SCM-NF50-UB

N (F) Coaxial Matching Load, 100 Watt, DC to18 GHz

SCM-NF50-UB is a N female coaxial matching load that covers the frequency range of DC to 18 GHz. The coaxial matching load exhibits a typical return loss of 15.5 dB. It is designed and manufactured to offer a good match for system applications. The characteristic impedance of the matching load is 50 Ohms and the power handling is 100 Watts. The male version is available under the model number SCM-NM50-UB.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		18 GHz
Return Loss @ DC to 8.5 GHz		18 dB	
Return Loss @ 8.5 to 18 GHz		15.5 dB	
Power Handling (Average)*			100 W (CW)
Power Handling (Peak)*			1 kW
Impedance		50 Ω	
Specification Temperature		+25 °C	
Operating Temperature	-45 °C		+125 °C

*100 W average to 25 °C ambient temperature, derated linearly to 5 W @ 125 °C
*1 kW @ 5µs pulse width with 10% duty cycle

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FEATURES

- High Return Loss
- 50 Ohms

APPLICATIONS

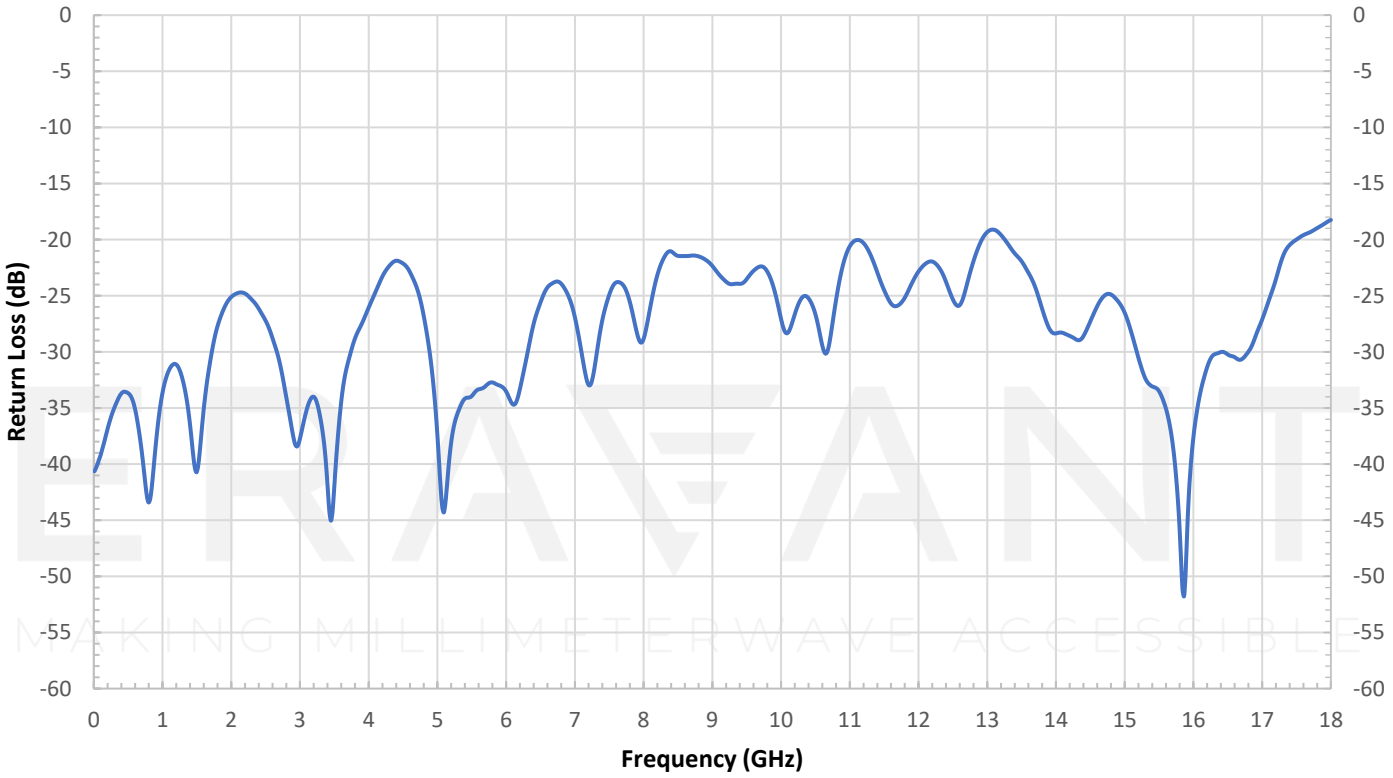
- Test Lab
- Sub-assemblies
- System Integration

SUPPLEMENTAL DETAILS

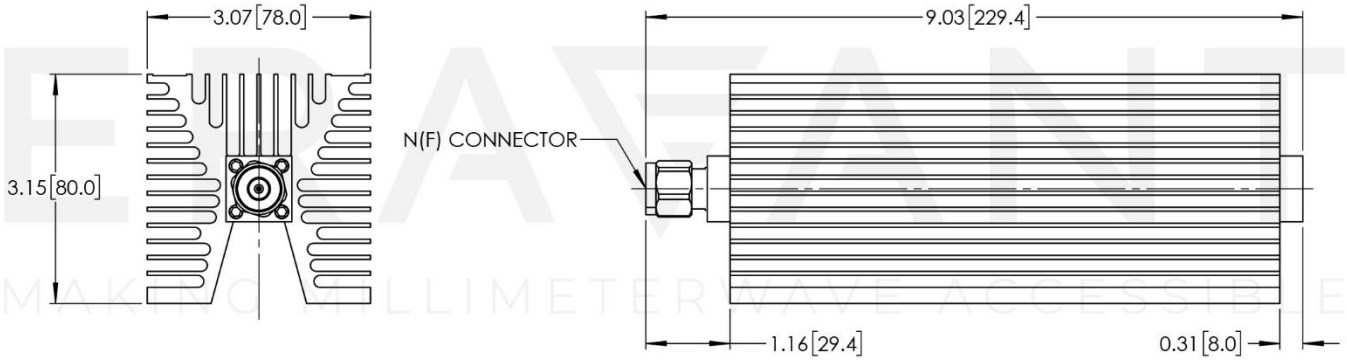
Mechanical Specifications:

Item	Specification
Connector Type	N Female
Connector Material	Brass, Nickel Plated
Contact Material	Beryllium Copper, Gold Plated
Heatsink Material	Aluminum, Black Anodized
Weight	3.1 Lbs (1.4 Kg)
Dimensions	7.87” x 3.07” x 3.15”, excluding connector
Outline	CM-NF-50-2

Typical Return Loss 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 is highly recommended.

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