SWD-0630E-28-SW5

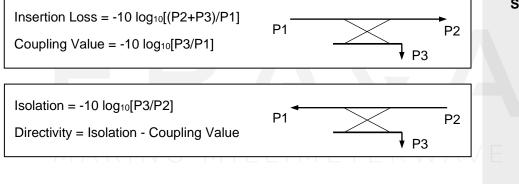
Ka-Band Waveguide Directional Coupler, 6 dB

SWD-0630E-28-SW5 is a Ka band, three-port waveguide directional coupler that delivers a 6 dB nominal coupling level and 30 dB typical directivity across the full waveguide band from 26.5 to 40 GHz. The three-port coupler uses E-plane coupling and features a traditional multihole and waveguide design to achieve a flat coupling level, high directivity, and low insertion loss. The interfaces of the coupler are WR-28 waveguides with UG-599/U compatible flanges. Custom coupling levels are available under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	26.5 GHz		40 GHz
Insertion Loss		0.7 dB	
Coupling*		6 dB	
Directivity*		30 dB	
Return Loss		20 dB	
Power Handling			200 W
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

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





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FEATURES

- Full Band Operation
- Low Insertion Loss
- Light Weight

APPLICATIONS

- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS



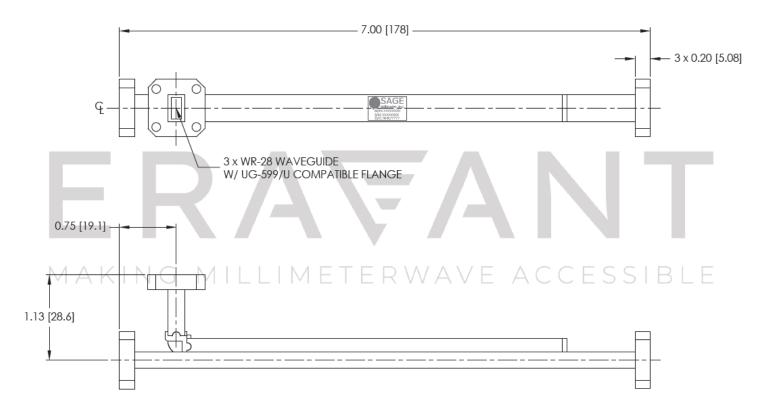
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Mechanical Specifications:

Item	Specification
Through Ports	WR-28 Waveguide with UG-599/U Compatible Flange
Coupled Port	WR-28 Waveguide with UG-599/U Compatible Flange
Coupling Plane	E-Plane
Waveguide Material	Copper
Flange Material	Brass
Finish	Black Painted Body; Gold Plated Waveguide Faces
Weight	1.6 Oz
Size	7.00" (L) x 1.13" (H)
Outline	WD-SWE-A-L1

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



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NOTE:

• Eravant reserves the right to change the information presented without notice.

CAUTION:

- Any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- For 1 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model <u>SCH-06004-S1</u> is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model <u>SCH-08008-S1</u> is highly recommended.

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