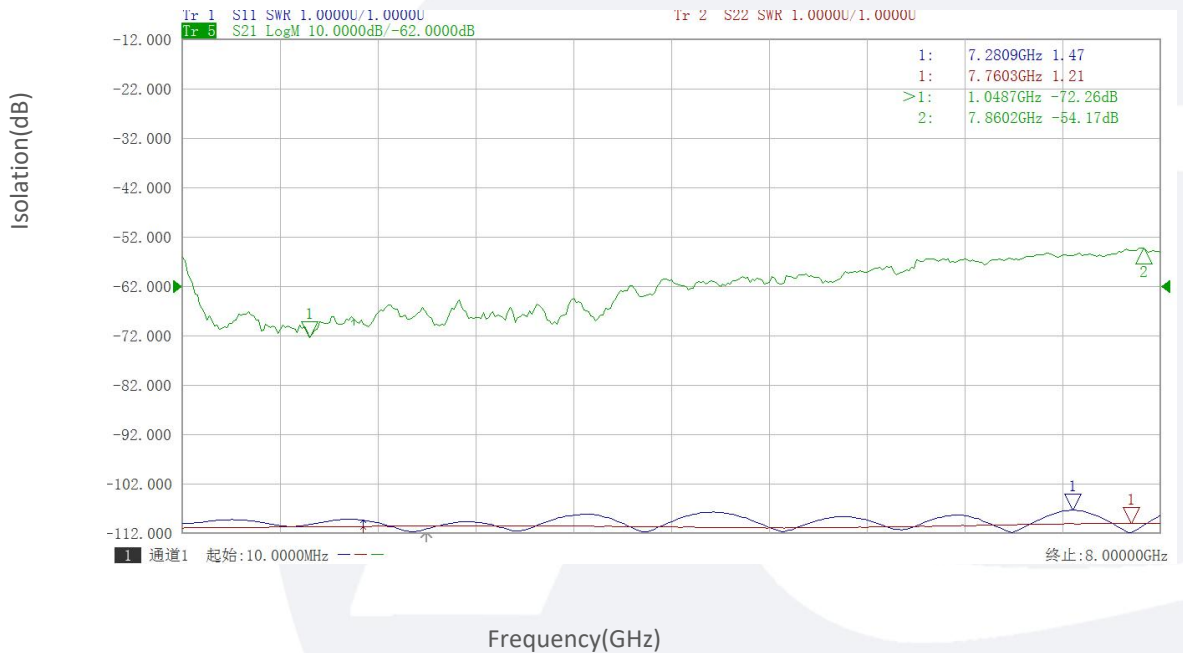
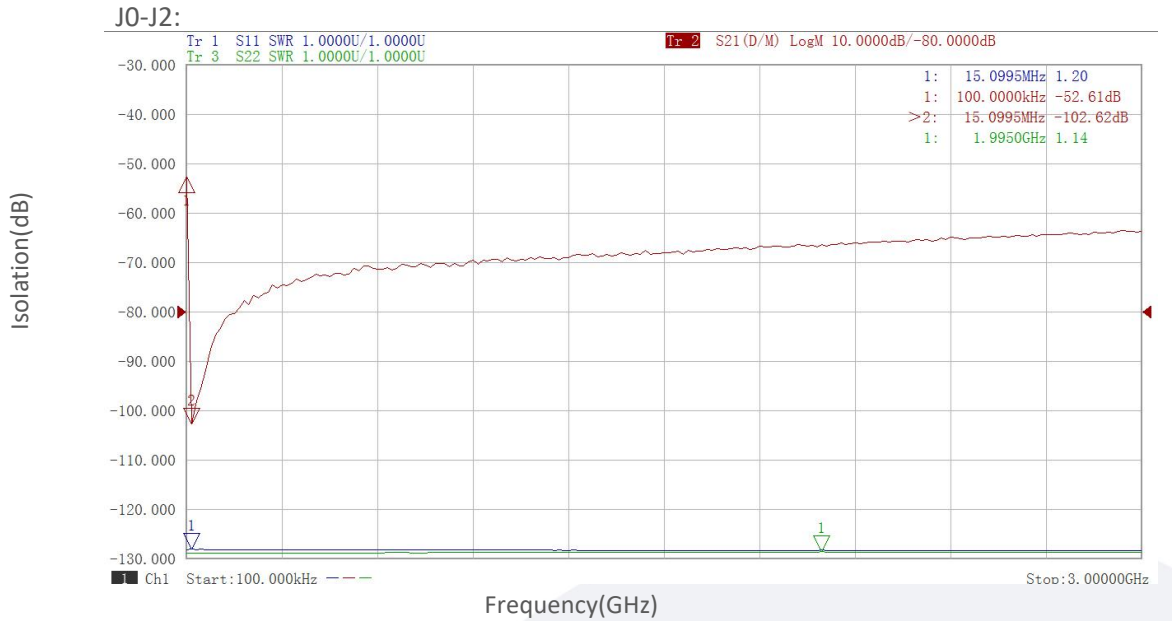
Isolation vs Frequency



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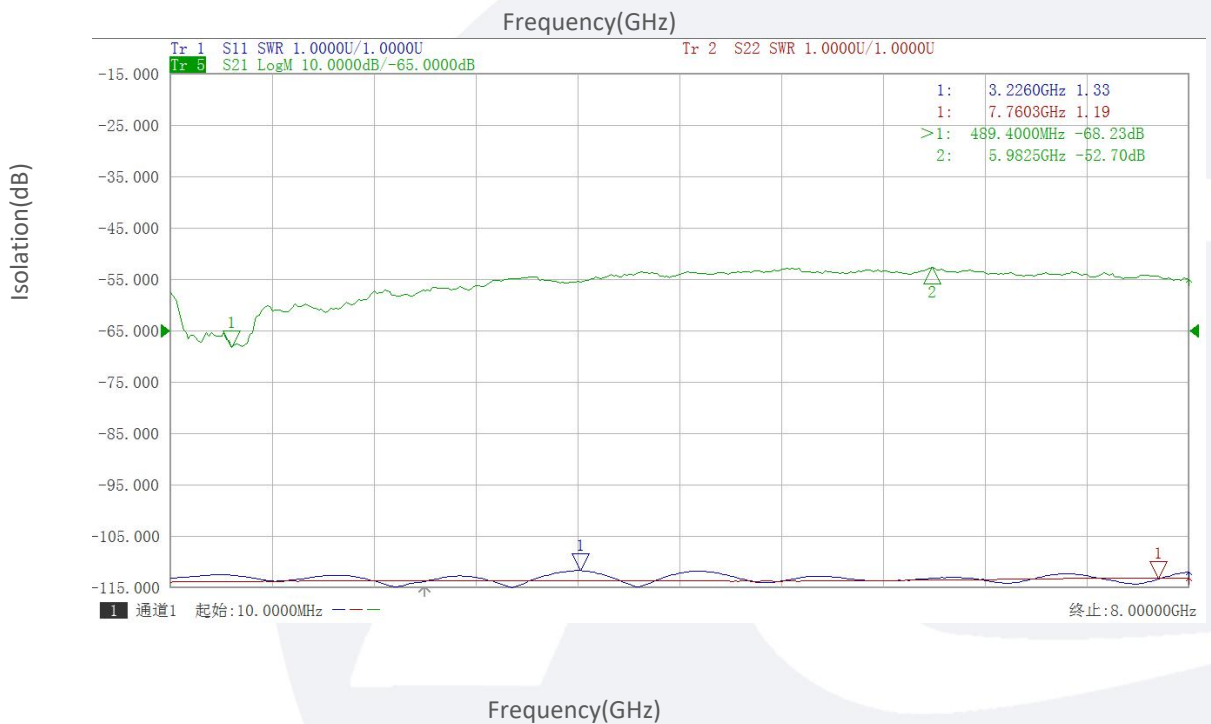
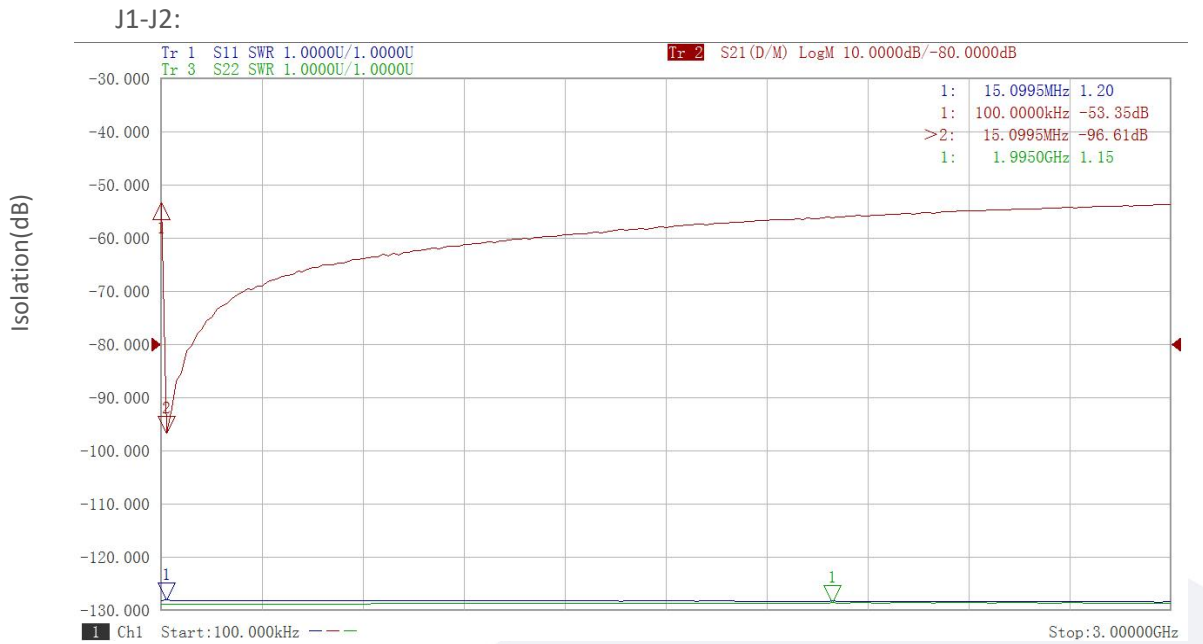
### Isolation vs Frequency



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### Isolation vs Frequency



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