

Full Waveguide K-Band Magic Tee

Description:

Model SWM-183273-42-SB is a K band magic tee that covers the frequency range of 18 to 26.5 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 0.15 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-42 waveguides with UG-595/U flanges.

Features:

- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

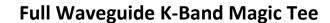
Parameter		Minimum	Typical	Maximum
Frequency		18 GHz		26.5 GHz
Insertion Loss			0.15 dB	\$ P
Isolation	Sum and Difference Ports		30 dB	
	Collinear Ports	15 dB	20 dB	20
VSWR		HIIIII	1.5:1	10.
Specification Temperature			+25°C	
Operating Temperature		-40°C		+85°C

Mechanical Specifications:

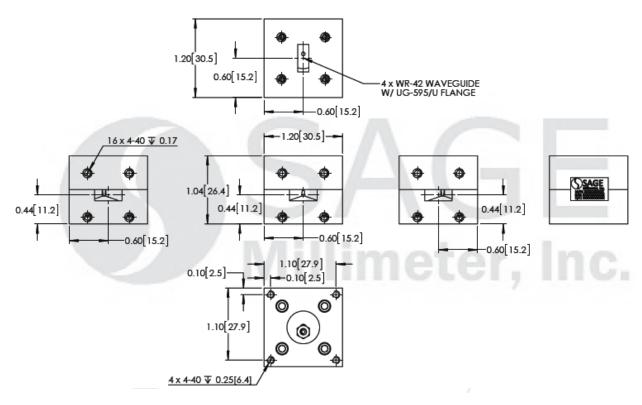
Item	Specification	
Sum and Difference Ports	WR-42 Waveguide with UG-595/U Flange	
Collinear Ports	WR-42 Waveguide with UG-595/U Flange	
Material	Aluminum	
Finish	Gold Plated	
Weight	1.6 Oz	
Outline	WM-BK	



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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.



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