

Waveguide Crossguide Coupler, U Band, 30 dB

Description:

Model SWX-40360330-19-4B is a four-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 40 to 60 GHz with a 30 dB typical coupling level, 0.5 dB nominal insertion loss, and 20 dB typical directivity. The input, output, and coupled ports are all WR-19 waveguides with UG-383/U-M flanges.



Features:

- Low Insertion Loss
- Moderate Directivity
- Four Port Configuration

Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	40 GHz		60 GHz
Insertion Loss		0.5 dB	
Coupling Level		30 dB	
Directivity		20 dB	
Return Loss (Input and Output Ports)		26 dB	
Return Loss (Coupling Port)		26 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

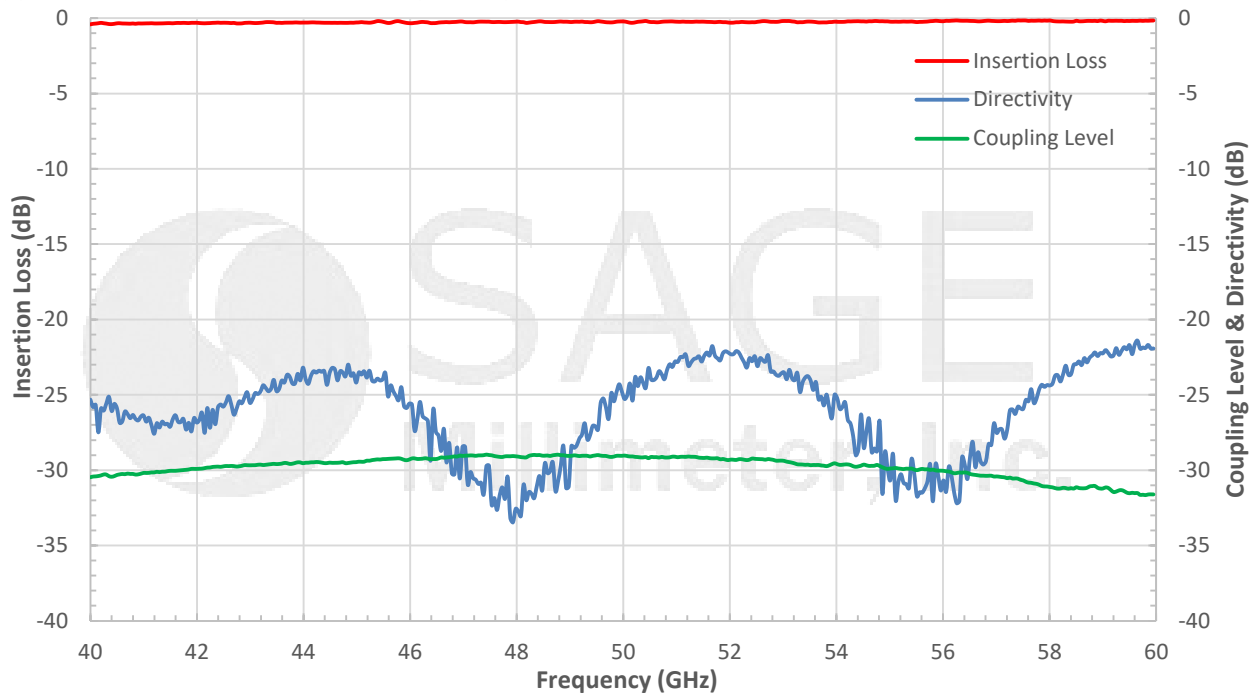
Mechanical Specifications:

Item	Specifications
Input Port	WR-19 Waveguide with UG-383/U-M Flange
Output Port	WR-19 Waveguide with UG-383/U-M Flange
Coupling Port	WR-19 Waveguide with UG-383/U-M Flange
Material	Aluminum
Finish	Gold Plated
Weight	2.0 Oz
Size	1.30" (L) x 1.30" (W) x 1.23" (H)
Outline	WX-BU-4-F3

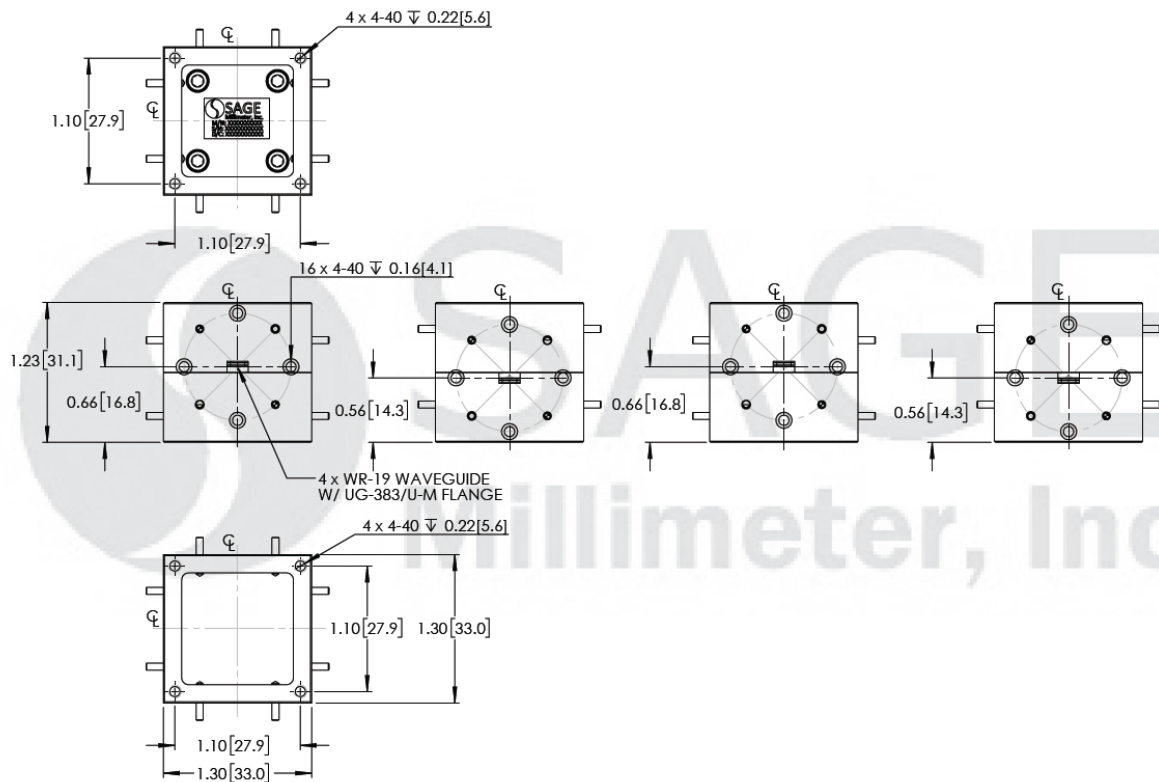


Waveguide Crossguide Coupler, U Band, 30 dB

Typical Performance vs. Frequency



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



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com



SAGE Millimeter, Inc.

Waveguide Crossguide Coupler, U Band, 30 dB

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.
- 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.

