



## N (M) to SMA (F) Coaxial Adapter

### Description:

**Model SCT-NMSF-UB** is a N male to SMA female coaxial adapter that covers the frequency range of DC to 18 GHz. This coaxial adapter offers efficient transitioning between the coaxial connectors with a high return loss and typical insertion loss of 0.2 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      |         | 18 GHz  |
| Insertion Loss            |         | 0.20 dB |         |
| Return Loss               |         | 26 dB   |         |
| Impedance                 |         | 50 Ω    |         |
| Specification Temperature |         | +25 °C  |         |
| Operating Temperature     | -40 °C  |         | +85 °C  |

### Mechanical Specifications:

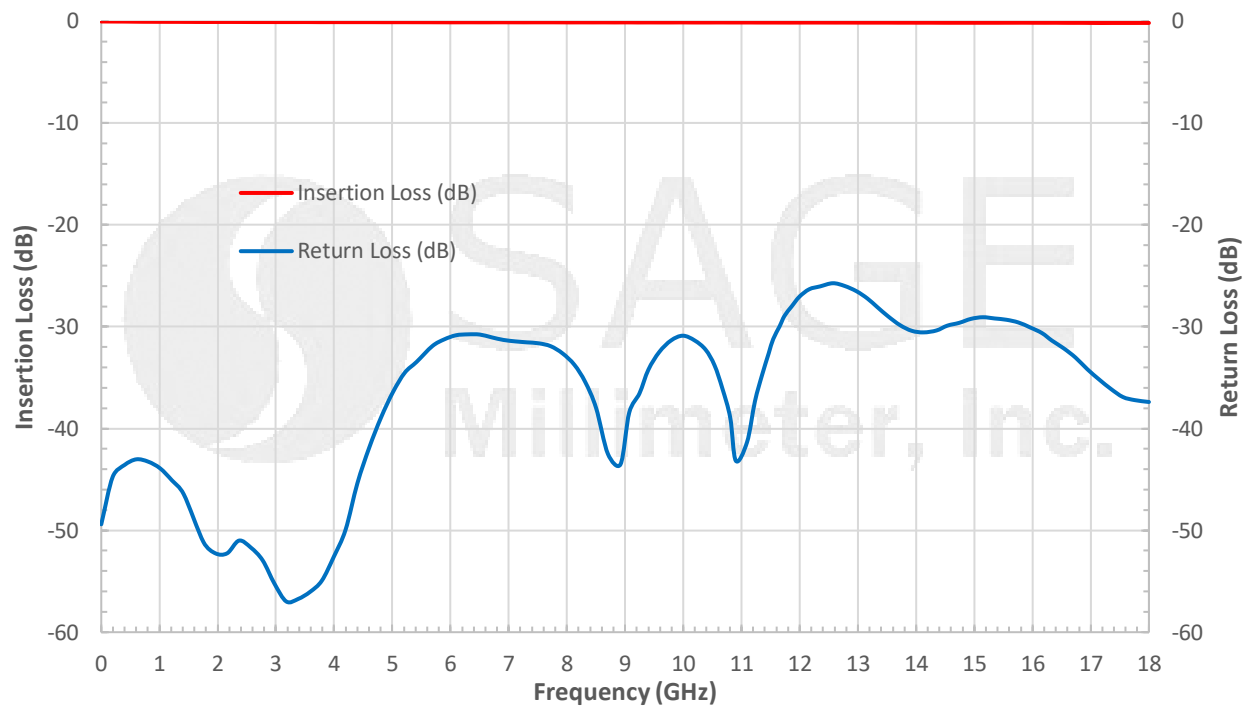
| Item               | Specification    |
|--------------------|------------------|
| Connector 1 Type   | N Male           |
| Connector 2 Type   | SMA Female       |
| Body Material      | Stainless Steel  |
| Body Finish        | Passivated       |
| Contact Material   | Beryllium Copper |
| Insulator Material | PTFE             |
| Weight             | TBD              |
| Length             | 1.48"            |
| Outline            | CT-NMSF-LN1      |



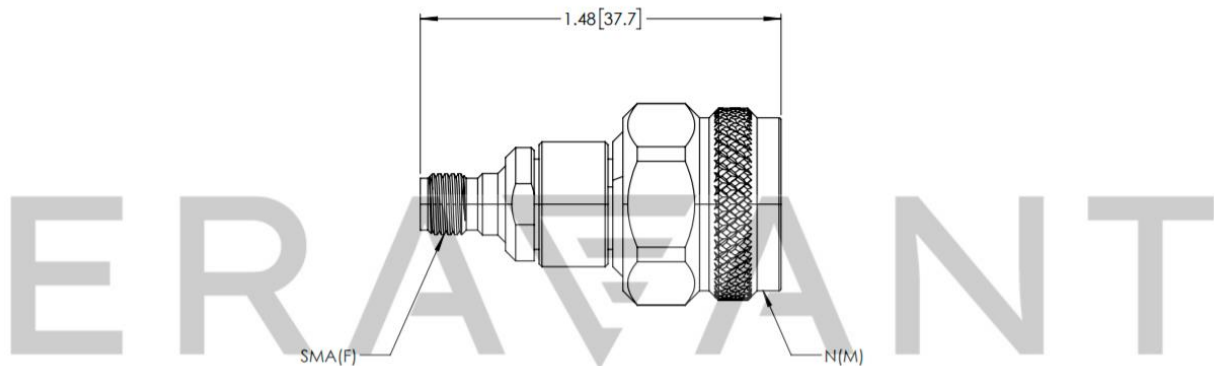


## N (M) to SMA (F) Coaxial Adapter

### 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.

#### 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.**



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