

WR-34 Waveguide Magic Tee, 22-33 GHz

Description:

Model SWM-22333320-34-SB is a WR-34 waveguide magic tee that covers the frequency range of 22 to 33 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 0.30 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-34 waveguides with UG-1530/U flanges.



Features:

- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter		Minimum	Typical	Maximum
Frequency		22 GHz		33 GHz
Insertion Loss			0.30 dB	
Isolation	Sum and Difference Ports		30 dB	
	Collinear Ports	15 dB	20 dB	
Return Loss			14 dB	
Specification Temperature			+25°C	
Operating Temperature		-40°C		+85°C

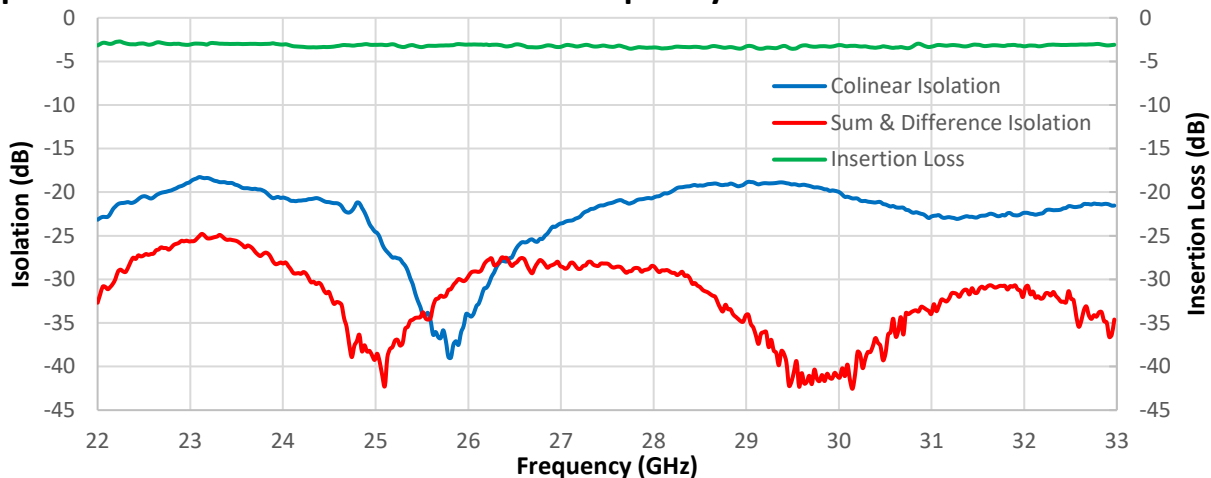
Mechanical Specifications:

Item	Specification
Sum and Difference Ports	WR-34 Waveguide with UG-1530/U Flange
Collinear Ports	WR-34 Waveguide with UG-1530/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	1.6 Oz
Outline	WM-B3

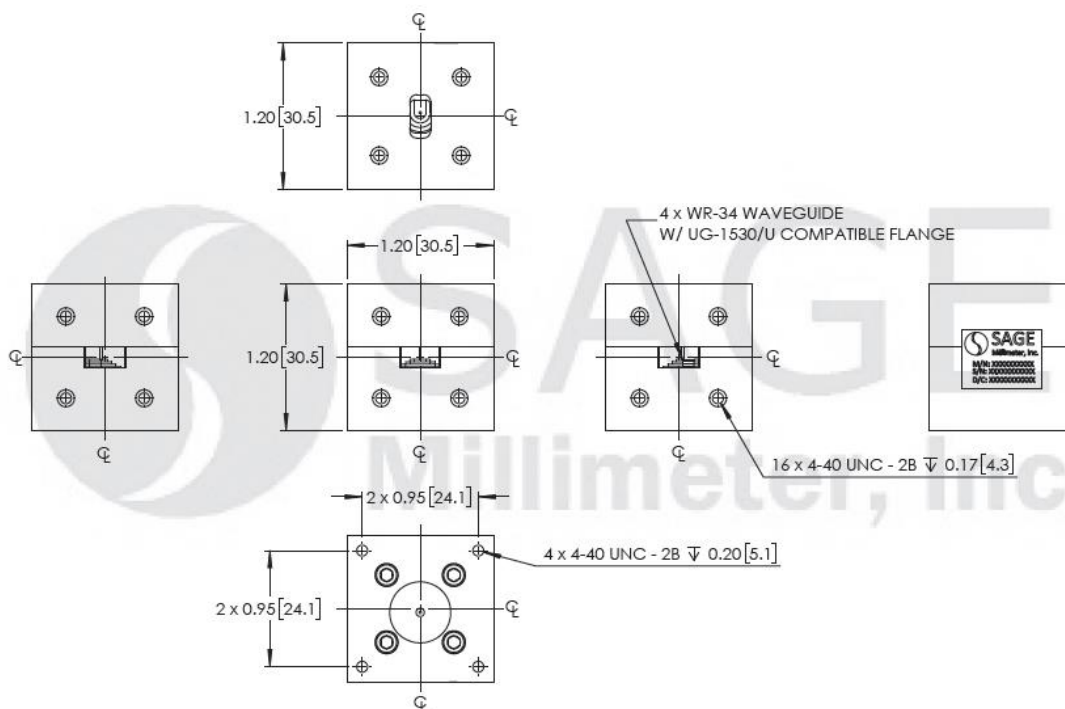


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Typical Insertion Loss and Isolation vs. Frequency



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

**Note:**

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- All testing was performed under +25 °C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the waveguide will degrade performance and/or damage the device.

