ERAVANT

SCM-SF43-UB

SMA (F) Coaxial Matching Load, 20 Watt

SCM-SF43-UB is an SMA female coaxial matching load that covers the frequency range of DC to 26.5 GHz. The coaxial matching load exhibits a typical return loss of 18 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 20 Watts. The male version is available under the model number SCM-SM43-UB.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		26.5 GHz
Return Loss		18 dB	
Impedance		50 Ω	
Power Handling (Average)*			20 W (CW)
Power Handling (Peak)*			200 W
Specification Temperature		+25 °C	
Operating Temperature	-55 °C		+125 °C

*20 W average to 25 °C ambient temperature, derated linearly to 2 W @ 125 °C
*200 W @ 5µs pulse width with maximum 10% duty cycle

Mechanical Specifications:

Item	Specification
Connector Type	SMA Female
Connector Body Material	Stainless Steel, Passivated
Connector Pin Material	Beryllium Copper, Gold Plated
Insulator Material	PTFE
Heatsink Material	Aluminum, Black Anodized
Weight	2.5 Oz
Dimensions	1.73" (OD) x 1.73" (L)
Outline	CM-SF-43-2

ECCN

EAR99

FEATURES

- High Return Loss
- 50 Ohms

APPLICATIONS

- Test Lab
- Sub-assemblies
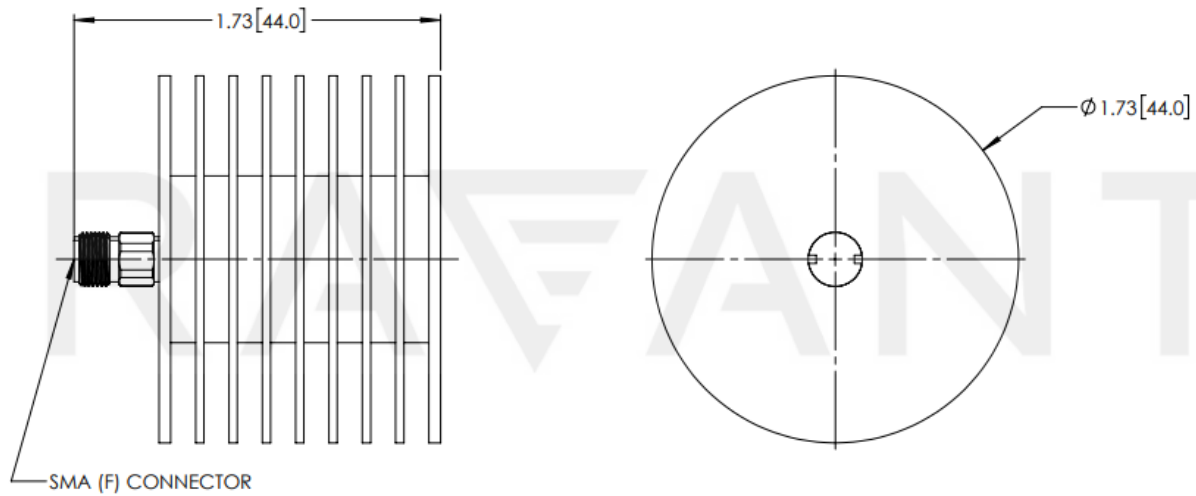- System Integration

SUPPLEMENTAL DETAILS

RoHS

Final Rev 1.0

Typical Return Loss vs. Frequency
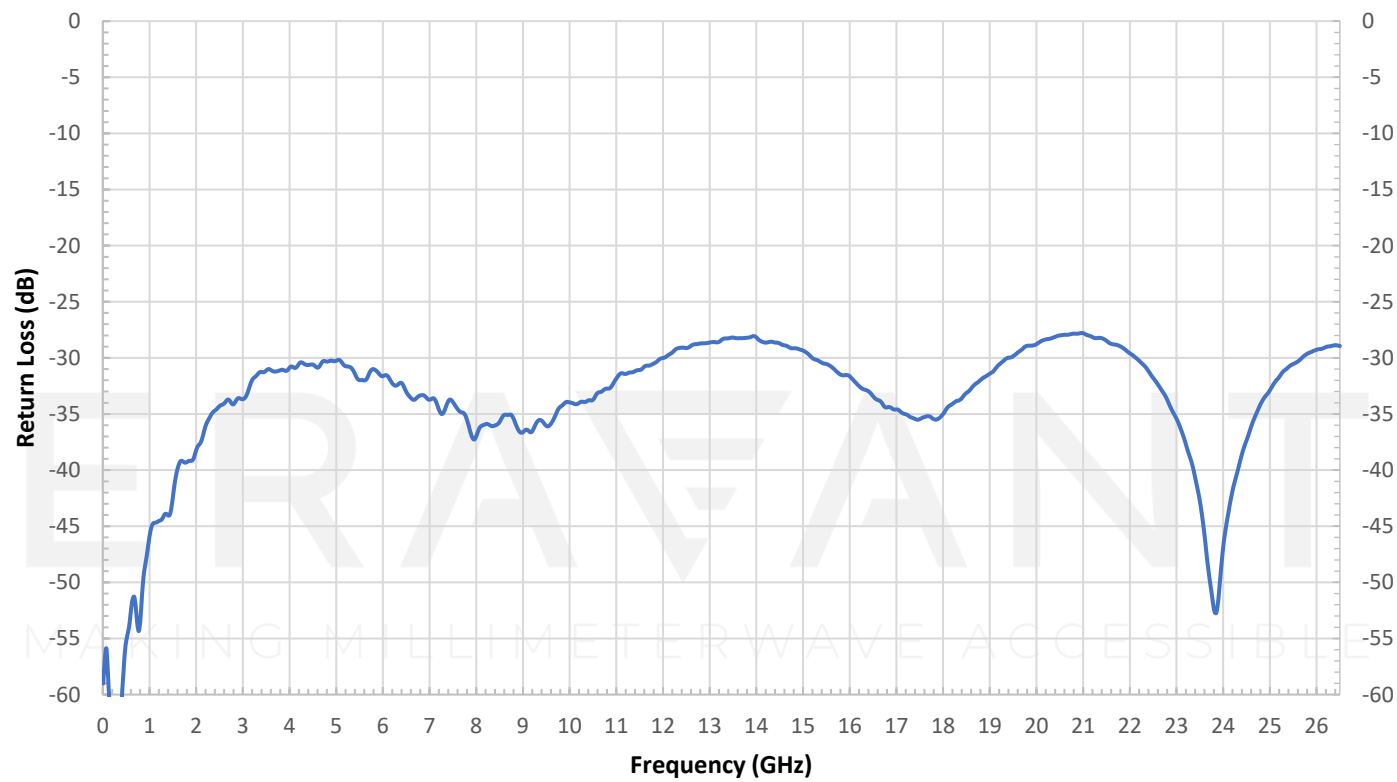
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])

1.73[44.0]

SMA (F) CONNECTOR

Ø1.73[44.0]

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.