



## Coaxial Bandpass Filter, 90 to 150 MHz

### Description:

**SCF-12106130-SFSF-B3** is a coaxial bandpass filter with a passband frequency of 90 to 150 MHz. The typical insertion loss of the bandpass filter is 1.5 dB and the passband ripple is  $\pm 0.4$  dB. The rejection frequencies are 60 MHz or less and 180 MHz or higher. The typical rejection is 30 dB and the typical passband return loss of the filter is 14 dB. The RF connectors of the the filter are SMA Female connectors. Other configurations are available under different model numbers.



### Features:

- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

### Applications:

- Instrumentation
- Sub-assemblies
- System Integration

### Electrical Specifications:

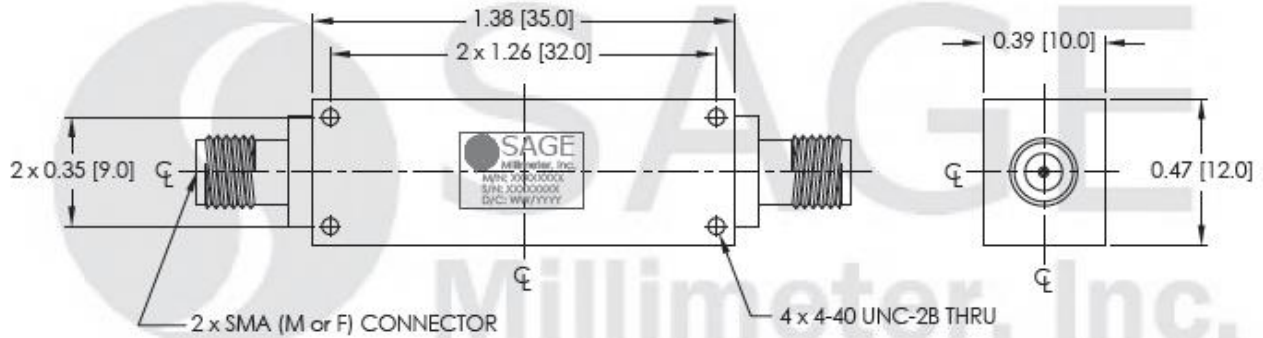
Parameter	Minimum	Typical	Maximum
Passband Frequency	90 MHz		150 MHz
Passband Insertion Loss		1.5 dB	
Passband Ripple		$\pm 0.4$ dB	
Rejection Frequency, Low Side	DC		60 MHz
Rejection, Low Side		30 dB	
Rejection Frequency, High Side	180 MHz		
Rejection, High Side		30 dB	
Passband Return Loss		14 dB	
Group Delay		10 ns	
Impedance		50 $\Omega$	
Power Handling			1 W (CW)
Specification Temperature		+25 $^{\circ}$ C	
Operating Temperature	-40 $^{\circ}$ C		+70 $^{\circ}$ C

### Mechanical Specifications:

Item	Specifications
RF Port 1	SMA Female
RF Port 2	SMA Female
Material	Aluminum
Finish	Black Paint
Outline	CF-B1000770-LJ1

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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.**

