



## 1.85 mm Coaxial Fixed Attenuator, 6 dB Attenuation

### Description:

**Model SCA-06-VMVF-S2** is a 6 dB coaxial attenuator that is used in millimeterwave systems and operates from DC to 67 GHz. The attenuator has a typical attenuation value of 6 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               |         | 6 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   |

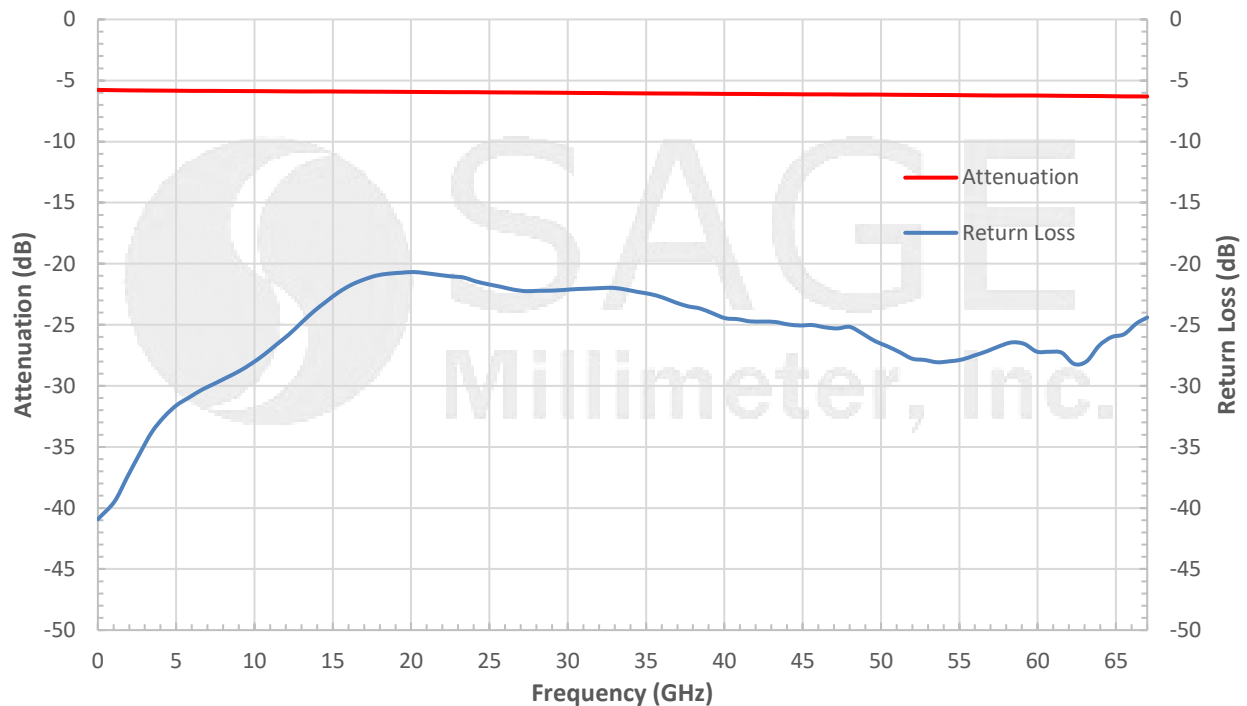
### Mechanical Specifications:

| 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                |

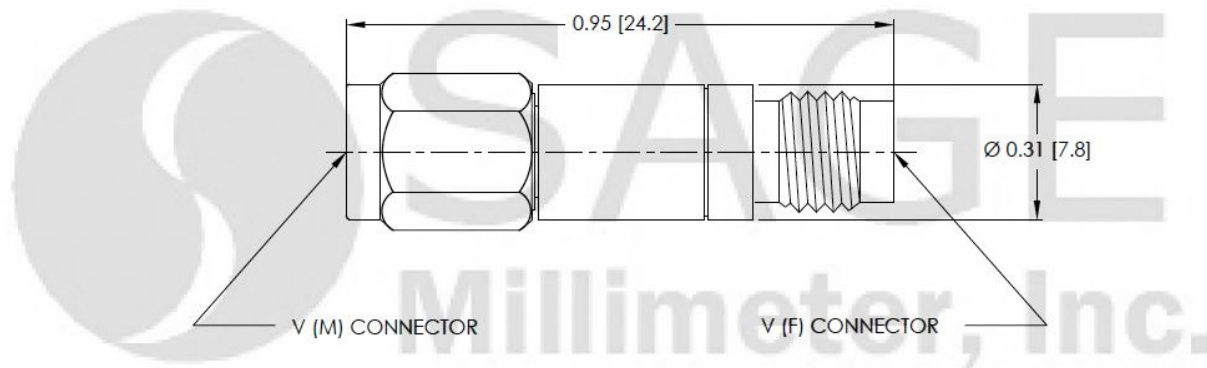


## 1.85 mm Coaxial Fixed Attenuator, 6 dB Attenuation

### 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-U3, is highly recommended.**



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505  
 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com