SWM-33350320-22-SB

1/3

Full Waveguide Q-Band Magic Tee

SWM-33350320-22-SB is a Q band magic tee that covers the frequency range of 33 to 50 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 0.3 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-22 waveguides with UG-383/U anti-cocking flanges.

Electrical Specifications:

Parameter		Minimum	Typical	Maximum
Frequency Range		33 GHz		50 GHz
Insertion Loss			0.3 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-22 Waveguide with UG-383/U Anti-Cocking Flange			
Collinear Ports	WR-22 Waveguide with UG-383/U Anti-Cocking Flange			
Material	Aluminum			
Finish	Gold Plated			
Weight	3.7 Oz			
Outline	WM-BQ-A			

	TET!	7
NEXT GENE	ERAVANT WR-22, Magic Tee SWM-33350320-22-SB S/N: 15203-01 D/C: 34/2018	

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FEATURES

Low Insertion Loss

Test Instrumentation

SUPPLEMENTAL DETAILS

Sub-assemblies

High Isolation Compact Package

APPLICATIONS Test Labs

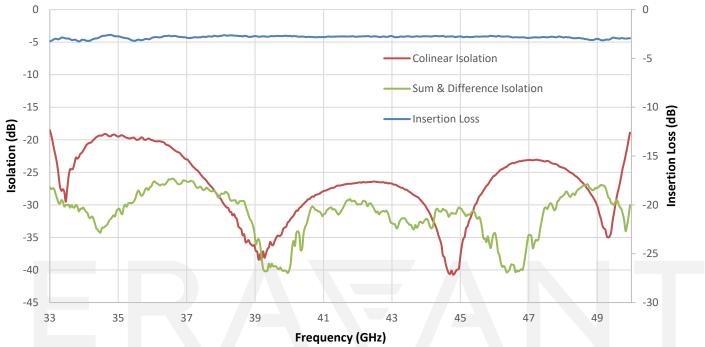
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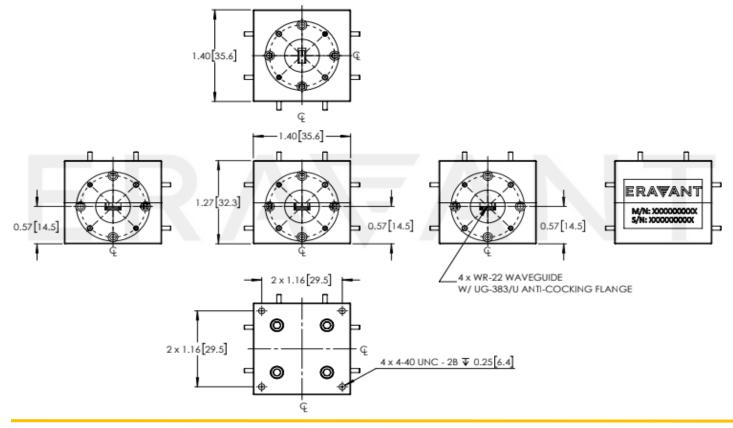
Final Rev 1.3

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Typical Isolation and Insertion Loss vs. Frequency



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



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NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

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