

WR-12 Waveguide Magic Tee, 71 to 86 GHz

Description:

Model SWM-71386320-12-SB-WP is an E band magic tee that covers the frequency range of 71 to 86 GHz. This magic tee is a four-port hybrid coupler and/or power divider with two collinear arms, an E-plane (difference) arm, and an H-plane (sum) arm. The magic tee offers a 0.4 dB nominal insertion loss and high isolation between the two collinear arms and between the sum and difference arms. All waveguide ports have standard WR-12 waveguides with UG-387/U flanges.



Features:

- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter		Minimum	Typical	Maximum
Frequency		71 GHz		86 GHz
Insertion Loss			0.4 dB	
Isolation	Sum and Difference Ports		30 dB	
	Collinear Ports		20 dB	
Return Loss		12 dB	15 dB	
Specification Temperature			+25°C	
Operating Temperature		-40°C		+85°C

Mechanical Specifications:

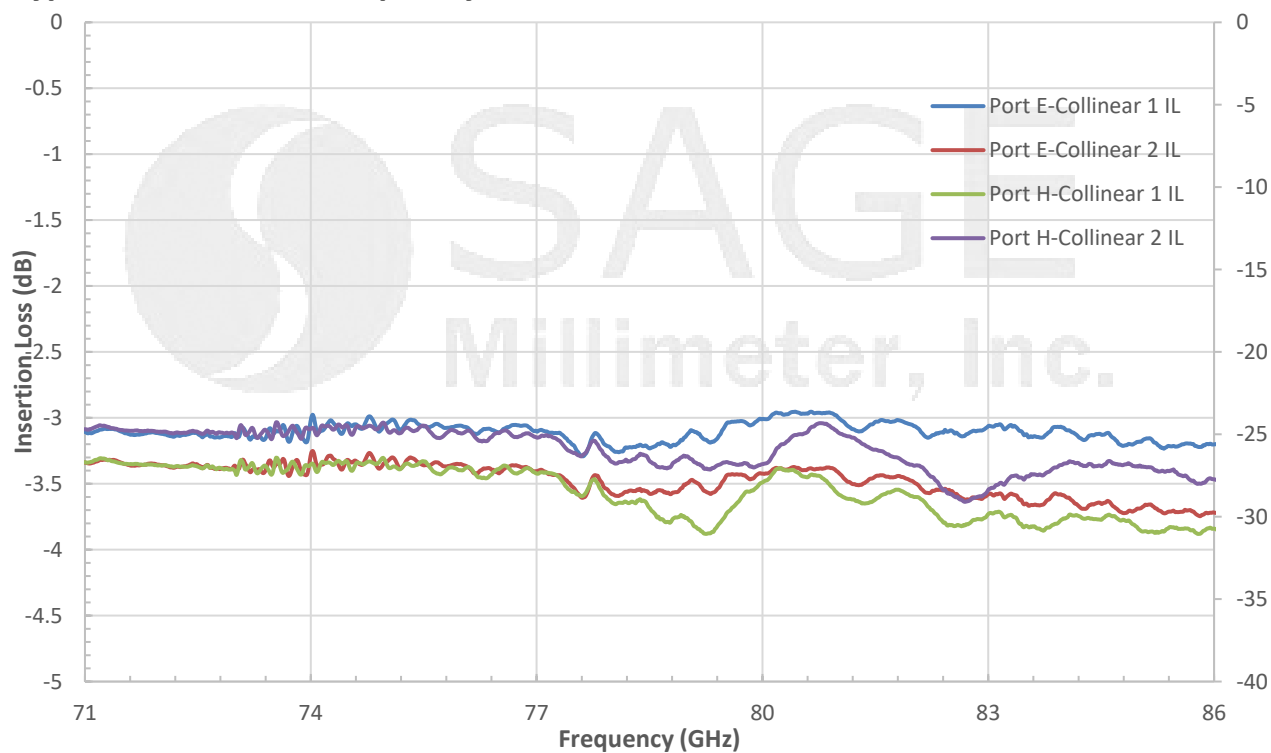
Item	Specification
RF ports	WR-12 Waveguide with UG-387/ Flange
Material	Aluminum
Finish	Gold Plated
Weight	3.8 Oz
Outline	WM-BE



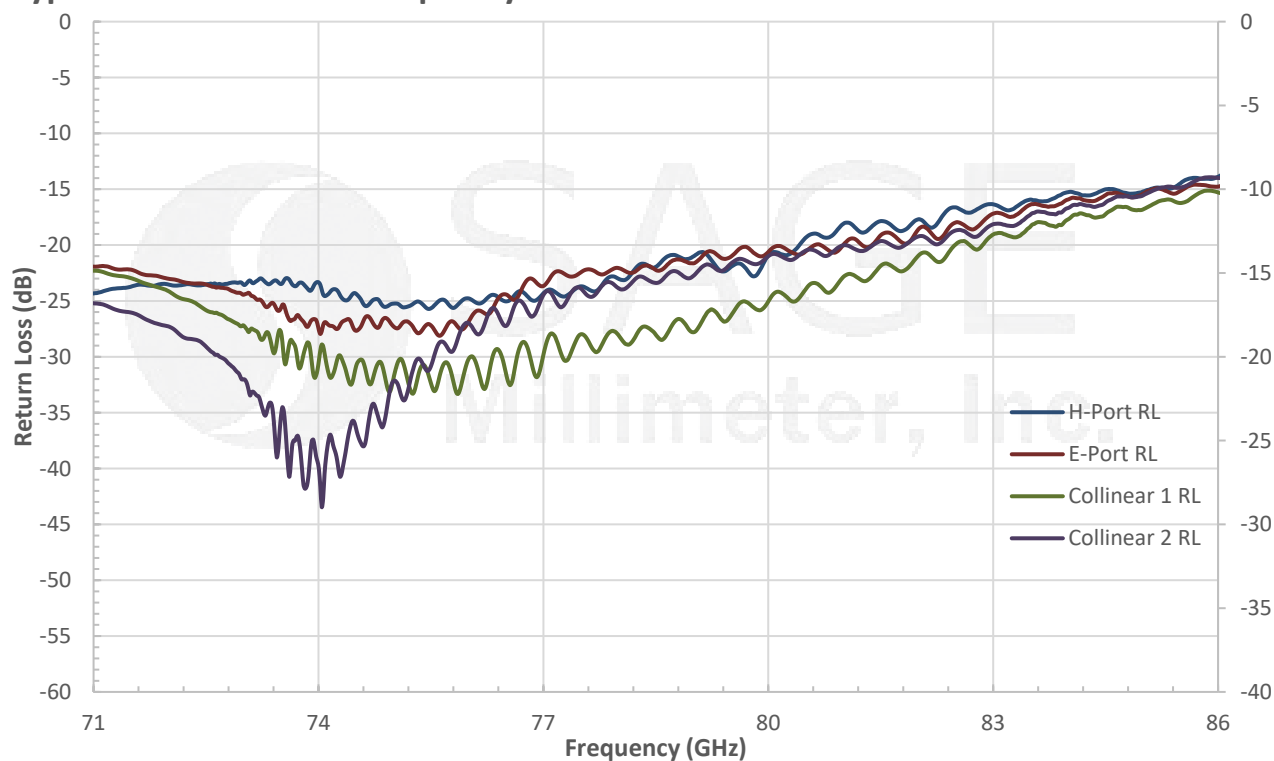


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Typical Insertion Vs Frequency

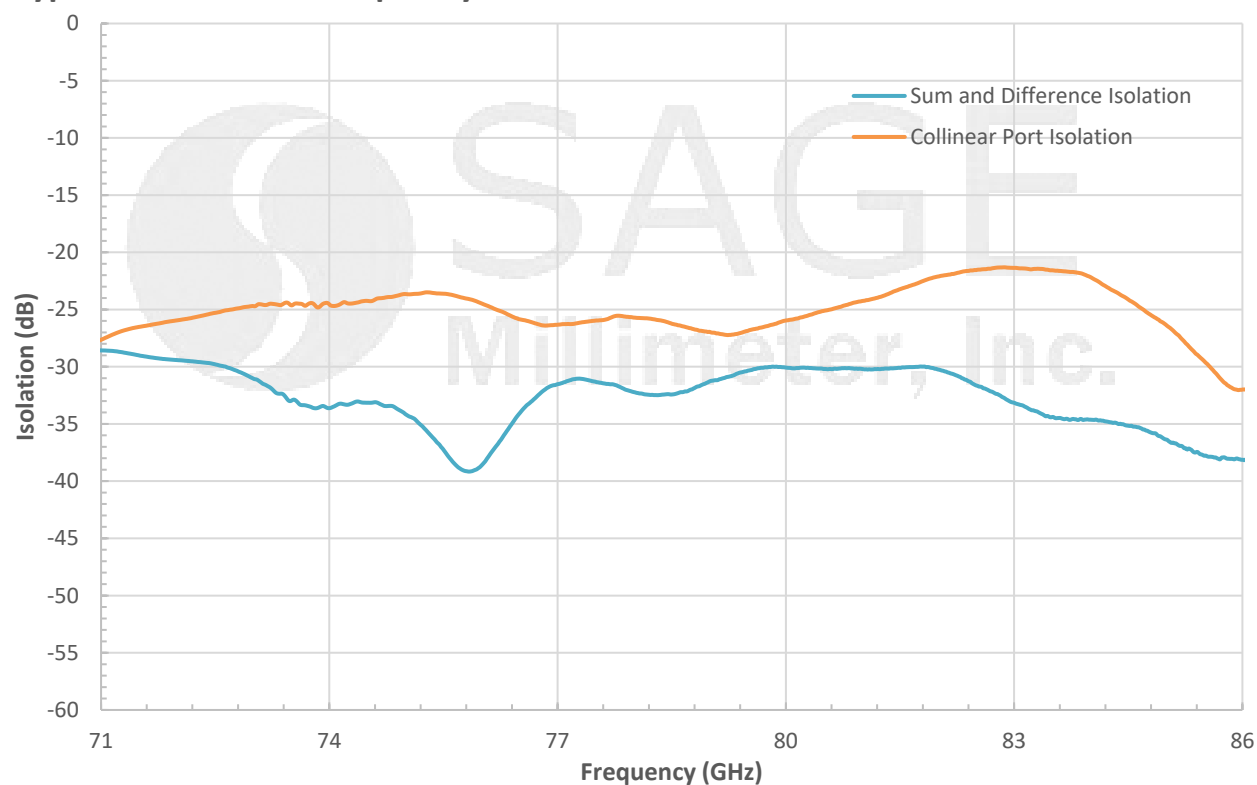


Typical Return Loss Vs Frequency

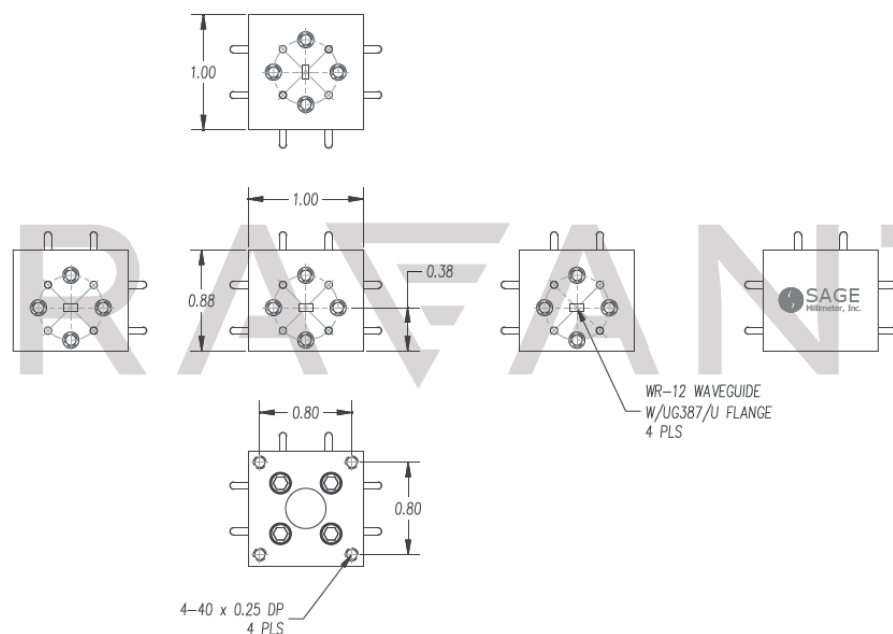


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Typical Isolation Vs Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches[millimeters])



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Note:

- All data are presented using a limited sample lot. Actual data may vary unit to unit.
- All testing was performed under +25°C case temperature.
- Eravant reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- Any foreign objects in the waveguide will degrade performance and/or damage the device.

