

## SCM-EM30-UB

### 1.35 mm (M) Coaxial Matching Load, 1 Watt

**SCM-EM30-UB** is a 1.35 mm male coaxial matching load that covers the frequency range of DC to 90 GHz. The coaxial matching load exhibits a typical return loss of 13 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 1 Watt. The female version is available under the model number SCM-EF30-UB.



#### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		90 GHz
Return Loss		13 dB	
Impedance		50 $\Omega$	
Power Handling (Average)*			1 W (CW)
Power Handling (Peak)*			5 W
Specification Temperature		+25 °C	
Operating Temperature	-55 °C		+125 °C

\*1 W average to 25 °C ambient temperature, derated linearly to 0.1 W @ 125 °C

\*5 W @ 5 $\mu$ s pulse width with maximum 1% duty cycle

#### Mechanical Specifications:

Item	Specification
Connector Type	1.35 mm Male
Material	Stainless Steel
Finish	Passivated
Weight	0.1 Oz
Length	0.59"
Outline	CM-EM-30-2

#### ECCN

EAR99

#### FEATURES

- High Return Loss
- 50 Ohms

#### APPLICATIONS

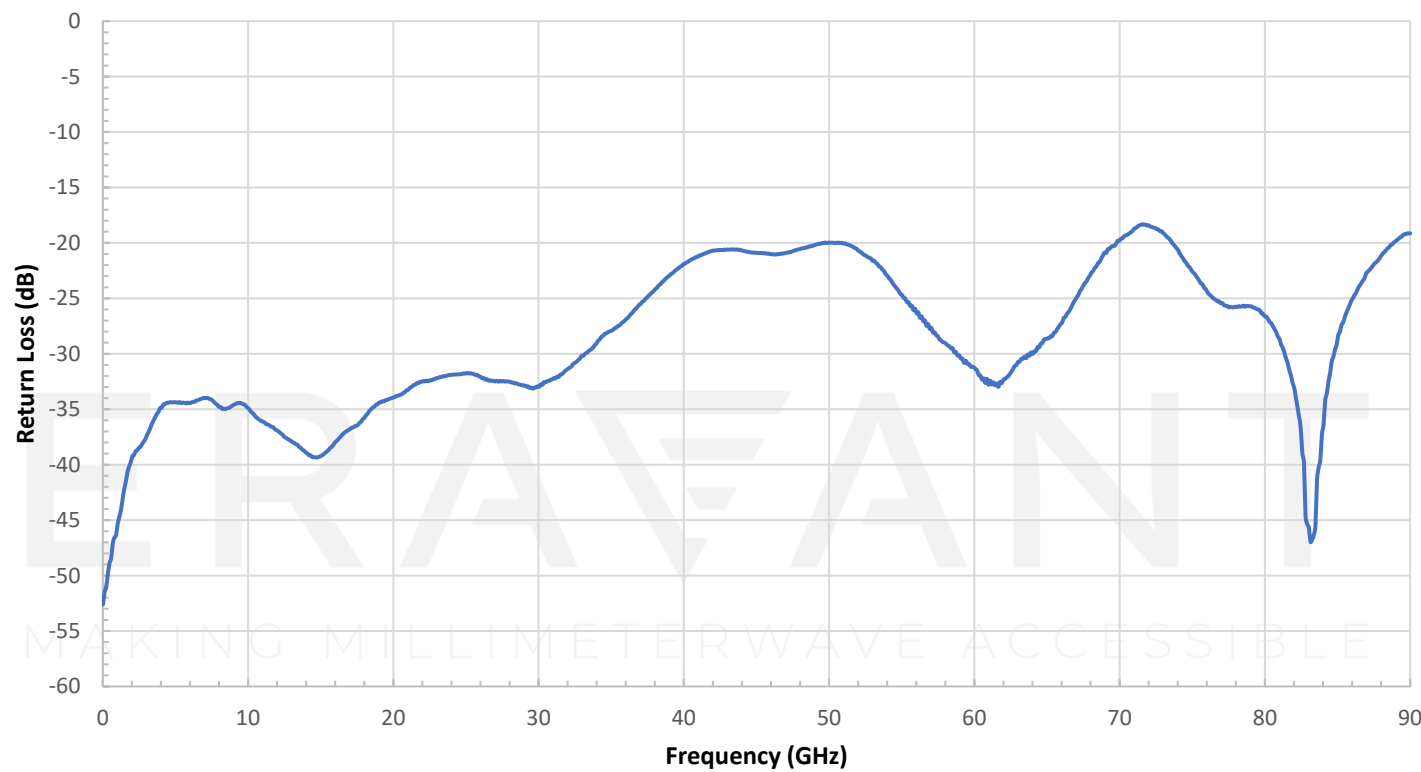
- Test Lab
- Sub-assemblies
- System Integration

#### SUPPLEMENTAL DETAILS

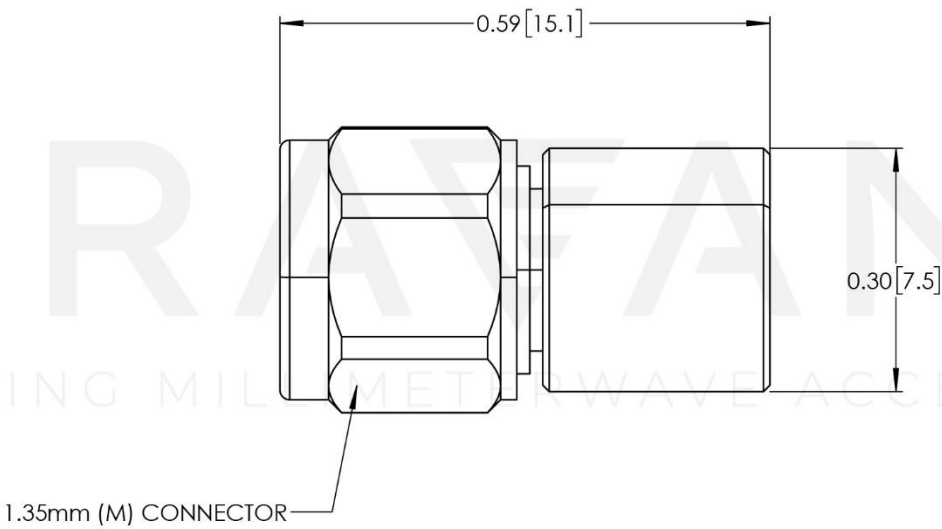


SCM-EM30-UB

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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