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

### Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency range | | 30KHz-65GHz | | |
| Insertion Loss | | 4.0 | | dB |
| Ruturn Loss | | -15 | | dB |
| Isolation | | 30 | | dB |
| DC Voltage | | | +25 | V DC |
| DC Current | | | 500 | mA |
| RF Power | | | 1 | W |

### Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Input /Output Connector | 1.85mm Female/1.85mm Female | |
| DC Connector | SMA Female | |
| Case Material | Aluminum | |
| Finish | Blue Paint | |
| Size | 15.24*30.07*12.7 | mm |
| Weight | 45 | g |

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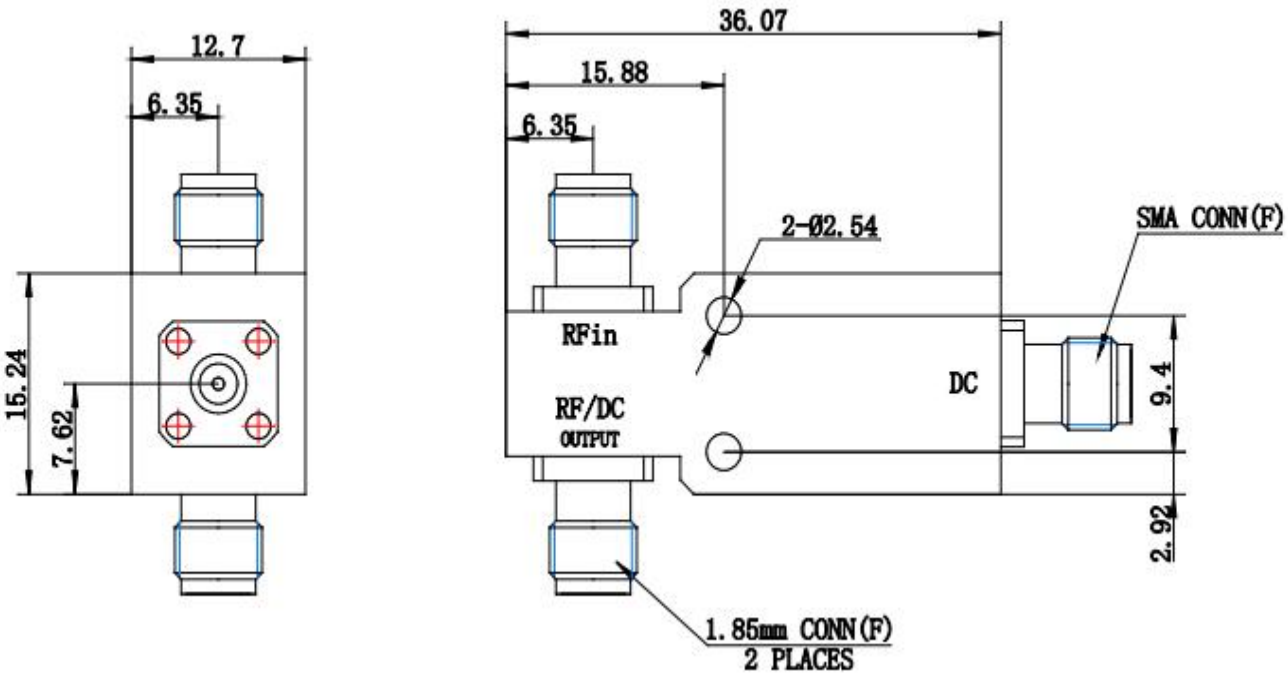
## Absolute Maximum Ratings:

| Parameter | Value |
|---|---|
| Supply Bias Voltage | +25 V |
| RF Input Power | +30 dBm |
| ESD sensitivity (HBm) | Class 0, passed 150V |

## Outline Drawing:

Unit:mm

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## Environmental Conditions:

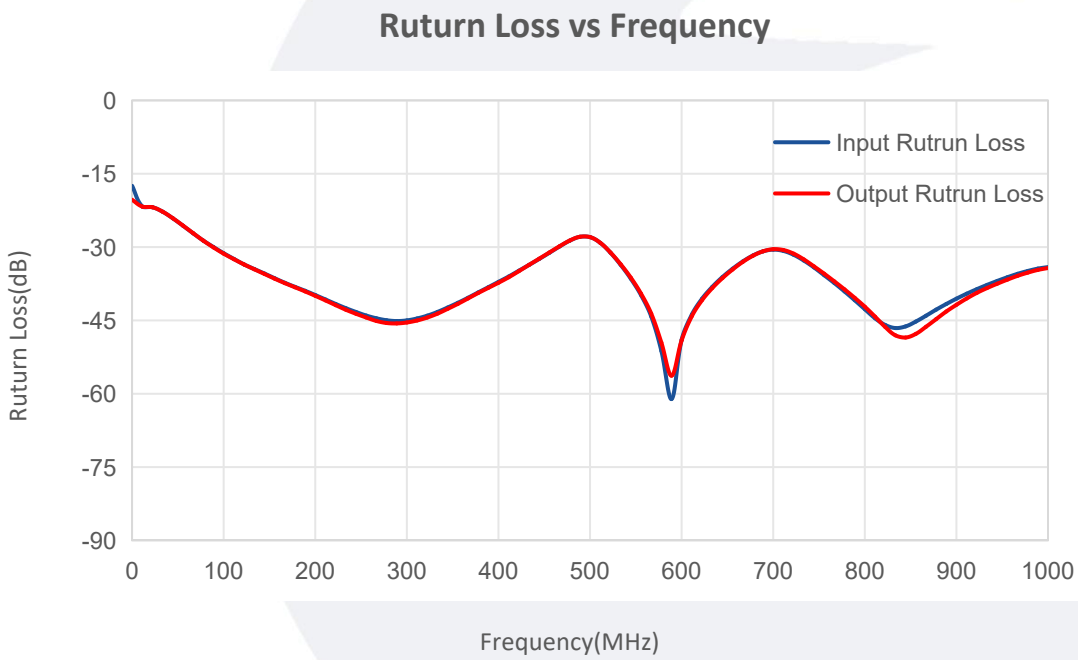
| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Operating Temperature | 0 | | +50 | ℃ |
| Non-operating Temperature | -55 | | +125 | ℃ |
| Relative humidity | | 95 | | % |
| Altitude | 50,000 | | | feet |
| Shock / Vibration(MIL-STD-810F) | 25g rms (15 degree 2KHz) endurance, 1 hour per axis | | | |
| Shock(non operating) | 20G for 11msc half sin wave,3 axis both directions | | | |

## Ordering Information:

| Base Number | Description | Revision |
|---|---|---|
| TLBT-30K65G-25-VS | Broadband Bias Tee<br>1.85mm,30KHz-65GHz,25V | Rev.1.1 |

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

## 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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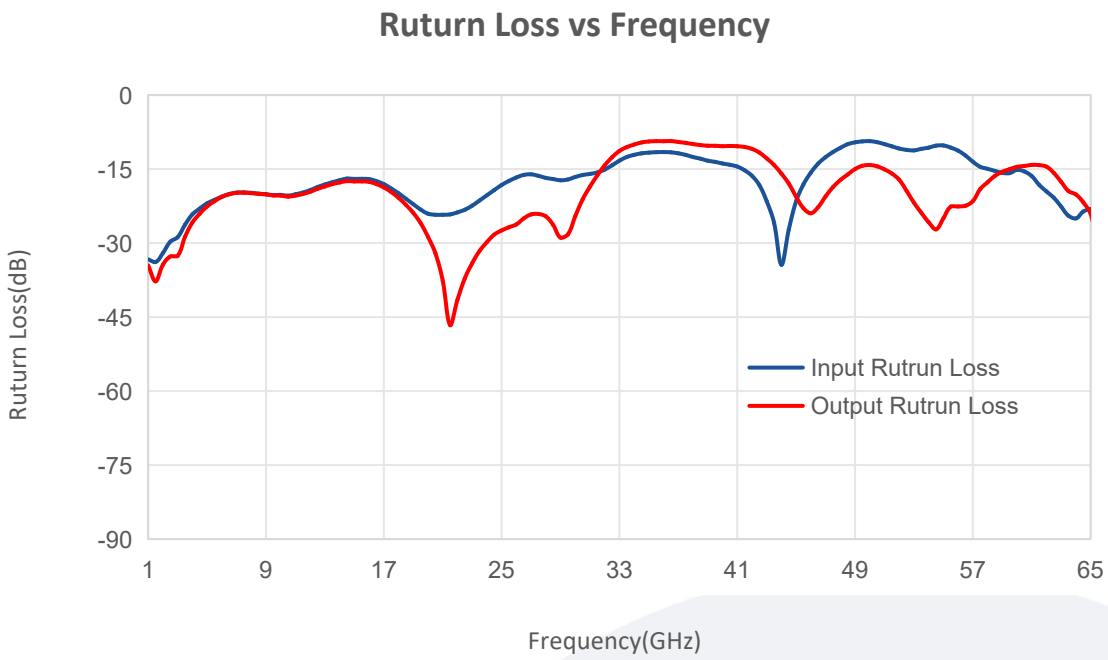


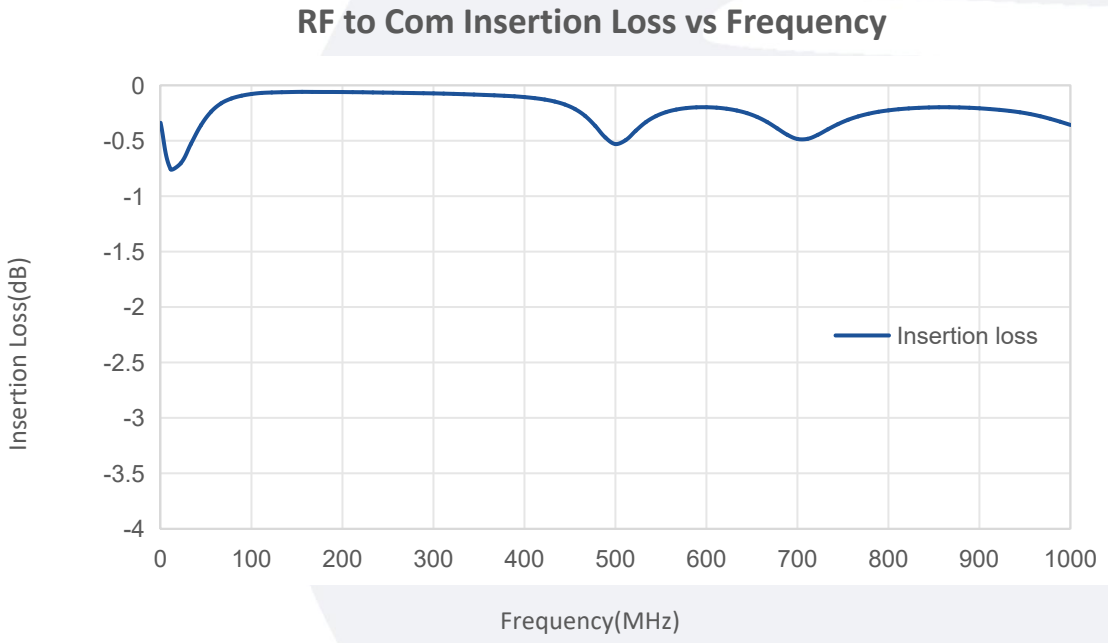


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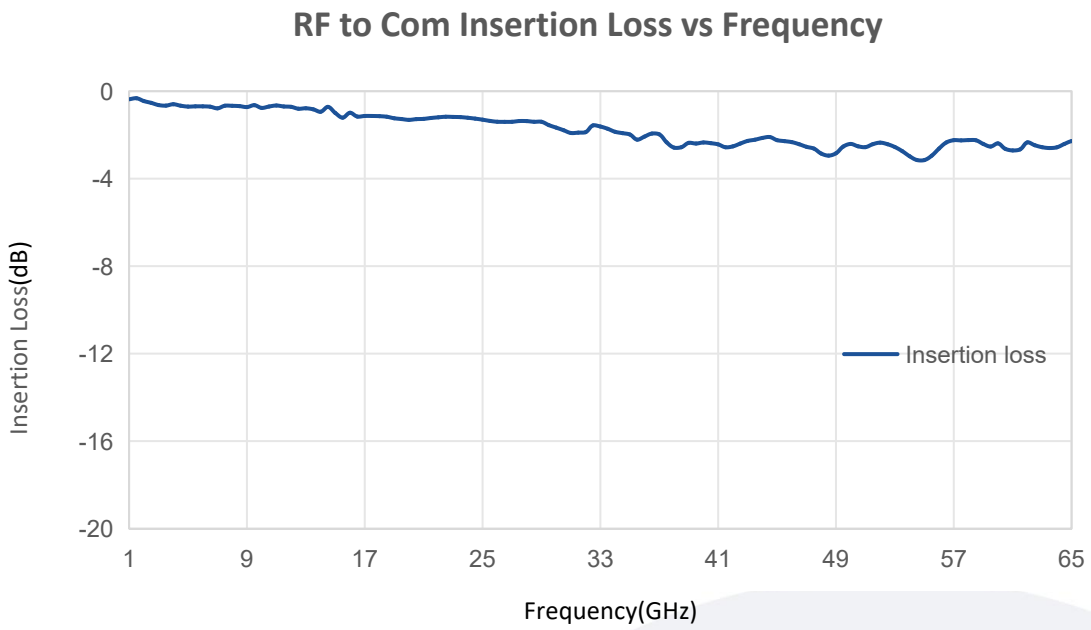


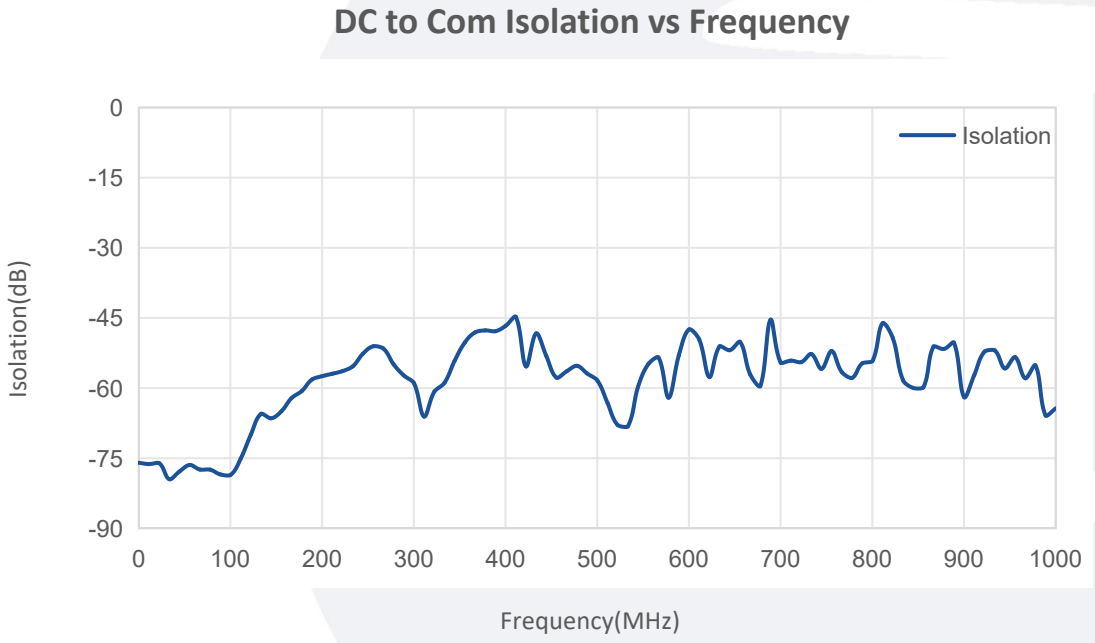


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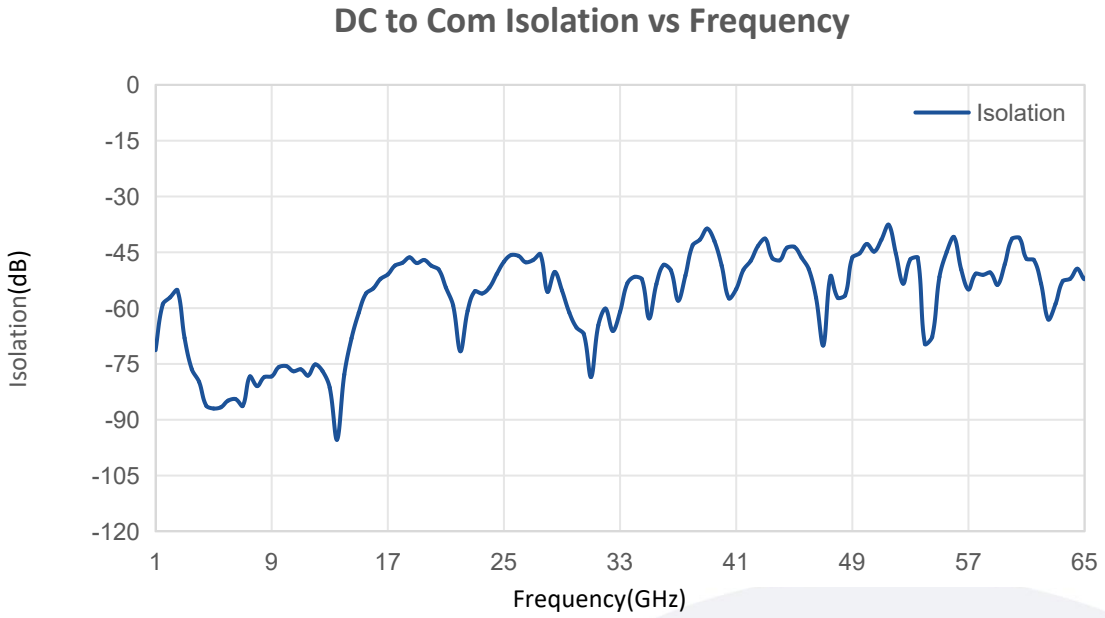


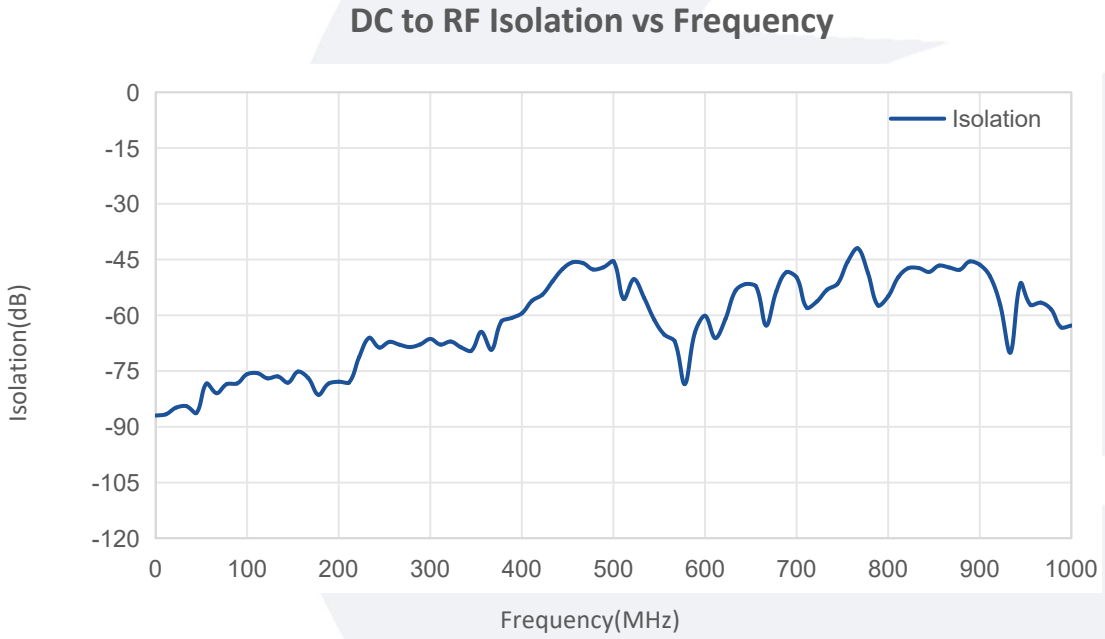


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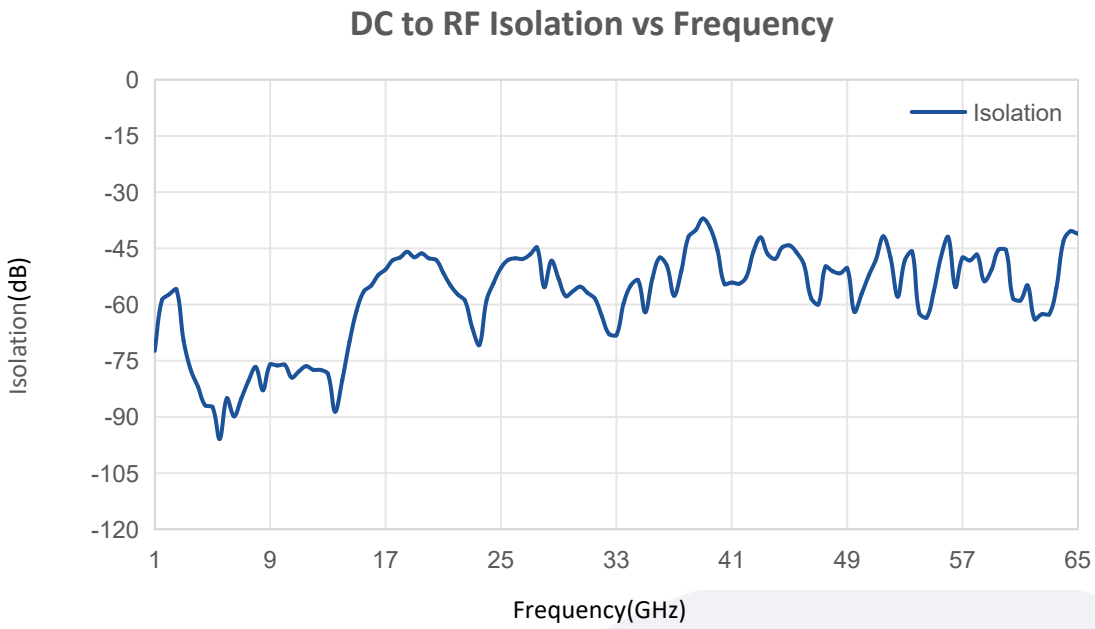


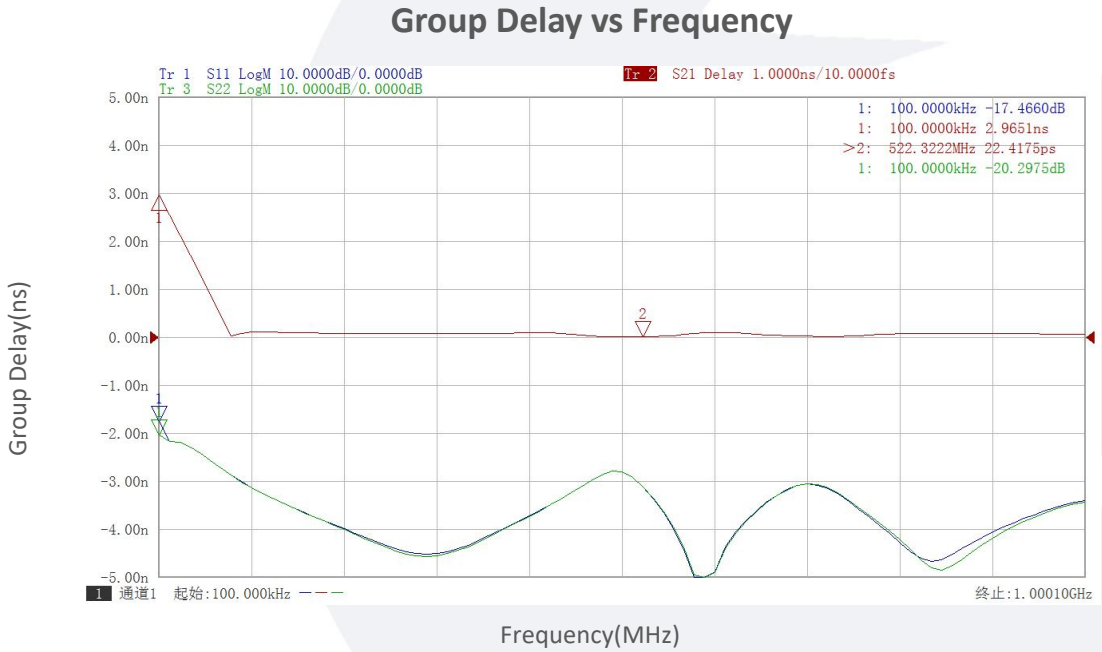


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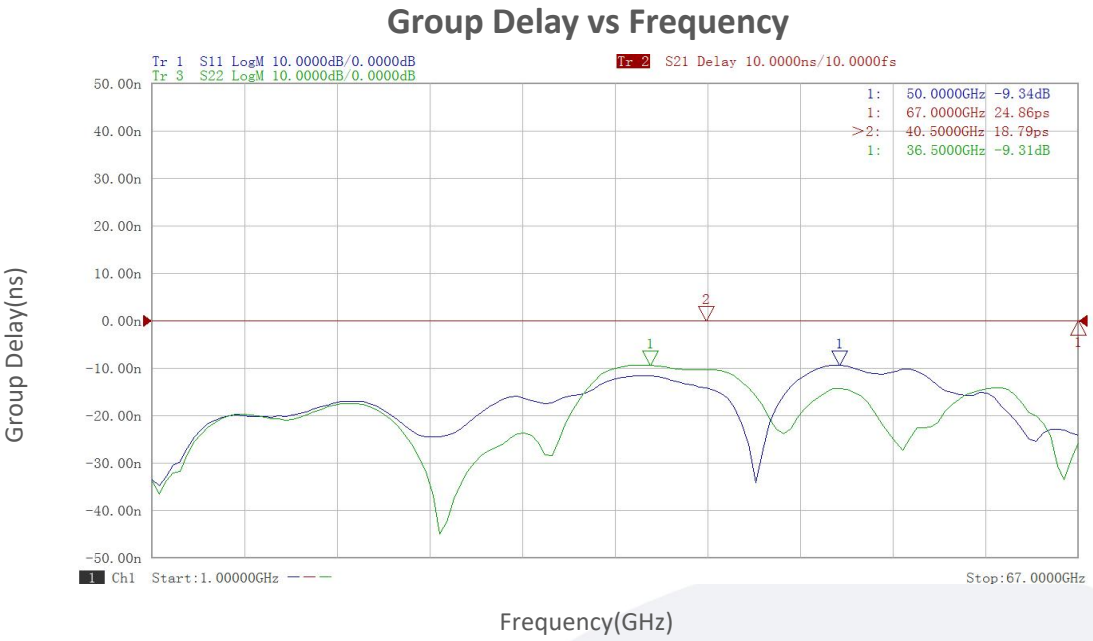


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