

Coaxial Directional Coupler, 2 to 50 GHz, 20 dB Coupling Level

Description:

SCD-0235032010-2F-SA is a 20 dB coaxial directional coupler that covers the frequency range of 2 to 50 GHz. The nominal insertion loss of the coupler is 2.8 dB and the coupling ripple is \pm 1.8 dB. The directivity of the coupler is 10 dB. The RF connectors of the coupler are 2.4 mm female connectors. The power handling of the coupler is 15 watts



maximum. Other configurations, such as different connectors for input and output, are available under different model numbers.

Features:

- Low Insertion Loss
- Flat Coupling Level

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	2 GHz		50 GHz
Insertion Loss		2.8 dB	
Coupling		20 dB	
Coupling Flatness		± 1.8 dB	
Directivity	_ /\	10 dB	
Port Return Loss		10 dB	
Impedance	_// // \	50 Ω	
Power Handling @ 2-12 GHz			30 W (CW)
Power Handling @ 12-30 GHz	manaa		20 W (CW)
Power Handling @ 30-50 GHz		erer ir	15 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+80 °C

Mechanical Specifications:

Item	Specification
RF Ports	2.4 mm Female
Case Material	Aluminum
Finishing	Black Painted
Weight	1.3 Oz
Outline	CD-2S-SR4

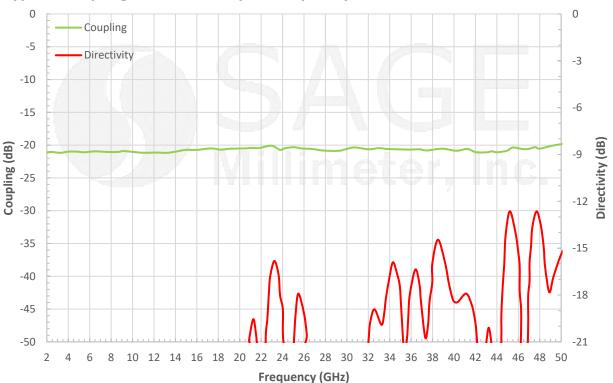


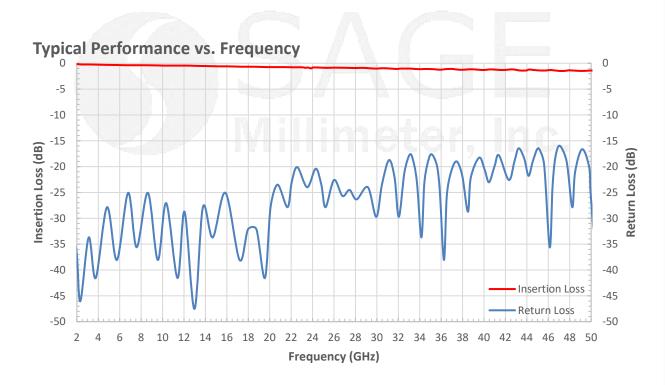
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SAGE Millimeter, Inc.

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Typical Coupling and Directivity vs Frequency





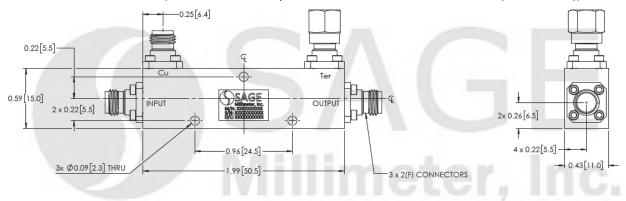


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Rev 1.2

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



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- All testing was performed under +25 °C case temperature.
- Eravant reserves the right to change the information presented without notice.

Caution:

Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm) shall be used. Eravant torque wrench with model number **SCH-08008-S1** is highly recommended.





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