

SCA-12-1M1F-SB

1 mm Coaxial Fixed Attenuator, 12 dB Attenuation

SCA-12-1M1F-SB is a 12 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 to its broadband coverage. Various attenuation values are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		110 GHz
Attenuation		12 dB	
Attenuation Accuracy		±2.0 dB	
Return Loss	12 dB	14 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 Type	1mm Male
Connector 2 Type	1mm Female
Body Material	Stainless Steel / Beryllium Copper
Body Finish	Passivated / Gold Plated
Connector Pin Material	Beryllium Copper
Connector Pin Finish	Gold Plated
Insulator Material	PEI
Weight	0.1 Oz
Length	0.61"
Outline	CA-1-LN1

ECCN

EAR99

FEATURES

- Broadband Coverage
- Low Cost

APPLICATIONS

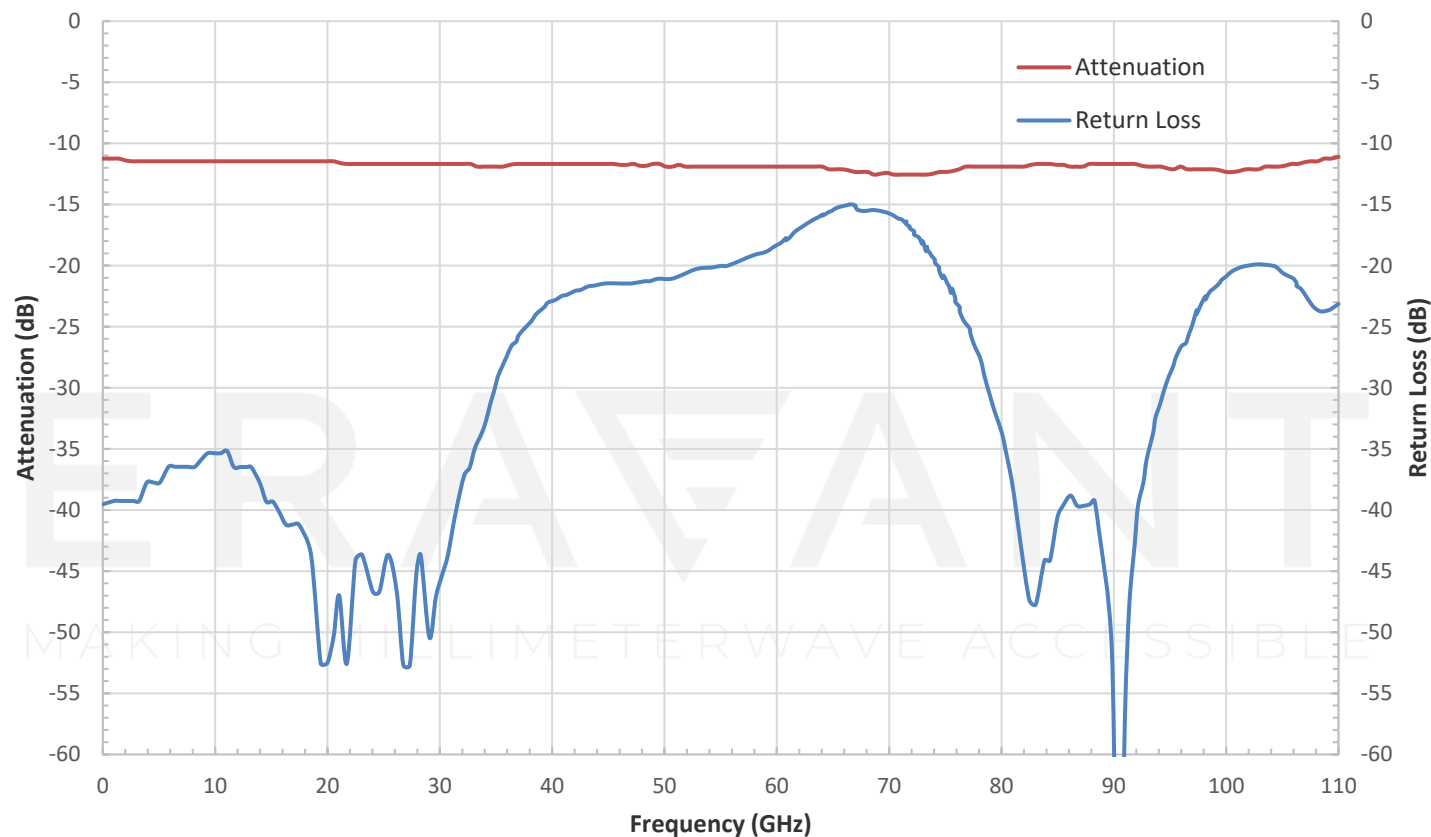
- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS

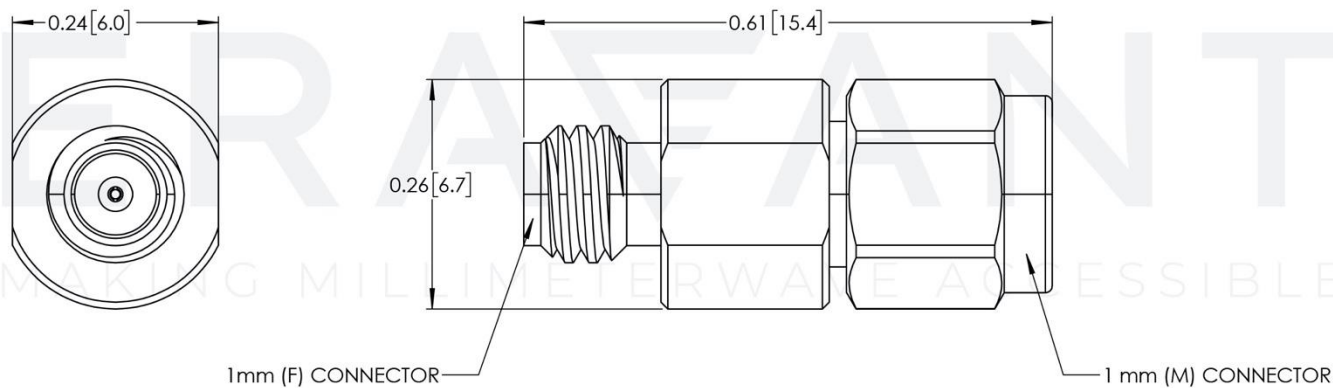


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Typical Performance vs. Frequency



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 slightly from unit to unit.
- All testing is performed under +25 °C case temperature.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- Proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model SCH-06004-S1 is highly recommended.

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