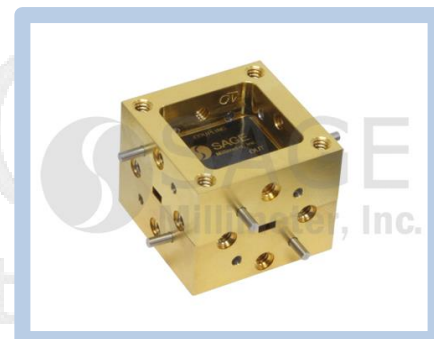


Waveguide Crossguide Coupler, E Band, 60 to 90 GHz, 15 dB

Description:

Model SWX-60390315-12-3B 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 shorter insertion length. This model operates between 60 to 90 GHz with a 15 dB typical coupling level, 0.6 dB nominal insertion loss, and 15 dB typical directivity. The input, output, and coupled ports are all WR-12 waveguides with UG-387/U anti-cocking flanges.



Features:

- Low Insertion Loss
- Moderate Directivity
- Three Port Configuration

Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	60 GHz		90 GHz
Coupling Level		15 dB	
Insertion Loss		0.6 dB	
Directivity		15 dB	
Return Loss		26 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

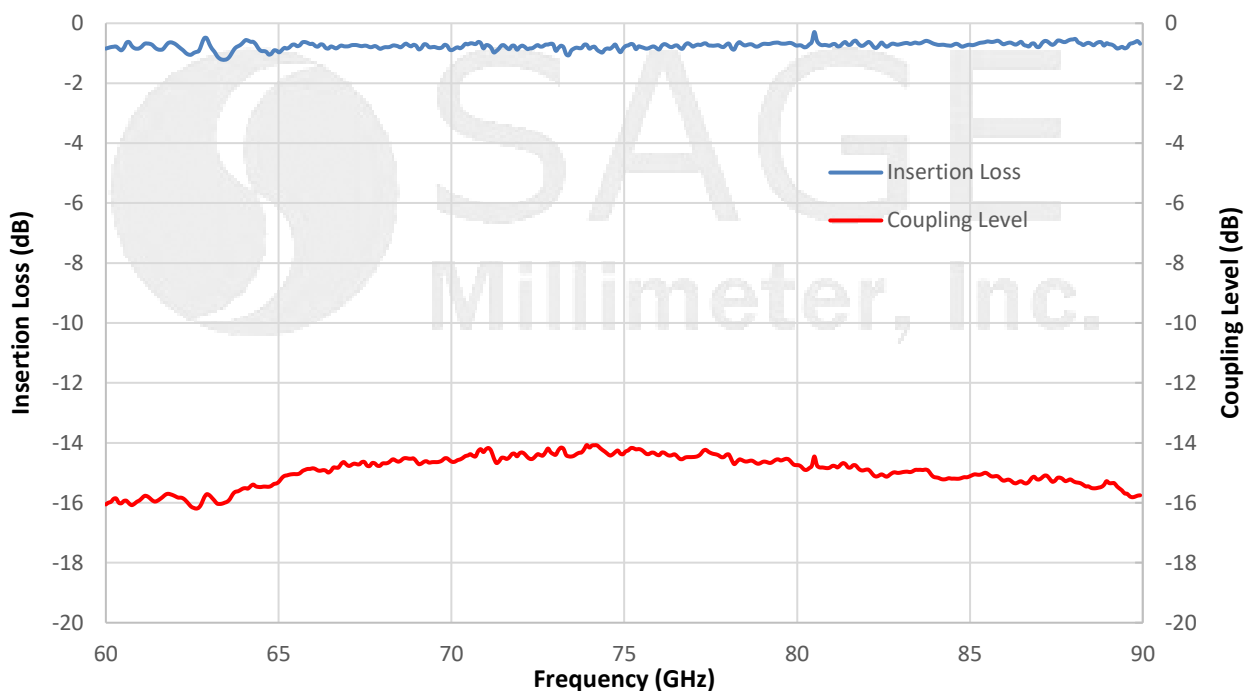
Mechanical Specifications:

Item	Specifications
Input/ Output Ports	WR-12 Waveguide with UG-387/U Anti-Cocking Flanges
Coupling Port	WR-12 Waveguide with UG-387/U Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	0.8 Oz
Size	1.00" (L) x 1.00" (W) x 0.82" (H)
Outline	WX-BE-3-F7-A

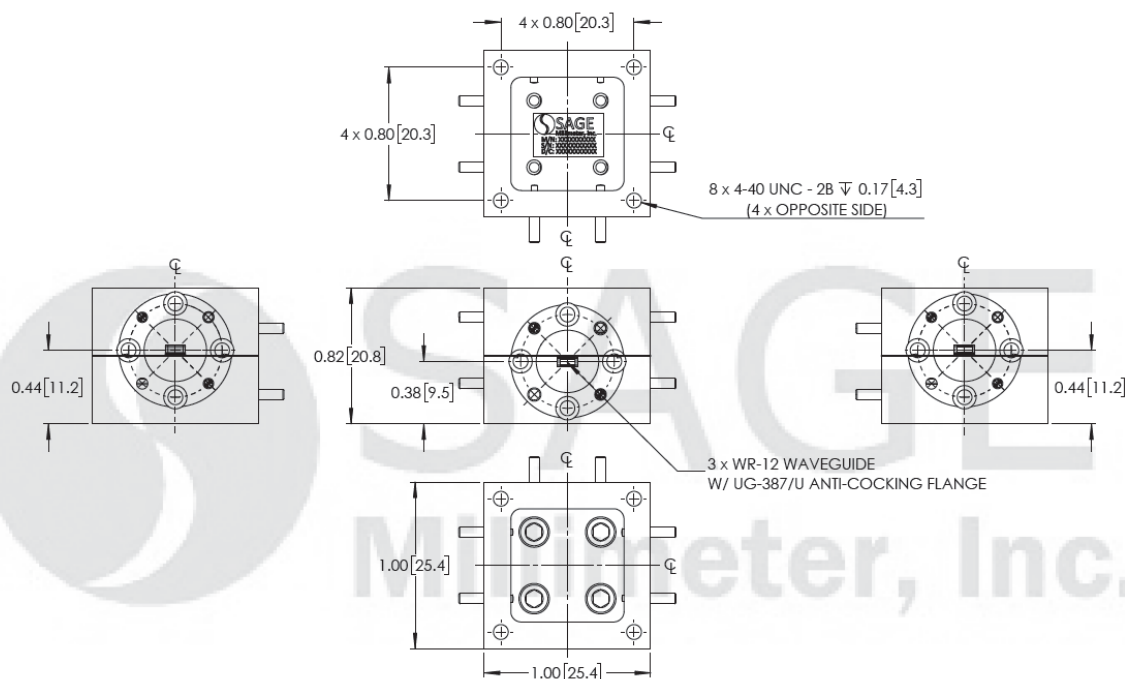


Waveguide Crossguide Coupler, E Band, 60 to 90 GHz, 15 dB

Typical Insertion Loss and Coupling vs. Frequency



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





Waveguide Crossguide Coupler, E Band, 60 to 90 GHz, 15 dB

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.
- Other mechanical configurations are available under different model numbers.

Caution:

- Any foreign objects in the waveguide will cause performance degradation and may damage the device.

