

SWD-4040H-12-DB

E-Band Waveguide Dual-Directional Coupler, 40 dB

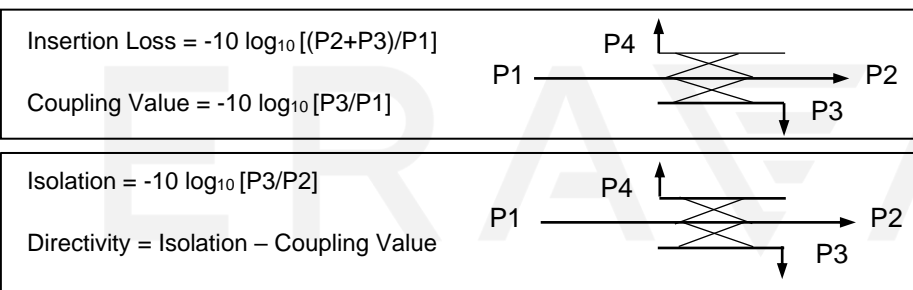
SWD-4040H-12-DB is an E-band, four-port waveguide dual-directional coupler that delivers a 40 dB nominal coupling level and 40 dB typical directivity across the full waveguide band from 60 to 90 GHz. The dual-directional coupler uses a traditional multi-hole and split block design to achieve a flat coupling level, high directivity, and low insertion loss. The waveguide interface of the coupler is WR-12 waveguides with UG-387/U flanges. Custom coupling levels are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	60 GHz		90 GHz
Insertion Loss*		1.5 dB	
Coupling*		40 dB	
Directivity*	30 dB	40 dB	
Return Loss		20 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

*The definition of the insertion loss, coupling and directivity is show as following. The required termination on the waveguide port is 30 dB or better for accurate measurement.



ECCN

EAR99

FEATURES

- Full Band Operation
- Low Insertion Loss
- High Directivity

APPLICATIONS

- Test Labs
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS

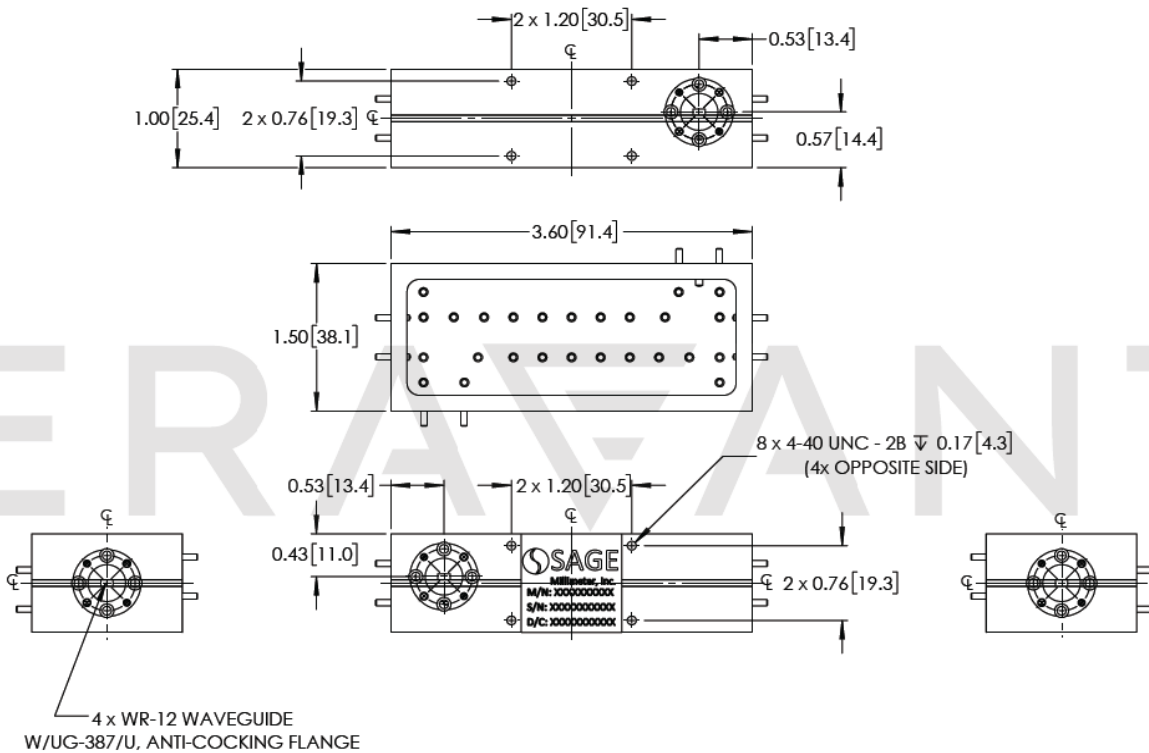


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Mechanical Specifications:

Item	Specification
Through Ports	WR-12 Waveguide with UG-387/U Anti-Cocking Flange
Coupled Port	WR-12 Waveguide with UG-387/U Anti-Cocking Flange
Housing Material	Brass
Finish	Gold Plated
Size	3.60" (L) X 1.50" (W) x 1.00" (H)
Outline	WD-DB-E-A

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.
- 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.