



WR-15 Coaxial Highpass Filter, 43 to 75 GHz Passband, 40 dB Rejection

Description:

Model SCF-43335340-15VVFV-H1 is a coaxial highpass filter with a passband frequency from 43 to 75 GHz. The filter rejects the frequencies from DC to 35 GHz and provides a nominal insertion loss of 1.0 dB in its passband with low ripple. Typical rejection for this model is 40 dB. The RF ports offer female 1.85 mm (V) connectors. However, the models with other connector type, such as male connector, are also available under different model numbers.



Features:

- Low Cost
- Low Insertion Loss
- High Rejection
- DC Short Circuit

Applications:

- Communication Systems
- Radar Systems
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	43 GHz		75 GHz
Passband Insertion Loss		1.0 dB	
Rejection Frequency	DC		35 GHz
Rejection		40 dB	
Passband Return Loss		10 dB	
Impedance		50 Ω	
Power Handling			10 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

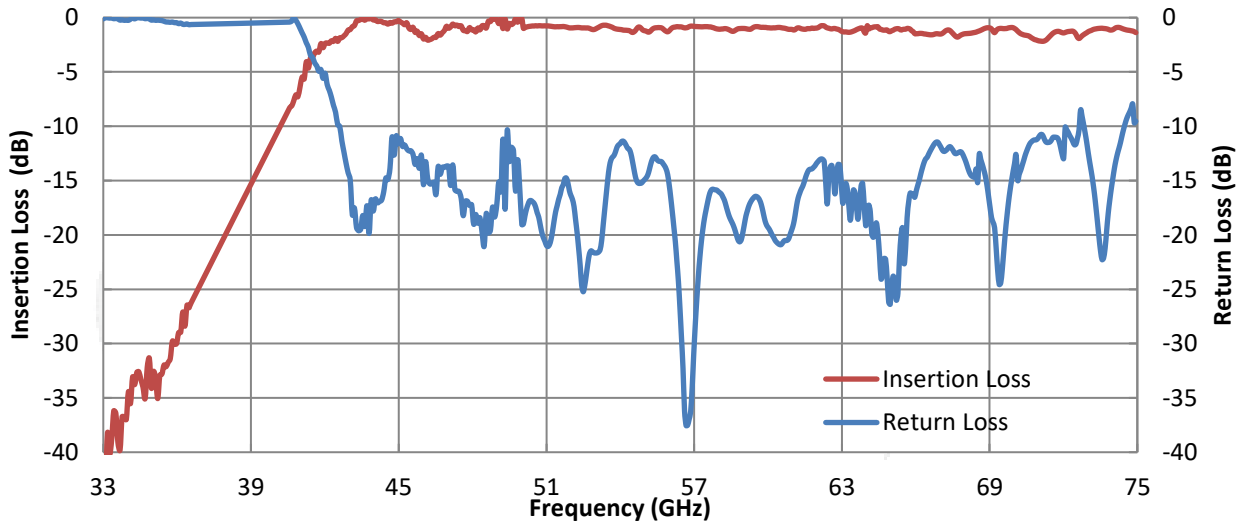
Item	Specifications
RF Ports	1.85 mm (F)
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Size	0.90" (L) x 0.75" (Ø)
Outline	CF-HV-B



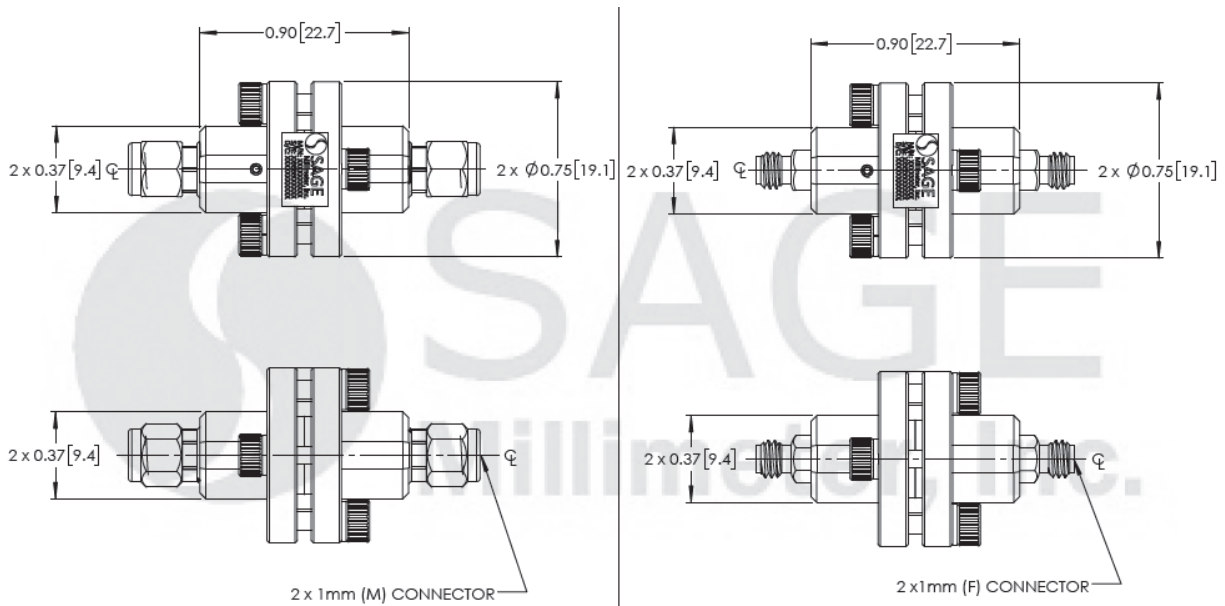


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Typical Insertion and Return Loss vs. Frequency



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 used. **SAGE Millimeter torque wrench, model SCH-08003-U3, is highly recommended.**

