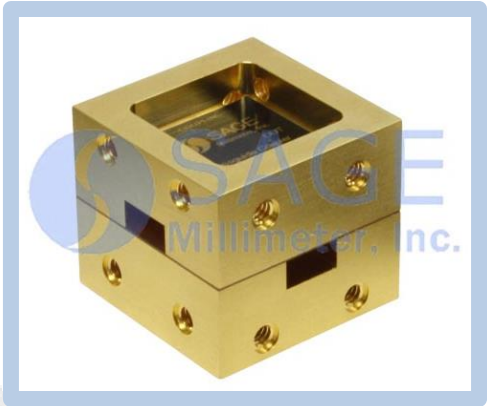
SWX-31339320-28-3B

Rev 1.0

Waveguide Crossguide Coupler, Ka Band, 20 dB

Description:



Model SWX-31339320-28-3B is a three-port, split block crossguide coupler that is offered for power sampling where directivity is of concern. Compared to a multi-hole directional coupler, crossguide couplers offer lower insertion loss and a smaller form factor and insertion length. This model operates between 31 to 39 GHz with a 20 dB typical coupling level, 0.4 dB nominal insertion loss, and 15 dB typical directivity. The input, output, and coupled ports are all WR-28 waveguides with UG-599/U flanges.

Features:

- Low Insertion Loss
- Moderate Directivity
- Four Port Configuration

Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	31 GHz		39 GHz
Coupling Level		20 dB	
Insertion Loss		0.4 dB	
Directivity		15 dB	
Input Return Loss		20 dB	
Output Return Loss		20 dB	
Specification Temperature		+25 ˚C	
Operating Temperature	-40 ˚C		+85 ˚C

Mechanical Specifications:

Port	Specification
Input Port	WR-28 Waveguide with UG-599/U Flange
Output Port	WR-28 Waveguide with UG-599/U Flange
Coupled Port	WR-28 Waveguide with UG-599/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	1.0 Oz
Size	1.00” (L) x 1.00” (W) x 0.90” (H)
Outline	WX-BA-3

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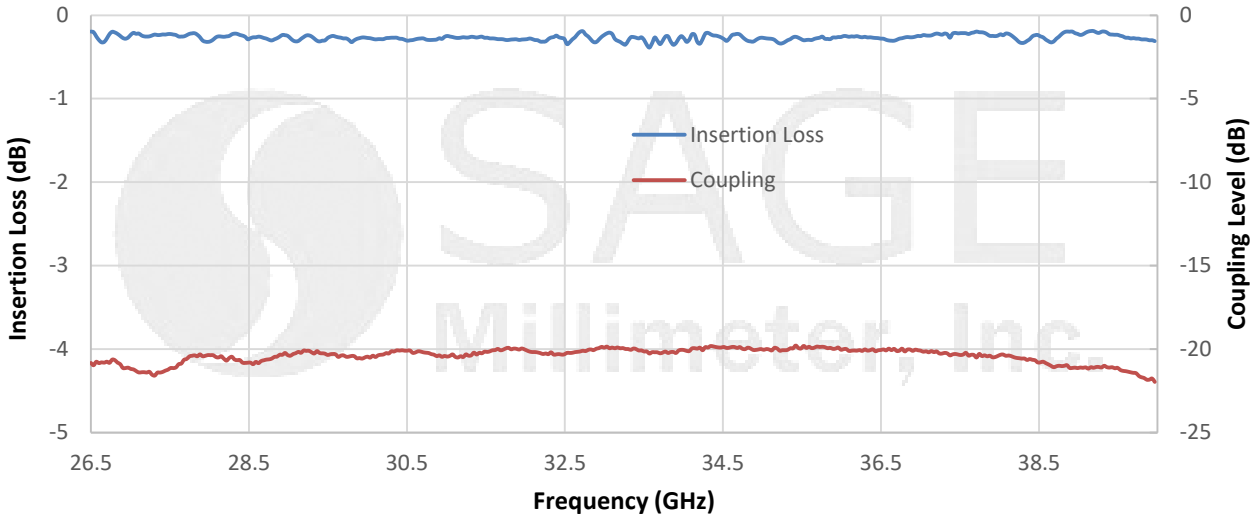
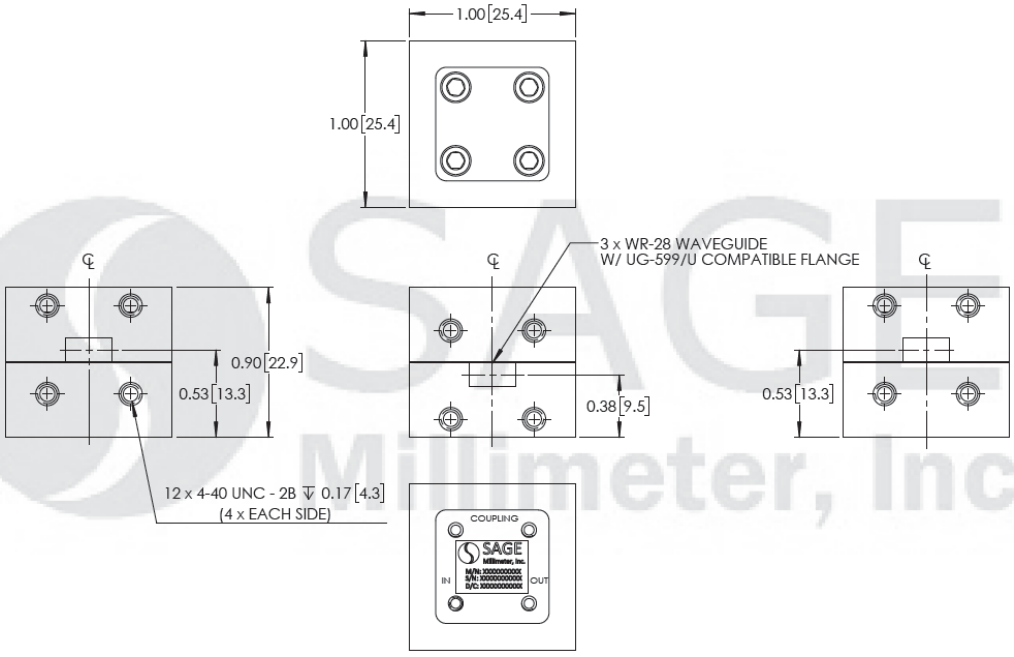
Typical Insertion Loss & Coupling vs. Frequency



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.
- 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.

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