# SCM-KM33-UB-C

## 2.92 mm (M) Coaxial Matching Load, 2 Watt

**SCM-KM33-UB-C** is a 2.92 mm male coaxial matching load that covers the frequency range of DC to 40 GHz. The coaxial matching load exhibits a typical return loss of 19 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-KF33-UB-C.

### Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---|---|---|---|
| Frequency Range | DC | | 40 GHz |
| Return Loss @ DC to 40 GHz | | 19 dB | |
| Impedance | | 50 Ω | |
| Power Handling (Average)* | | | 2 W (CW) |
| Power Handling (Peak)* | | | 20 W |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °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 | 2.92 mm (K) Male |
| Material | Stainless Steel |
| Finish | Passivated |
| Weight | 0.2 Oz |
| Length | 0.67” |
| Outline | CM-KM-33-2 |

### ECCN

EAR99

### FEATURES

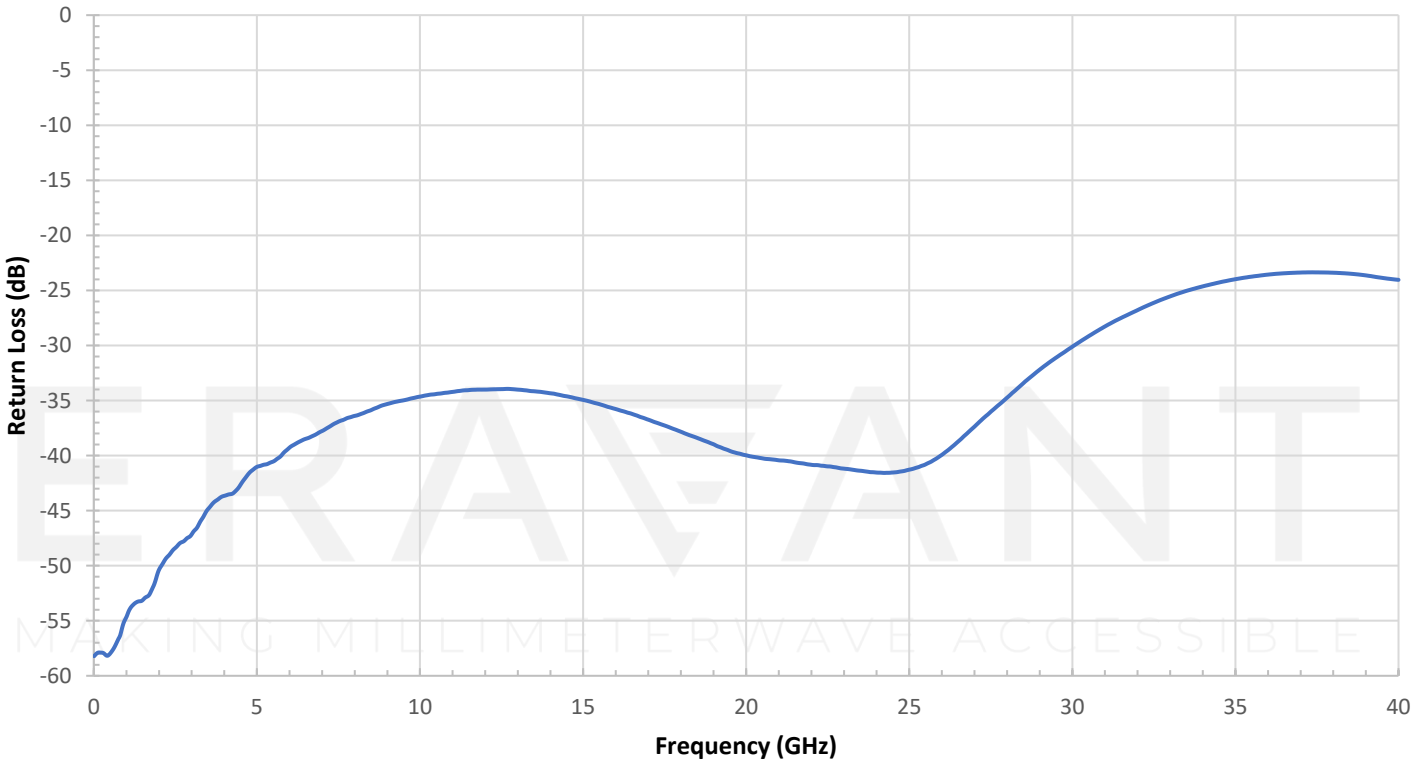
- High Return Loss
- 50 Ohms

### APPLICATIONS

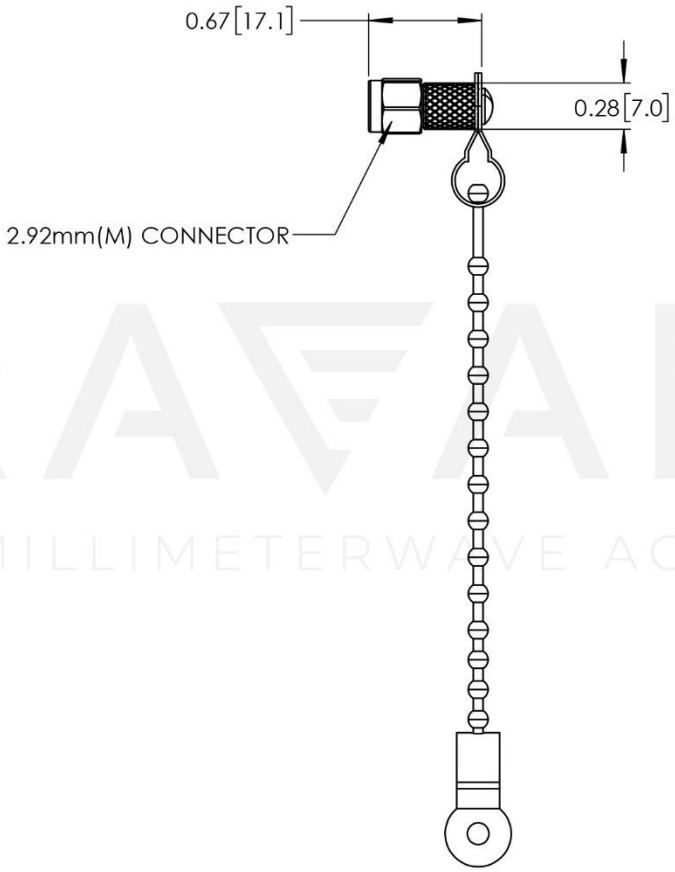
- Test Lab
- Sub-assemblies
- System Integration

### SUPPLEMENTAL DETAILS

## 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 model SCH-08008-S1 is highly recommended.