

SMA (F) to SMA (M) Coaxial Adapter

Description:

Model SCT-SFSM-UB is a SMA female to SMA male coaxial adapter that covers the frequency range of DC to 26.5 GHz. This coaxial adapter offers efficient transitioning between the coaxial connectors with a high return loss and typical insertion loss of 0.3 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 | DC | | 26.5 GHz |
| Insertion Loss | | 0.3 dB | |
| Return Loss @ DC to 18 GHz | | 23 dB | |
| Return Loss @ 18 to 26.5 GHz | | 20 dB | |
| Impedance | | 50 Ω | |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

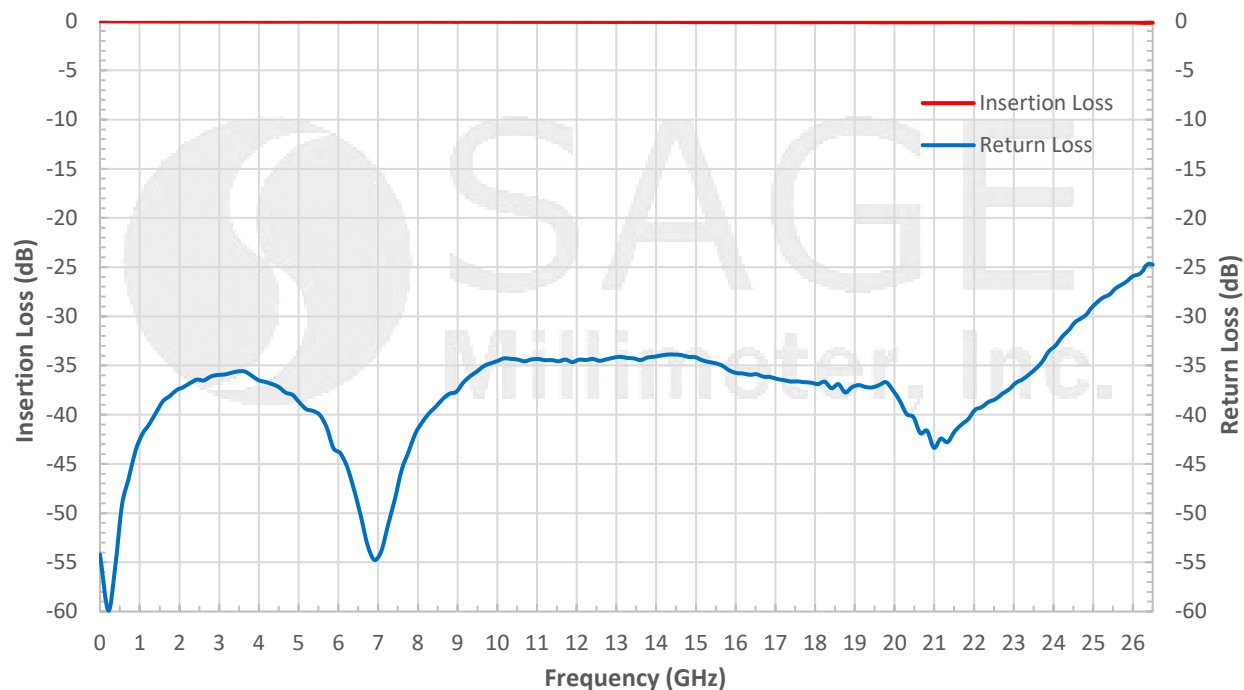
Mechanical Specifications:

| Item | Specification |
|--------------------|---------------------|
| Connector 1 Type | SMA Female |
| Connector 2 Type | SMA Male |
| Body Material | Stainless Steel |
| Body Finish | Passivated |
| Contact Material | Beryllium Copper |
| Insulator Material | PTFE |
| Weight | 0.09 Oz (2.5 Grams) |
| Length | 0.71" |
| Outline | CT-SFSM-LN1 |

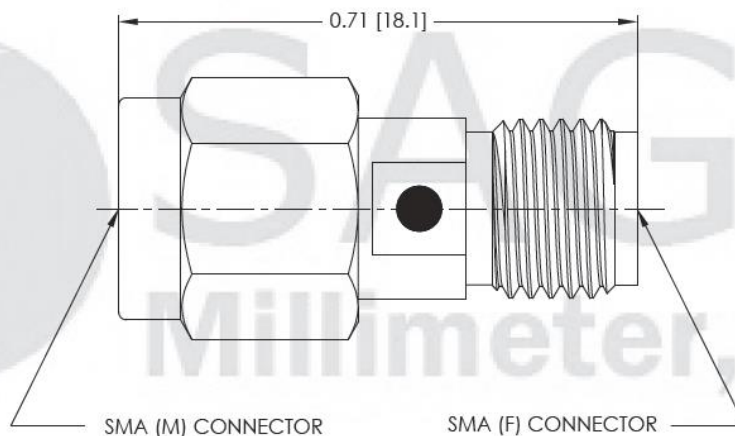


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Typical Performance vs. Frequency



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



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Caution:

- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-U3, is highly recommended.**

