



Coaxial Bandpass Filter, 18 to 24 GHz

Description:

Model SCF-21306340-SFSF-B3 is a coaxial bandpass filter with a passband frequency from 18 to 24 GHz. The typical passband insertion loss is 3.0 dB and the typical passband ripple is ± 0.75 dB. The rejection frequencies are DC to 16.5 GHz and 24.25 to 30 GHz. The typical rejection value is 40 dB and the typical passband return loss is 10 dB. The RF ports of the filter are female SMA connectors. Other configurations, such as different connectors for input and output, 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	18.0 GHz		24.0 GHz
Passband Insertion Loss		3.0 dB	
Passband Ripple		± 0.75 dB	
Rejection Frequency, Low Side	DC		16.5 GHz
Rejection, Low Side		40 dB	
Rejection Frequency, High Side	24.25 GHz		30.0 GHz
Rejection, High Side		40 dB	
Passband Return Loss		10 dB	
Impedance		50 Ω	
Power Handling			1 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

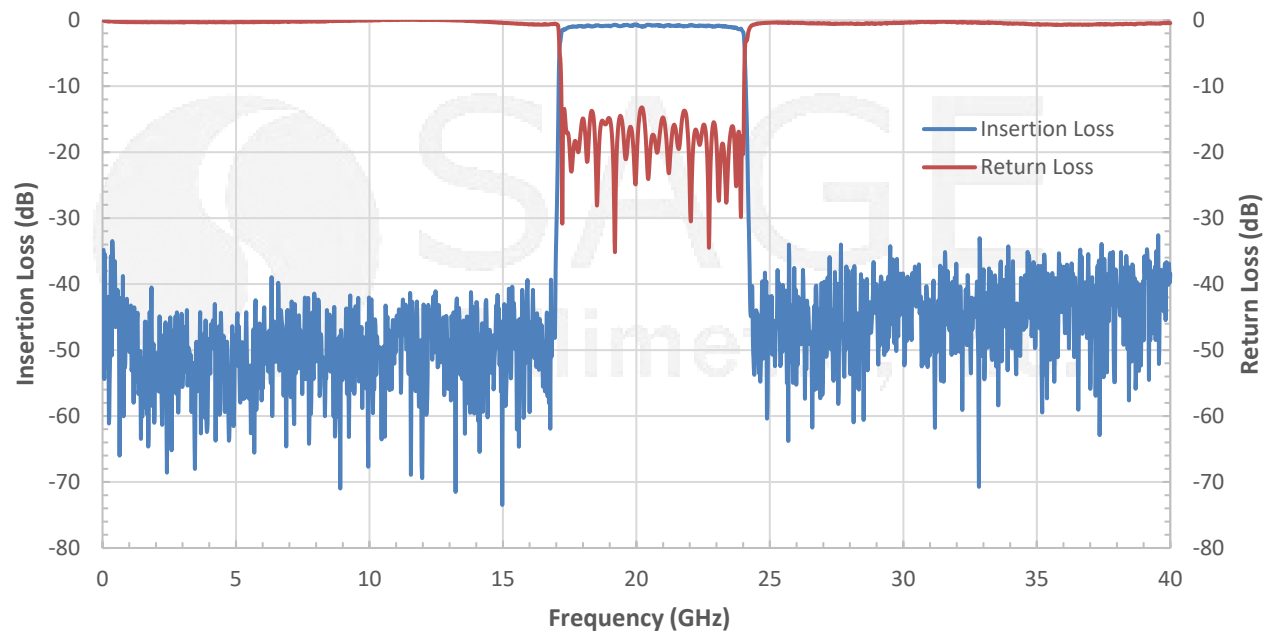
Mechanical Specifications:

Item	Specifications
RF Port 1	SMA Female
RF Port 2	SMA Female
Material	Aluminum
Finish	Black Paint
Size	3.66" (L) x 0.79" (W) x 0.30" (H)
Outline	CF-BKA-LJ3

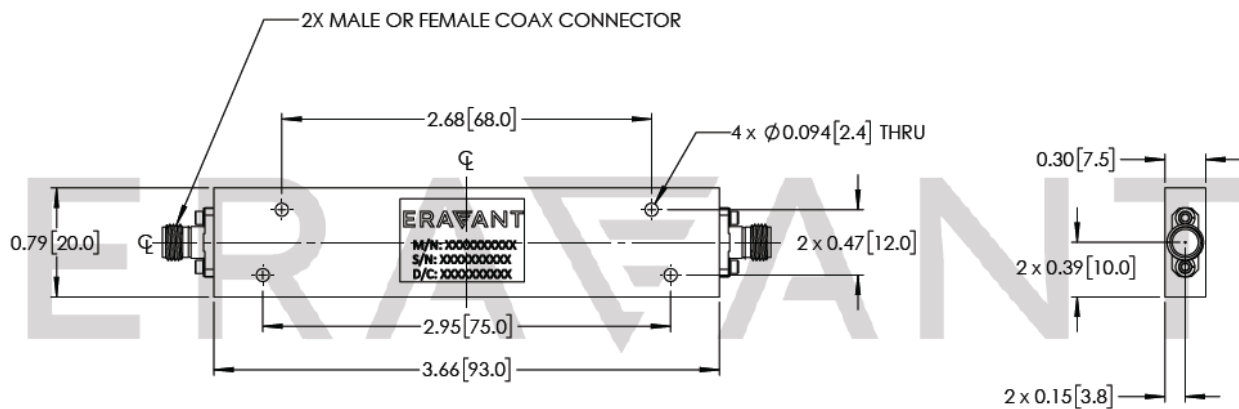


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Typical Performance Vs Frequency



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



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- 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.**