



## 2.4 mm Coaxial Fixed Attenuator, 2 dB Attenuation

### Description:

**Model SCA-02-2M2F-S2** is a 2 dB coaxial attenuator that is used in millimeterwave systems and operates from DC to 50 GHz. The attenuator has a typical attenuation value of 2 dB across the frequency range. While the attenuator is designed and fabricated for full 2.4 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		50 GHz
Attenuation		2 dB	
Attenuation Accuracy		±1.2 dB	
Return Loss @ DC to 25 GHz		19 dB	
Return Loss @ 25 to 50 GHz		19 dB	
Power Handling			1 W (CW)
Impedance		50 Ω	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

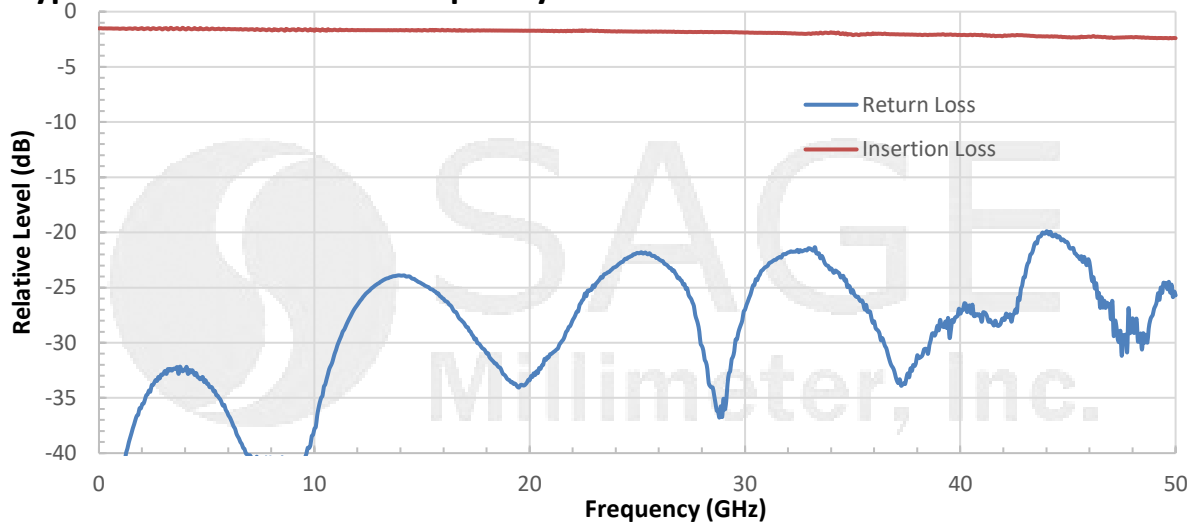
### Mechanical Specifications:

Item	Specification
Connector 1	2.4 mm Male
Connector 2	2.4 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	1.05"
Outline	CA-2-CE1

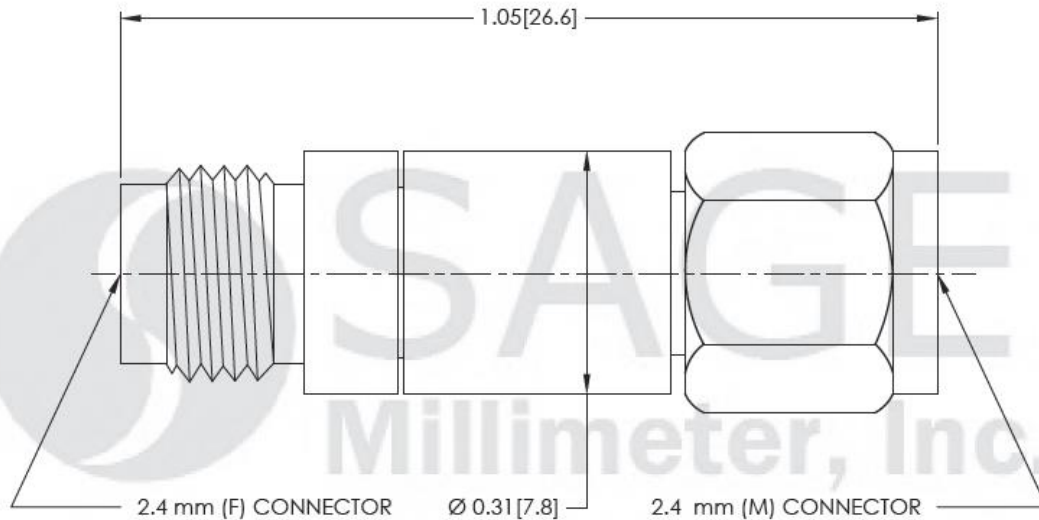


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### Typical Performance vs. Frequency



**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 (0.92 ± 0.05 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

