

Coaxial Lowpass Filter, DC to 55 GHz

Description:

Model SCF-55375330-KFKM-L1 is a coaxial lowpass filter to pass the frequency of DC to 55 GHz. The typical insertion loss of the bandpass filter is 2.5 dB and passband ripple is ± 0.5 dB. The rejection band is from 75 to 110 GHz and rejection value is 30 dB typical. The RF connectors of the filter are K(F) and K(M) connectors. The passband return loss of the filter is 18 dB typical. Other configurations, such as different connectors for input and output are available under different model numbers.



Features:

- Broad Passband
- Low Insertion Loss
- Compact Design

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	DC		55 GHz
Passband Insertion Loss		2.5 dB	3.0 dB
Rejection Frequency	75 GHz		110 GHz
Rejection Value		30 dB	
Passband Return Loss		18 dB	
Impedance		50 Ω	
Power Handling			1 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+75 °C

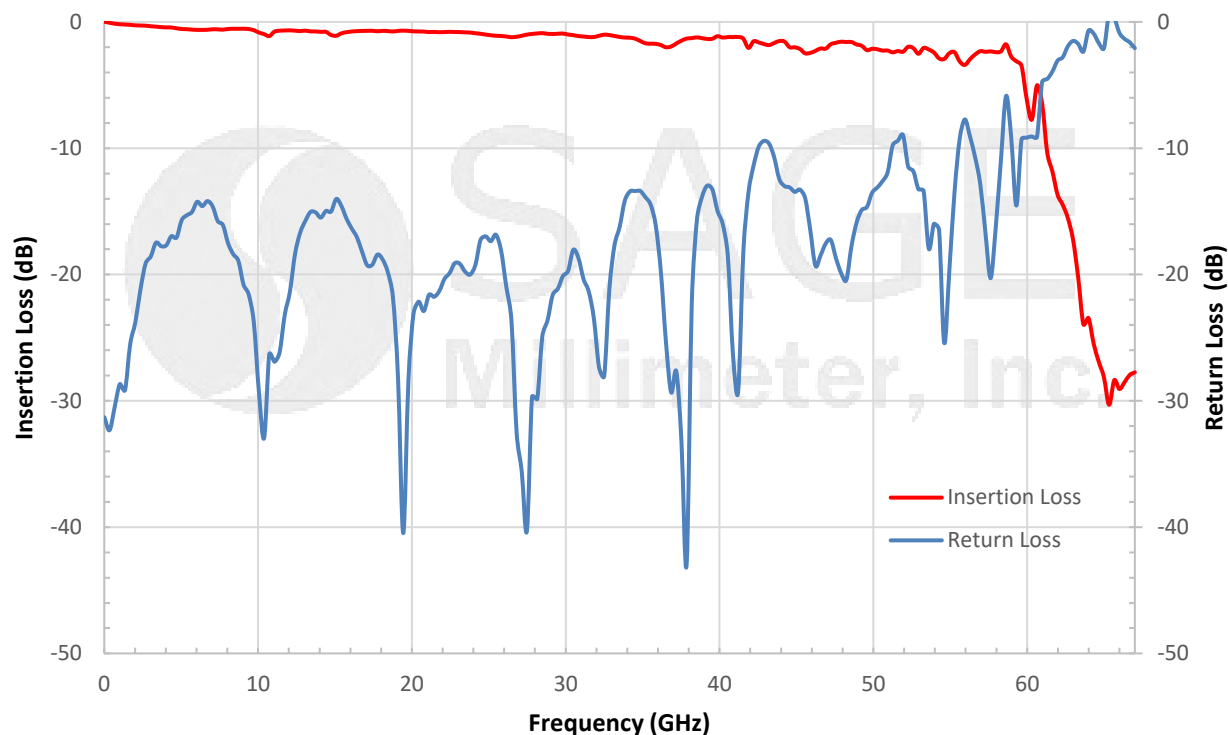
Mechanical Specifications:

Item	Specifications
RF Ports	K(F) and K(M)
Case Material	Aluminum
Weight	0.5 Oz
Finishing	Gold Plated
Size	0.50" (L) x 0.50" (W) x 0.50" (H)
Outline	CF-LW

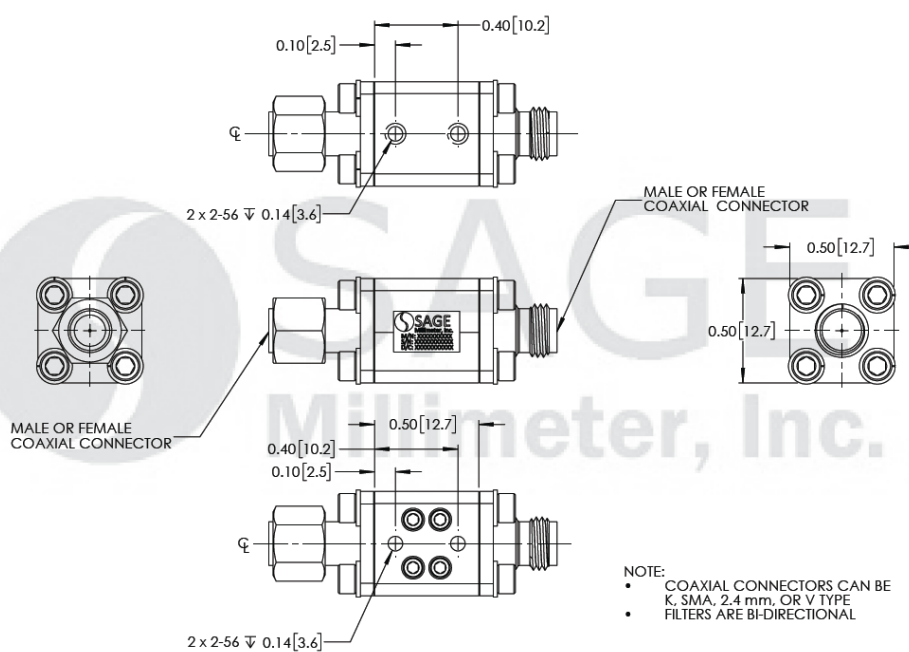


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Simulated Performance vs. Frequency



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



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Note:

- All data presented is simulated. Actual data may vary, slightly.
- 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-S1, is highly recommended.**

