

SCF-34330340-19VFVF-H1

Coaxial Highpass Filter, 34 to 60 GHz Passband, 40 dB Rejection

SCF-34330340-19VFVF-H1 is a coaxial highpass filter with a passband frequency from 34 to 60 GHz. The filter rejects the frequencies from DC to 30 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 1.85 mm (F) connectors. However, models with other connector types, such as male connectors, are also available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	34 GHz		60 GHz
Passband Insertion Loss		1.0 dB	
Rejection Frequency	DC		30 GHz
Rejection		40 dB	
Passband Return Loss		18 dB	
Impedance		50 Ω	
Power Handling			30 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
RF Ports	1.85 mm (F)
Material	Aluminum
Finish	Gold Plated
Weight	0.8 Oz
Dimensions	1.14" (L) x 1.13" (Ø)
Outline	CF-HU-B-2

ECCN

EAR99

FEATURES

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

APPLICATIONS

- Communication Systems
- Radar Systems
- Sub-assemblies

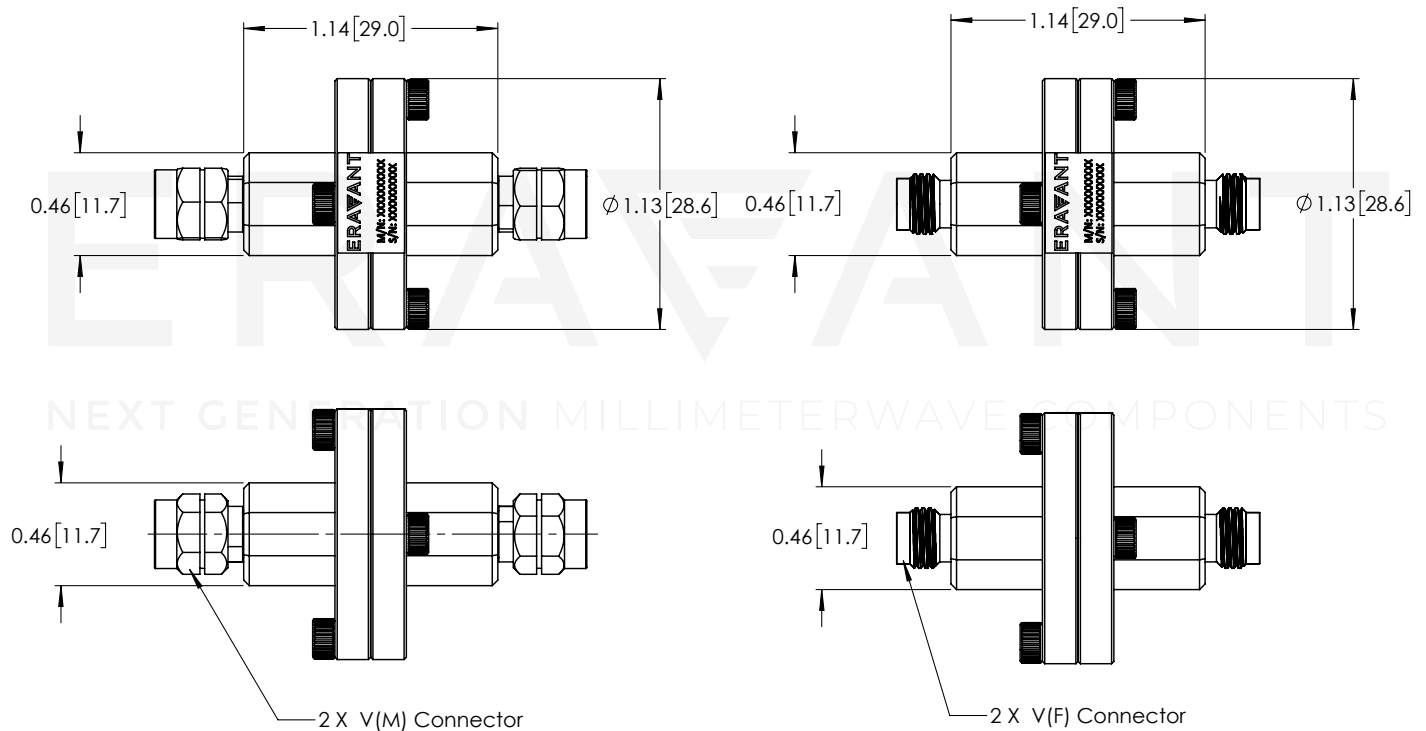
SUPPLEMENTAL DETAILS



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Mechanical Outline:

Unless otherwise specified, all dimensions are in inches [millimeters]



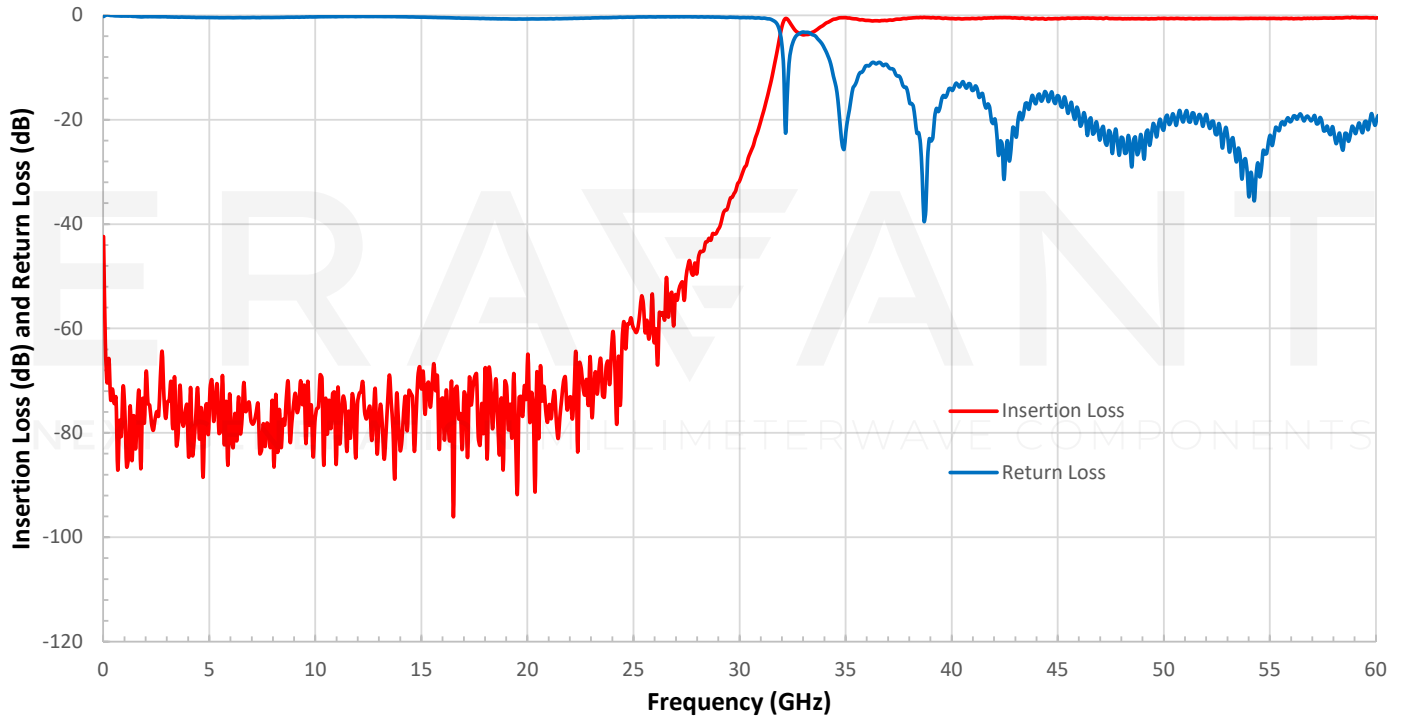
NOTE:

- 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.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- 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.
- Any foreign objects in the antenna will cause performance degradation and possible device damage.
- For 1 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model [SCH-06004-S1](#) is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model [SCH-08008-S1](#) is highly recommended.

Typical Performance vs Frequency



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