

Coaxial Bandpass Filter, 25.5 to 27 GHz, 70 dB Rejection

SCF-26315270-KFKF-B3 is a coaxial bandpass filter with a passband frequency of 25.5 to 27 GHz. The maximum insertion loss of the bandpass filter is 2 dB and the passband ripple is ± 0.5 dB. The rejection frequencies are DC to 24 GHz and 28.5 GHz to 40 GHz. The minimum rejection is 70 dB and the typical passband return loss of the filter is 10 dB. The RF connectors of the filter are 2.92 mm Female connectors. Other configurations are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	25.5 GHz		27 GHz
Passband Insertion Loss			2.0 dB
Passband Ripple			± 0.5 dB
Rejection Frequency, Low Side	DC		24 GHz
Rejection @ DC-23.5 GHz	80 dB		
Rejection @ 24 GHz	70 dB		
Rejection Frequency, High Side	28.5 GHz		40 GHz
Rejection, High Side	75 dB		
Passband Return Loss	10 dB		
Impedance		50 Ω	
Power Handling			5 W (CW)
Specification Temperature		+25 $^{\circ}\text{C}$	
Operating Temperature	-40 $^{\circ}\text{C}$		+85 $^{\circ}\text{C}$

Mechanical Specifications:

Item	Specification
RF Port 1	2.92 mm (K) Female
RF Port 2	2.92 mm (K) Female
Material	Aluminum
Finish	Black Paint
Length	2.13" (L) x 0.51" (W) x 0.28" (H)
Outline	CF-BA-LJ10

ECCN

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FEATURES

- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts
- Field Replaceable RF Connectors

APPLICATIONS

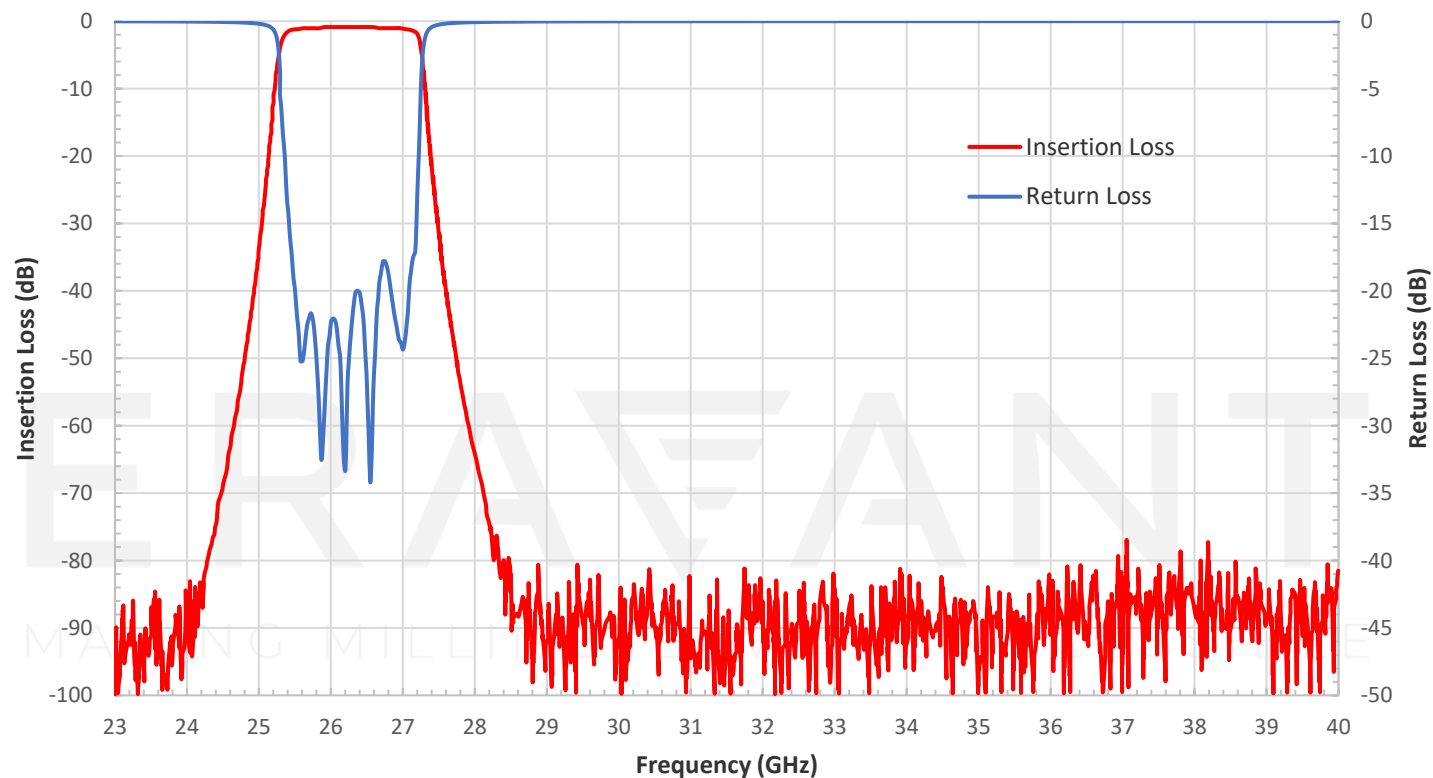
- Instrumentations
- Sub-assemblies
- System Integrations

SUPPLEMENTAL DETAILS

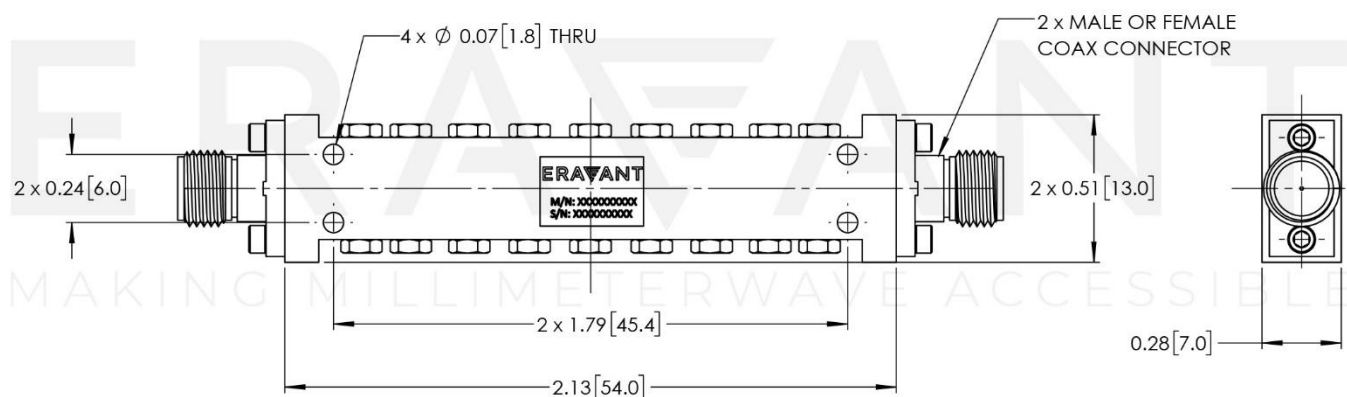


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Typical Performance vs. Frequency



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 slightly from unit to unit.
- All testing is performed under +25 °C case temperature.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- Proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended.

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