



## Coaxial Directional Coupler, 6 to 26.5 GHz, 10 dB Coupling Level

### Description:

**SCD-0632731012-SF-SA** is a 10 dB coaxial directional coupler that covers the frequency range of 6 to 26.5 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 12 dB typical. The RF connectors of the coupler are SMA female connectors. The power handling of the coupler is 30 watts maximum. Other configurations 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	6.0 GHz		26.5 GHz
Insertion Loss		1.0 dB	
Coupling		10 dB	
Coupling Flatness		$\pm 1.0$ dB	
Directivity		12 dB	
Port Return Loss		15 dB	
Impedance		50 $\Omega$	
Power Handling			30 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+80 °C

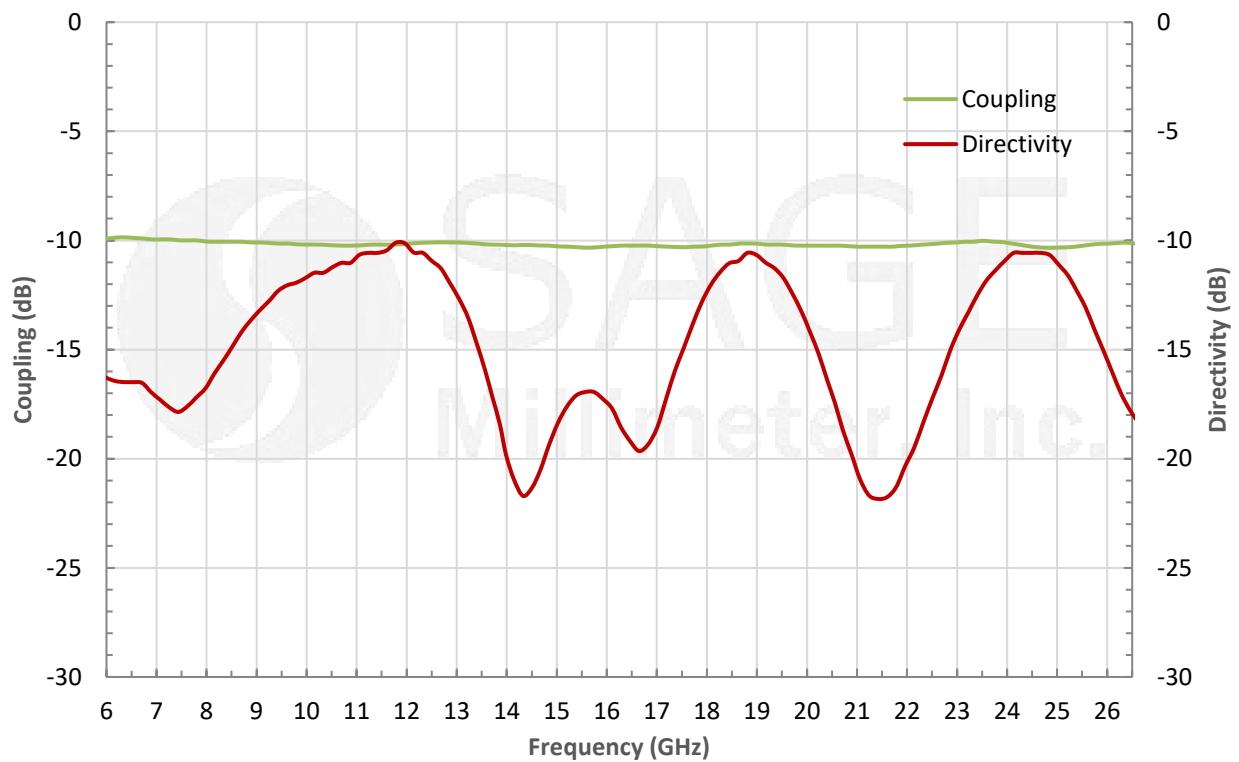
### Mechanical Specifications:

Item	Specification
RF Ports	SMA Female
Case Material	Aluminum
Finishing	Black Painted
Outline	CD-SS-SR12

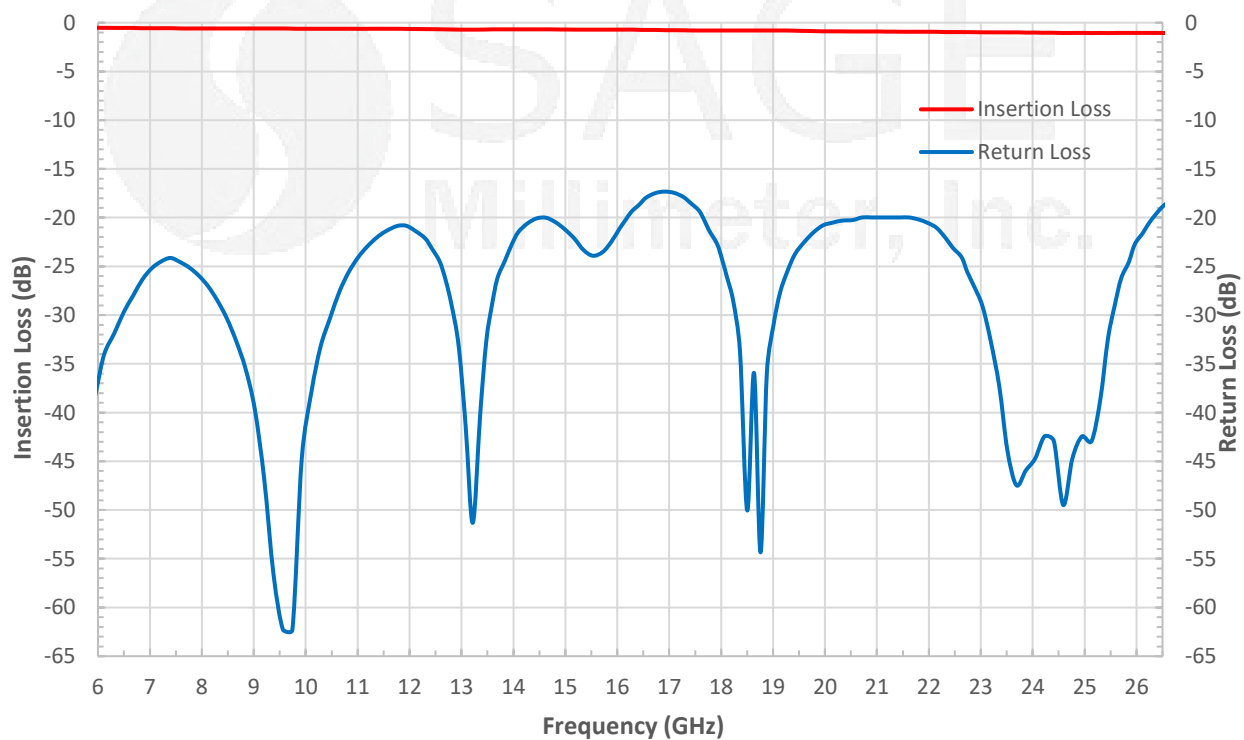


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### Typical Coupling and Directivity vs. Frequency



### Typical Performance vs. Frequency



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