泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Coax Directional Coupler

67-110GHz/8dB Coupling/1.0mm Female

Model: TC-6701100-6-1.0

TC-6701100-6-1.0 is a coax directional coupler that delivers a 8 dB nominal coupling level and 15 dB typical directivity across the full frequency range from 67 to 110GHz.. 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: 67-110GHz
- Coupling: 8dB Typ
- 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	67		110	GHz
Insertion Loss		3.5		dB
Coupling	7	8	11	dB
Isolation		23		dB
Directivity		15		dB
Ruturn Loss			-10	dB
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input/Output Connector	1.0mm Female/1.0mm Female	
Coupling Connector	1.0mm Female	
Csae Material	Aluminum	
Finish	Conductive Coating, Natural Finish	
Size	9.8*18*12	mm

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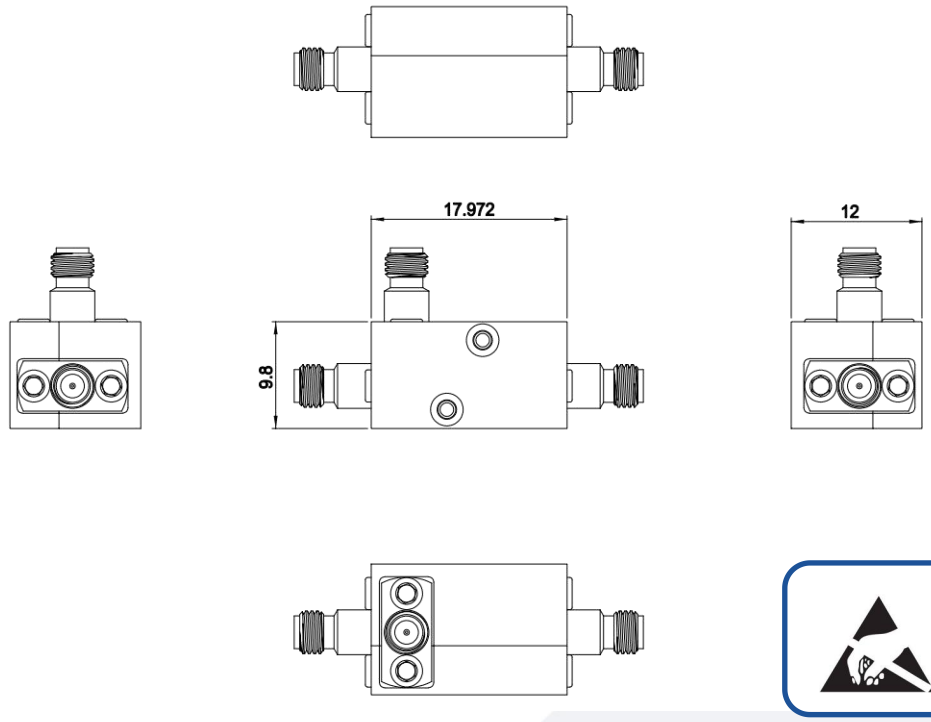
Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+55	℃
Non-operating Temperature	-20		+55	℃
Relative humidity	100% RH at 35c, 95%RH at 40℃			%
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
TC-6701100-6-1.0	Coax Directional Coupler 67-110GHz, Coulping:8dB, 1.0mm Female	Rev.1.0

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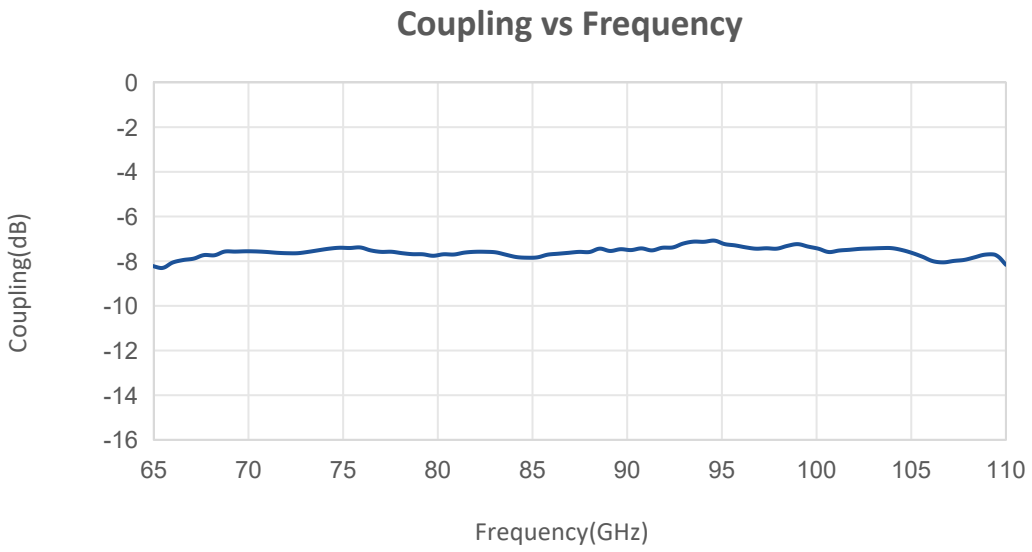
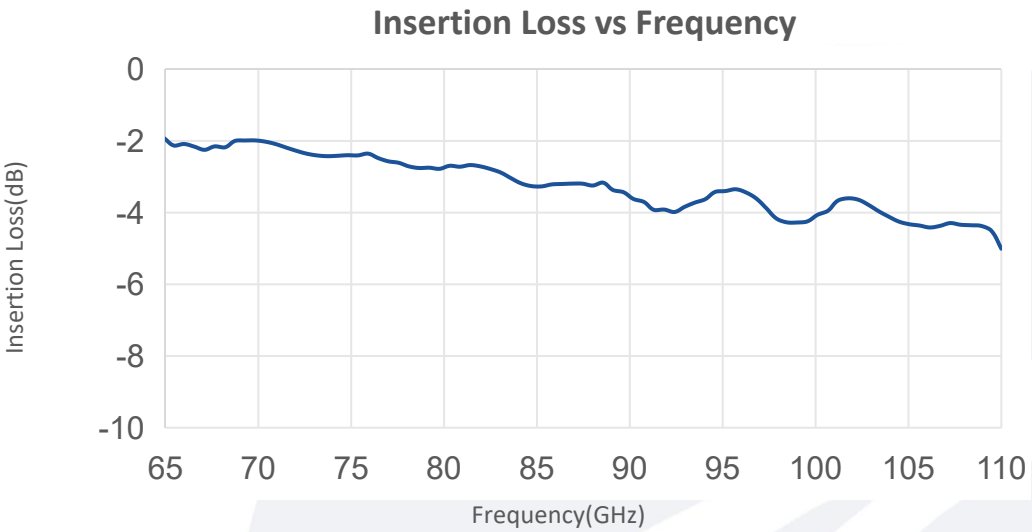
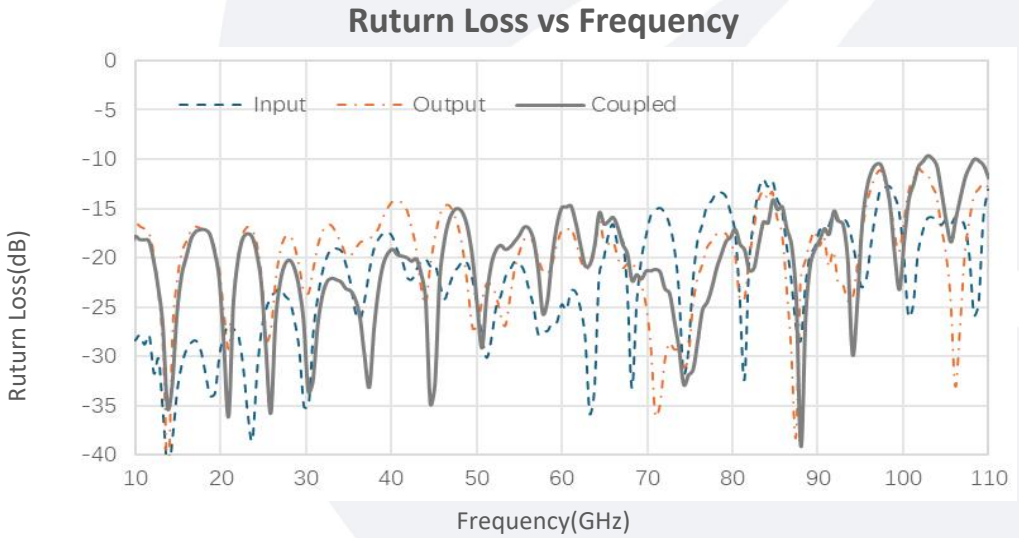
Typical Performance Data:







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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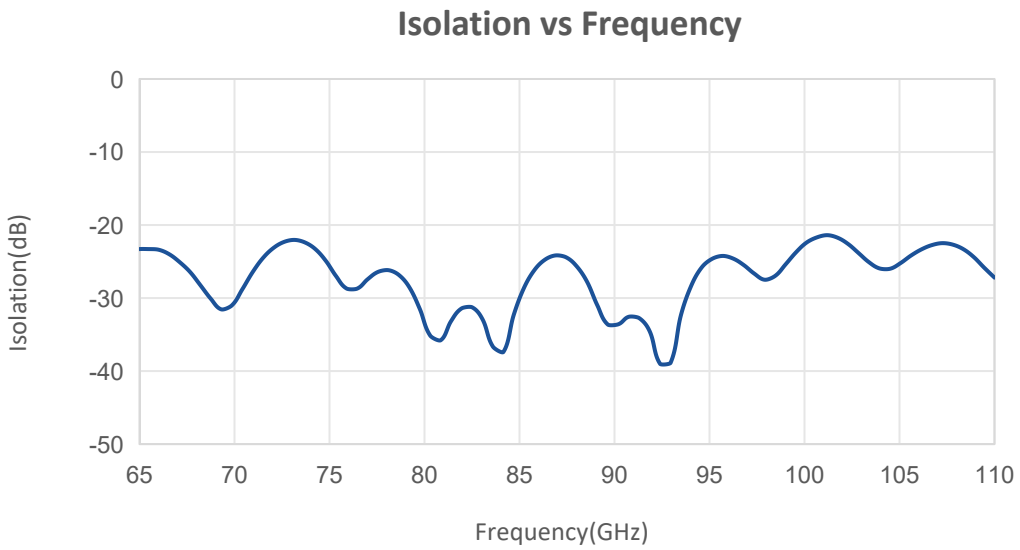

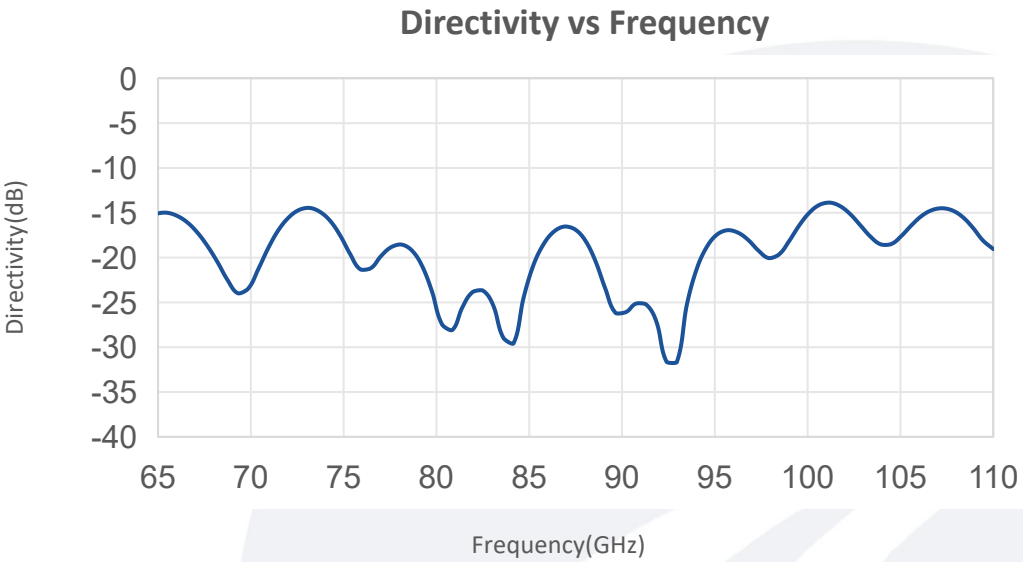

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