SCF-28315250-KFKF-B3

Rev 1.0

Coaxial Bandpass Filter, 27 to 28.5 GHz, 50 dB Rejection

Description:

SCF-28315250-KFKF-B3 is a coaxial bandpass filter with a passband frequency of 27 to 28.5 GHz. The typical insertion loss of the bandpass filter is 2 dB and the passband ripple is ±0.5 dB. The rejection frequencies are 25.5 GHz or less and 30 GHz to 40 GHz. The typical rejection is 50 dB and the typical passband return loss of the filter is 12 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	27 GHz		28.5 GHz
Passband Insertion Loss		2 dB	
Passband Ripple		±0.5 dB	
Rejection Frequency, Low Side	DC		25.5 GHz
Rejection, Low Side		50 dB	
Rejection Frequency, High Side	30 GHz		40 GHz
Rejection, High Side		50 dB	
Passband Return Loss		12 dB	
Impedance		50 Ω	
Power Handling			5 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+70 °C

Mechanical Specifications:

Item	Specifications
RF Port 1	2.92 mm (K) Female
RF Port 2	2.92 mm (K) Female
Material	Aluminum
Finish	Black Paint
Size	1.62” (L) x 0.65” (W) x 0.27” (H)
Outline	CF-BA-LJ9

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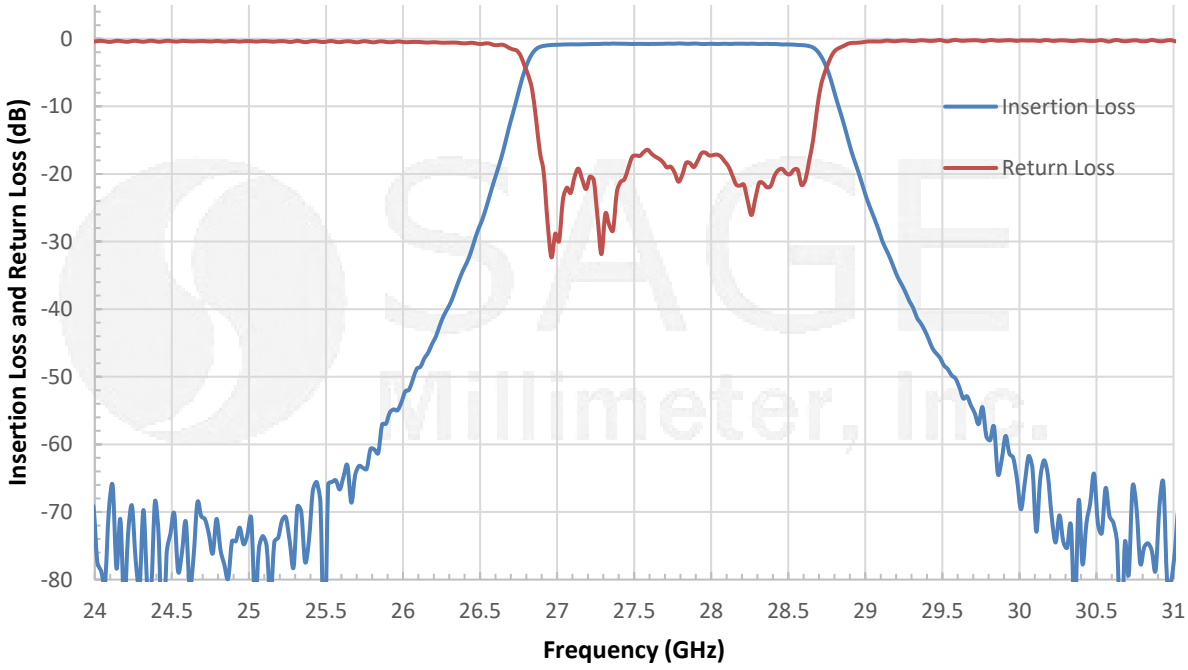
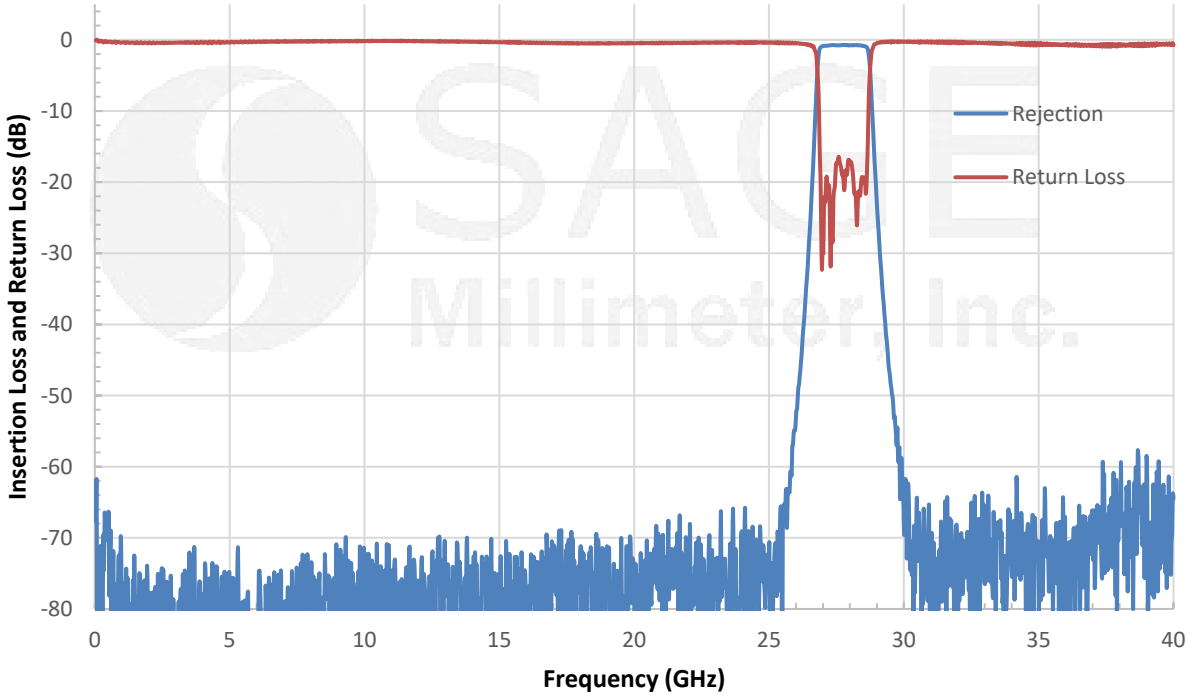
Typical Performance vs. Frequency



Rejection vs. Frequency



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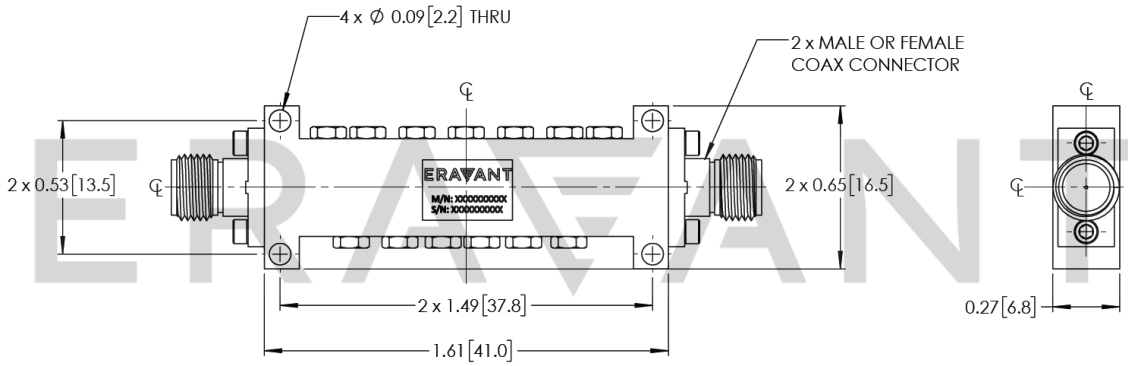
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- Eravant 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. **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**

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