

## SWX-71386320-12-3B-WP

### Waveguide Crossguide Coupler, E Band, 20 dB

**SWX-71386320-12-3B-WP** 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 71 to 86 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 flanges.



### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	71 GHz		86 GHz
Insertion Loss*		0.6 dB	
Coupling		20 dB	
Directivity		15 dB	
Return Loss		20 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-12 Waveguide with UG-387/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	0.8 Oz
Outline	WX-BE-3

### ECCN

EAR99

### FEATURES

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

### APPLICATIONS

- Test Labs
- Instrumentations
- Sub-assemblies

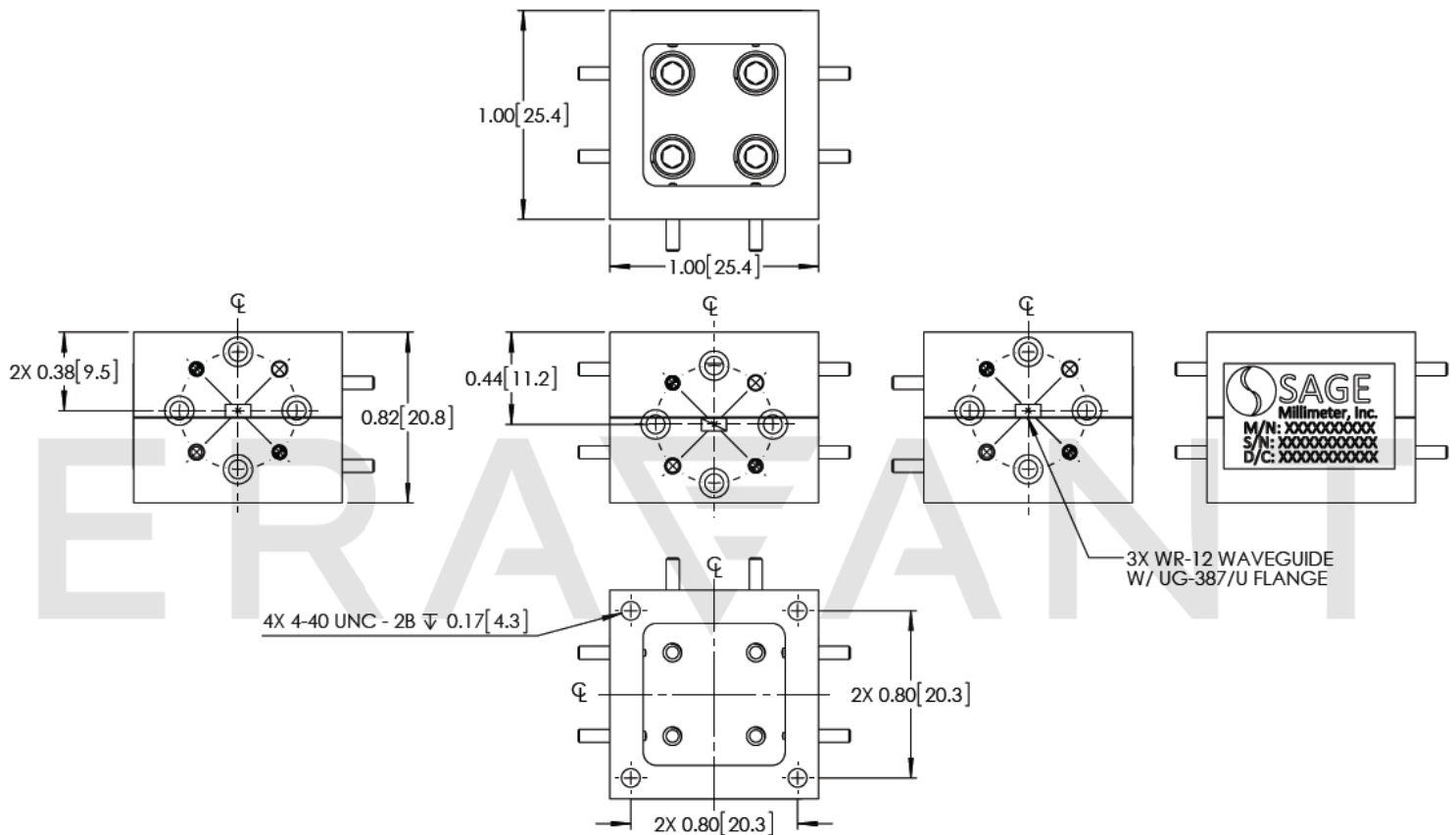
### SUPPLEMENTAL DETAILS



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### 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.