

SCF-50356220-VFVF-BB

Coaxial Bandpass Filter, 47 to 52.6 GHz, 20 dB Rejection

SCF-50356220-VFVF-BB is a coaxial bandpass filter with a passband frequency of 47 to 52.6 GHz. The typical insertion loss of the bandpass filter is 2.0 dB and the maximum ripple within bandwidth of the bandpass filter is 1.0 dB. The rejection frequencies are 46.5 GHz or less and 53.1 GHz or higher. The minimum rejection is 20 dB and the typical passband return loss of the filter is 12 dB. The RF connectors of the filter are 1.85 mm (V) Female connectors. Other configurations are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	47 GHz		52.6 GHz
Passband Insertion Loss		2.0 dB	
Ripple within Bandwidth			1.0 dB
Rejection @ 46.5 GHz	20 dB		
Rejection @ 53.1 GHz	20 dB		
Passband Return Loss	10 dB	12 dB	
Impedance		50 Ω	
Specification Temperature		+25 °C	
Operating Temperature	-10 °C		+50 °C

Mechanical Specifications:

Item	Specification
RF Port 1	1.85 mm (V) Female
RF Port 2	1.85 mm (V) Female
Material	Aluminum
Finish	Black Paint
Length	1.91"
Outline	CF-BU-CD1

ECCN

EAR99

FEATURES

- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

APPLICATIONS

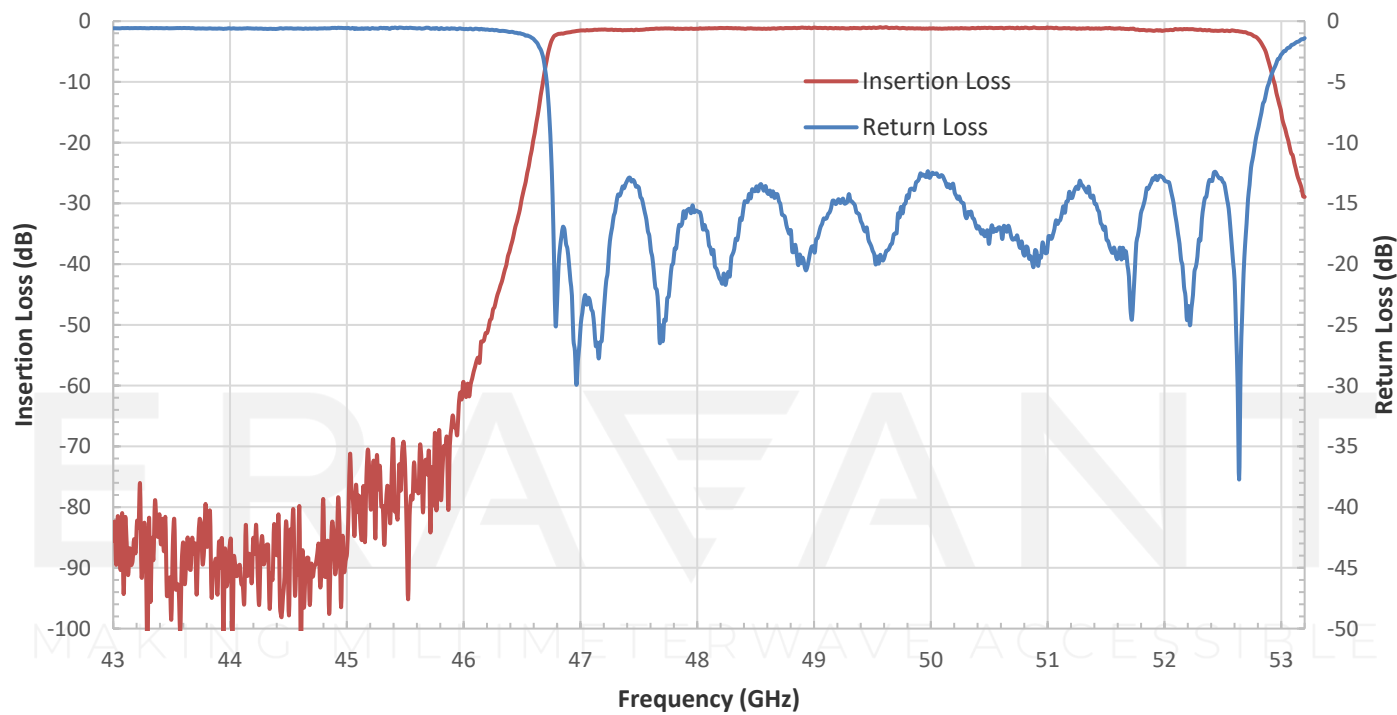
- Instrumentations
- Sub-assemblies
- System Integrations

SUPPLEMENTAL DETAILS

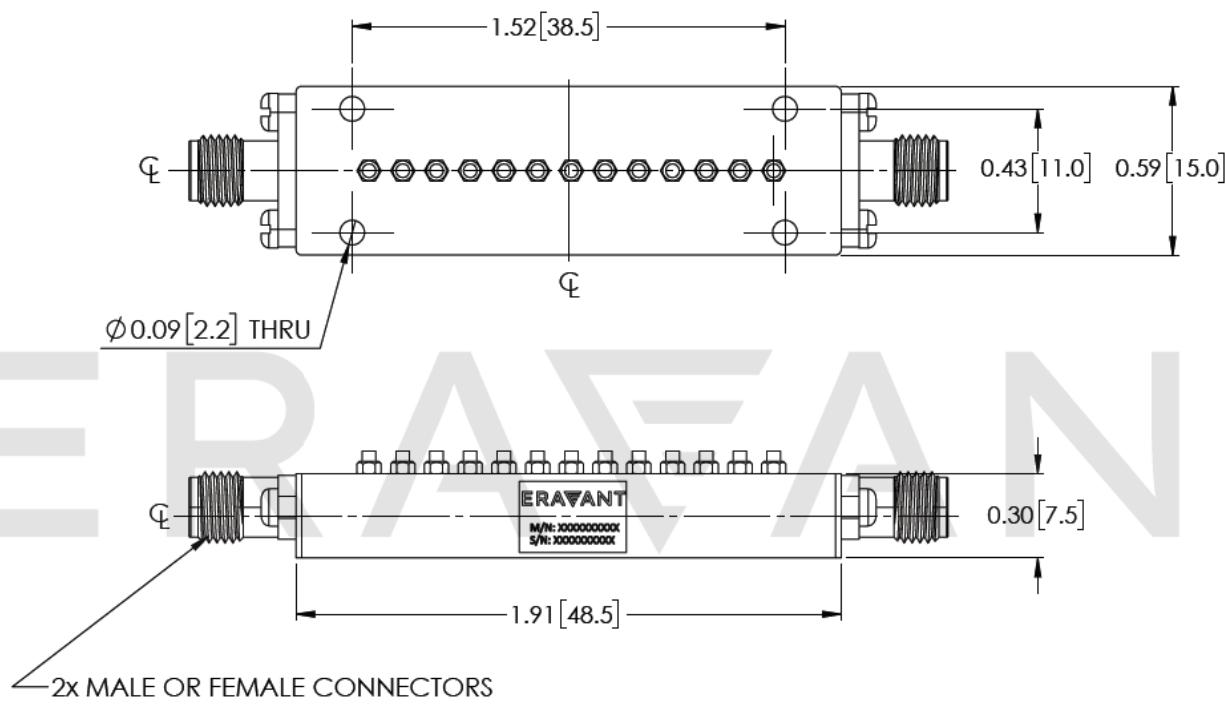


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Typical Performance vs. Frequency



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.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors 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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