

Waveguide Crossguide Coupler, G Band, 30 dB

SWX-14422430-05-4B is a four-port, split block crossguide coupler that is offered for power sampling where directivity is of no 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 140 to 220 GHz with a 30 dB typical coupling level and 2 dB nominal insertion. The input, output, and coupled ports are all WR-05 waveguides with UG-387/U-M anti-cocking flanges.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	140 GHz		220 GHz
Insertion Loss*		2 dB	
Coupling		30 dB	
Directivity		10 dB	
Return Loss		18 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-05 Waveguide with UG-387/U-M Anti-Cocking Flange	
Material	Aluminum	
Finish	Gold Plated	
Weight	0.9 Oz	
Outline	WX-BG-4-F4-A	

ECCN

EAR99

FEATURES

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

APPLICATIONS

- Test Labs
- Instrumentations
- Sub-assemblies

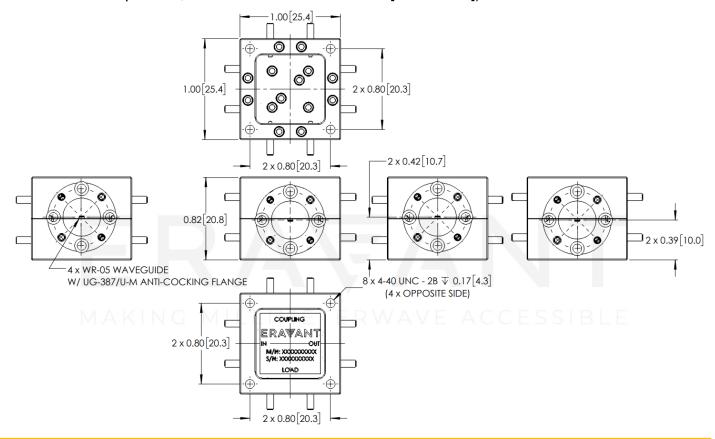
SUPPLEMENTAL DETAILS





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.

MAKING MILLIMETERWAVE ACCESSIBLE