

## SMA Coaxial Fixed Attenuator, 6 dB Attenuation

### Description:

**Model SCA-06-SMSF-S9-WP** is a 6 dB coaxial attenuator that is used in millimeterwave systems and operates from DC to 26.5 GHz. The attenuator has a typical attenuation value of 6 dB across the frequency range. While the attenuator is designed and fabricated for full SMA coaxial band applications, the attenuation value of this model will have a wide range due to its broadband coverage. Various attenuation values are available under different model numbers.



### Features:

- Broadband Coverage
- Low Cost

### Applications:

- Test Lab
- Instrumentations
- System Integration

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	DC		26.5 GHz
Attenuation		6 dB	
Attenuation Accuracy		±0.5 dB	
Return Loss		20 dB	
Power Handling			2 W (CW)
Impedance		50 $\Omega$	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

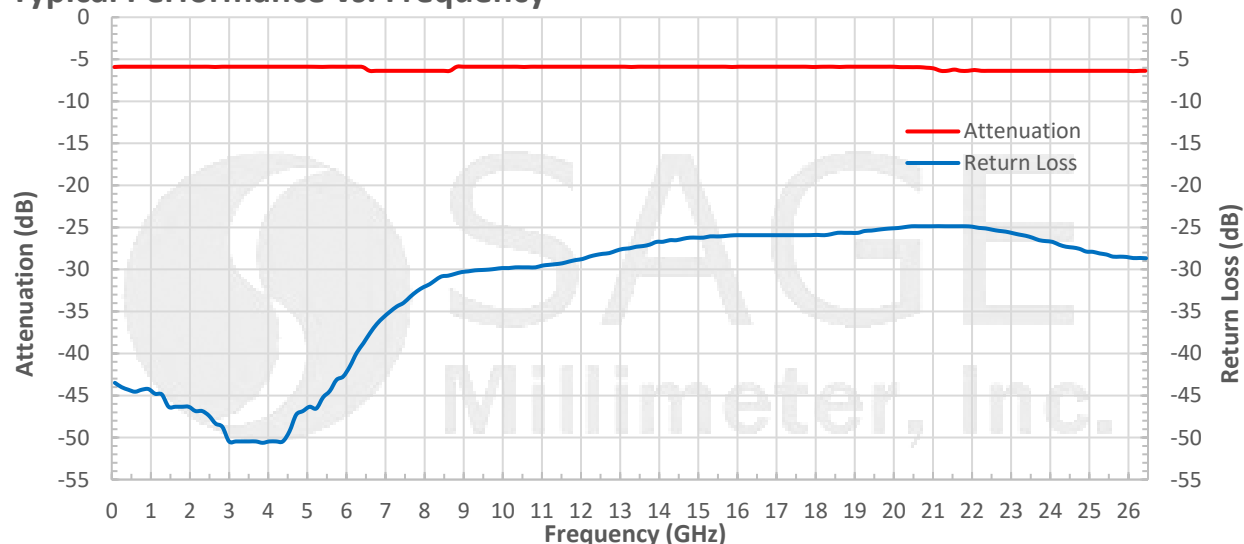
### Mechanical Specifications:

Item	Specification
Connector 1	SMA Male
Connector 2	SMA Female
Body Material	Stainless Steel
Body Finish	Passivated
Connector Pin Material	Beryllium Copper
Connector Pin Finish	Gold Plated
Insulator Material	PTFE
Weight	0.3 Oz
Length	0.64"
Outline	CA-S-SR1

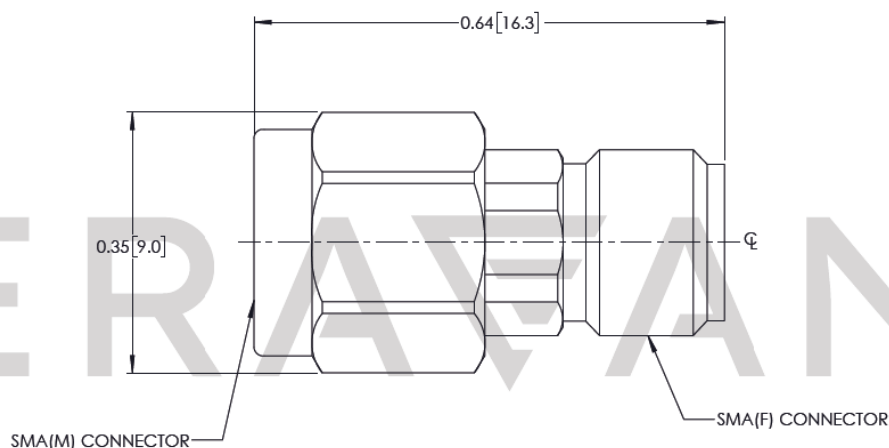


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## Typical Performance vs. Frequency



**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.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

**Caution:**

- Exceeding absolute maximum ratings shown will damage the device.
- Proper torque,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-U3, is highly recommended.**

