

## SCM-SM33-UB

### SMA (M) Coaxial Matching Load, 2 Watt

**SCM-SM33-UB** is a SMA male coaxial matching load that covers the frequency range of DC to 26.5 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 female version is available under the model number SCM-SF33-UB.



#### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		26.5 GHz
Return Loss		20 dB	
Impedance		50 $\Omega$	
Power Handling (Average)*			2 W (CW)
Power Handling (Peak)*			20 W
Specification Temperature		+25 $^{\circ}\text{C}$	
Operating Temperature	-55 $^{\circ}\text{C}$		+125 $^{\circ}\text{C}$

\*2 W average to 25  $^{\circ}\text{C}$  ambient temperature, derated linearly to 0.5 W @ 125  $^{\circ}\text{C}$

\*20 W @ 5 $\mu\text{s}$  pulse width with maximum 1% duty cycle

#### Mechanical Specifications:

Item	Specification
Connector Type	SMA Male
Material	Stainless Steel
Finish	Passivated
Weight	0.1 Oz
Length	0.50"
Outline	CM-SM-33-2

#### ECCN

EAR99

#### FEATURES

- High Return Loss
- 50 Ohms

#### APPLICATIONS

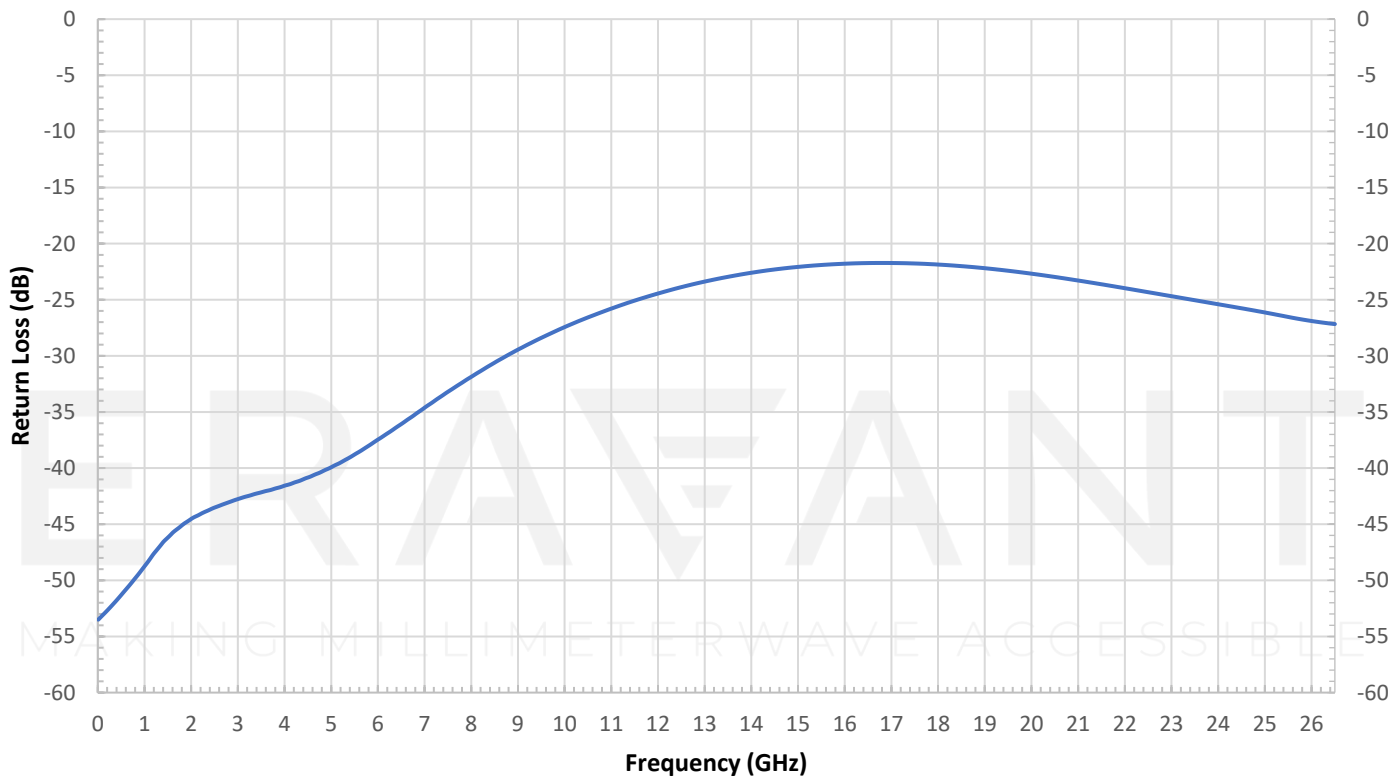
- Test Lab
- Sub-assemblies
- System Integration

#### SUPPLEMENTAL DETAILS

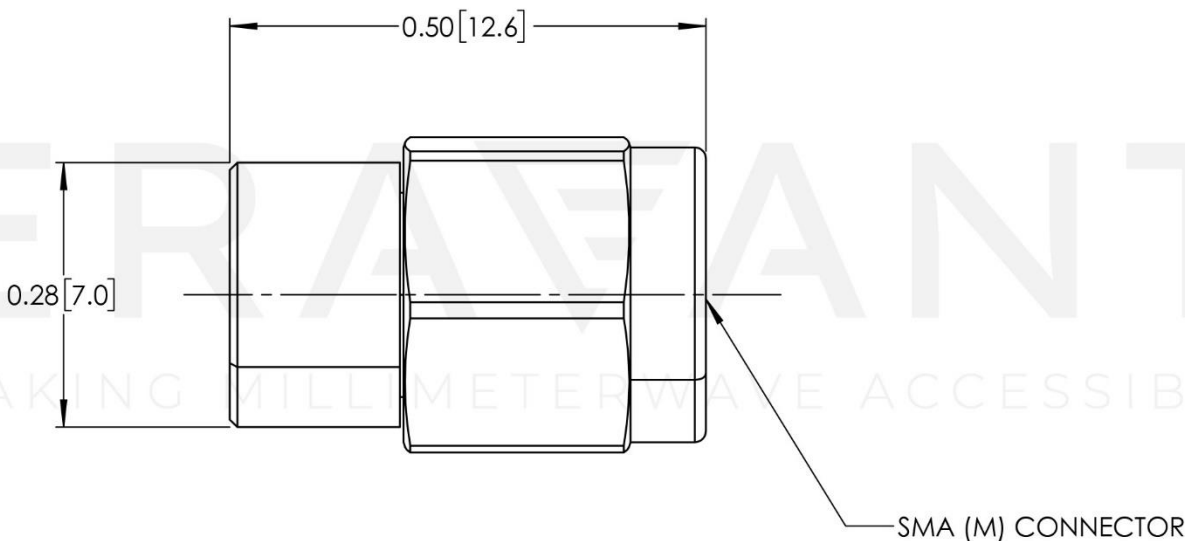


SCM-SM33-UB

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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