

SCM-3F33-UB

3.5 mm (F) Coaxial Matching Load, 2 Watt

SCM-3F33-UB is a 3.5 mm female coaxial matching load that covers the frequency range of DC to 33 GHz. The coaxial matching load exhibits a typical return loss of 20 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 2 Watts. The male version is available under the model number SCM-3M33-UB.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		33 GHz
Return Loss		20 dB	
Impedance		50 Ω	
Power Handling (Average)*			2 W (CW)
Power Handling (Peak)*			20 W
Specification Temperature		+25 °C	
Operating Temperature	-55 °C		+125 °C

\*2 W average to 25 °C ambient temperature, derated linearly to 0.5 W @ 125 °C  
\*20 W @ 5μs pulse width with maximum 1% duty cycle

Mechanical Specifications:

Item	Specification
Connector Type	3.5 mm Female
Material	Stainless Steel
Finish	Passivated
Weight	0.1 Oz
Length	0.50"
Outline	CM-3F-33-2

ECCN  
EAR99

- FEATURES
- High Return Loss
  - 50 Ohms

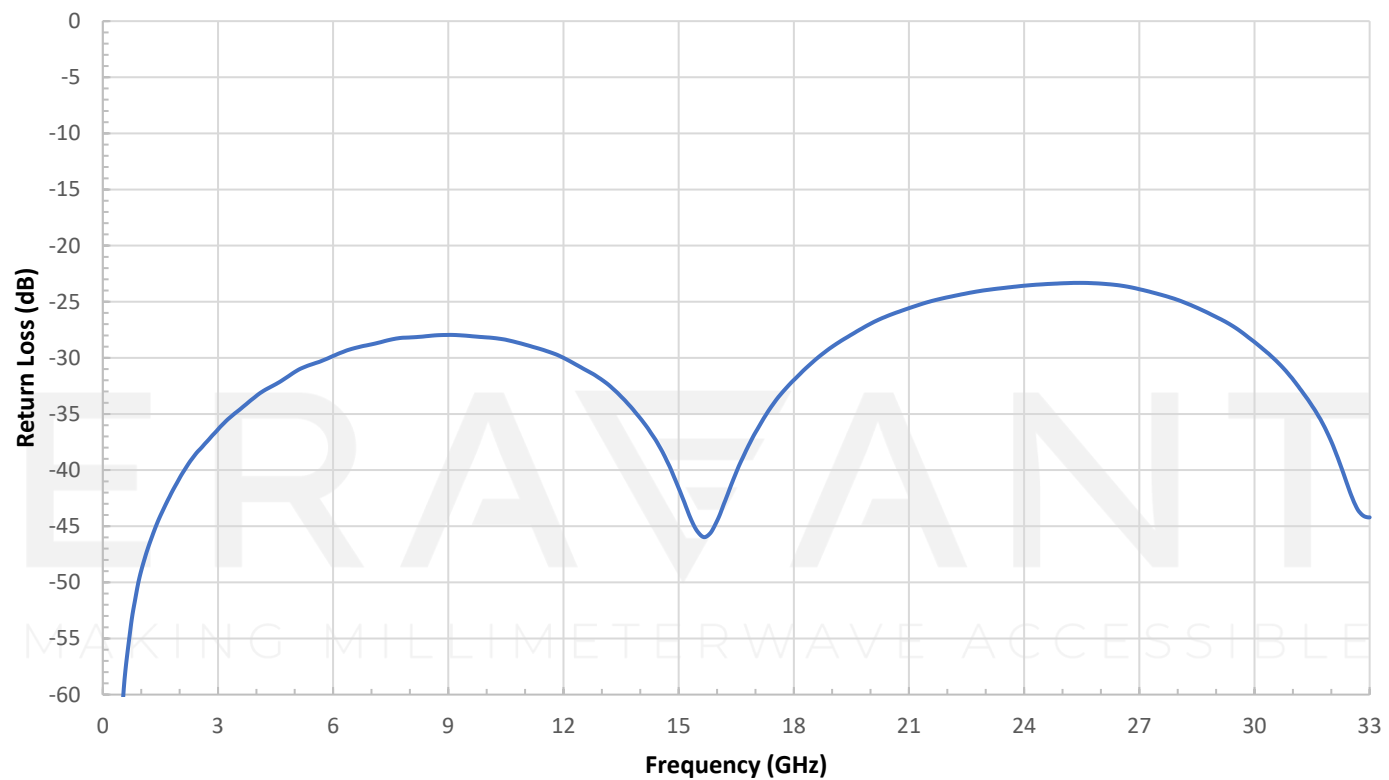
- APPLICATIONS
- Test Lab
  - Sub-assemblies
  - System Integration

SUPPLEMENTAL DETAILS

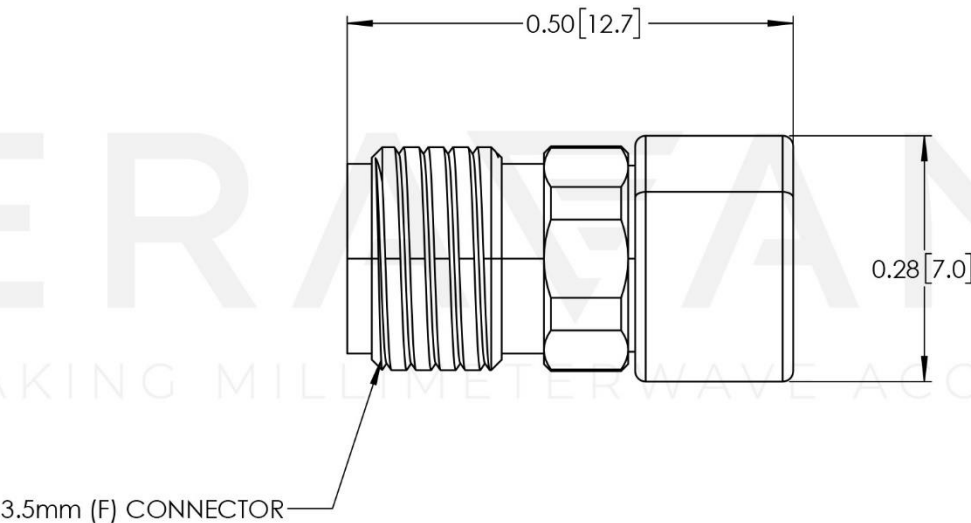


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Typical Return Loss vs. Frequency



**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:  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm). Torque wrench model SCH-08008-S1 is highly recommended.

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