

SWX-75311420-10-3B

Waveguide Crossguide Coupler, W Band, 20 dB

SWX-75311420-10-3B 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 75 to 110 GHz with a 20 dB typical coupling level, 0.7 dB nominal insertion loss, and 20 dB typical directivity. The input, output, and coupled ports are all WR-10 waveguides with UG-387/U-M anti-cocking flanges.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	75 GHz		110 GHz
Insertion Loss*		0.7 dB	
Coupling		20 dB	
Directivity		20 dB	
Return Loss		26 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

*Performance may be reduced at band edges.

Mechanical Specifications:

Item	Specification
Waveguide Ports	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	0.8 Oz
Outline	WX-BW-3-F7-A

ECCN

EAR99

FEATURES

- Full Band Operation
- Low Insertion Loss
- Moderate Directivity
- Three Port Configuration

APPLICATIONS

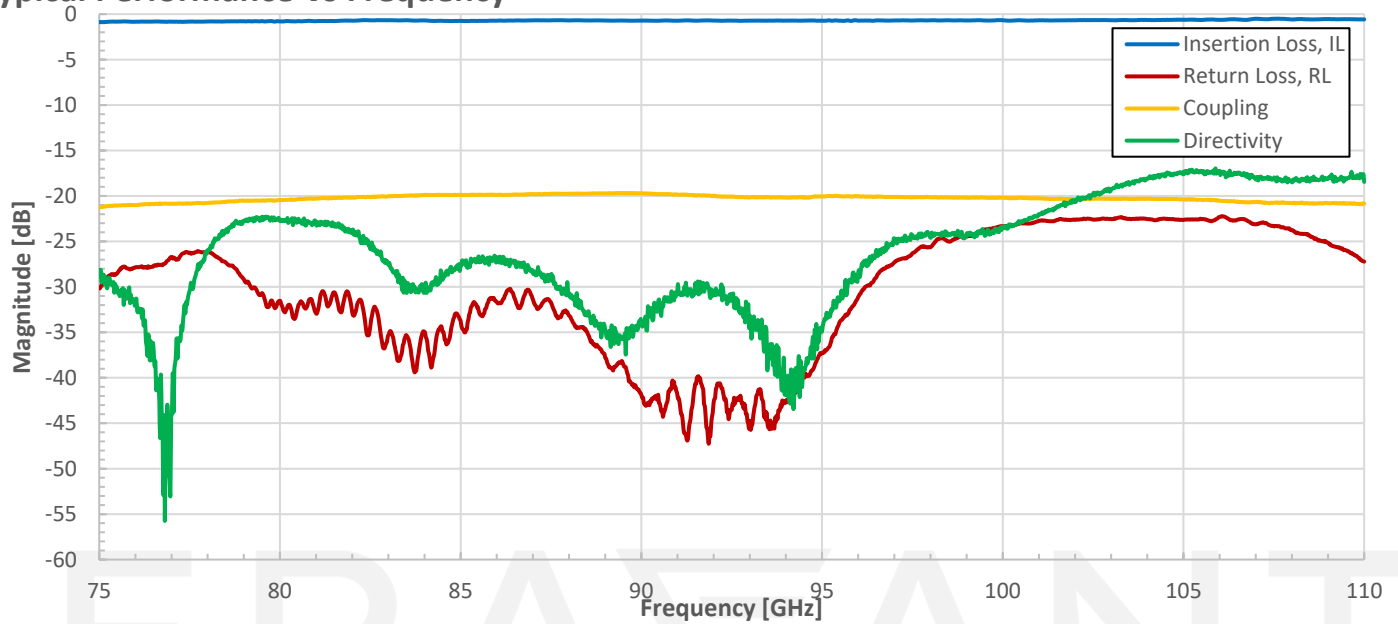
- Test Labs
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS



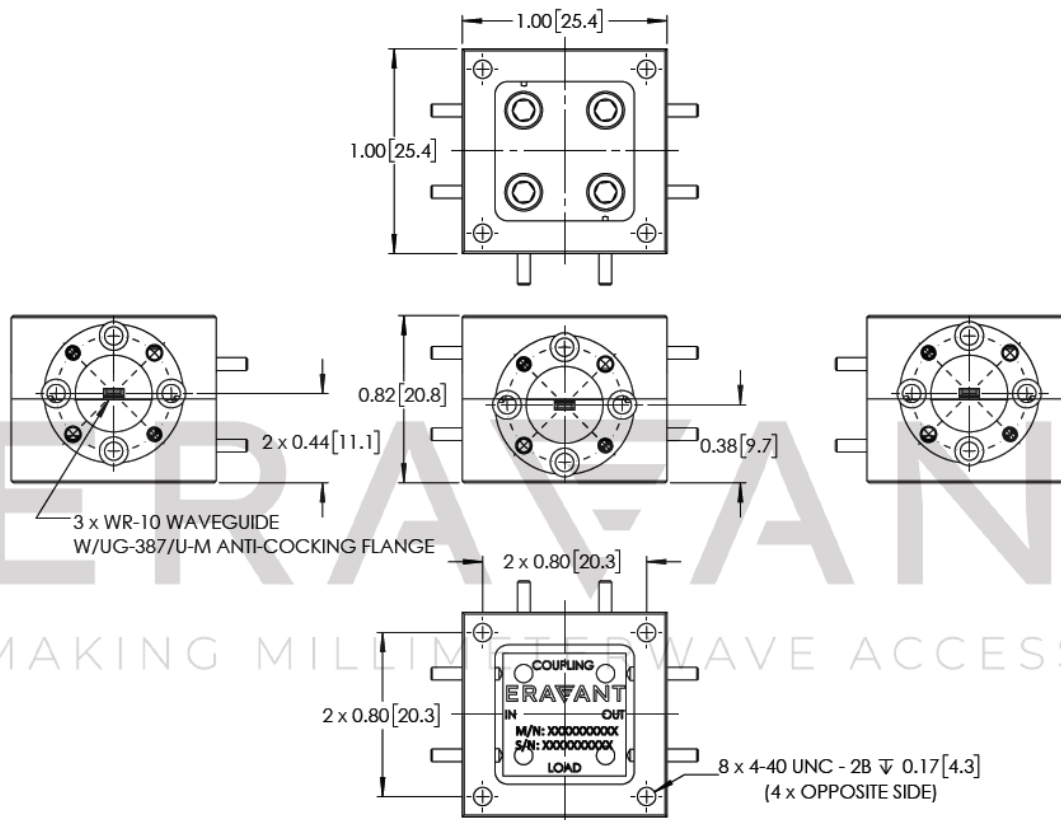
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Typical Performance Vs Frequency



Mechanical Outline:

Unless otherwise specified, all dimensions are in inches [millimeters]



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

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