泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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W-band Waveguide Directional Coupler

WR-10/30 dB Coupling

Model: TC-075110-30-10

TC-075110-30-10 is a W-band, three-port waveguide directional coupler that delivers a 30 dB nominal coupling level and 30 dB typical directivity across the full waveguide band from 75 to 110 GHz. The interfaces of the coupler are WR-10 waveguides with UG-387/U-M anti-cocking flanges.

Features:

- Operating Frequency: 75 to 110 GHz
- Full Band Operation
- Low Insertion Loss
- Moderate Directivity

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
工作频率 Frequency Range	75		110	GHz
主线回波损耗 Main road Return Loss		30		dB
副线回波损耗 Branch road Return Loss		30		dB
插入损耗 Insertion Loss		0.5		dB
耦合度 Coupling		30		dB
方向性 Directivity		30		dB

环境和机械特性 Envrionmental And Physical Characteristics:

参数 Parameter	指标 Value	单位 Units
RF 输入/输出接口 RF Input/Output Connectors	WR-10/UG-387/U	
耦合接口 Coupled Port	WR-10/UG-387/U	
尺寸 Size	56*22*22	mm

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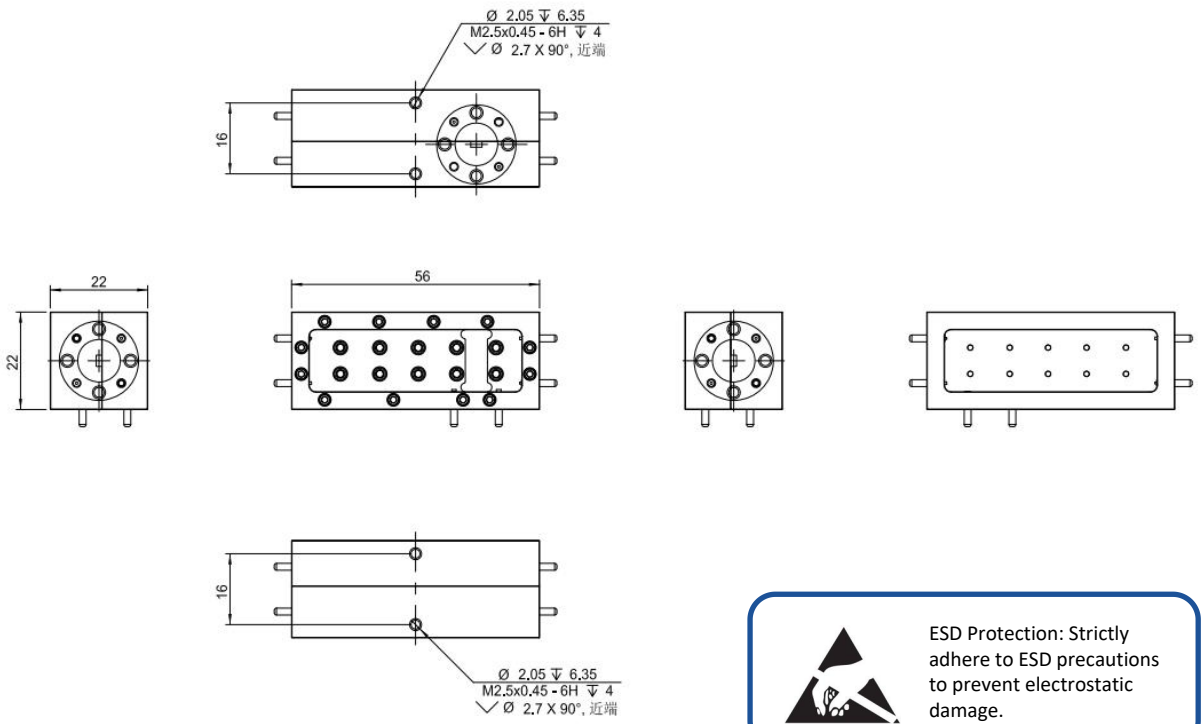
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	TBD
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.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TC-075110-30-10	W-band Waveguide Directional Coupler,75-110GHz, Insertion Loss:0.5dB Typ, Coupling:30dB Typ,WR-10	Rev.1.0

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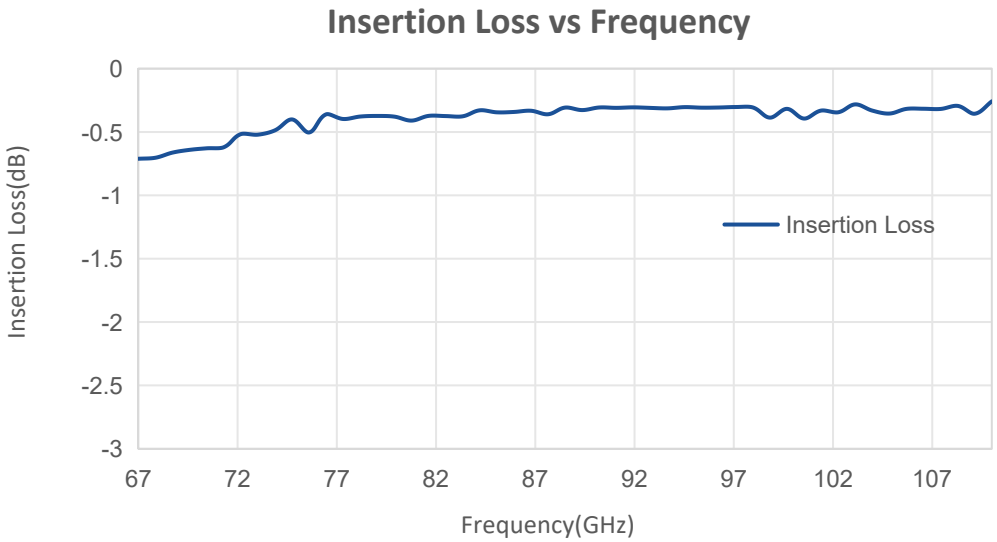
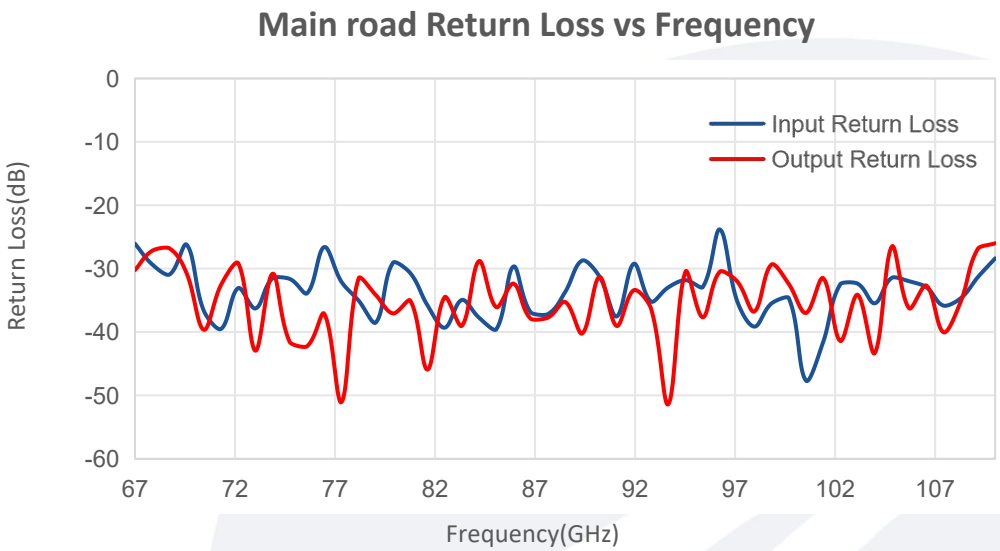
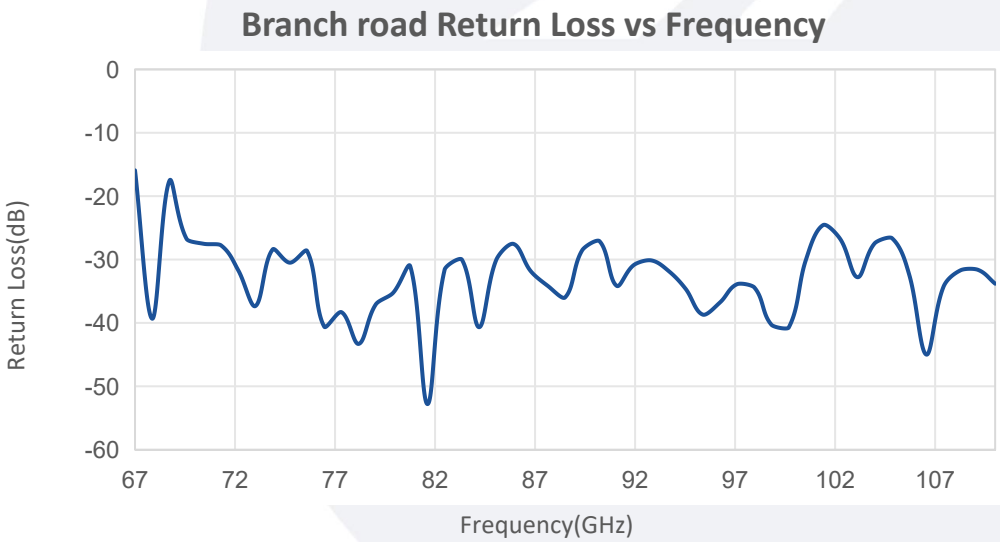
典型曲线 Typical Performance Data:







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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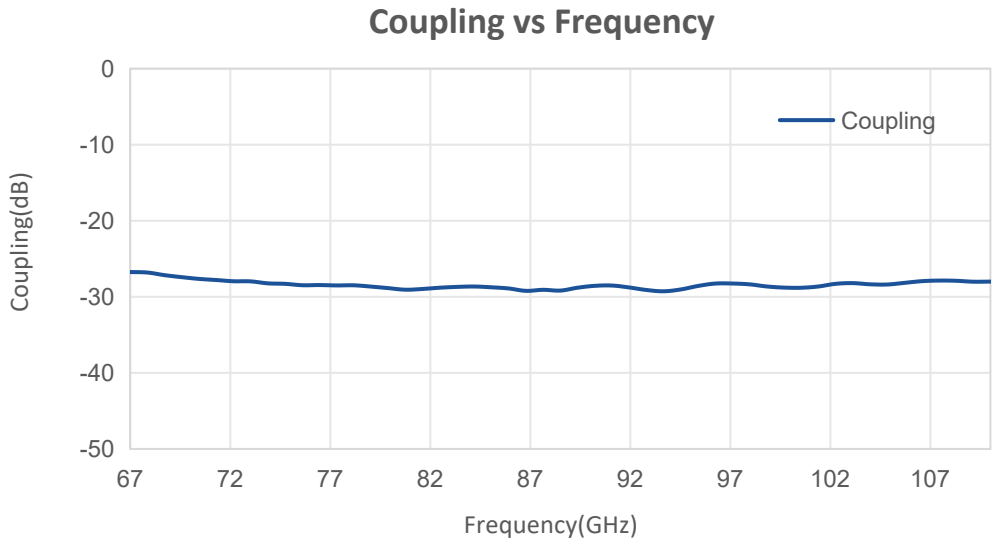

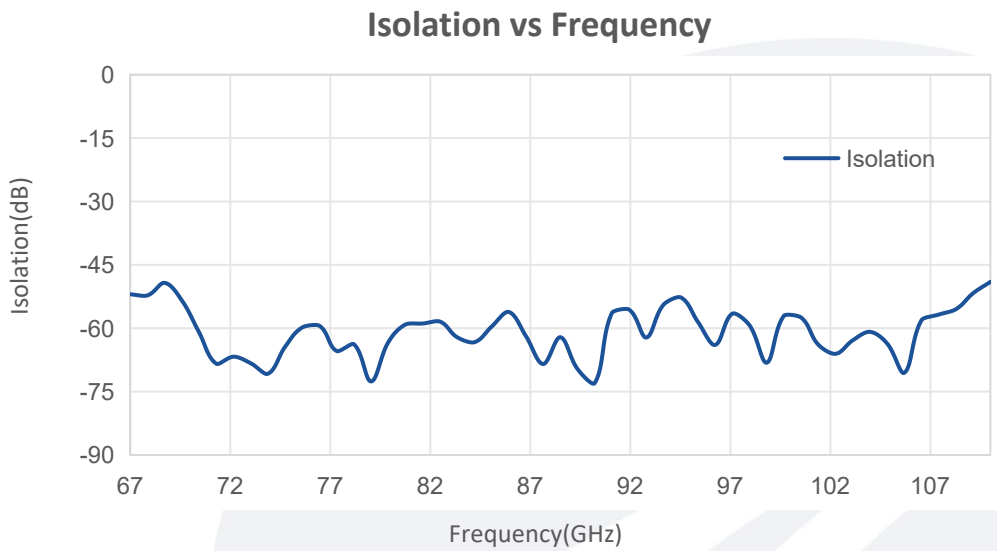

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