

1 mm Coaxial Attenuator, 9 dB Attenuation

Description:

Model SCA-09-1M1F-S1 is a 9 dB coaxial attenuator that is used in millimeterwave systems and operates from DC to 110 GHz. While the attenuator is designed and fabricated for full 1 mm coaxial band applications, the attenuation value of this model will have a wide range due its broadband coverage. Various attenuation values are available under different model numbers.



Features:

- Broad Band Coverage
- Low Cost

Applications:

- Test Lab
- Instrumentations
- System Integration

Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---------------------------|---------|---------|---------|
| Frequency | DC | | 110 GHz |
| Attenuation | | 9.0 dB | |
| Flatness | | ±1.5 dB | |
| Return Loss | | 10 dB | |
| Power Handling | | | 27 dBm |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

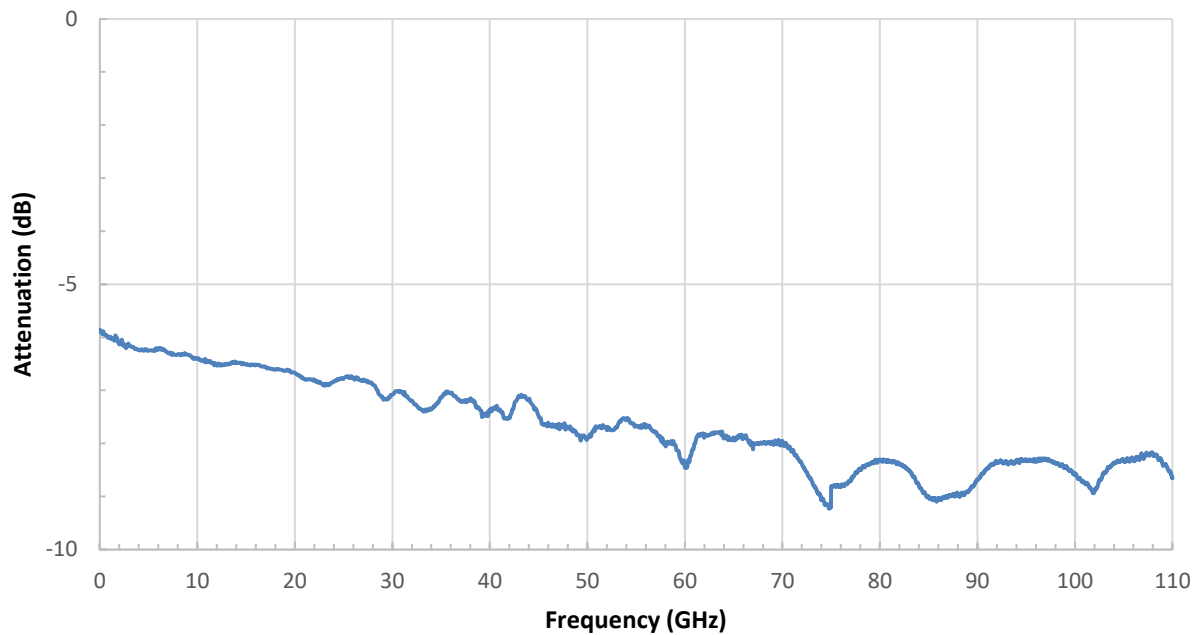
Mechanical Specifications:

| Item | Specification |
|------------------|-----------------------------------|
| Connector 1 Type | 1 mm Male |
| Connector 2 Type | 1 mm Female |
| Housing Material | Aluminum |
| Housing Finish | Gold Plated |
| Weight | 0.25 Oz |
| Dimensions | 0.40" (W) X 1.14" (L) X 0.40" (H) |
| Outline | CA-1 |

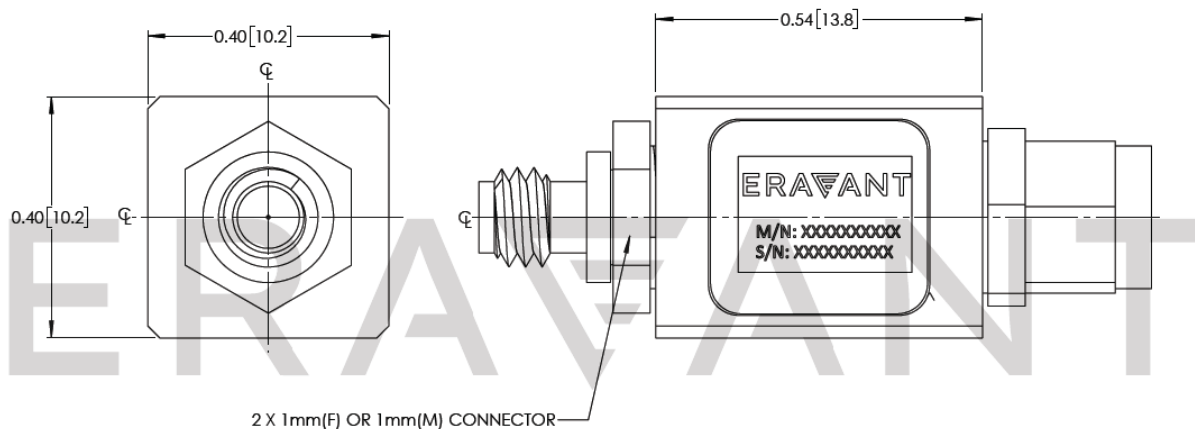


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Attenuation vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



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Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- 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, 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm), should be used. **SAGE Millimeter torque wrench, model SCH-06004-S1, is highly recommended.**

