

1 mm (M) to 1 mm (M) Coaxial Adapter

Description:

Model SCT-1M1M-S1 is a 1 mm male to 1 mm male coaxial adapter that covers the frequency range of DC to 110 GHz. This coaxial adapter offers efficient transitioning between the coaxial connectors with a high return loss and maximum insertion loss of 0.6 dB. The impedance of the adapter is 50 Ohms. Other configurations are available under different model numbers.



Features:

- Instrumentation Grade
- High Return Loss
- Low Insertion Loss

Applications:

- Test Lab
- Sub-assemblies

Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---------------------------|-----------------|-------------|---------|
| Frequency Range | DC | | 110 GHz |
| Insertion Loss | | | 0.6 dB |
| Return Loss | @ DC to 60 GHz | | 18 dB |
| | @ 60 to 110 GHz | | 16 dB |
| Impedance | | 50 Ω | |
| Specification Temperature | | +25°C | |
| Operating Temperature | 0°C | | +50°C |

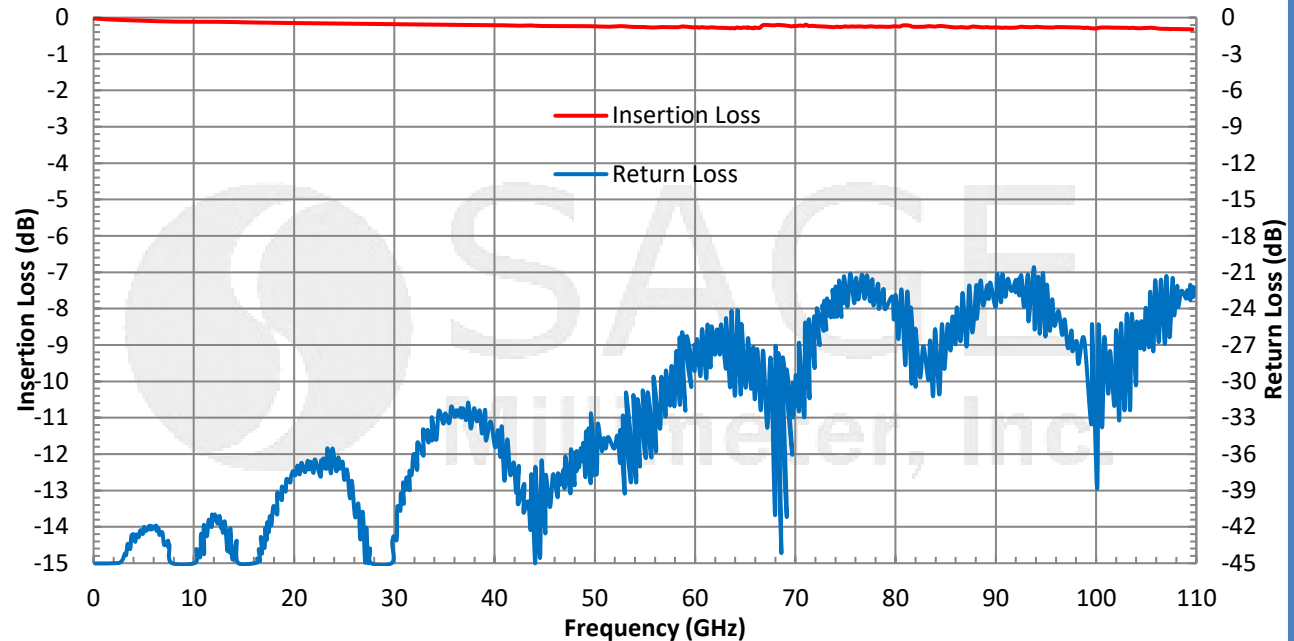
Mechanical Specifications:

| Item | Specification |
|----------------------|---------------------|
| Connector 1 | 1 mm Male |
| Connector 1 Material | Stainless Steel |
| Connector 1 Finish | Passivated |
| Connector 2 Type | 1 mm Male |
| Connector 2 Material | Stainless Steel |
| Connector 2 Finish | Passivated |
| Weight | 0.10 Oz (2.9 Grams) |
| Length | 0.65" |
| Outline | CT-1M1M-5 |

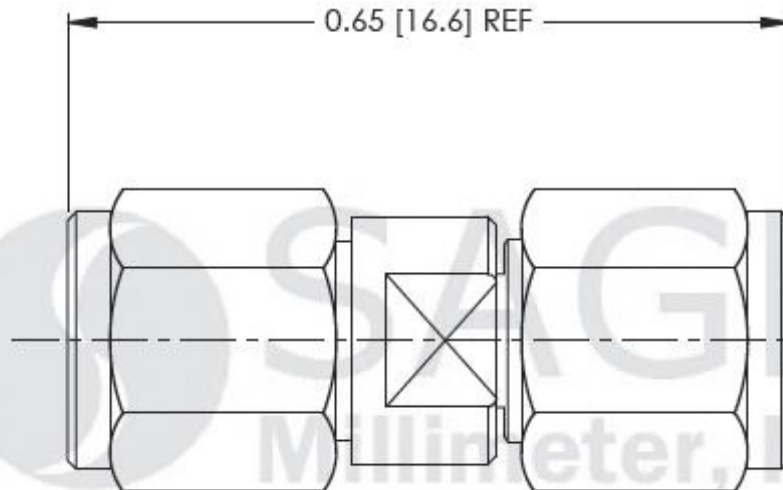


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Typical Performance vs. Frequency



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 unit to unit.
- All testing was performed under +25°C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Proper torque, 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm), should be used. **SAGE Millimeter torque wrench, model SCH-06004-S1, is highly recommended.**



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