

Full Waveguide U-Band Magic Tee

Description:

Model SWM-40360320-19-SB is a U band magic tee that covers the frequency range of 40 to 60 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-19 waveguides with UG-383/U-M flanges.



Features:

- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter		Minimum	Typical	Maximum
Frequency		40 GHz		60 GHz
Insertion Loss			0.3 dB	
Isolation	Sum and Difference Ports		30 dB	
	Collinear Ports	15 dB	20 dB	
VSWR			1.5:1	
Specification Temperature			+25°C	
Operating Temperature		-40°C		+85°C

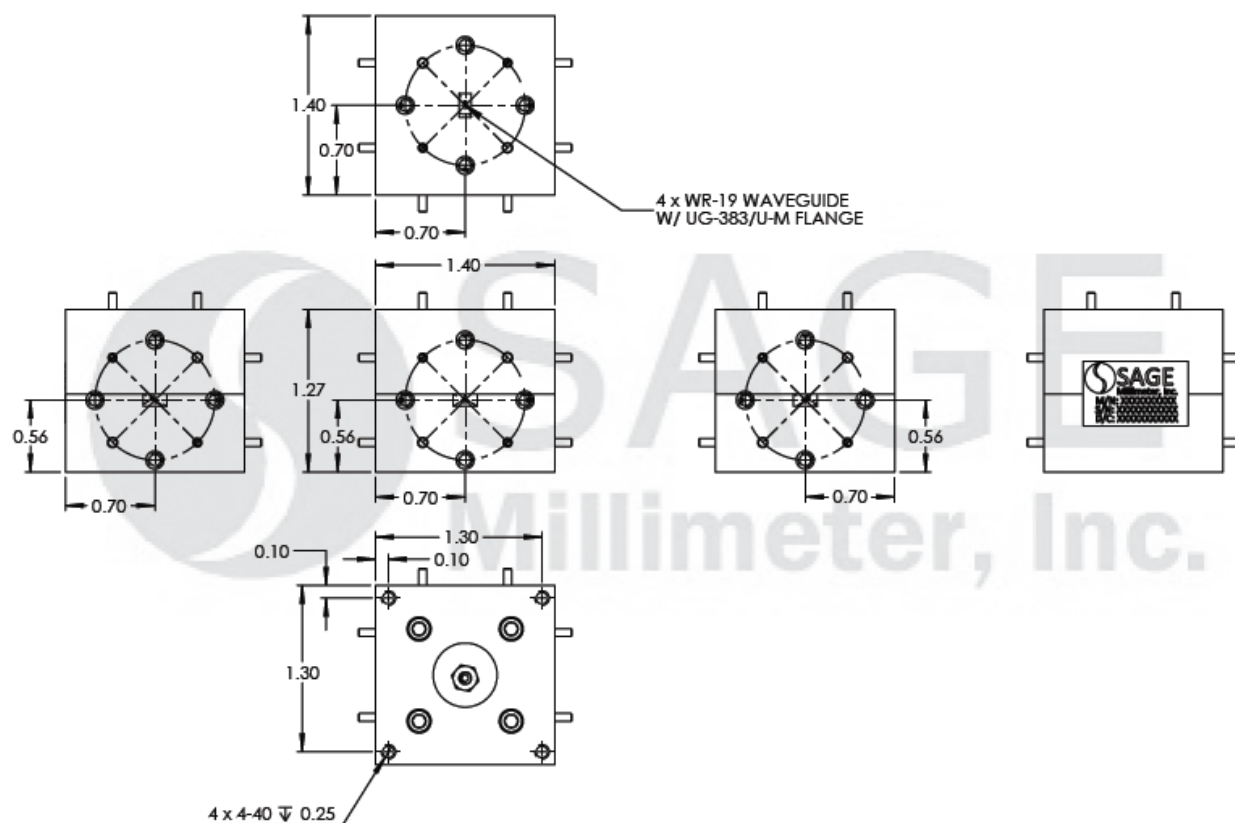
Mechanical Specifications:

Item	Specification
Sum and Difference Ports	WR-19 Waveguide with UG-383/U-M Flange
Collinear Ports	WR-19 Waveguide with UG-383/U-M Flange
Material	Aluminum
Finish	Gold Plated
Weight	3.7 Oz
Outline	WM-BU



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



Note:

- SAGE Millimeter, Inc. 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.

