

SCF-51346340-121F1F-H1

Waveguide Highpass Filter, E Band, 51 to 90 GHz

SCF-51346340-121F1F-H1 is a coaxial highpass filter with a passband frequency from 51 to 90 GHz. The filter rejects the frequencies from DC to 43 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 mm connectors. However, the models with other connector type, such as male connector, are also available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	51 GHz		90 GHz
Passband Insertion Loss		1.0 dB	
Rejection Frequency	DC		43 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	Specification
RF Ports	1.00mm (F)
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Size	1.29" (L) X 0.75" (\varnothing)
Outline	CF-HE-B

ECCN

EAR99

FEATURES

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

APPLICATIONS

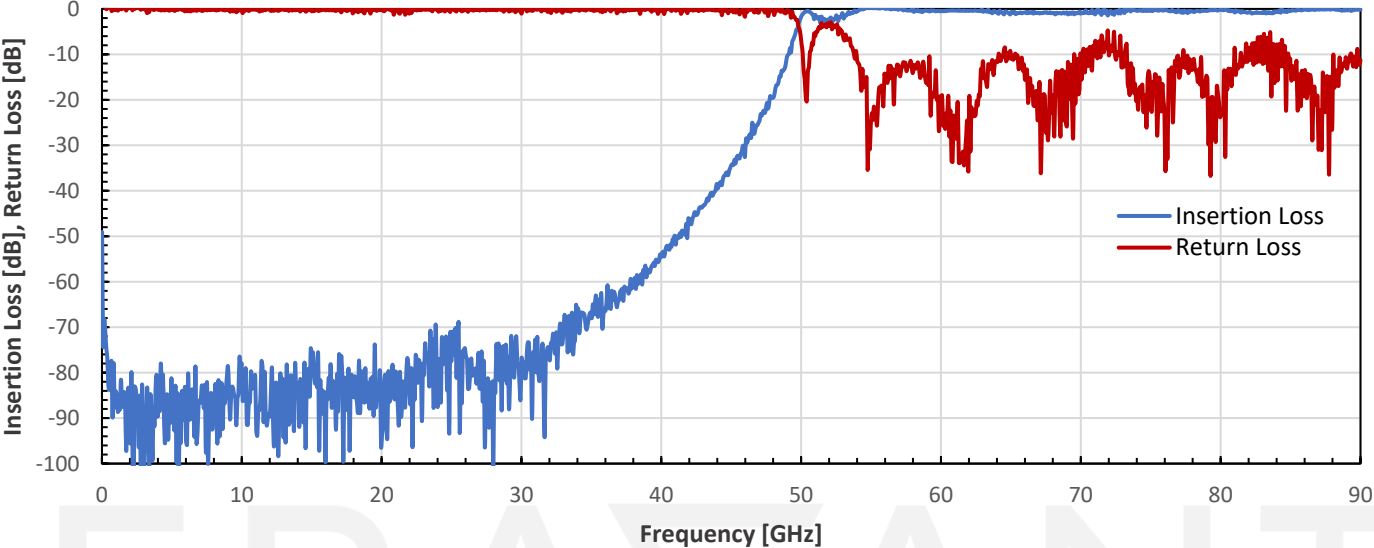
- Communication Systems
- Radar Systems
- Sub-assemblies

SUPPLEMENTAL DETAILS

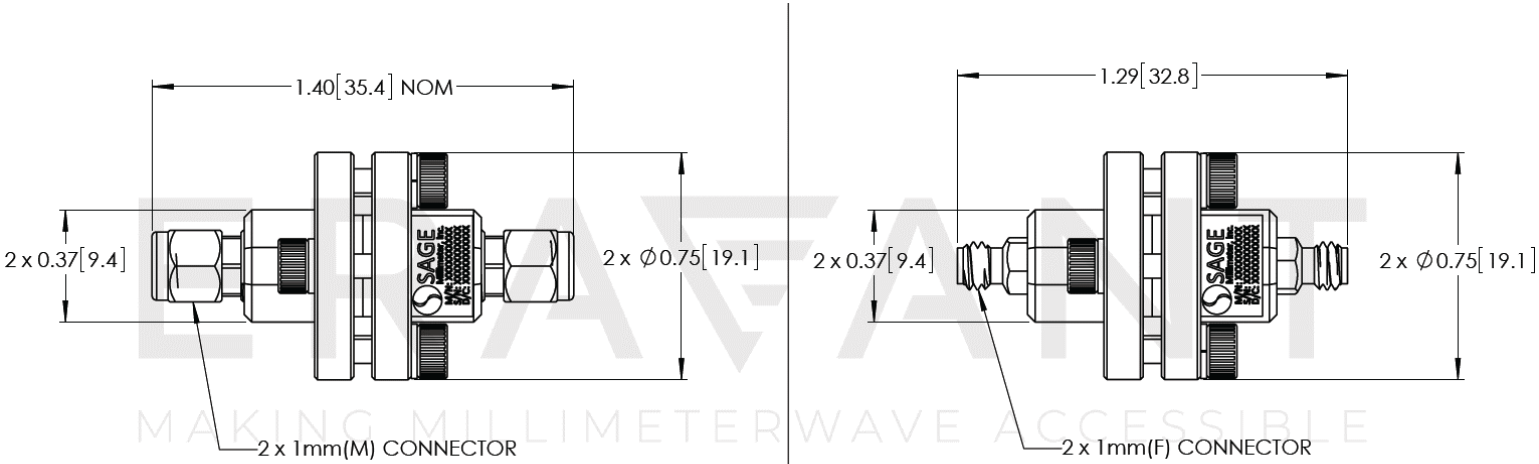


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Typical Rejection vs. Frequency



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



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

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