泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Coax Dual-Directional Bridge Coupler

9KHz-26.5GHz/16dB Coupling/2.92mm Model: TDG-9K26G-16-S

TDG-9K26G-16-S is a coax dual-directional bridge coupler that delivers a 16 dB nominal coupling level and 20 dB minimum directivity across the full frequency range from 9KHz to 26.5GHz.. It is a four-port passive device that can couple a portion of the power from the main transmission line to the auxiliary line in a directional manner.

Features:

- Output Frequency: 9KHz-26.5GHz
- Max Power: 1W
- Stackable mechanical design
- Low Insertion Loss
- Moderate Directivity
- 50 Ohm Matched Input / Output

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	9KHz		26.5GHz	
Return Loss			-16	dB
Insertion Loss (Excl coupling)		4.5	5.5	dB
Coupling@150KHz~26.5GHz		16±1.5		dB
Coupling Sensitivity@150KHz~26.5GHz		±1.25		dB
Directivity@150KHz~26.5GHz	20			dB
Power Handling		1		W
Impedance		50		Ohms

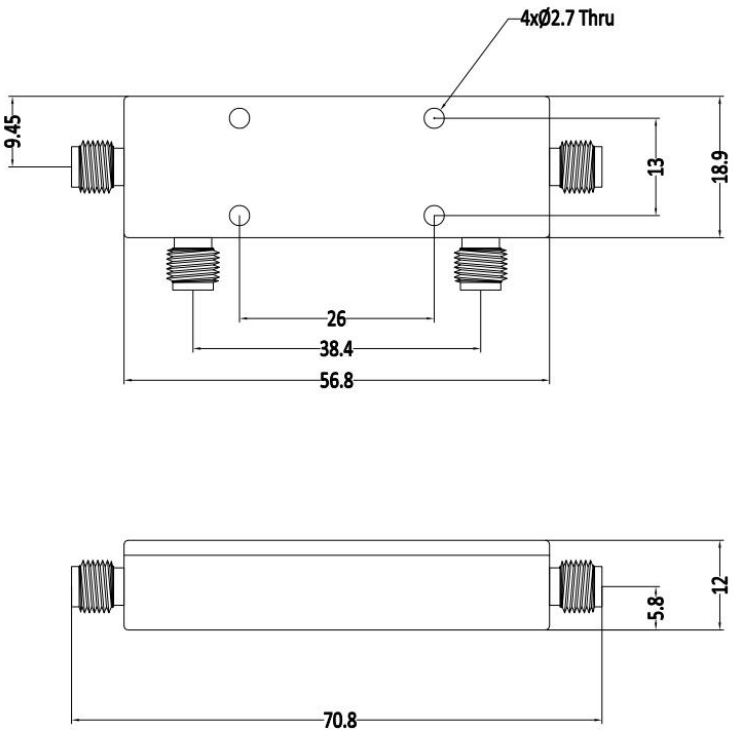
Mechanical Specifications:

Parameter	Value	Units
Operating Temerature	-40 To +70	℃
RF Connector	2.92mm Female	
Size	56.8*18.9*12	mm

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Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

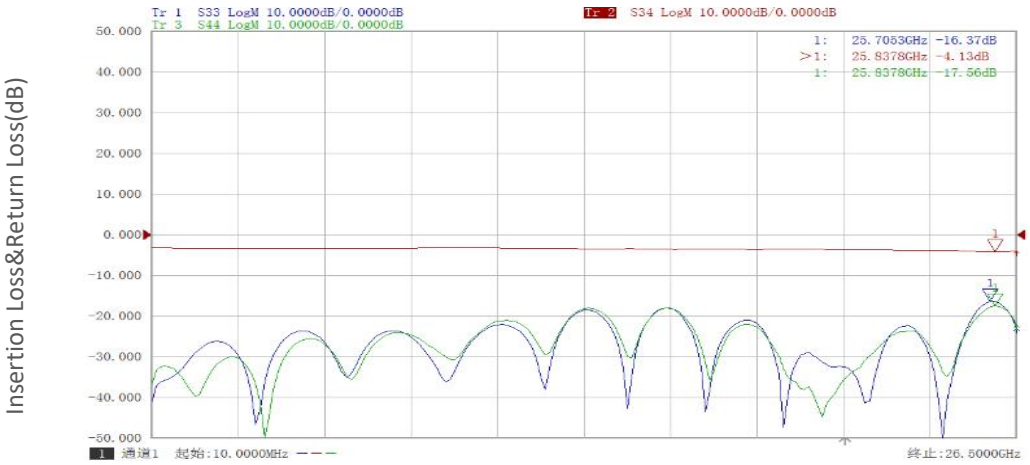
Ordering Information:

Base Number	Description	Revision
TDG-9K26G-16-S	Coax Dual-Directional Bridge Coupler 9KHz-26.5GHz, Coulping:16dB, 2.92mm Female	Rev.1.0

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Typical Performance Data:

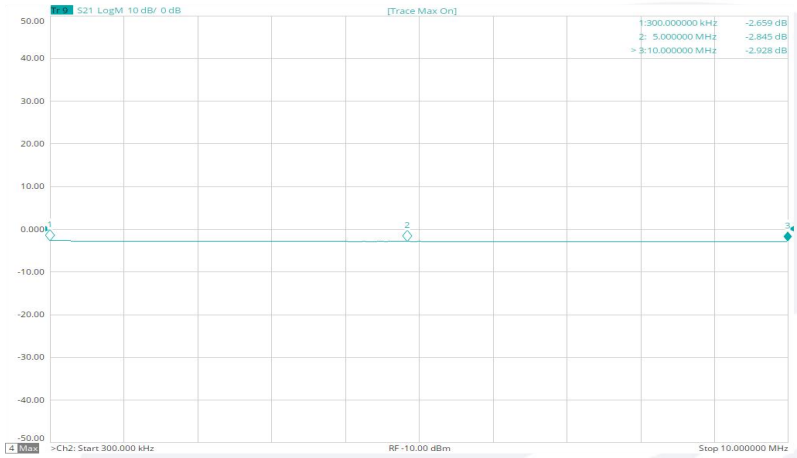
Insertion Loss&Return Loss vs Frequency



Insertion Loss&Return Loss(dB)

Frequency(GHz)

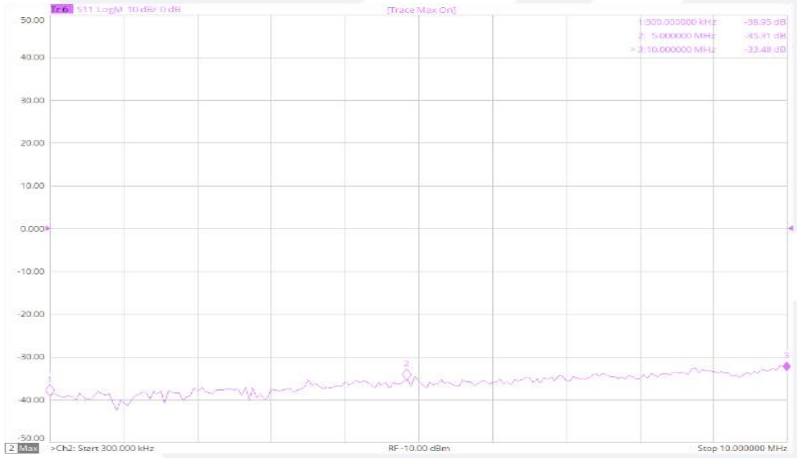
Insertion Loss vs Frequency



Insertion Loss(dB)

Frequency(MHz)

Main Line Return Loss vs Frequency



Return Loss(dB)

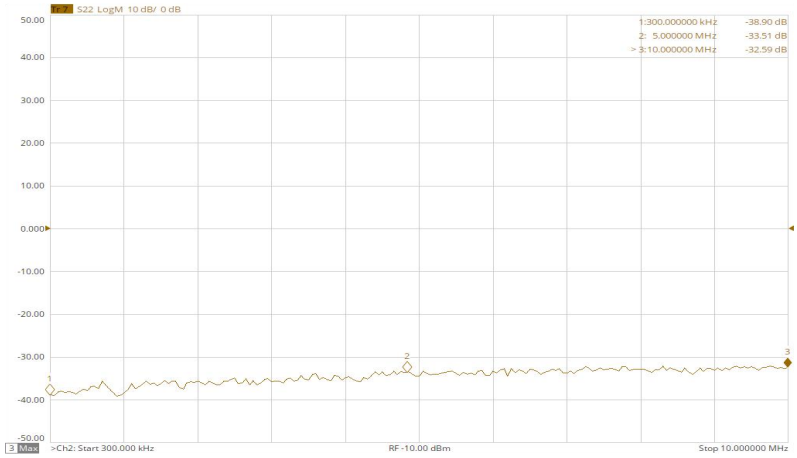
Frequency(MHz)

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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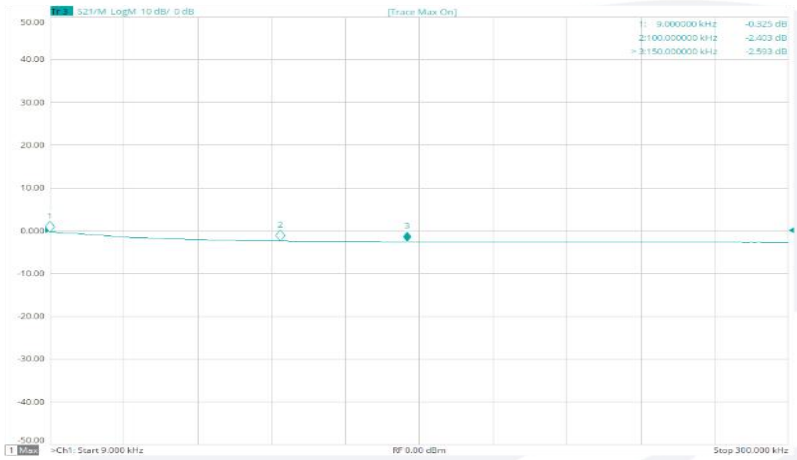
Coupling Port Return Loss vs Frequency



Return Loss(dB)

Frequency(MHz)

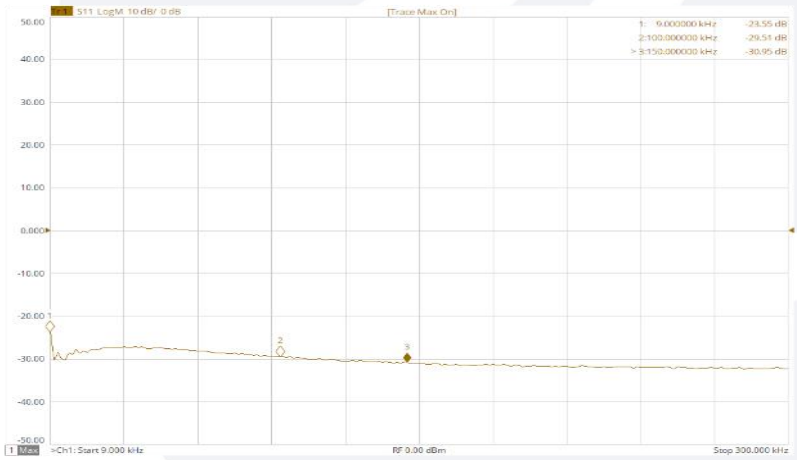
Insertion Loss vs Frequency



Insertion Loss(dB)

Frequency(KHz)

Main Line Return Loss vs Frequency



Return Loss(dB)

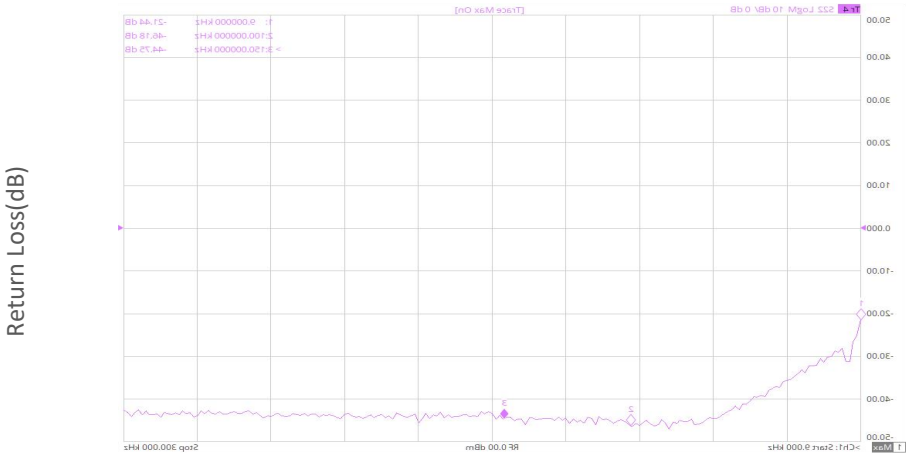
Frequency(KHz)

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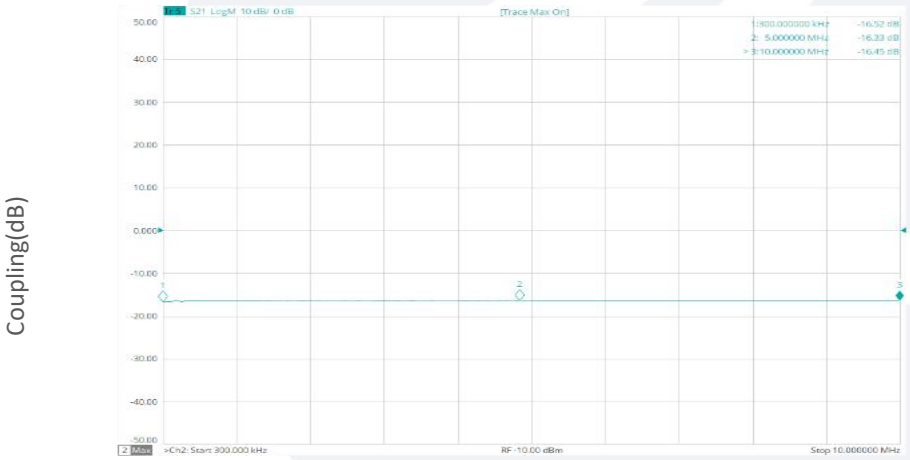
Coupling Port Return Loss vs Frequency



Coupling vs Frequency



Coupling vs Frequency

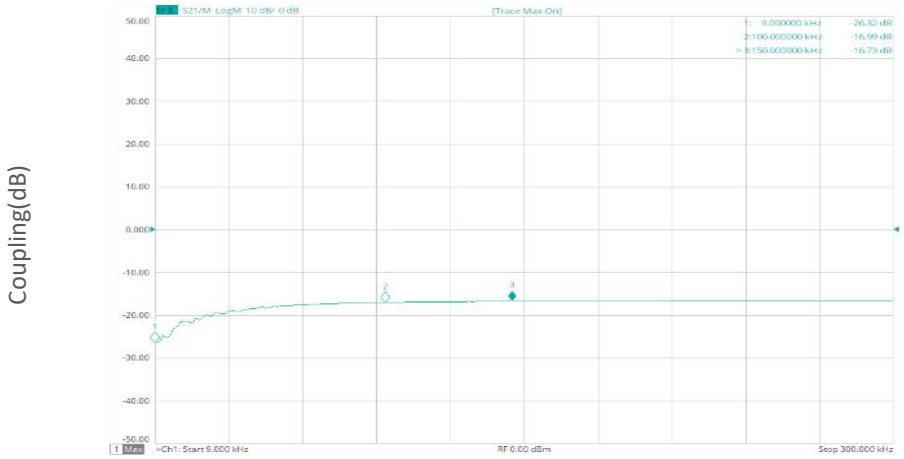


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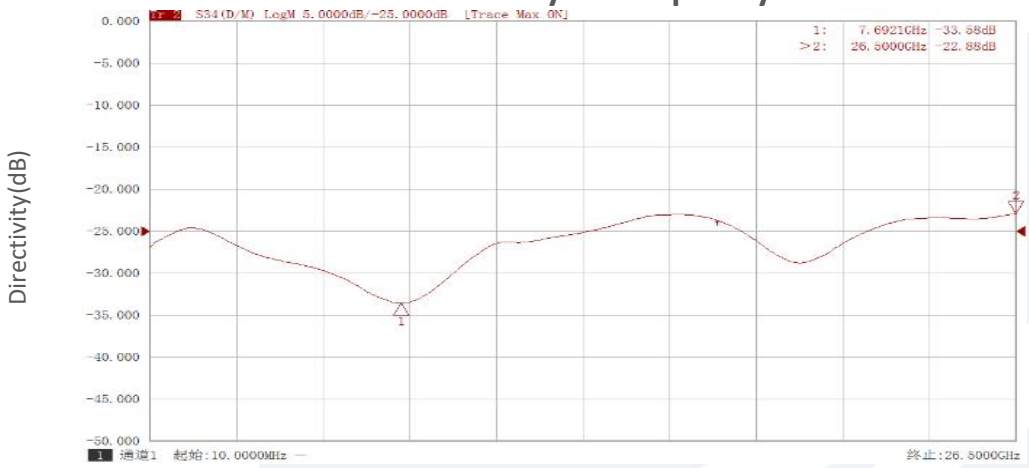
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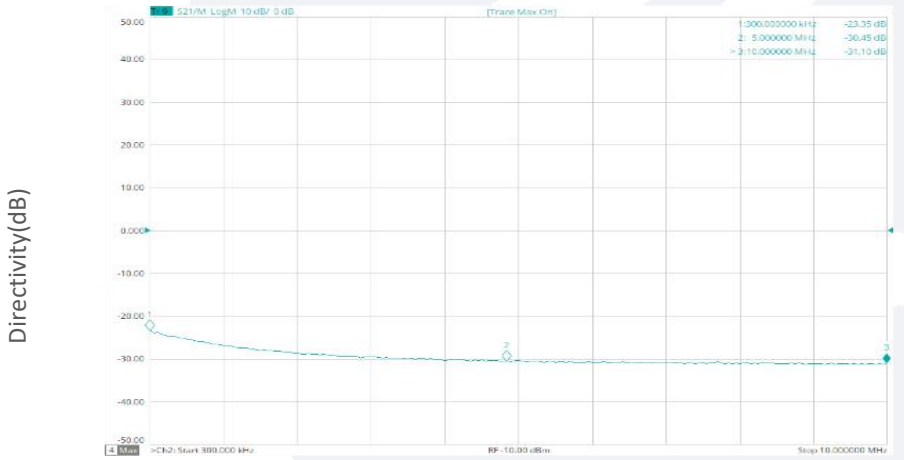
Coupling vs Frequency



Directivity vs Frequency



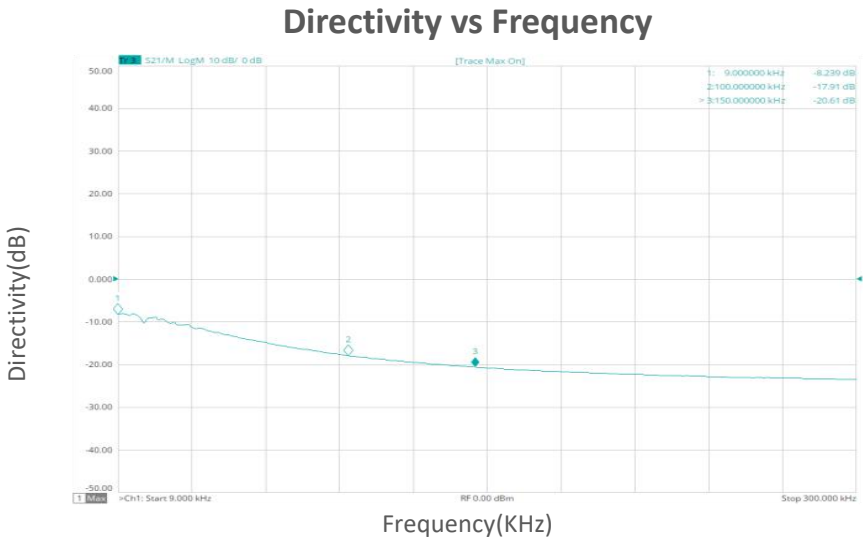
Directivity vs Frequency



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