



## SMPM (F) to 1 mm (F) Coaxial Adapter

### Description:

**Model SCT-DF1F-UB** is a SMPM (GPPO) female to 1 mm female coaxial adapter that covers the frequency range of DC to 65 GHz. This coaxial adapter offers efficient transitioning between the coaxial connectors with a high return loss and typical insertion loss of 1.0 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		65 GHz
Insertion Loss		1.0 dB	
Return Loss		16 dB	
Impedance		50 Ω	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

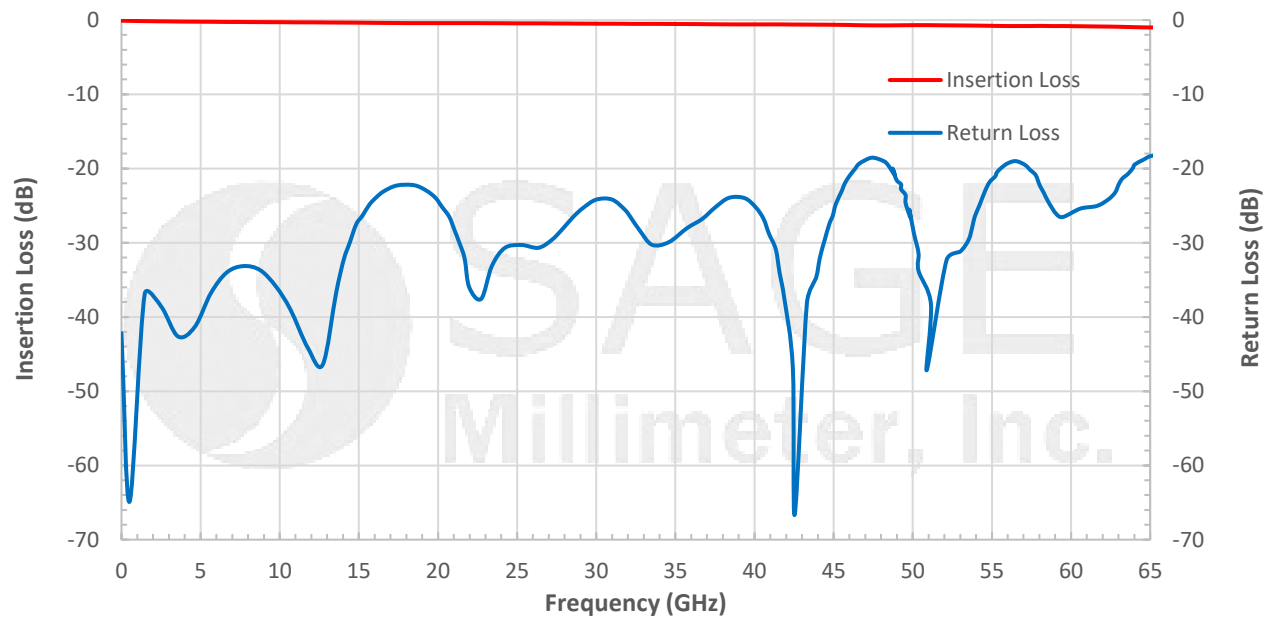
### Mechanical Specifications:

Item	Specification
Connector 1 Type	SMPM Female
Connector 2 Type	1 mm Female
Body Material	Stainless Steel
Body Finish	Passivated
Contact Material	Beryllium Copper
Insulator Material	PEI
Weight	0.09 Oz (2.5 Grams)
Length	0.72"
Outline	CT-DF1F-LN1

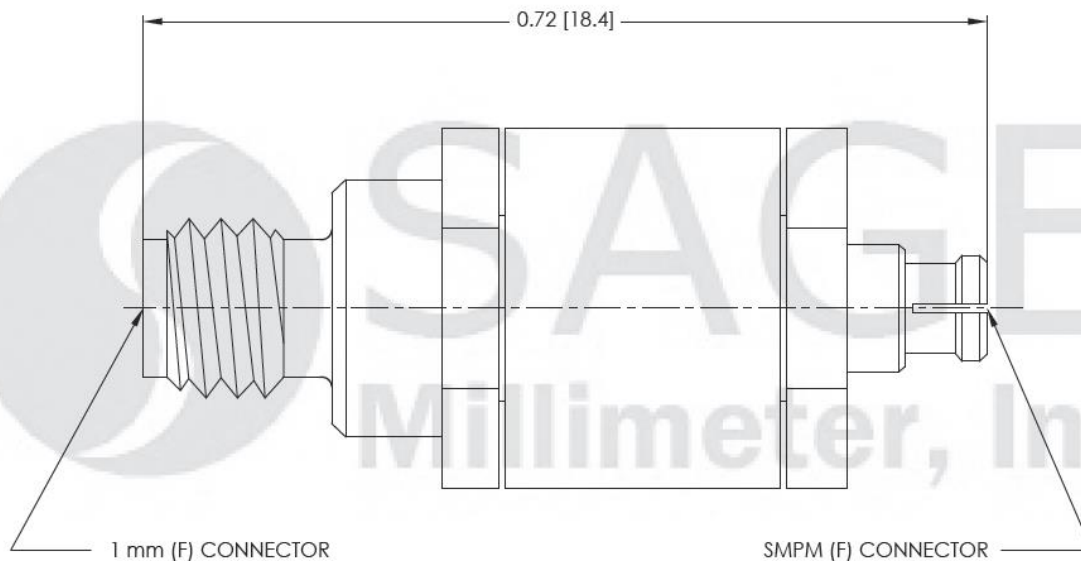


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### Typical Performance vs. Frequency



**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.

**Caution:**

- Proper torque,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**



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