

## SCA-10-2M2F-SD-40

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

**SCA-10-2M2F-SD-40** is a 10 dB coaxial attenuator that is used in millimeterwave systems and operates from DC to 50 GHz. The attenuator has a typical attenuation value of 10 dB across the frequency range. While the attenuator is designed and fabricated for full 2.4 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		10 dB	
Attenuation Accuracy		±1.5 dB	
Return Loss		15 dB	
Power Handling (Average)*			10 W (CW)
Power Handling (Peak)*			20 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

\*20 W @ 5μs pulse width with 1% duty cycle

#### Mechanical Specifications:

Item	Specification
Connector 1 Type	2.4 mm Male
Connector 2 Type	2.4 mm 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	2.2 Oz
Dimensions	1.57" (OD) x 2.78" (L)
Outline	CA-2-9-2

#### ECCN

EAR99

#### FEATURES

- Broadband Coverage
- Low Cost

#### APPLICATIONS

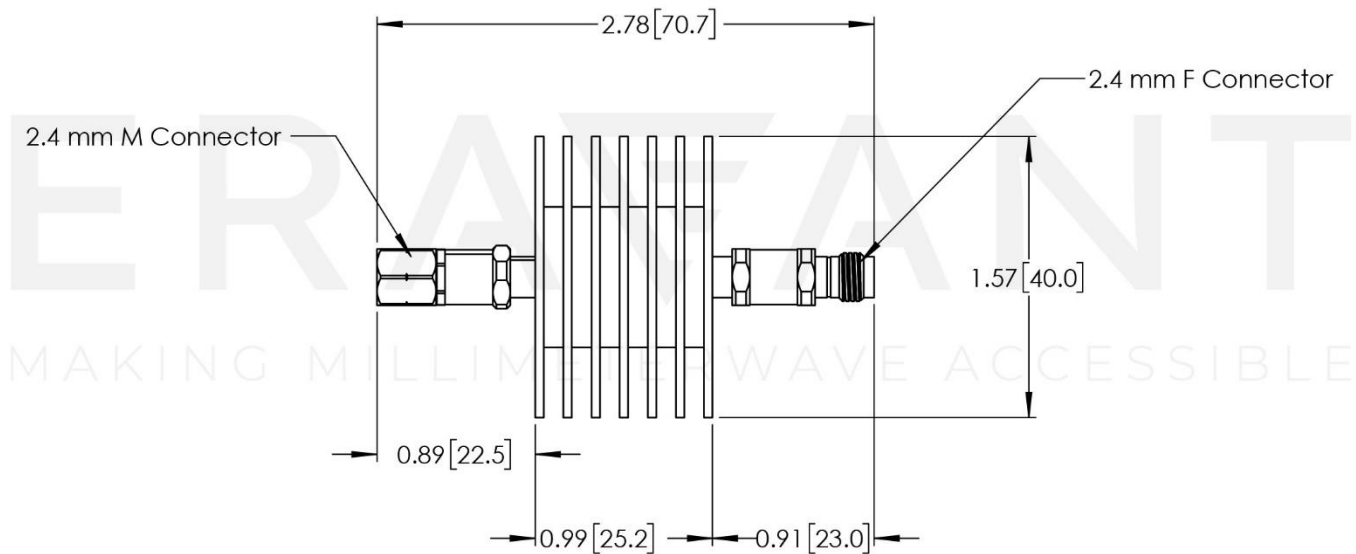
- Test Lab
- Instrumentations
- System Integration

#### SUPPLEMENTAL DETAILS



## SCA-10-2M2F-SD-40

**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.