

Coaxial Bandpass Filter, 29.3 to 30.3 GHz

Description:

SCF-30301360-KFKF-B3 is a coaxial bandpass filter with a passband frequency of 29.3 to 30.3 GHz. The typical insertion loss of the bandpass filter is 3 dB and the passband ripple is ± 0.5 dB. The rejection frequencies are 28 GHz or less and 31.5 GHz or higher. The typical rejection is 60 dB and the typical passband return loss of the filter is 11 dB. The RF connectors of the 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:

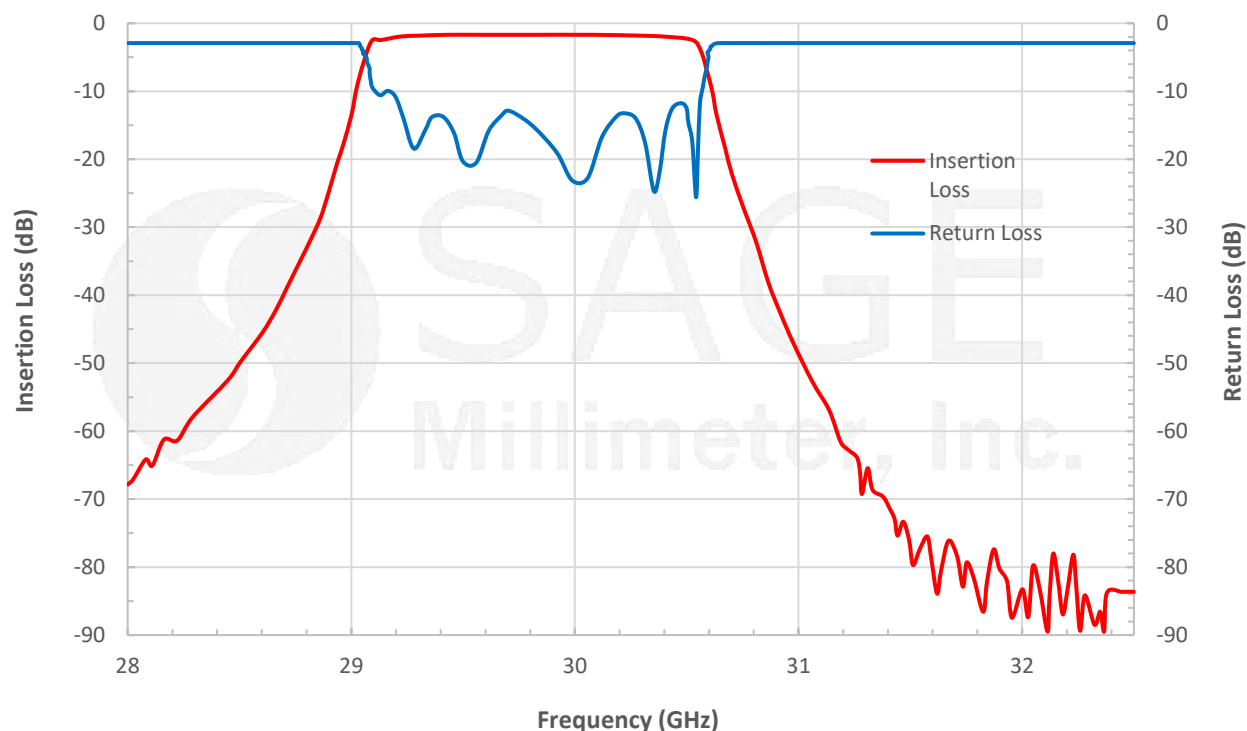
Parameter	Minimum	Typical	Maximum
Passband Frequency	29.3 GHz		30.3 GHz
Passband Insertion Loss		3 dB	
Passband Ripple		± 0.5 dB	
Rejection Frequency, Low Side	DC		28 GHz
Rejection, Low Side		60 dB	
Rejection Frequency, High Side	31.5 GHz		
Rejection, High Side		60 dB	
Passband Return Loss		11 dB	
Impedance		50 Ω	
Power Handling			5 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

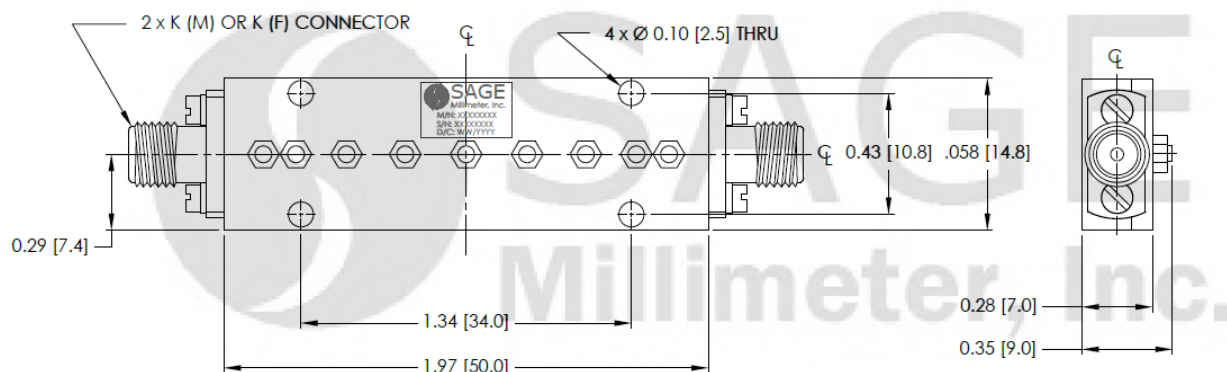
Item	Specifications
RF Port 1	2.92 mm Female
RF Port 2	2.92 mm Female
Material	Aluminum
Finish	Black Paint
Outline	CF-B3-LJ2

Coaxial Bandpass Filter, 29.3 to 30.3 GHz

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-U3, is highly recommended.**