SCW-KMKM048-F1-PM

Rev. 1.0

2.92 mm (M) to 2.92 mm (M) Coaxial Cable, Flexible, 48”, Phase Matched

Description:



Model SCW-KMKM048-F1-PM is a 48” long, flexible, phase matched coaxial cable with 2.92 (K) mm male connectors that cover the frequency range of DC to 40 GHz. The coaxial cable utilizes high performance material and a precision manufacturing process to guarantee superior microwave performance and mechanical durability. The impedance of the cable is 50 ohms. Other lengths are offered under different models.

Features:

- High Return Loss
- Low Insertion Loss
- Flexible and Durable

Applications:

- Test Lab
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	DC		40 GHz
Insertion Loss @ 18 GHz		< 2.2 dB	
Insertion Loss @ 26.5 GHz		< 2.8 dB	
Insertion Loss @ 32 GHz		< 3.1 dB	
Insertion Loss @ 40 GHz		< 3.5 dB	
Return Loss @ 40 GHz		18 dB	
Impedance		50 Ω	
Phase Match (Unit to Unit)		±10 °	
Breakdown Voltage			1000 Volts
Radiation Shielding		90 dB	
Power Handling @ 40 GHz			20 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Connectors	2.92 mm Male
Connector Contact Material/Plating	Beryllium Copper (BeCu)/Gold Plating Per MIL-G-45204
Connector / Cable Insulation Layer Material	Passivated Stainless Steel / PEEK/PEI
Cable Jacket Material	PFA
Cable Outer Diameter	0.142”
Length	48”
Minimum Bending Radius	0.7”
Repeated Bending Radius	1.418”
Weight	1.0 Oz
Outline	CW-KK-F8

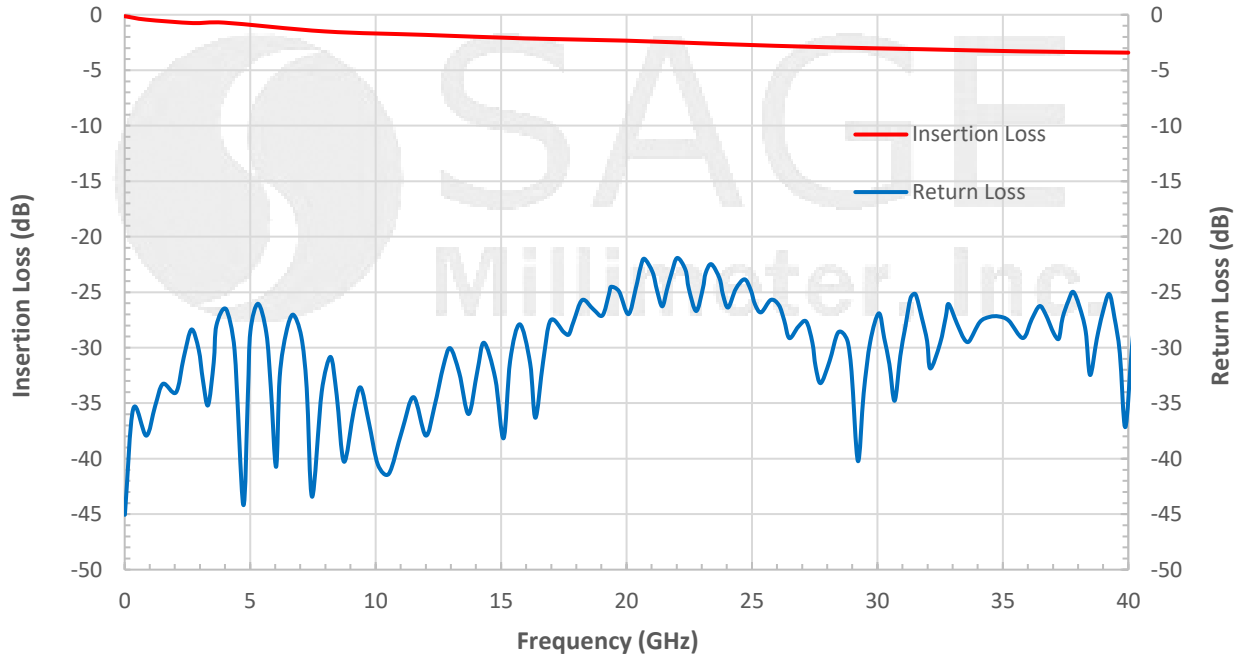
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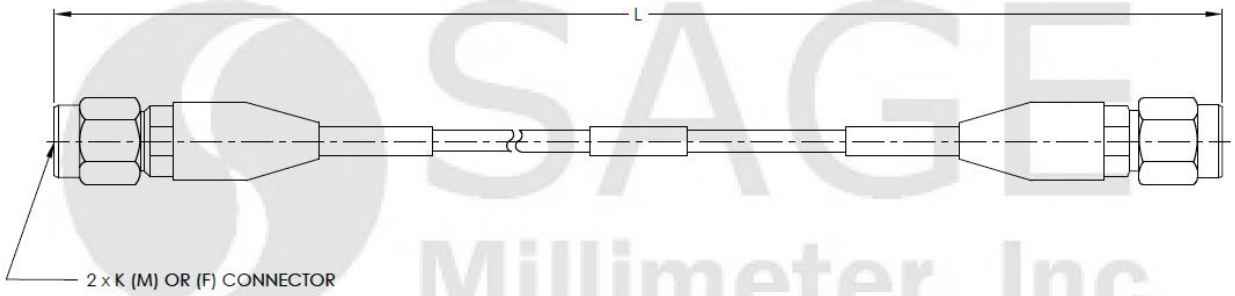
SAGE Millimeter, Inc.

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Typical Performance vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



Note:

- Length “L” can be customizable.
- 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:

- Bending the cable sharply will either cause damage or degrade the performance of the cable.
- 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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