

# Coaxial Directional Coupler, 1 to 67 GHz, 20 dB Coupling Level

### **Description:**

SCD-0136732008-VF-SA is a 20 dB coaxial directional coupler that covers the frequency range of 1 to 67 GHz. The nominal insertion loss of the coupler is 2.5 dB and the coupling ripple is ± 3 dB. The directivity of the coupler is 8 dB. The RF connectors of the coupler are 1.85 mm female connectors. The power handling of the coupler is 10 watts maximum. Other



configurations, such as different connectors for input and output, coupling levels and mechanical configuration 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	1 GHz		67 GHz
Insertion Loss		2.5 dB	
Coupling		20 dB	
Coupling Flatness		± 3 dB	
Directivity		8 dB	
Port Return Loss	Millima /	10 dB	A A
Impedance		50 Ω	IIU.
Power Handling		,	10 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+80 °C

# **Mechanical Specifications:**

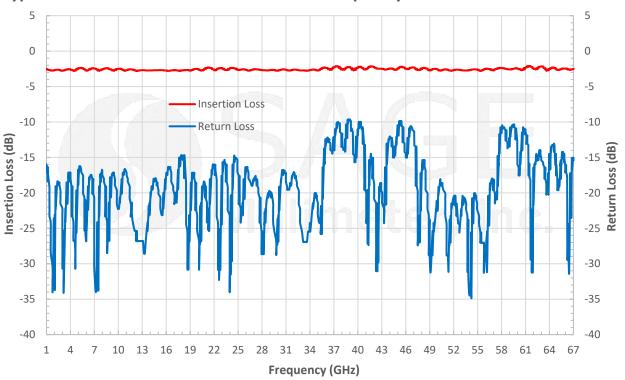
ltem	Specification	
RF Ports	1.85 mm Female	
Case Material	Aluminum	
Finishing	Black Painted	
Weight	2.0 Oz	
Outline	CD-VS-SR2	



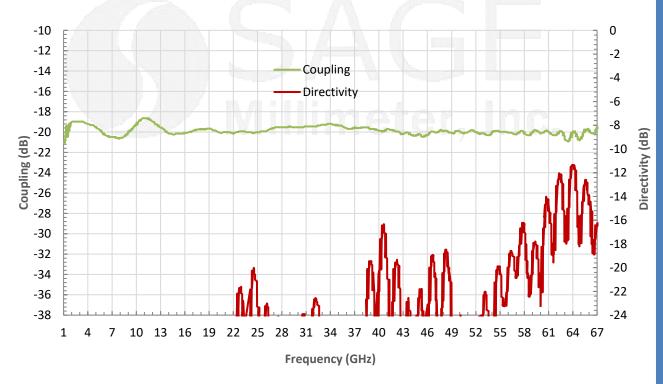
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# **Typical Insertion Loss and Return Loss vs. Frequency**



# Typical Coupling and Directivity vs. Frequency



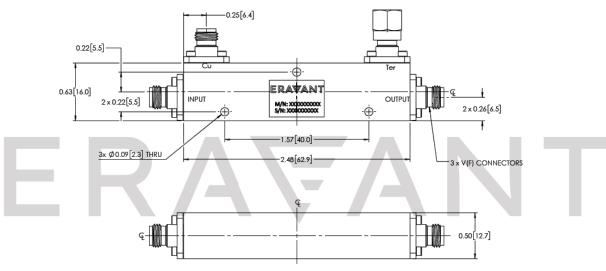


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



#### 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,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm) shall be used. **Eravant torque wrench** with model number <u>SCH-08008-S1</u> is highly recommended.





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