

1 mm Coaxial Attenuator, 3 dB Attenuation

Description:

Model SCA-03-1M1F-S1 is a 3 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		3.0 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:

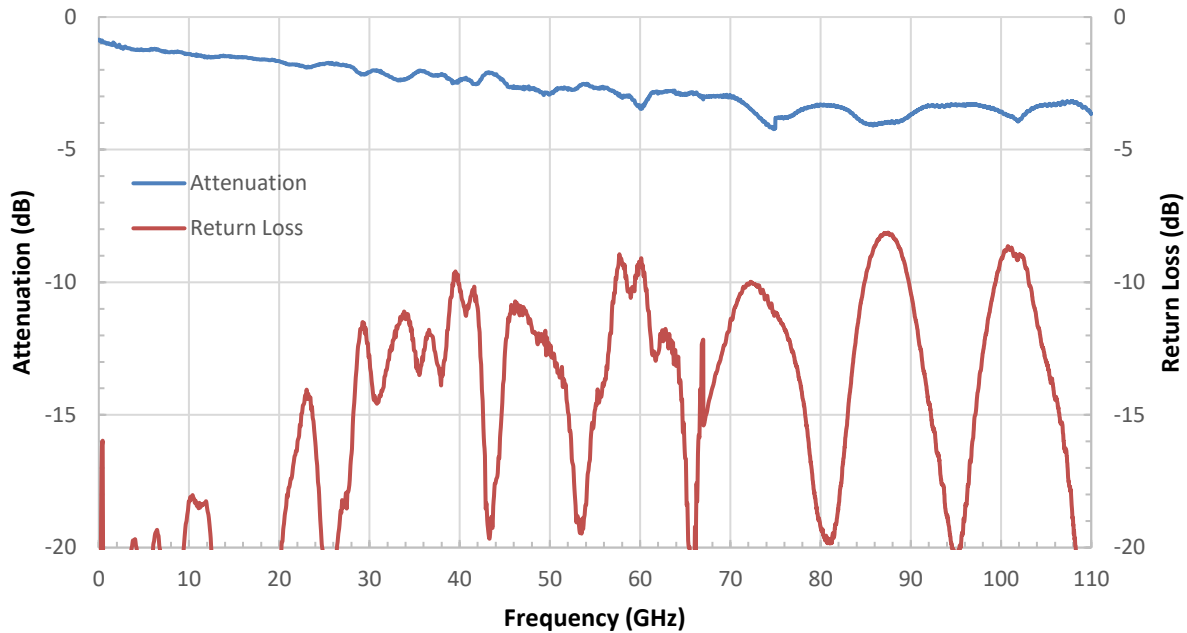
Item	Specification
Connector 1 Type	1 mm Male
Connector 2 Type	1 mm Female
Housing Material	Aluminum
Housing Finish	Gold Plated
Weight	0.25 Oz
Dimensions	0.40" (W) X 1.14" (L) X 0.40" (H)
Outline	CA-1



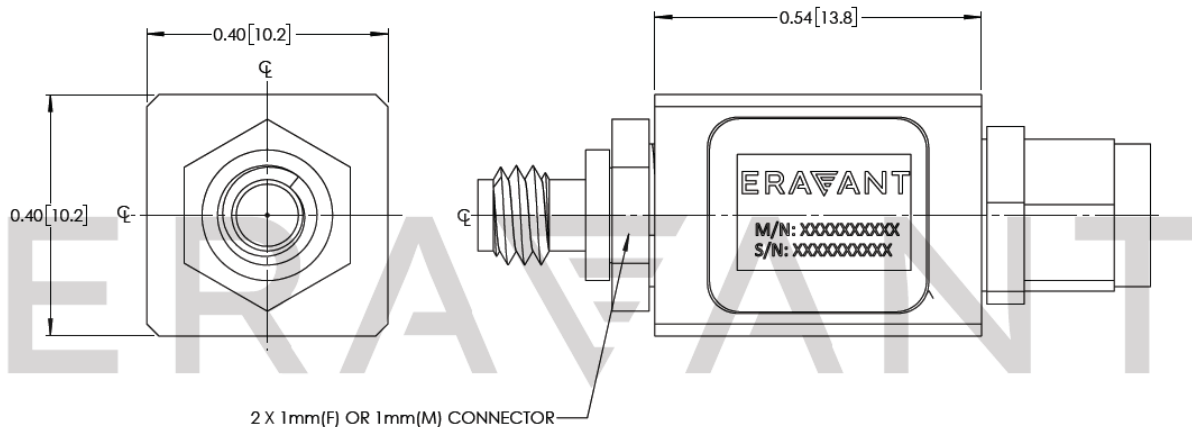


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Attenuation and Return Loss vs. Frequency



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.**

