

SCA-06-NFNF-SD-53

N Coaxial Fixed Attenuator, 6 dB Attenuation, 200 Watts

SCA-06-NFNF-SD-53 is a 6 dB coaxial attenuator with N female connectors that is used in communication systems and operates from DC to 3 GHz. The attenuator has a typical attenuation value of 6 dB across the frequency range. It is designed and manufactured to offer a good match for system applications. The characteristic impedance of the attenuator is 50 Ohms and the power handling is 200 Watts. Various attenuation values are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		3 GHz
Attenuation		6 dB	
Attenuation Accuracy		±1 dB	
Return Loss		17.7 dB	
Power Handling (Average)*			200 W (CW)
Power Handling (Peak)*			1 kW
Impedance		50 Ω	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+125 °C

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

*1 kW @ 5µs pulse width with 2% duty cycle

Mechanical Specifications:

Item	Specification
Connector 1 Type	N Female
Connector 2 Type	N Female
Connector Body Material	Brass, Tri Alloy
Connector Pin Material	Phosphorus Copper, Silver Plated
Heat Sink Material	Aluminum, Black Anodized
Weight	4 lbs.
Dimensions	7.95" (L) x 2.97" (W) x 3.35" (H)
Outline	CA-N-9

ECCN

EAR99

FEATURES

- High Return Loss
- High Power Handling

APPLICATIONS

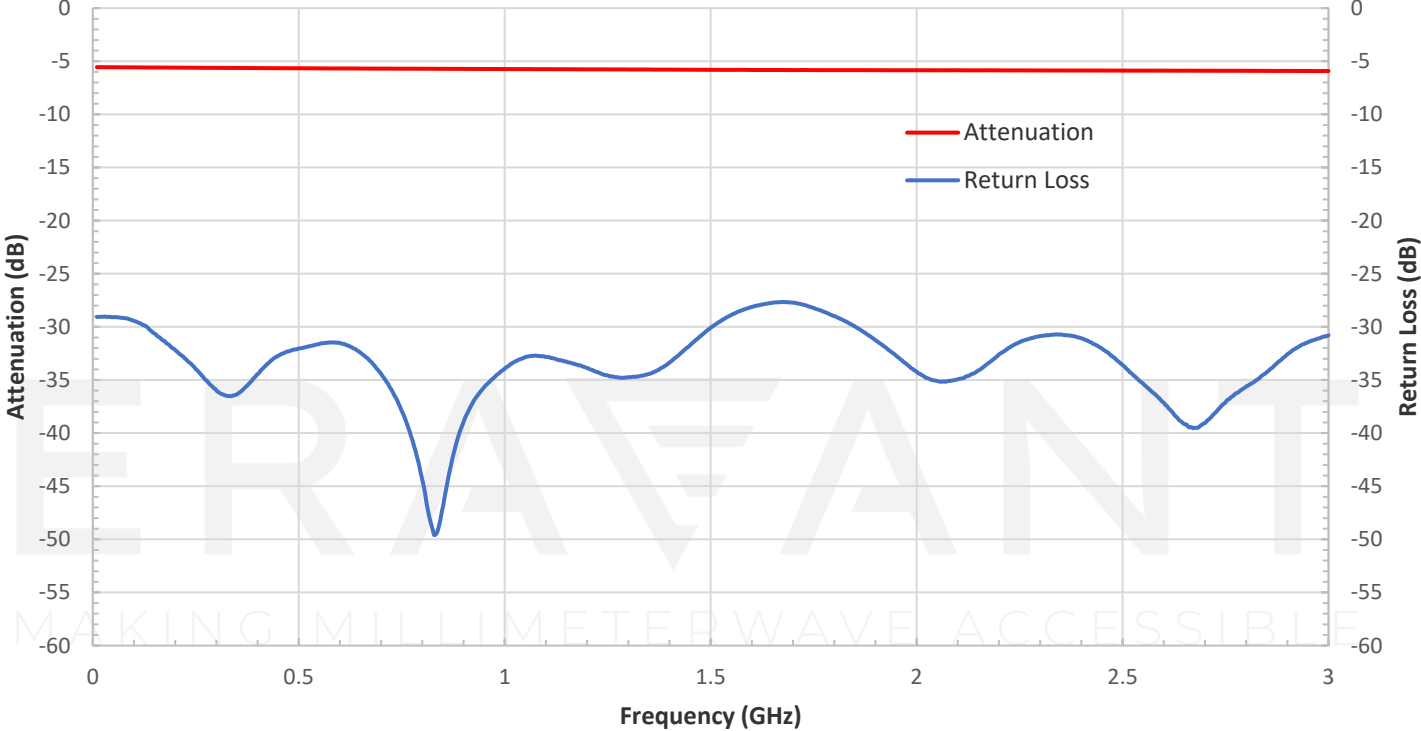
- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS

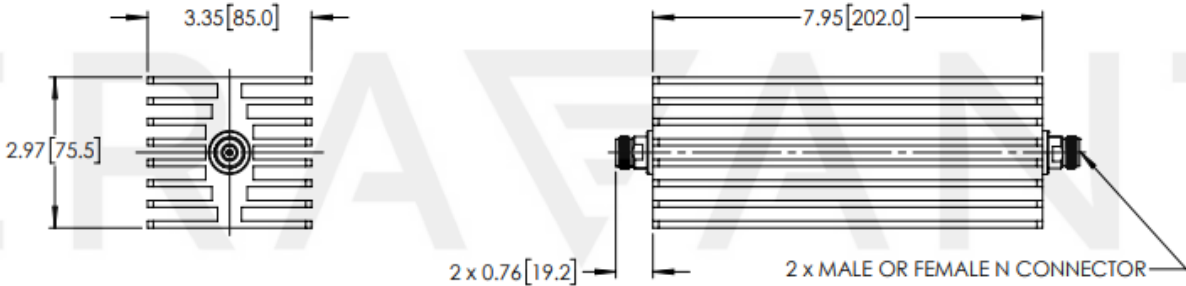


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Typical Performance vs. Frequency



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.