



## Coaxial Bandpass Filter, 4.0 to 12.0 GHz

### Description:

**SCF-08308320-SFSF-B1** is a coaxial bandpass filter to pass the frequency of 4 to 12 GHz. The maximum insertion loss of the bandpass filter is 2.0 dB and passband ripple is  $\pm 0.5$  dB. The minimum rejection frequencies at 3.5 GHz or less and 12.5 GHz or higher and is 20 dB. The RF connectors of the the filter are SMA (F) connectors. The passband return loss of the filter is 10 dB minimum.



### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	4.0 GHz		12.0 GHz
Passband Insertion Loss		1.5 dB	2 dB
Low Side Rejection Frequency	DC		3.5 GHz
Low Side Rejection Value	20 dB	25 dB	
High Side Rejection Frequency	12.5 GHz		20 GHz
High Side Rejection Value	20 dB	25 dB	
Passband Return Loss	10 dB		
Impedance		50 $\Omega$	
Specification Temperature		+25 $^{\circ}$ C	
Operating Temperature	-40 $^{\circ}$ C		+85 $^{\circ}$ C

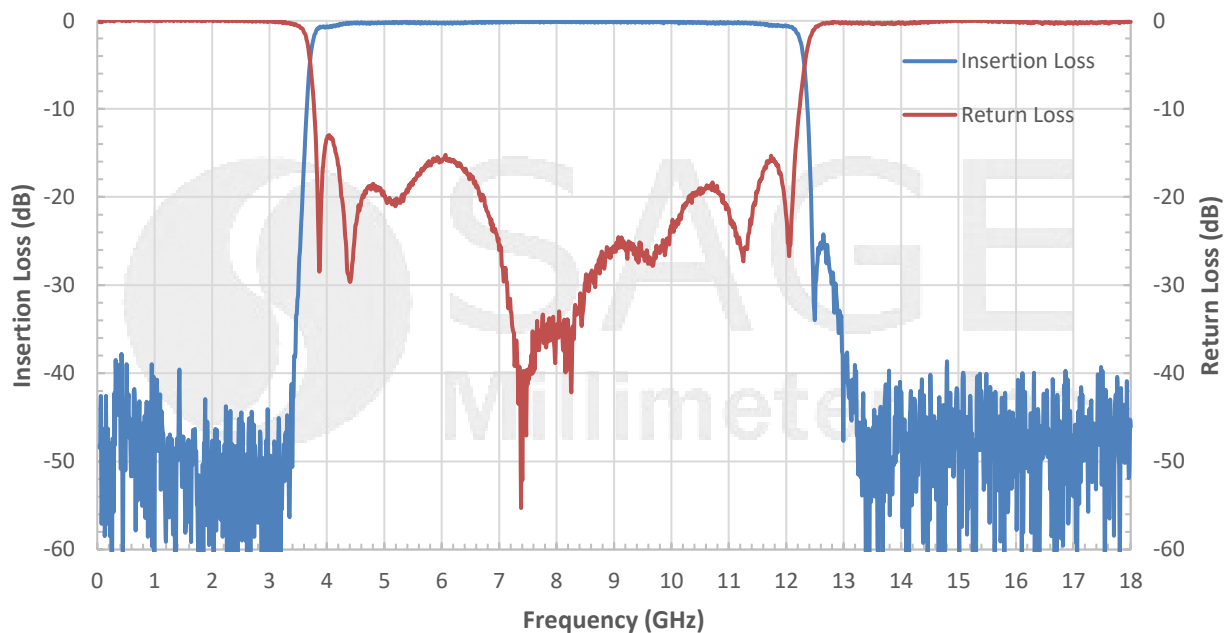
### Mechanical Specifications:

Item	Specifications
RF Ports	SMA (F)
Case Material	Aluminum
Finishing	Black Paint
Size	1.57" (L) x 0.79" (W) x 0.39" (H)
Outline	CF-BGX-LJ2

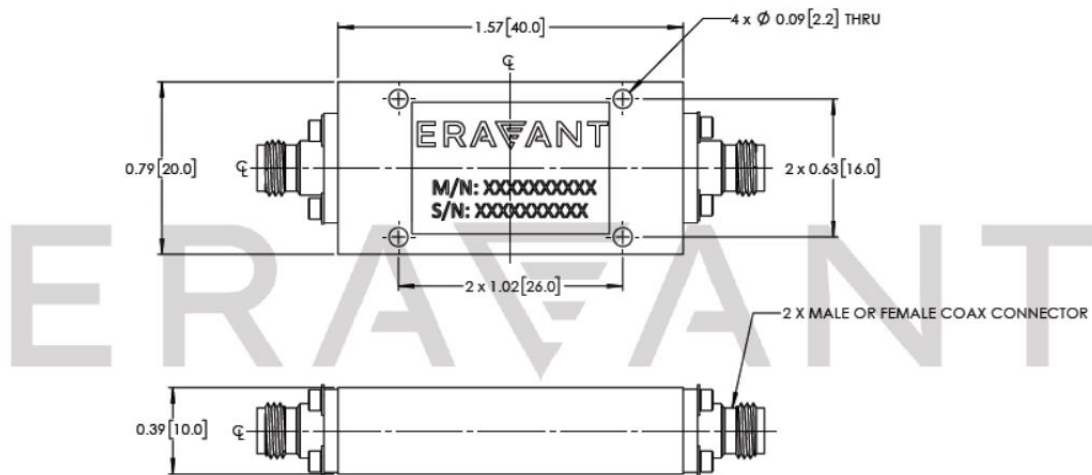


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### Typical Performance Vs Frequency



### Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



### Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- 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 applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

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