# SCA-30-3M3F-S2

Rev. 1.0

## 3.5 mm Coaxial Fixed Attenuator, 30 dB Attenuation

### Description:



**Model SCA-30-3M3F-S2** is a 30 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 30 dB across the frequency range. While the attenuator is designed and fabricated for full 3.5 mm 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 | | 30 dB | |
| Attenuation Accuracy | | ±1.4 dB | |
| Return Loss | | 15 dB | |
| Power Handling | | | 1 W (CW) |
| Impedance | | 50 Ω | |
| Specification Temperature | | +25 ˚C | |
| Operating Temperature | -40 ˚C | | +85 ˚C |

### Mechanical Specifications:

| Item | Specification |
|---|---|
| Connector 1 | 3.5 mm Male |
| Connector 2 | 3.5 mm Female |
| Body Material | Stainless Steel |
| Body Finish | Passivated |
| Connector Pin Material | Beryllium Copper |
| Connector Pin Finish | Gold Plated over Nickel |
| Weight | 0.3 Oz |
| Length | 1.25” |
| Outline | CA-3-CE2 |

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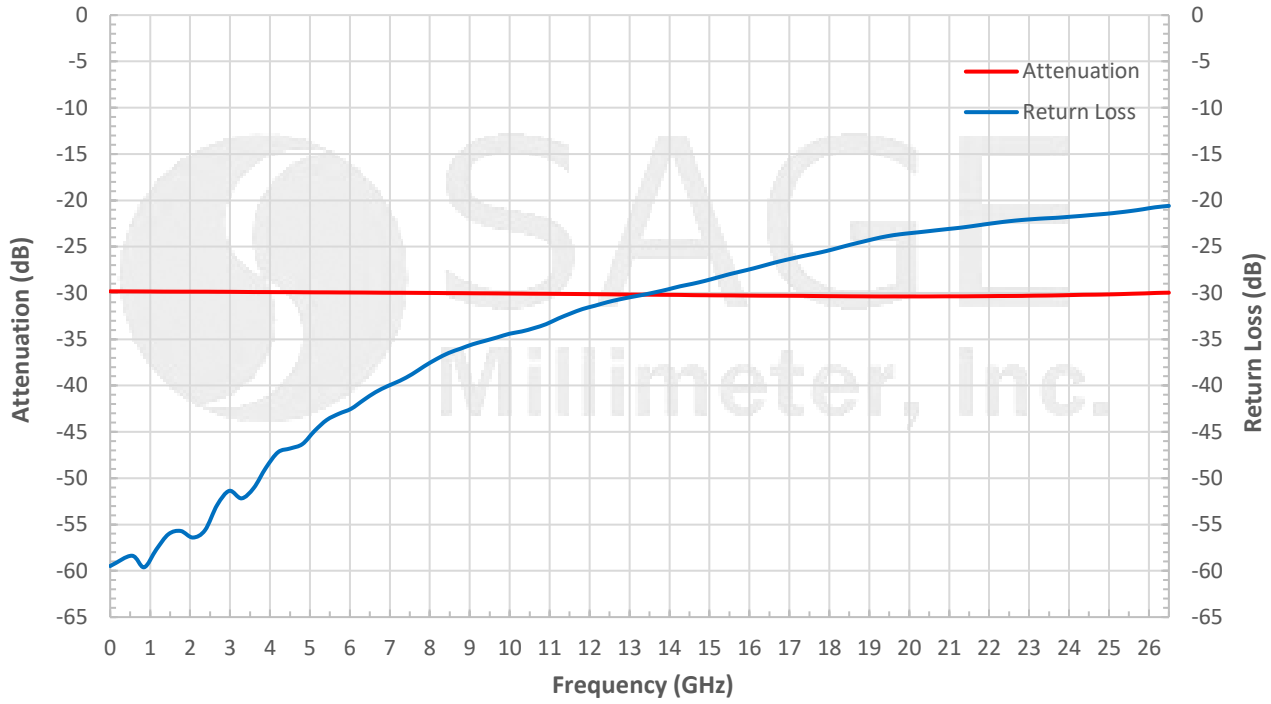
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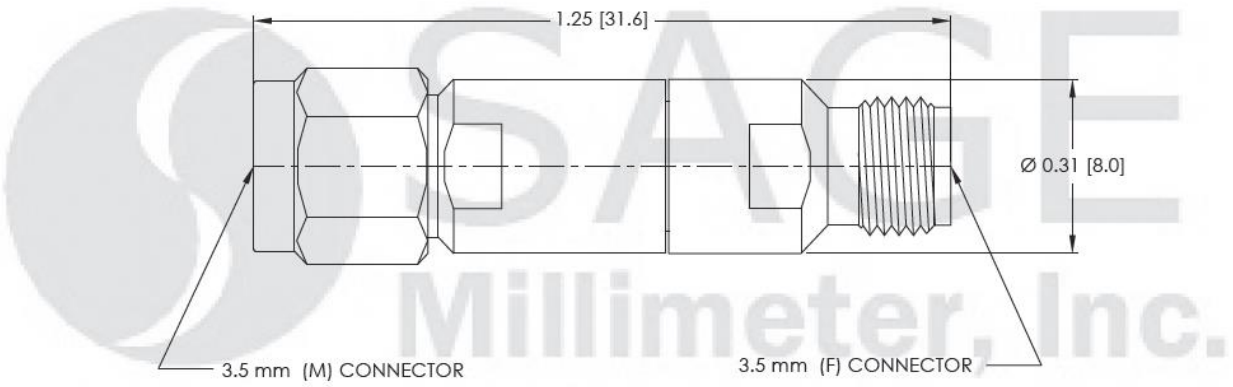
SAGE Millimeter, Inc.

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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-S1, is highly recommended.**

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