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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	75		110	GHz
Main road Return Loss		30		dB
Branch road Return Loss		30		dB
Insertion Loss		0.5		dB
Coupling		30		dB
Directivity		30		dB

Envrionmental And Physical Characteristics:

Parameter	Value	Units
RF Input/Output Connectors	WR-10/UG-387/U	
Coupled Port	WR-10/UG-387/U	
Size	56*22*22	mm

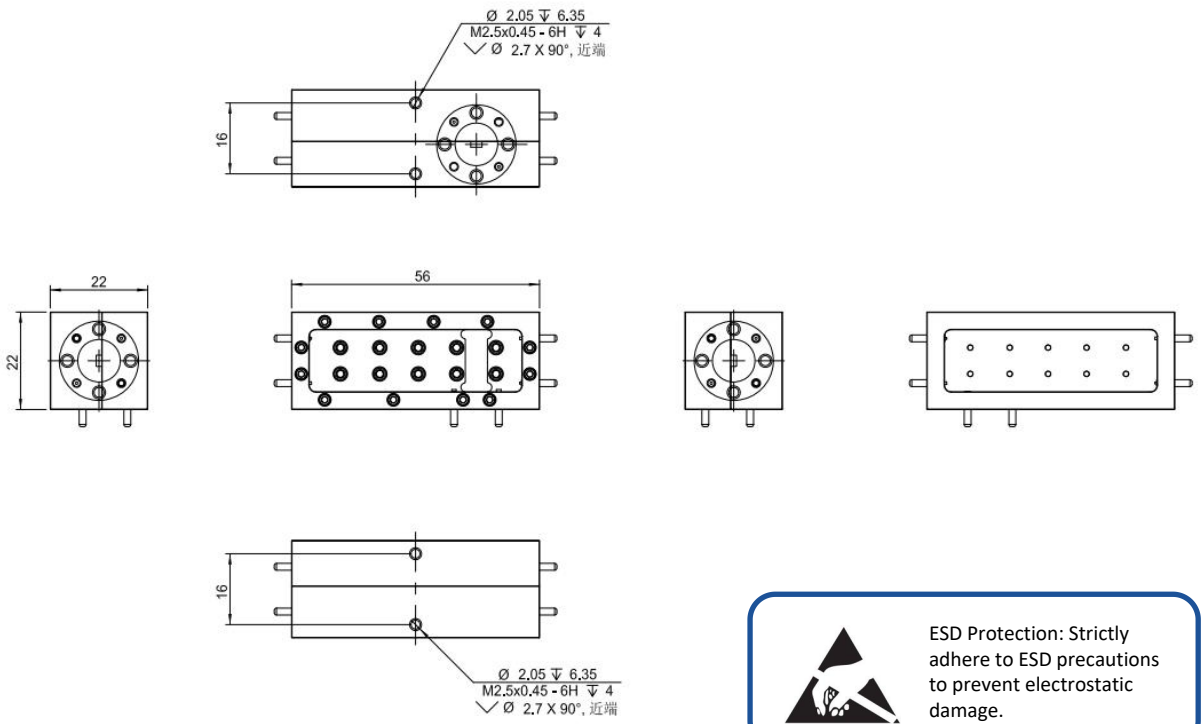
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Absolute Maximum Ratings:

Parameter	Value
RF Input Power	TBD
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



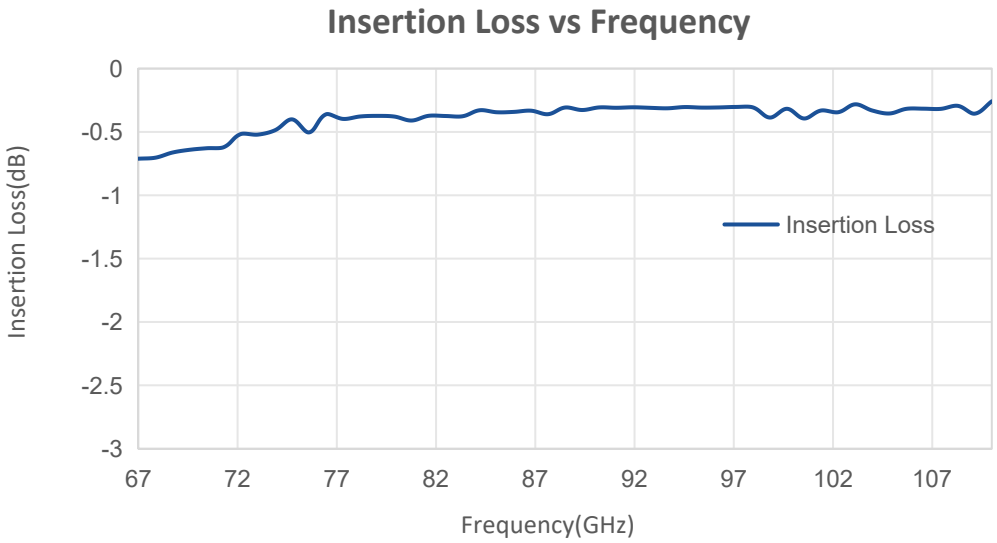
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

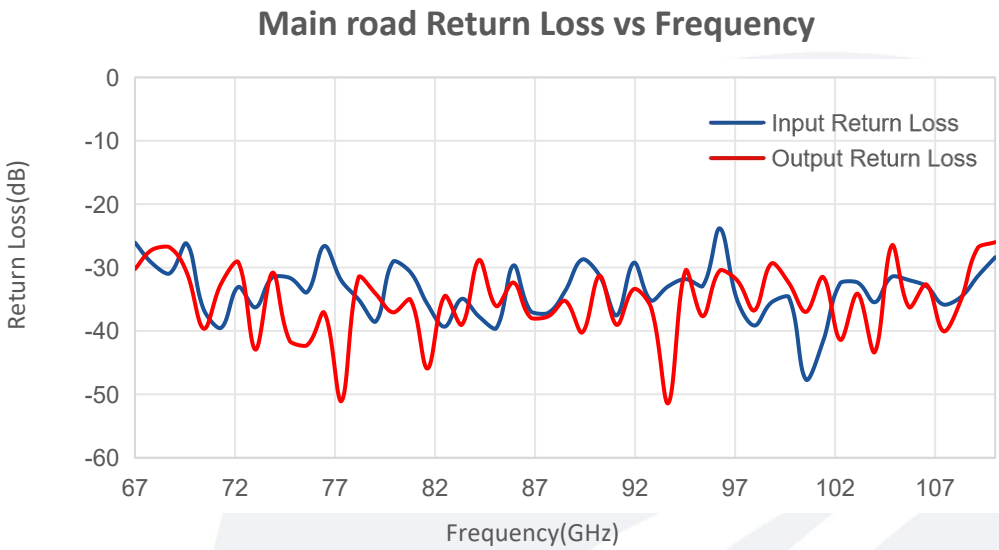
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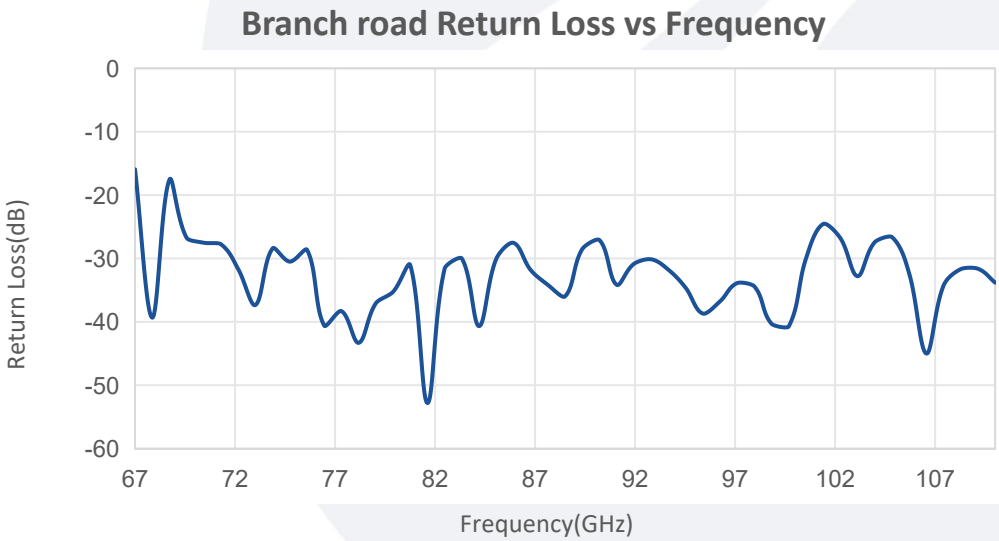
Base Number	Description	Revision
TC-075110-30-10	W-band Waveguide Directional Coupler,75-110GHz, Insertion Loss:0.5dB Typ, Coupling:30dB Typ,WR-10	Rev.1.0

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Typical Performance Data:



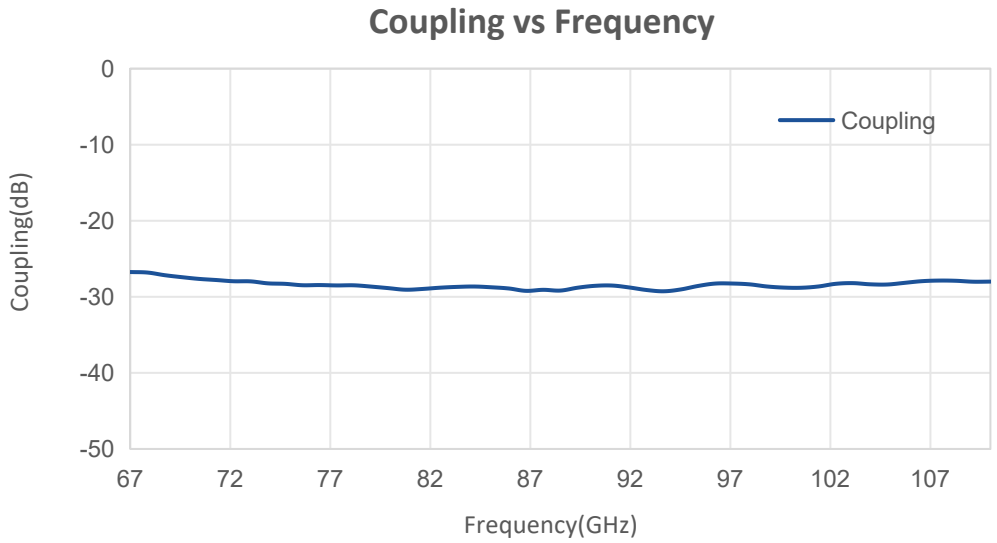


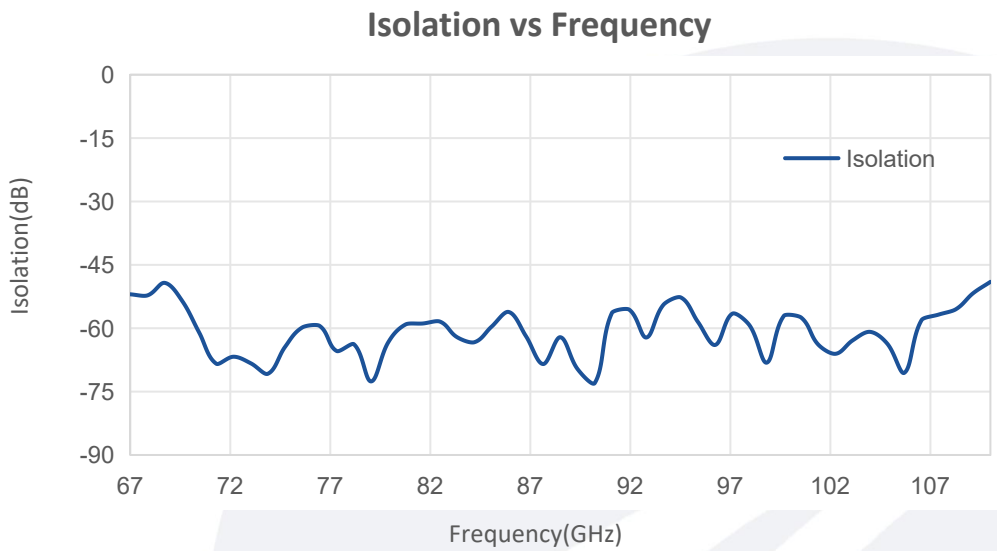


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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