



## 1.85 mm Coaxial Fixed Attenuator, 3 dB Attenuation

### Description:

**Model SCA-03-VMVF-S2** is a 3 dB coaxial attenuator that is used in millimeterwave systems and operates from DC to 67 GHz. The attenuator has a typical attenuation value of 3 dB across the frequency range. While the attenuator is designed and fabricated for full 1.85 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		67 GHz
Attenuation		3 dB	
Attenuation Accuracy		±2.0 dB	
Return Loss		16 dB	
Power Handling			1 W (CW)
Impedance		50 Ω	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

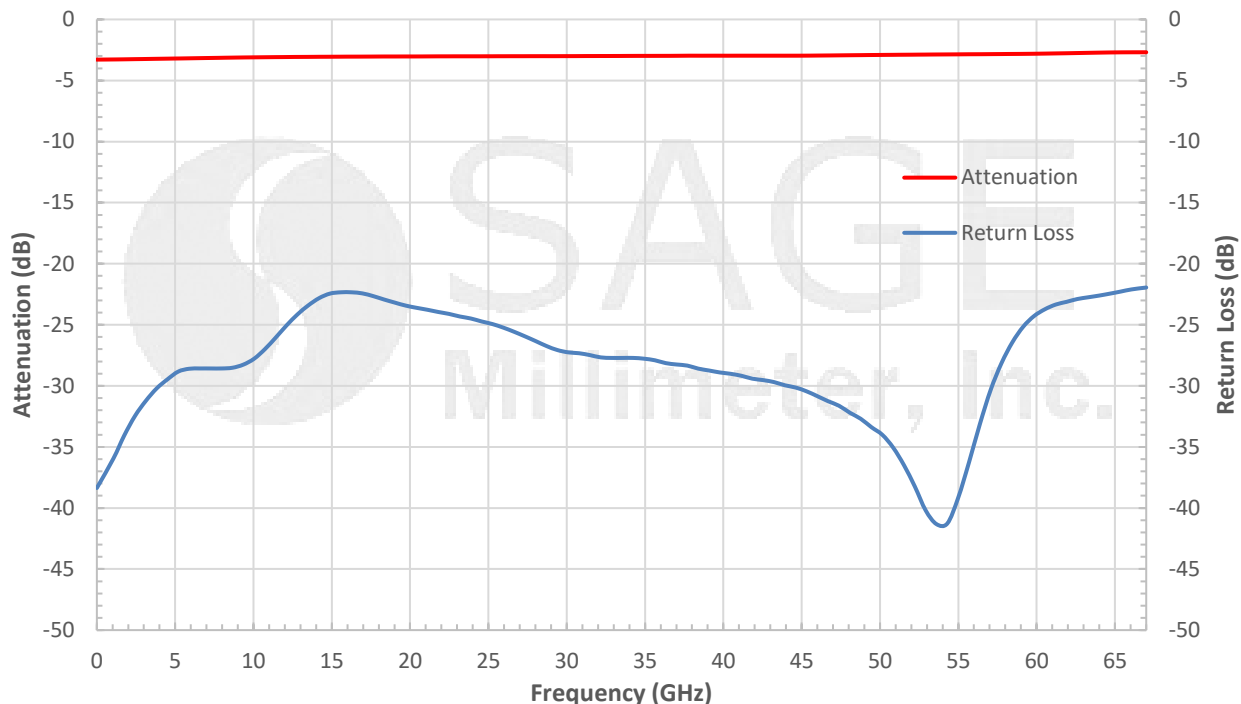
### Mechanical Specifications:

Item	Specification
Connector 1	1.85 mm Male
Connector 2	1.85 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	0.95"
Outline	CA-V-CE3

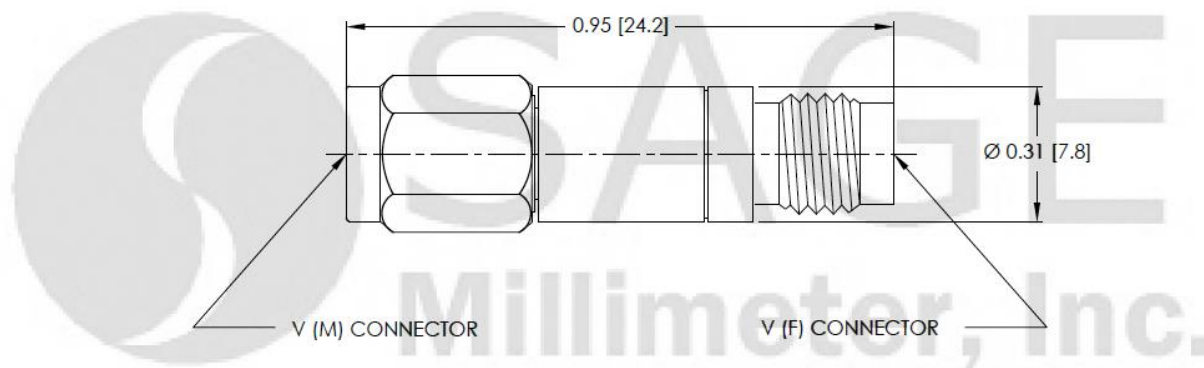


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### Typical Performance vs. Frequency



**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 ( $0.92 \pm 0.05$  Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-U3, is highly recommended.**



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