



Coaxial Lowpass Filter, DC to 20 GHz

Description:

Model SCF-20323330-KFKM-L3-WP is a coaxial lowpass filter to pass the frequency of DC to 20 GHz. The maximum insertion loss of the bandpass filter is 2.5 dB and passband ripple is ± 0.5 dB. The rejection band is from 23 to 40 GHz and rejection value is 30 dB typical. The RF connectors of the filter are K(M) and K(F) connectors. The passband return loss of the filter is 10 dB typical. Other configuration, 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		20 GHz
Passband Insertion Loss		2.0 dB	2.5 dB
Rejection Frequency	23 GHz		40 GHz
Rejection Value		30 dB	
Passband Return Loss			10 dB
Impedance		50 Ω	
Power Handling			1 W (CW)
Specification Temperature		+25 $^{\circ}$ C	
Operating Temperature	-40 $^{\circ}$ C		+75 $^{\circ}$ C

Mechanical Specifications:

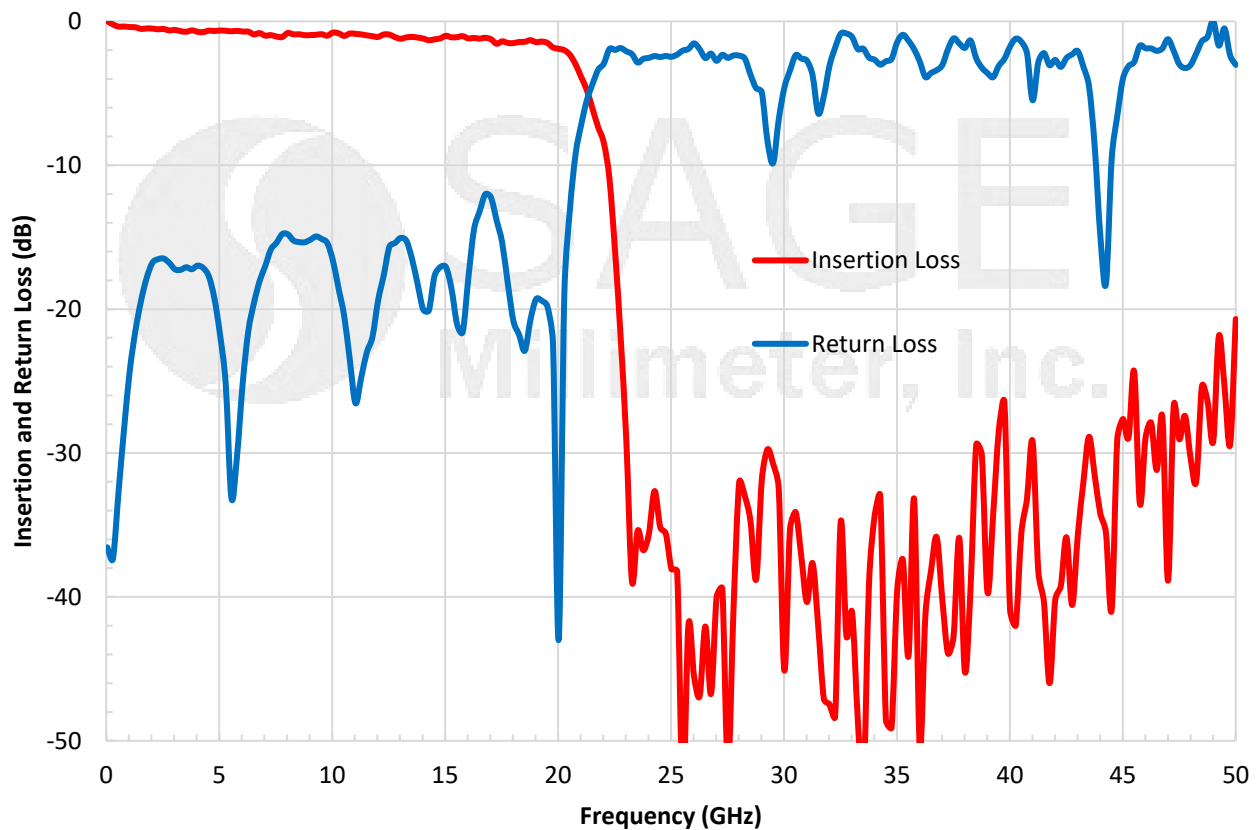
Item	Specifications
RF Ports	K(M) and K(F)
Case Material	Aluminum
Weight	0.5 Oz
Finishing	Nickel Plated
Size	0.75" (L) x 0.39" (W) x 0.59" (H)
Outline	CF-L5-LJ1



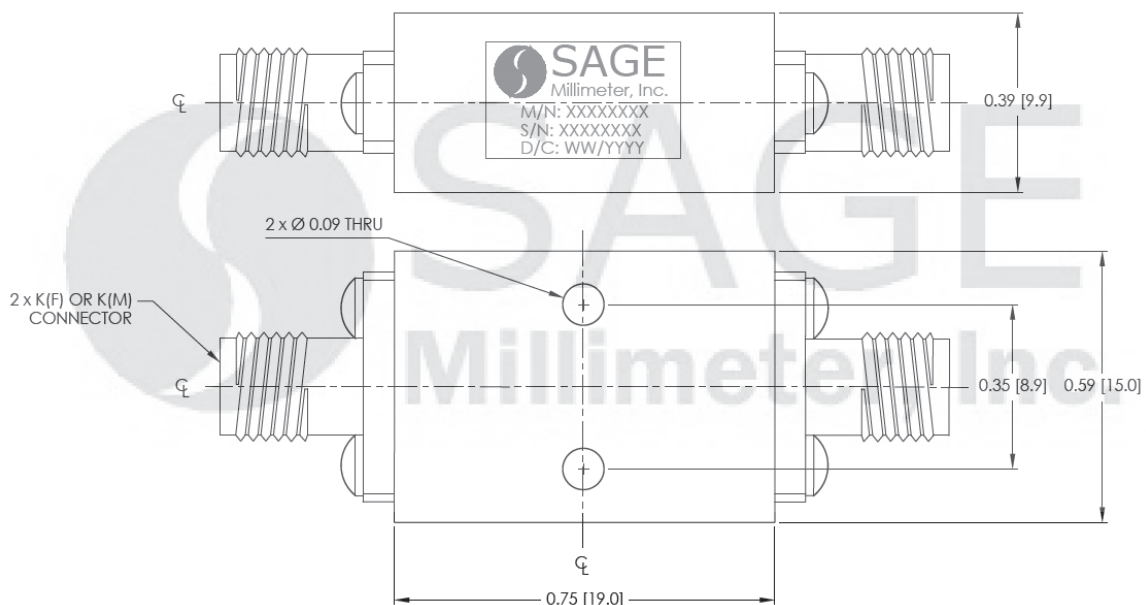


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Typical Insertion and Return Loss vs. Frequency



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



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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.**

