

SCA-10-1M1F-UB

1 mm Coaxial Attenuator, 10 dB Attenuation

SCA-10-1M1F-UB is a 10 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.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		110 GHz
Attenuation		10 dB	
Flatness			± 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	1 mm Male
Connector 2 Type	1 mm Female
Body Material	Stainless Steel
Connector Pin Material	Beryllium Copper
Insulator Material	PEI
Outline	CA-1-LN1

ECCN

EAR99

FEATURES

- Full Band Coverage
- Compact Size
- High Resolution Micrometer
- Low Insertion Loss

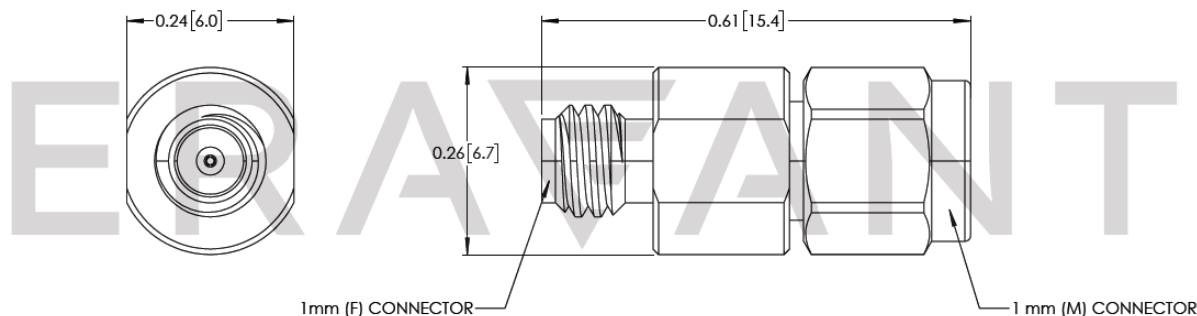
APPLICATIONS

- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum rating shows will damage the device.
- For 1 mm connectors 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.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors 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