

## SCA-10-KMKF-SD-40

## 2.92 mm Coaxial Fixed Attenuator, 10 dB Attenuation, 10 W

**SCA-10-KMKF-SD-40** is a 10 dB coaxial attenuator that is used in millimeterwave systems and operates from DC to 40 GHz. The attenuator has a typical attenuation value of 10 dB across the frequency range. While the attenuator is designed and fabricated for full 2.92 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      |         | 40 GHz    |
| Attenuation               |         | 10 dB   |           |
| Attenuation Accuracy      |         | ±1.2 dB |           |
| Return Loss               |         | 18 dB   |           |
| Power Handling (Average)* |         |         | 10 W (CW) |
| Power Handling (Peak)*    |         |         | 100 W     |
| Impedance                 |         | 50 Ω    |           |
| Specification Temperature |         | +25 °C  |           |
| Operating Temperature     | -40 °C  |         | +85 °C    |

\*10 W average to 25 °C ambient temperature, derated linearly to 1 W @ 125 °C

\*100 W @ 5μs pulse width with 10% duty cycle

## Mechanical Specifications:

| Item                    | Specification          |
|-------------------------|------------------------|
| Connector 1 Type        | 2.92 mm (K) Male       |
| Connector 2 Type        | 2.92 mm (K) Female     |
| Connector Body Material | Stainless Steel        |
| Connector Body Finish   | Passivated             |
| Connector Pin Material  | Beryllium Copper       |
| Connector Pin Finish    | Gold Plated            |
| Insulator Material      | PEI                    |
| Heatsink Material       | Aluminum               |
| Heatsink Finish         | Black Anodized         |
| Weight                  | 1.8 Oz                 |
| Dimensions              | 1.50" (OD) x 1.87" (L) |
| Outline                 | CA-K-9-2               |

## ECCN

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## FEATURES

- Broadband Coverage
- Low Cost

## APPLICATIONS

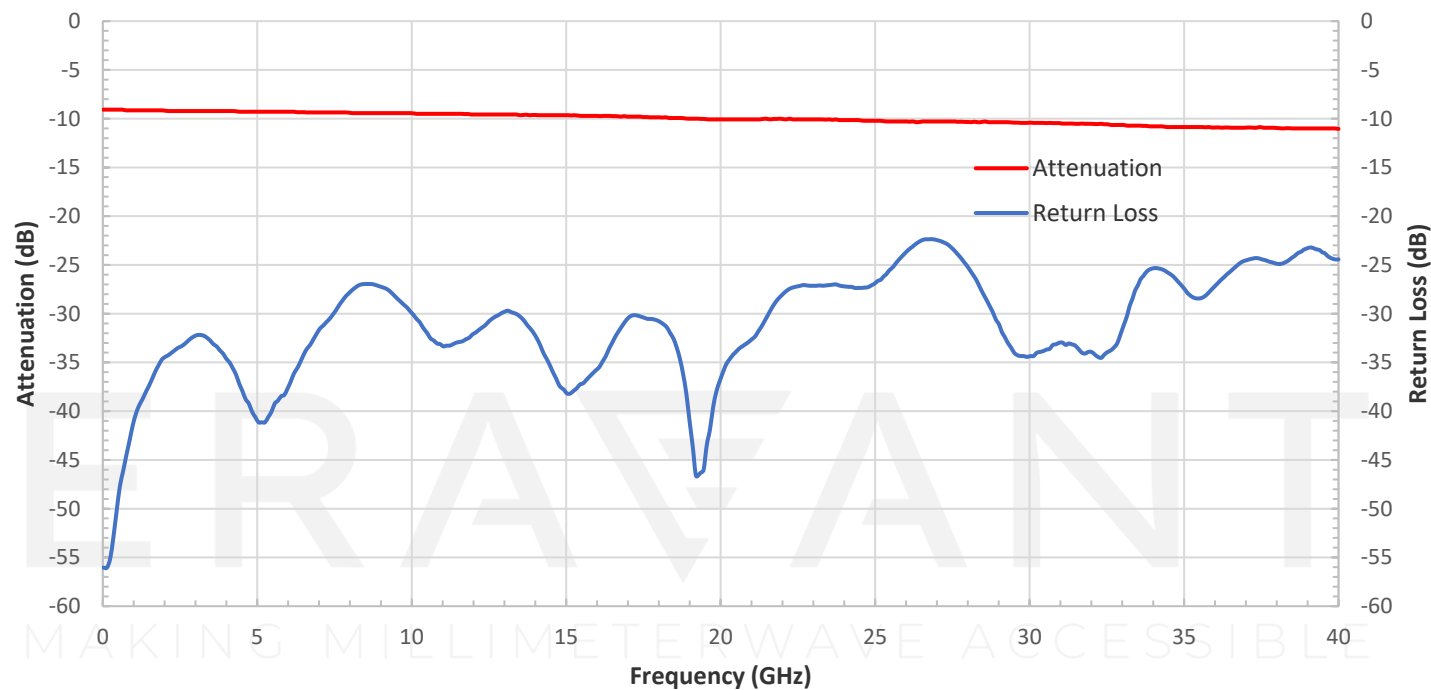
- Test Lab
- Instrumentations
- System Integration

## SUPPLEMENTAL DETAILS

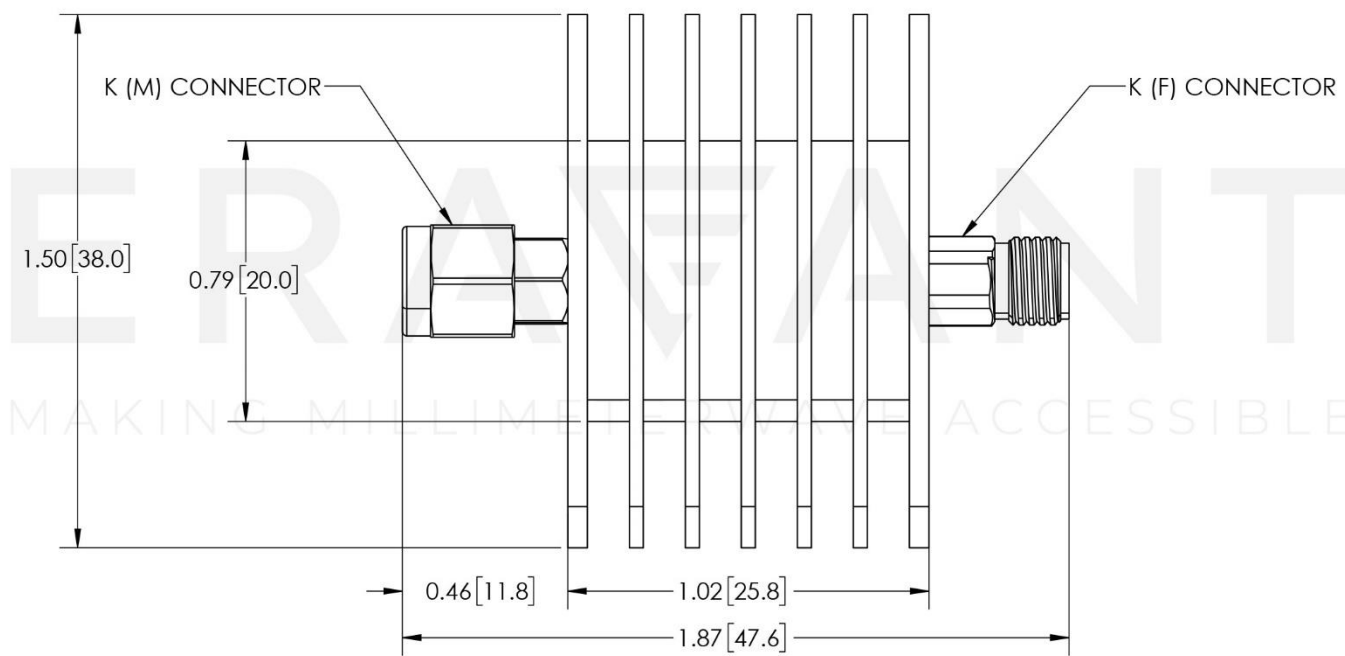


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Typical Performance vs. Frequency



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

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