

SCA-20-SMSF-SD-40

SMA Coaxial Fixed Attenuator, 20 dB Attenuation, 10 Watts

SCA-20-SMSF-SD-40 is a 20 dB coaxial attenuator that is used in millimeterwave systems and operates from DC to 26.5 GHz. The attenuator has a typical attenuation value of 20 dB across the frequency range. While the attenuator is designed and fabricated for full SMA 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		26.5 GHz
Attenuation		20 dB	
Attenuation Accuracy		±1.2 dB	
Return Loss		17.7 dB	
Power Handling (Average)*			10 W (CW)
Power Handling (Peak)*			100 W
Impedance		50 Ω	
Specification Temperature		+25 °C	
Operating Temperature	-55 °C		+125 °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	SMA Male
Connector 2 Type	SMA Female
Connector Body Material	Stainless Steel
Connector Pin Material	Brass/Beryllium Copper, Gold Plated
Insulator Material	PTFE
Heat Sink Material	Aluminum, Black Anodized
Weight	1.8 Oz
Dimensions	1.50" (OD) x 1.83" (L)
Outline	CA-S-9-3

ECCN

EAR99

FEATURES

- Broadband Coverage
- Low Cost

APPLICATIONS

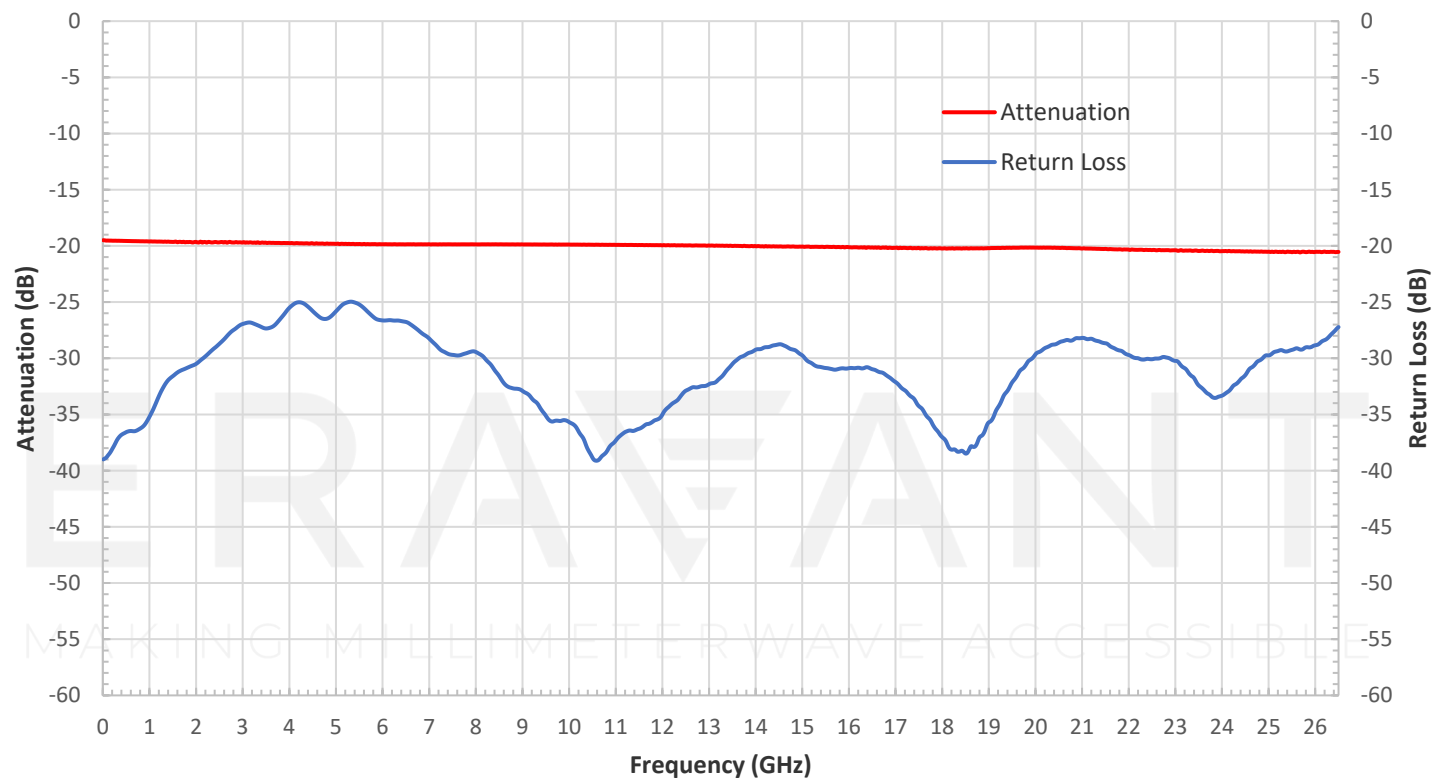
- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS

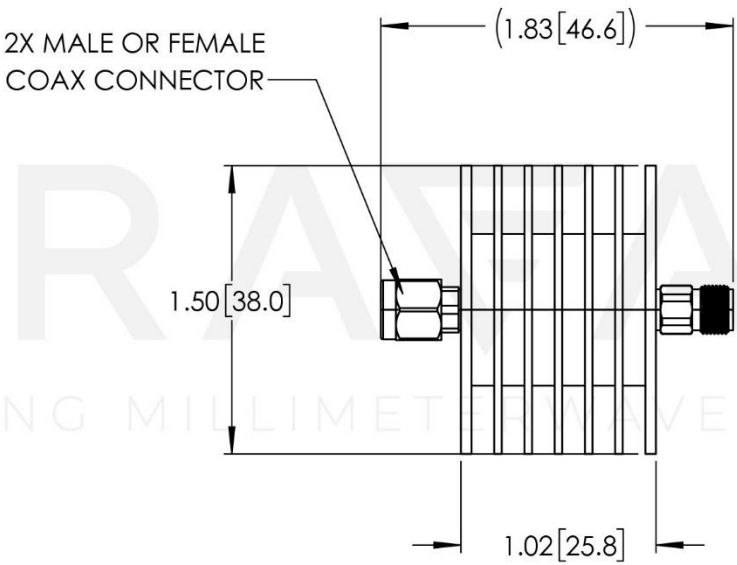


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Typical Performance vs. Frequency



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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