# ERAVANT

## 2.4 mm (M) to 1.0 mm (F) Coaxial Adapter

**SCT-2M1F-UB** is a 2.4 mm male to 1.0 mm female coaxial adapter that covers the frequency range of DC to 50 GHz. This coaxial adapter offers efficient transitioning between the coaxial connectors with a high return loss and typical insertion loss of 0.7 dB. The impedance of the adapter is 50 Ohms. Other configurations are available under different model numbers.

### Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---|---|---|---|
| Frequency Range | DC | | 50 GHz |
| Insertion Loss | | 0.7 dB | |
| Return Loss | | 18 dB | |
| Impedance | | 50 Ω | |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

### Mechanical Specifications:

| Item | Specification |
|---|---|
| Connector 1 Type | 2.4 mm Male |
| Connector 2 Type | 1.0 mm Female |
| Body Material | Stainless Steel |
| Body Finish | Passivated |
| Contact Material | Beryllium Copper |
| Insulator Material | PEI |
| Weight | 0.1 Oz |
| Length | 0.68" |
| Outline | CT-2M1F-LN1 |

**ECCN**

EAR99

**FEATURES**

- Instrumentation Grade
- High Return Loss
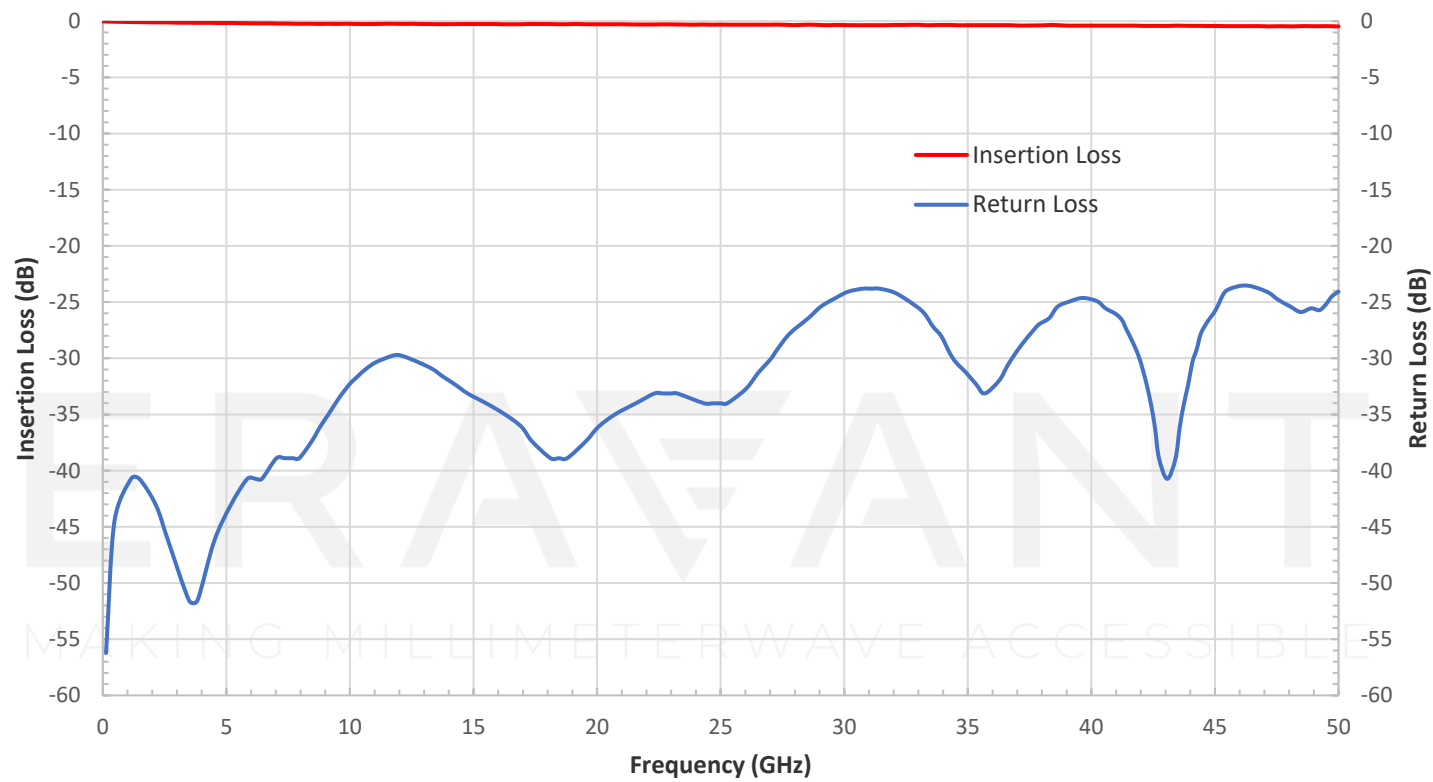- Low Insertion Loss

**APPLICATIONS**

- Test Lab
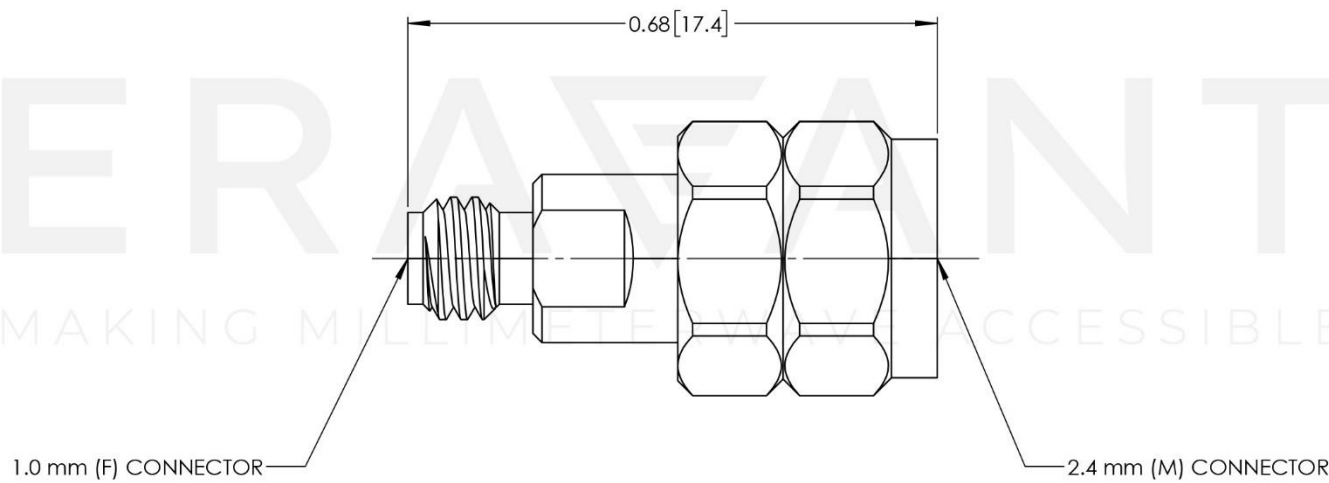- Sub-assemblies

**SUPPLEMENTAL DETAILS**

RoHS

**Typical Performance 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: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model SCH-06004-S1 is highly recommended.
- 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.