

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

### Description:

**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 24 to 27.5 GHz and 43 GHz or higher. The typical rejection is 40 dB and the typical passband return loss of the filter is 10 dB. The RF connectors of the filter are 2.92 mm Female connectors. Other configurations are available under different model numbers.



### Features:

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

### Applications:

- Instrumentations
- Sub-assemblies
- System Integrations

### Electrical Specifications:

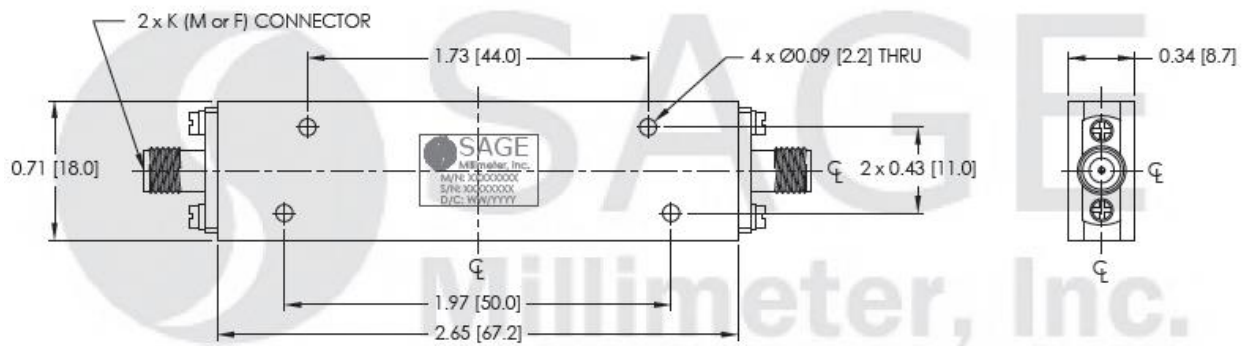
Parameter	Minimum	Typical	Maximum
Passband Frequency	28.0 GHz		40.0 GHz
Passband Insertion Loss		3 dB	
Passband Ripple		$\pm 0.75$ dB	
Rejection Frequency, Low Side	24 GHz		27.5 GHz
Rejection, Low Side		40 dB	
Rejection Frequency, High Side	43.0 GHz		
Rejection, High Side		40 dB	
Passband Return Loss		10 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	Specifications
RF Port 1	2.92 mm Female
RF Port 2	2.92 mm Female
Material	Aluminum
Finish	Black Paint
Size	2.65"(L) x 0.71"(W) x 0.34"(H)
Outline	CF-BA-LJ7

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



**Note:**

- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

**Caution:**

- Proper torque,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-U3, is highly recommended.**

