

WR-51 Waveguide Lowpass Filter, 15 to 22 GHz

SWF-22325340-51-L1 is a WR-51 waveguide lowpass filter with a passband frequency from 15 to 22 GHz and a rejection frequency 25 to 40 GHz. Due to the waveguide cut off nature, the low side of the filter has rejection range of DC to 11.5 GHz. The filter provides a nominal insertion loss of 1.0 dB across its passband and a typical rejection of 40 dB. Since the high end cutoff frequency can be changed by modifying the design, custom designs can be offered under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency Range	15 GHz		22 GHz
Passband Insertion Loss		1 dB	
Rejection Frequency, Low Side	DC		11.5 GHz
Rejection Frequency, High Side	25 GHz		40 GHz
Rejection		40 dB	
Passband Return Loss		20 dB	
Power Handling			100 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide	WR-51 Waveguide with Standard Flange
Material	Aluminum
Finish	Gold Plated
Weight	6.8 Oz
Outline	WF-L5

ECCN

EAR99

FEATURES

- Low Insertion Loss
- High Rejection

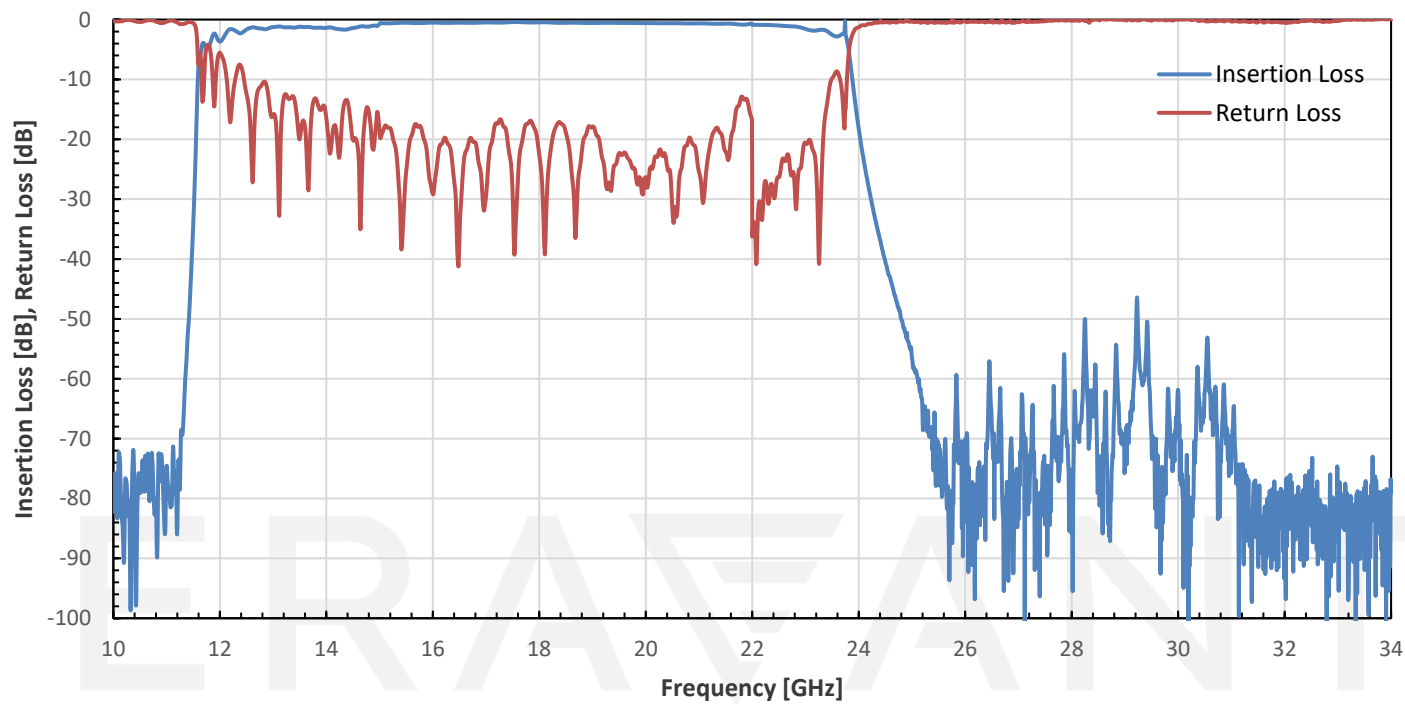
APPLICATIONS

- Test Labs
- Instrumentations
- Sub-assemblies

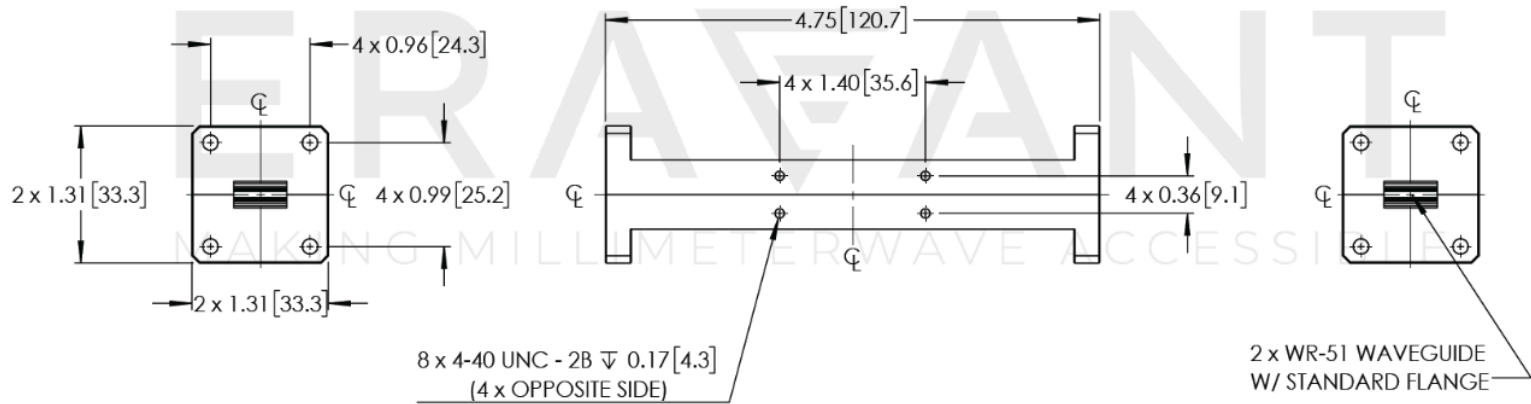
SUPPLEMENTAL DETAILS



Typical Rejection vs. Frequency



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



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

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