

## SCF-34312340-KFKF-B3

### Coaxial Bandpass Filter, 28 to 40 GHz, 40 dB Rejection

**SCF-34312340-KFKF-B3** is a coaxial bandpass filter with a passband frequency of 28.0 to 40.0 GHz. The typical insertion loss of the bandpass filter is 3 dB and the passband ripple is  $\pm 0.75$  dB. The rejection frequencies are 27.5 GHz or less and 43 GHz to 52.5 GHz. The typical rejection is 40 dB and the typical passband return loss of the filter is 14 dB. The RF connectors of the filter are 2.92 mm female connectors. Other configurations are available under different model numbers.



#### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	28.0 GHz		40.0 GHz
Passband Insertion Loss		3 dB	
Passband Ripple		$\pm 0.75$ dB	
Rejection Frequency, Low Side	DC		27.5 GHz
Rejection, Low Side		40 dB	
Rejection Frequency, High Side	43.0 GHz		52.5 GHz
Rejection, High Side		40 dB	
Passband Return Loss		14 dB	
Impedance		50 $\Omega$	
Power Handling			1 W (CW)
Specification Temperature		+25 $^{\circ}$ C	
Operating Temperature	-40 $^{\circ}$ C		+85 $^{\circ}$ C

#### Mechanical Specifications:

Item	Specification
RF Port 1	2.92 mm Female
RF Port 2	2.92 mm Female
Material	Aluminum
Finish	Black Paint
Size	2.62" (L) x 0.71" (W) x 0.34" (H)
Outline	CF-BA-LJ7

#### ECCN

EAR99

#### FEATURES

- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts
- Field Replaceable RF Connectors

#### APPLICATIONS

- Instrumentations
- Sub-Assemblies
- System Integrations

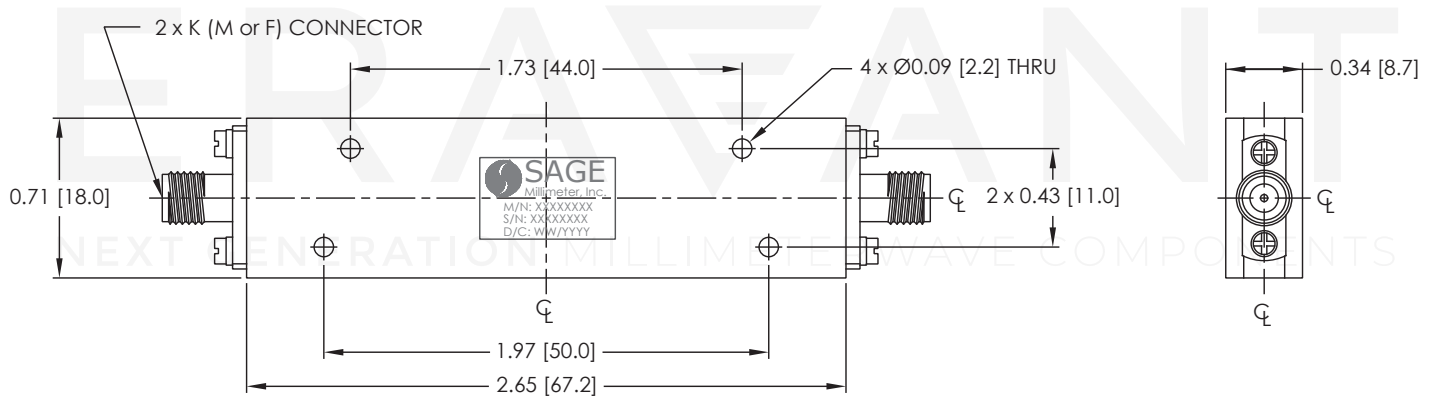
#### SUPPLEMENTAL DETAILS



## SCF-34312340-KFKF-B3

### Mechanical Outline:

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



### NOTE:

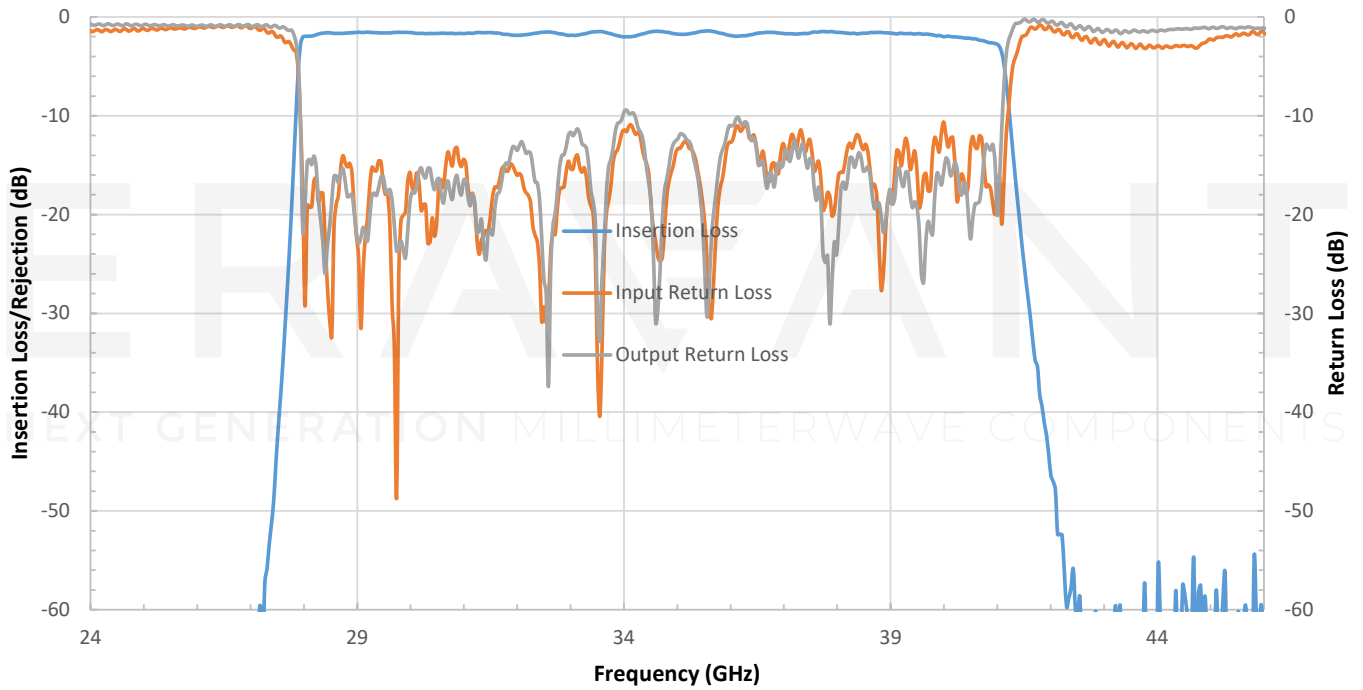
- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right 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:  $4.0 \pm 0.15$  inch-pounds ( $0.45 \pm 0.02$  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:  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm). Torque wrench model [SCH-08008-S1](#) is highly recommended.

## SCF-34312340-KFKF-B3

### Insertion Loss & Return Loss vs. Frequency



# ERAVANT

NEXT GENERATION MILLIMETERWAVE COMPONENTS