SCT-1M1M-U7

Rev. 1.1

1 mm (M) to 1 mm (M), High Performance Coaxial Adapter

Description:

Model SCT-1M1M-U7 is a high performance 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 a typical 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	
Return Loss @ 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 Type	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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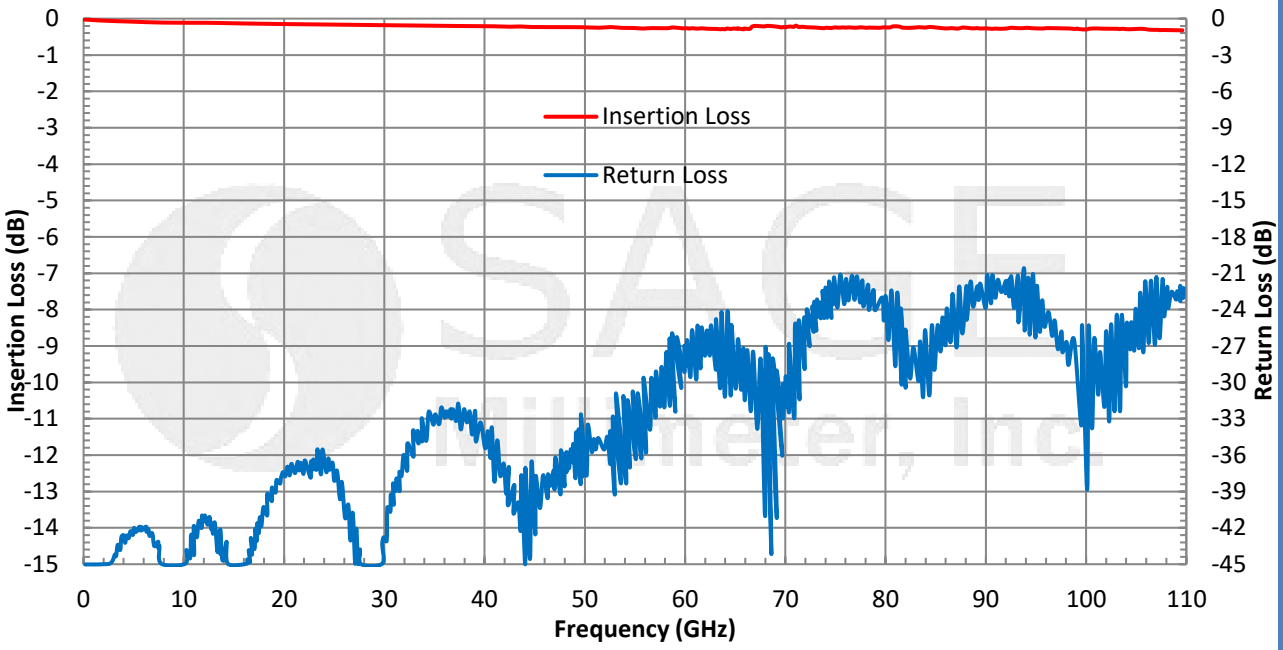
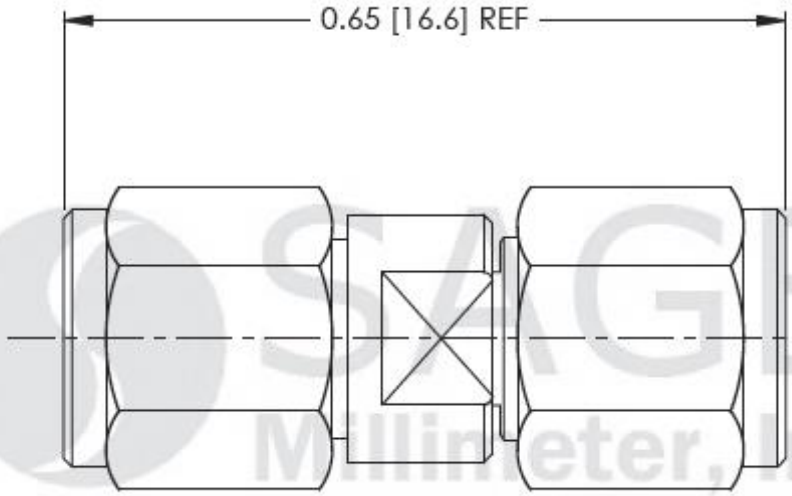
Typical Performance vs. Frequency



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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