

SCT-2F1F-UB

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

SCT-2F1F-UB is a 2.4 mm female 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 Female    |
| 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             | 0.72"            |
| Outline            | CT-2F1F-LN1      |

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FEATURES

- Instrumentation Grade
- High Return Loss
- Low Insertion Loss

APPLICATIONS

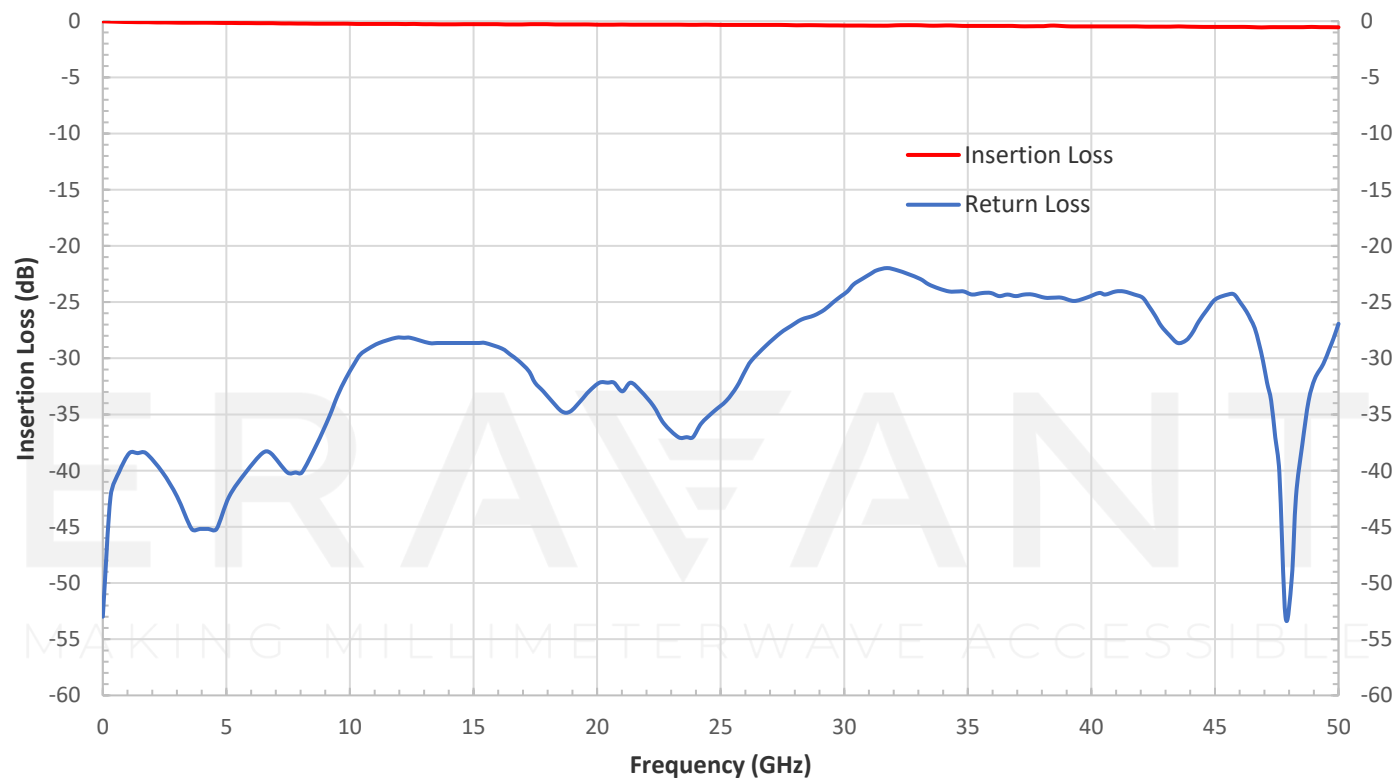
- Test Lab
- Sub-assemblies

SUPPLEMENTAL DETAILS

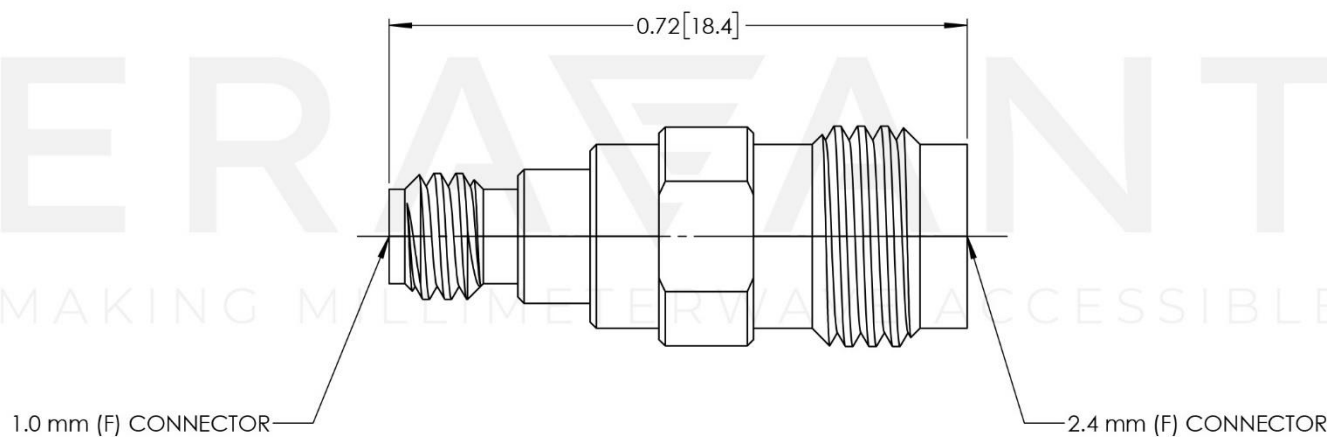


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Typical Performance vs. Frequency



**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:  $4.0 \pm 0.15$  inch-pounds ( $0.45 \pm 0.02$  Nm). Torque wrench model SCH-06004-S1 is highly recommended.
- 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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