SCD-0631833010-SF-SA

Description:

SCD-0631833010-SF-SA is a 30 dB coaxial directional coupler that covers the frequency range of 6 to 18 GHz. The nominal insertion loss of the coupler is 1.0 dB and the coupling ripple is \pm 1.0 dB. The directivity of the coupler is 10 dB. The RF connectors of the coupler are SMA female connectors. The power handling of the coupler is 30 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

Electrical Specifications:

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Parameter Minimum Typical Maximum Frequency 6 GHz 18 GHz Insertion Loss 1.0 dB Coupling 30 dB **Coupling Flatness** ± 1.0 dB Directivity 10 dB Port Return Loss 14 dB Impedance 50 Ω **Power Handling** 30 W (CW) **Specification Temperature** +25 °C -40 °C +80 °C **Operating Temperature**

Mechanical Specifications:

Mechanical Specifications:		Inc.
Item	Specification	
RF Ports	SMA Female	
Case Material	Aluminum	
Finishing	Black Painted	
Weight	0.9 Oz	
Outline	CD-SS-SR4	



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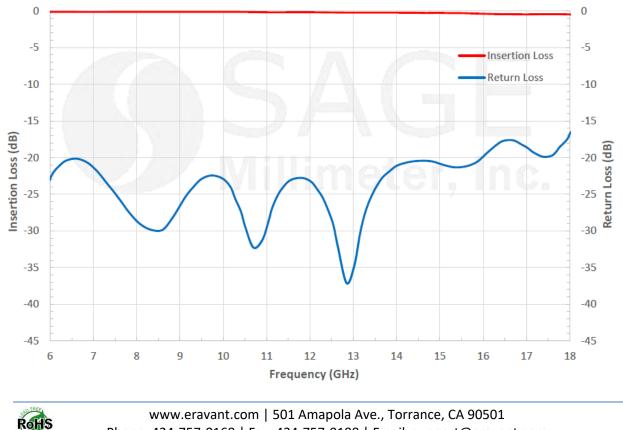
SCD-0631833010-SF-SA

Coaxial Directional Coupler, 6 to 18 GHz, 30 dB Coupling Level



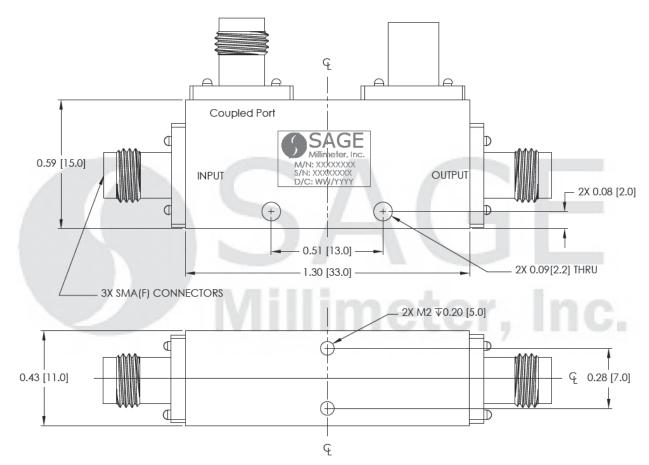
Typical Coupling and Directivity vs. Frequency

Typical Performance vs. Frequency



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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 <u>SCH-08008-S1</u> is highly recommended.



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