

SCA-01-2M2F-SD

2.4 mm Coaxial Fixed Attenuator, 1 dB Attenuation

SCA-01-2M2F-SD is a 1 dB coaxial attenuator that is used in millimeterwave systems and operates from DC to 50 GHz. The attenuator has a typical attenuation value of 1 dB across the frequency range. While the attenuator is designed and fabricated for full 2.4 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 | | 50 GHz |
| Attenuation | | 1 dB | |
| Attenuation Accuracy | | ±0.8 dB | |
| Return Loss | | 19 dB | |
| Power Handling | | | 2 W (CW) |
| Impedance | | 50 Ω | |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

Mechanical Specifications:

| Item | Specification |
|------------------------|------------------|
| Connector 1 Type | 2.4 mm Male |
| Connector 2 Type | 2.4 mm Female |
| Body Material | Stainless Steel |
| Body Finish | Passivated |
| Connector Pin Material | Beryllium Copper |
| Connector Pin Finish | Gold Plated |
| Insulator Material | PEI |
| Weight | 0.3 Oz |
| Length | 0.78" |
| Outline | CA-2-9 |

ECCN

EAR99

FEATURES

- Broadband Coverage
- Low Cost

APPLICATIONS

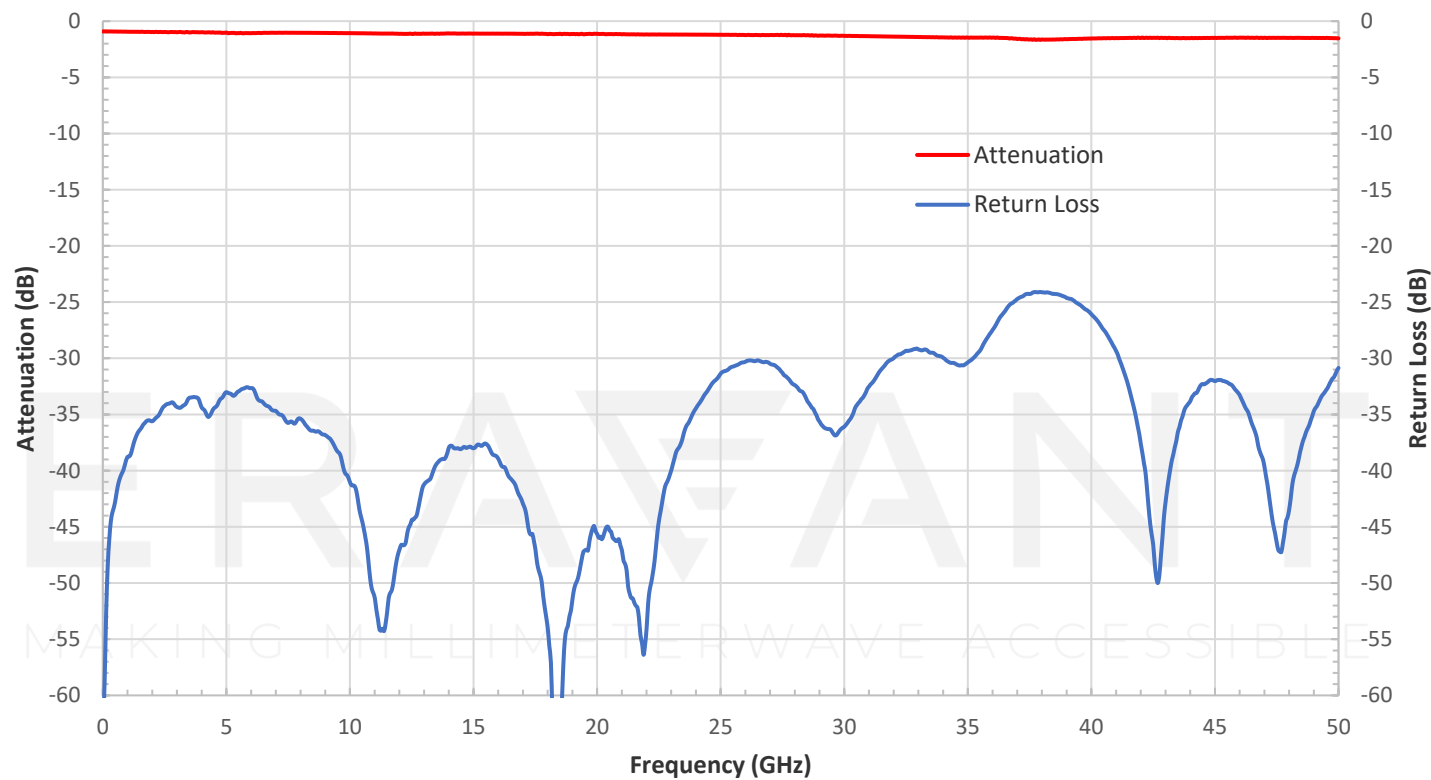
- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS

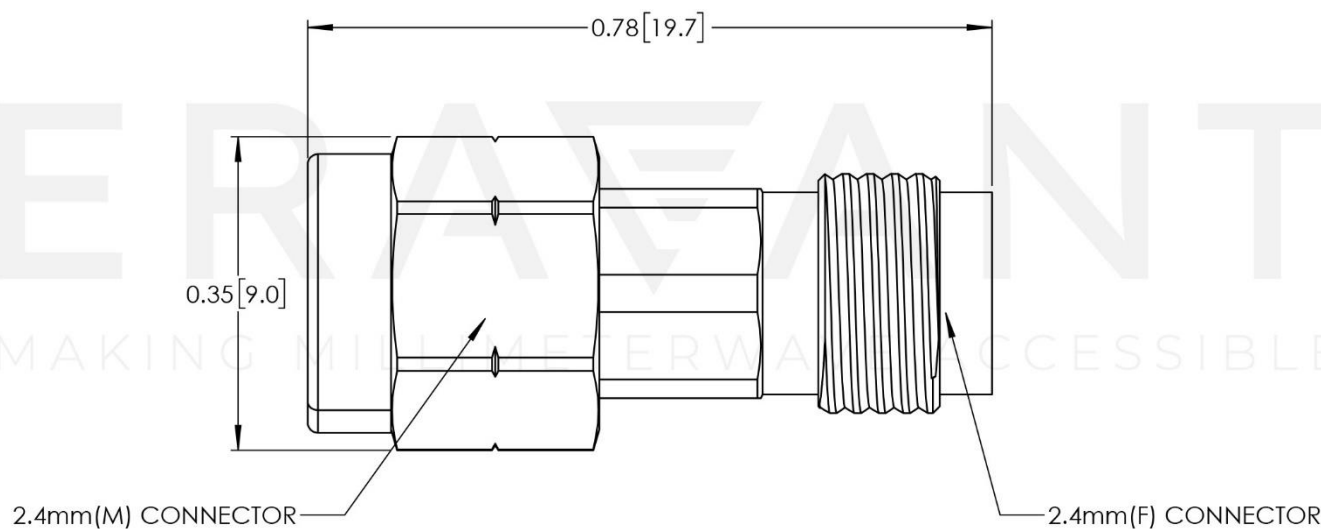


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Typical Performance vs. Frequency



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: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended.

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