泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Broadband Bias Tee

160KHz-110GHz/35V DC/1.0mm

Model: TLBT-160K110G-35-1S

TLBT-160K110G-35-1S is a bias tee that operates from 160 KHz to 110 GHz. The bias tee offers 4.5 dB insertion loss and -10 dB typical return loss. The bias tee can handle up to +35 VDC bias voltage and 500 mA current. The RF ports are equipped with 1.0 mm female connectors and DC port is equipped with SMA female connector.

Features:

- Frequency range:160KHz-110GHz
- 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	160KHz		110GHz	
插损 Insertion Loss		4	4.5	dB
回波损耗 Return Loss		-10		dB
隔离 Isolation		30		dB
直流电压 DC Voltage			35	V DC
直流电流 DC Current			500	mA
耐受功率 Power Handing			1	W

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
RF接口 RF Connector	1.0mm Female	
COM接口 COM Connector	1.0mm Female	
DC接口 DC Connector	SMA Female	
壳体材料 Case Material	Aluminum	
表面处理 Finish	Bue Paint	
尺寸 Size	14.9*36*11.7	mm
重量 Weight	45	g

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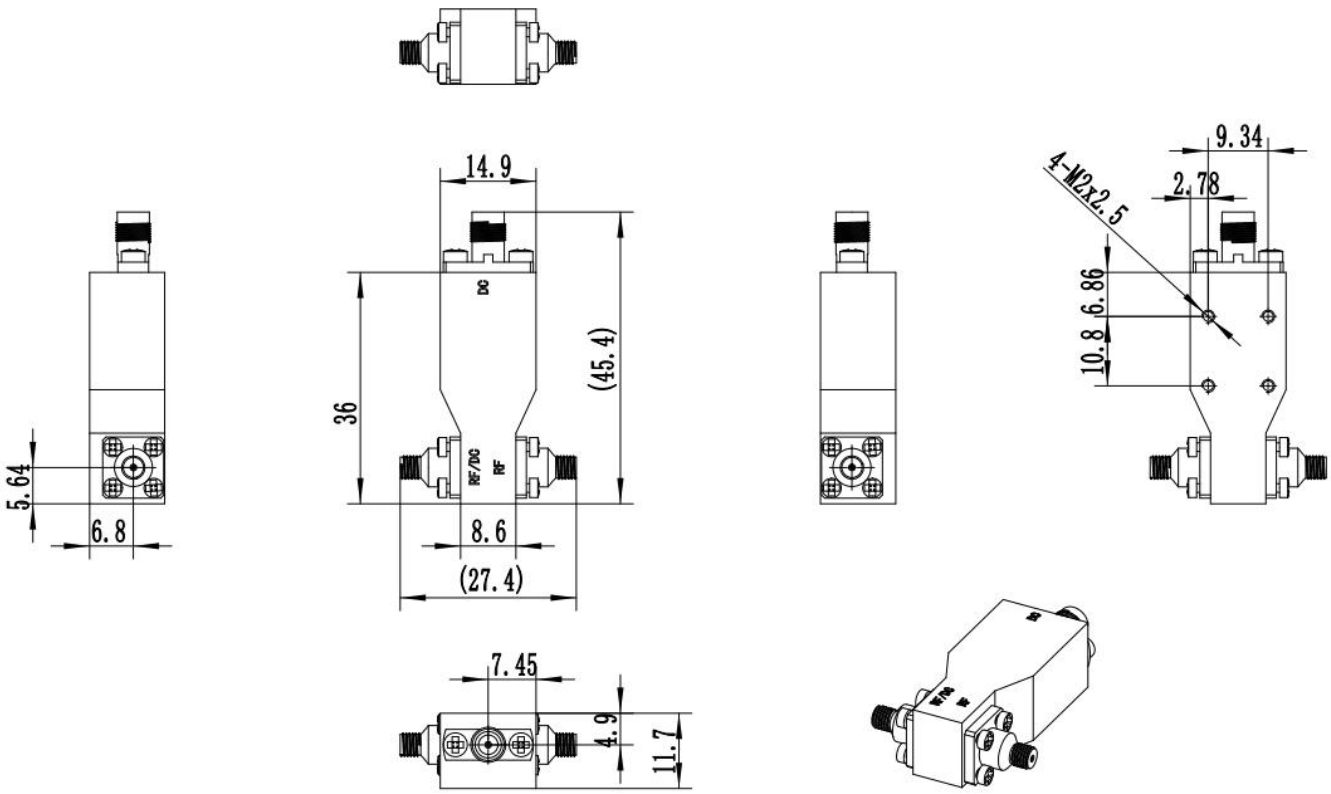
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+35 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:

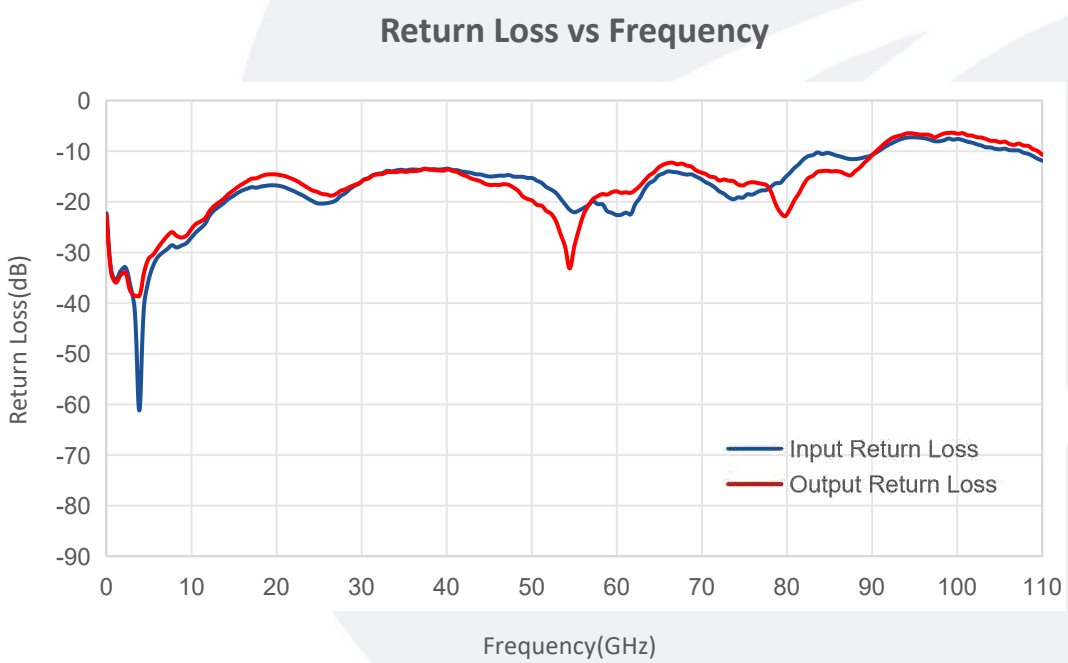
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+70	℃
存储温度 Non-operating Temperature	-55		+85	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half 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-160K110G-35-1S	Broadband Bias Tee 1.0mm,160KHz-110GHz,+35V	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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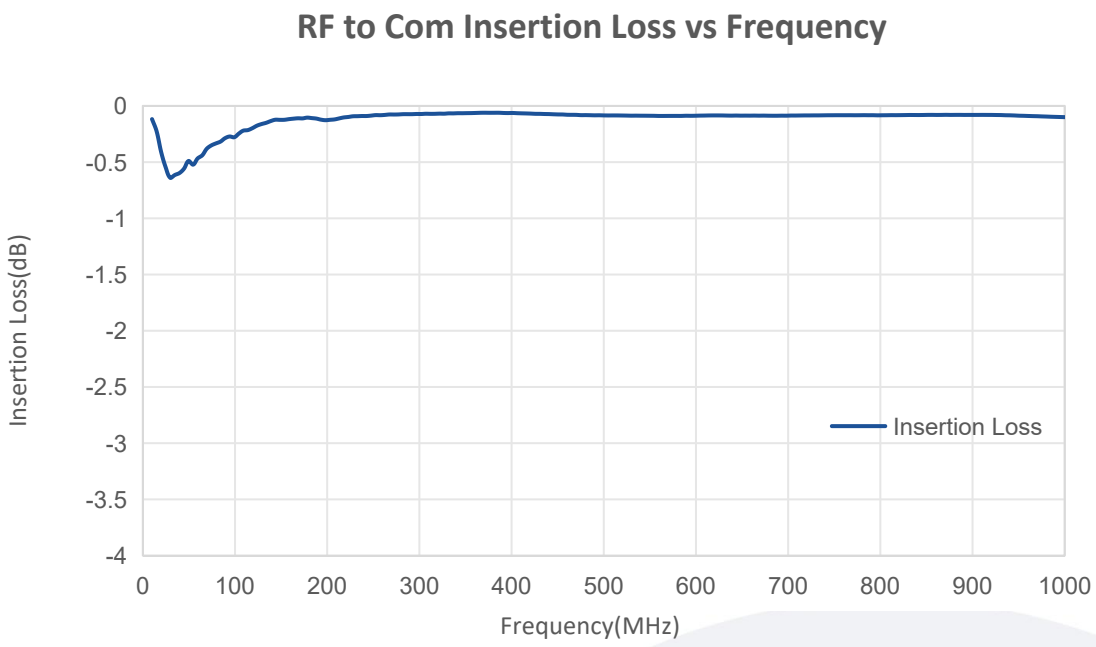

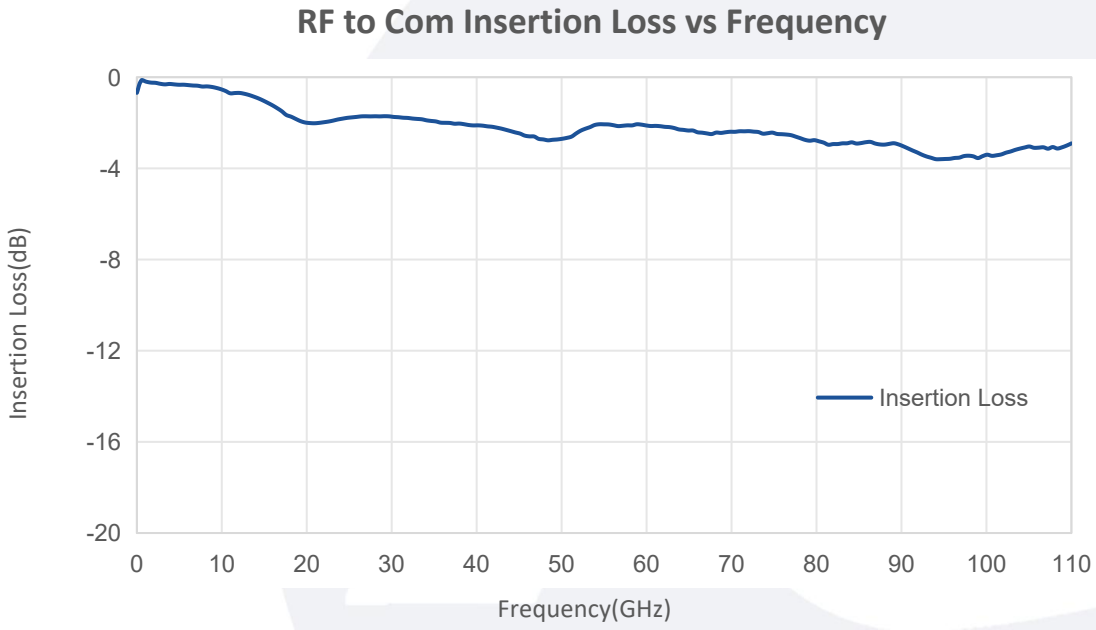

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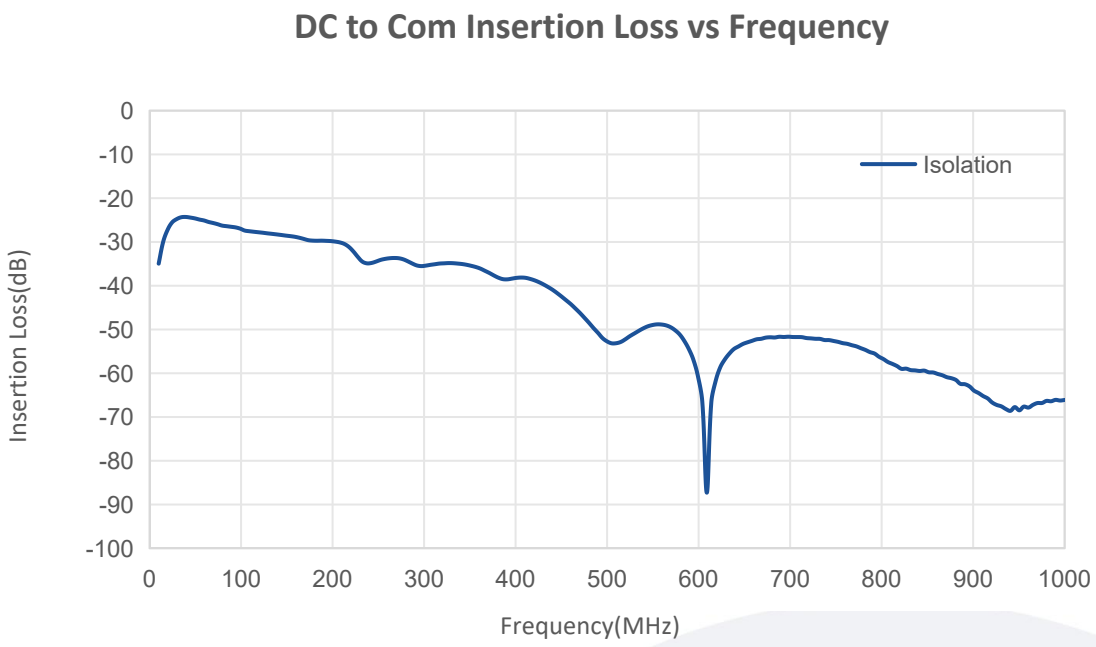

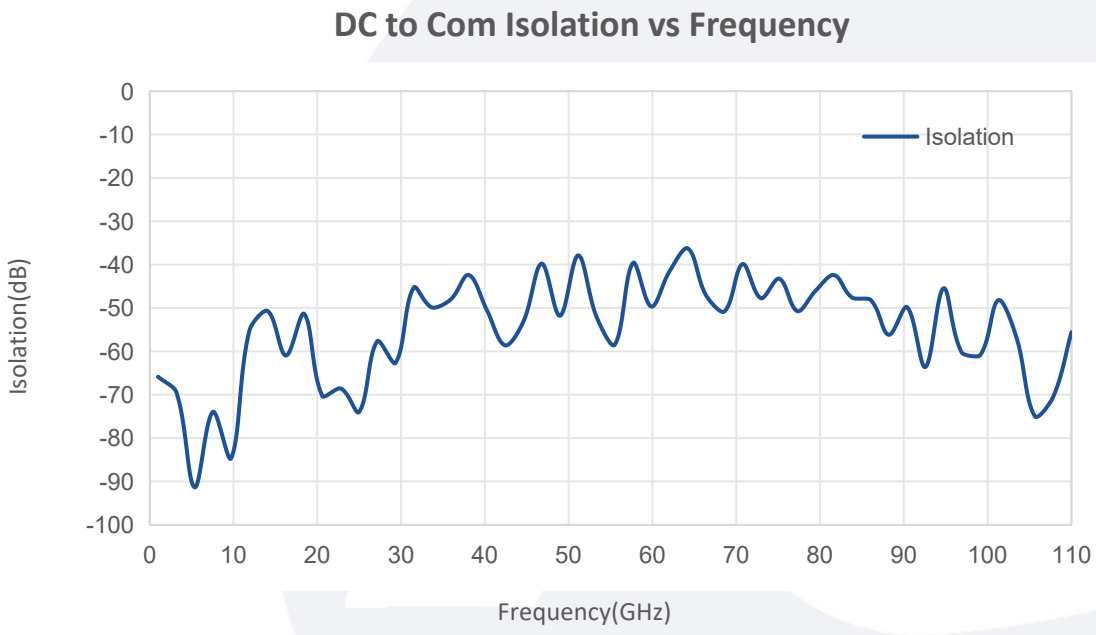

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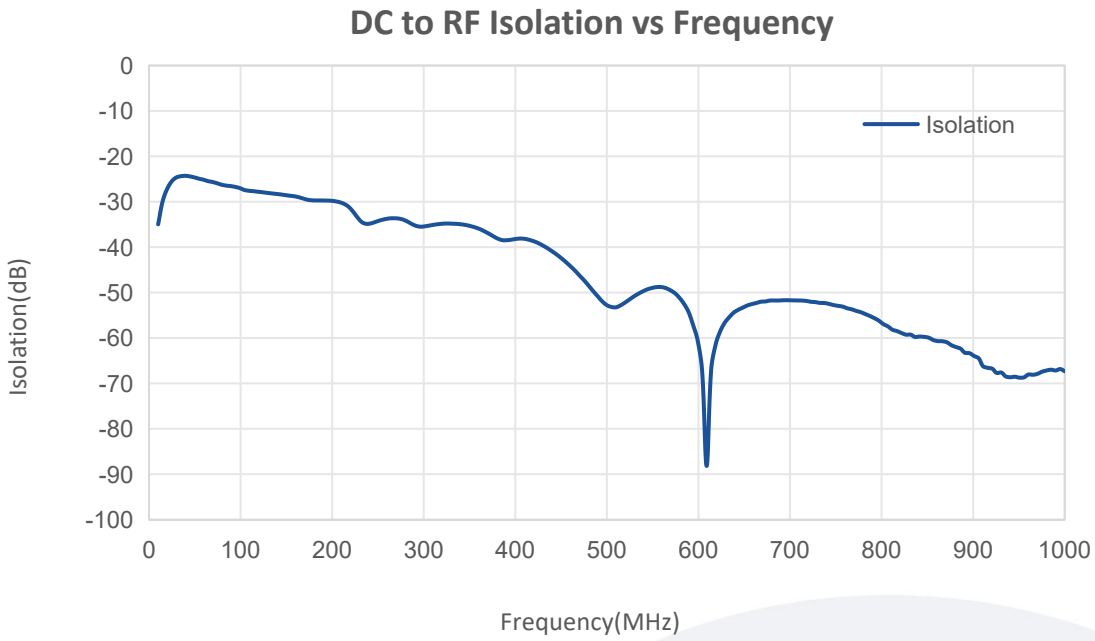

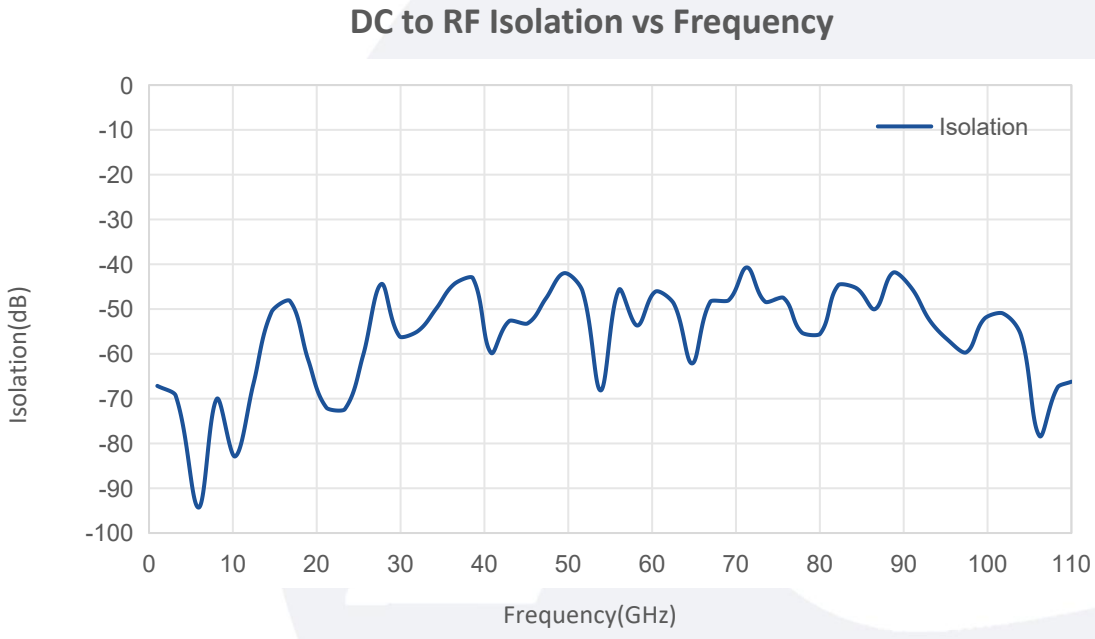

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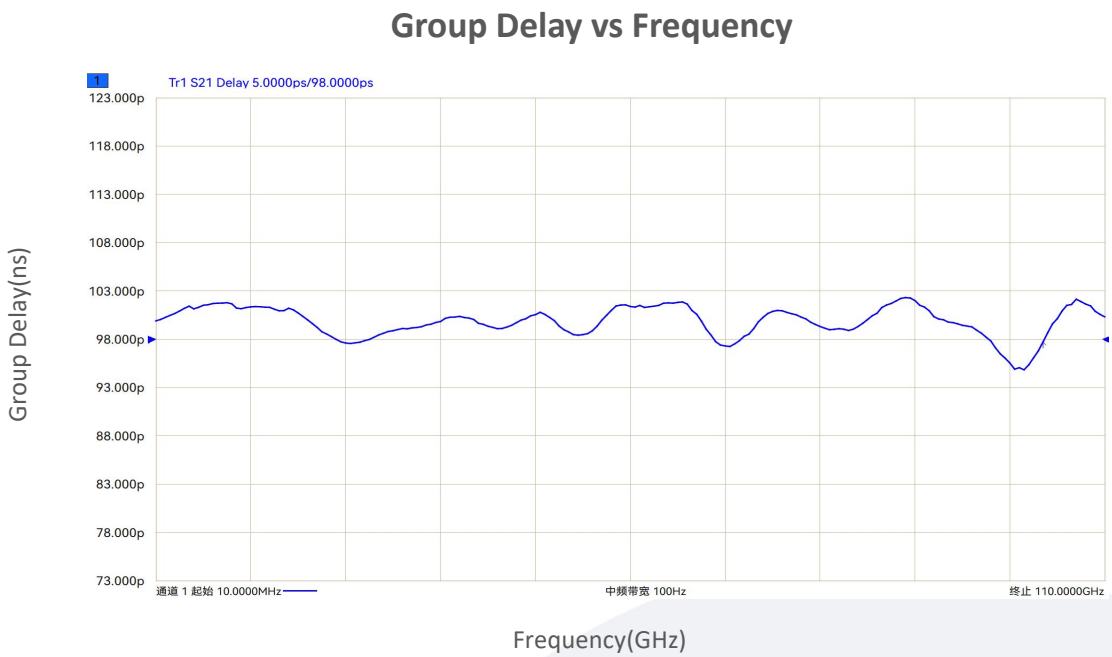

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