# SCA-06-SMSF-S9

Rev. 1.3

## SMA Coaxial Fixed Attenuator, 6 dB Attenuation

### Description:

**Model SCA-06-SMSF-S9** 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 Ω | |
| 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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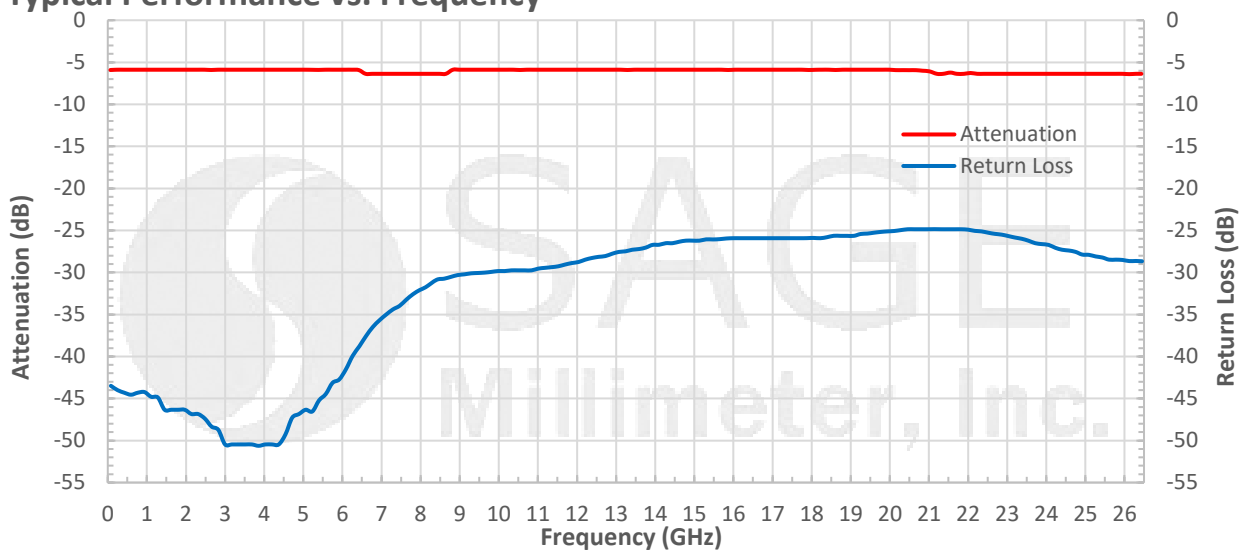
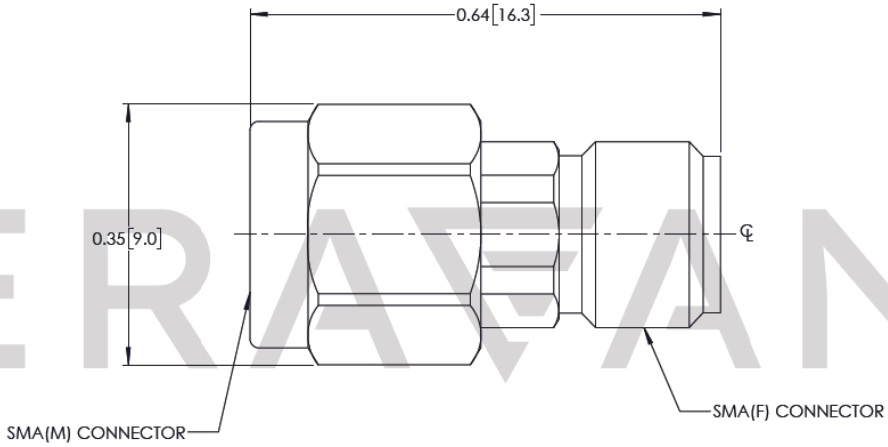
### Typical Performance vs. Frequency




**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 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-U3, is highly recommended.**

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