SWF-42316350-22-B1

Waveguide Bandpass Filter, Q Band, 34 to 50 GHz

SWF-42316350-22-B1 is a Q band waveguide bandpass filter with a passband frequency of 34 to 50 GHz and rejection frequencies from DC to 28 GHz and 54 to 65 GHz. The nominal insertion loss of the bandpass filter is 2 dB and the typical rejection is 50 dB. Since both low end and high end cut off frequencies can be selected by modifying the design, custom designs are available under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency Range	34 GHz		50 GHz
Passband Insertion Loss		2 dB	
Passband Insertion Loss		±0.25 dB	
Rejection Frequency, Low Side	DC		28 GHz
Rejection Frequency, High Side	54 GHz		65 GHz
Rejection		50 dB	
Passband Return Loss		15 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide	WR-22 Waveguide with UG-383/U Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	6.5 Oz
Outline	WF-LQ-A

ECCN

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FEATURES

- Low Cost
- Low Insertion Loss
- High Rejection

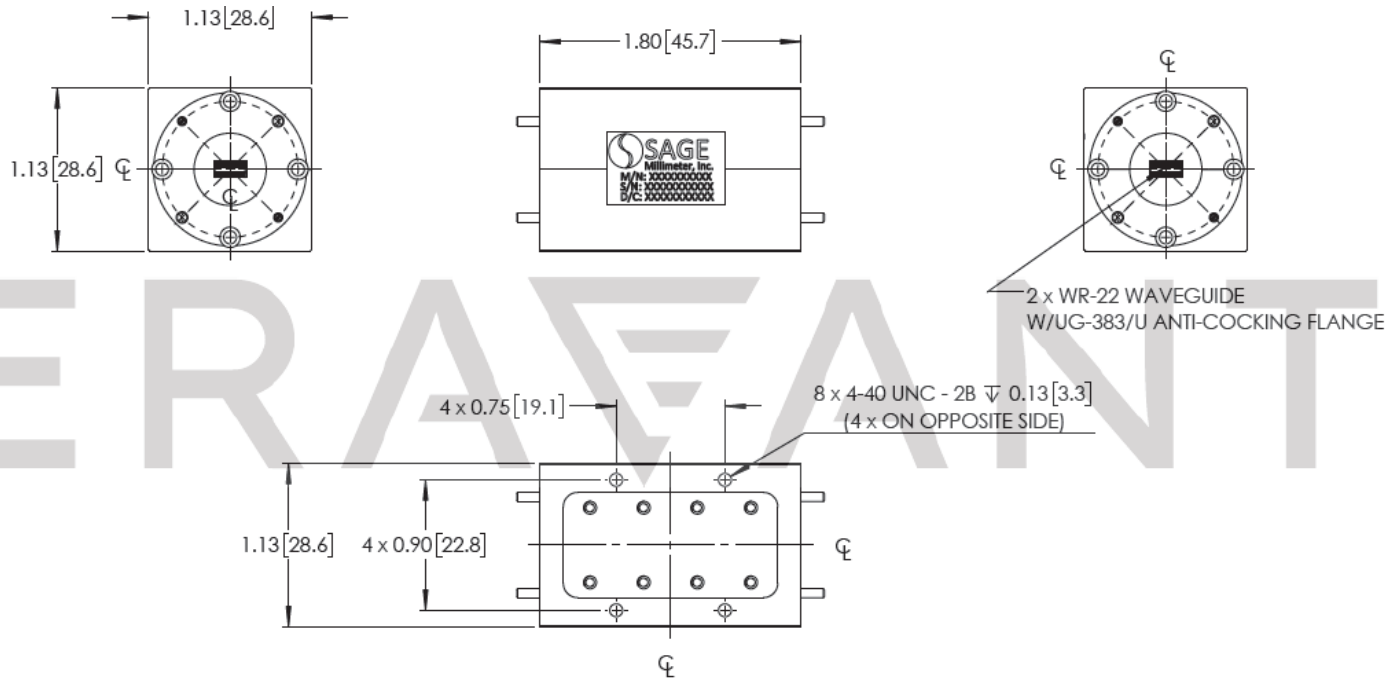
APPLICATIONS

- Communication Systems
- Radar Systems
- Sub-assemblies

SUPPLEMENTAL DETAILS

Mechanical Outline:

Unless otherwise specified, all dimensions are in inches [millimeters])



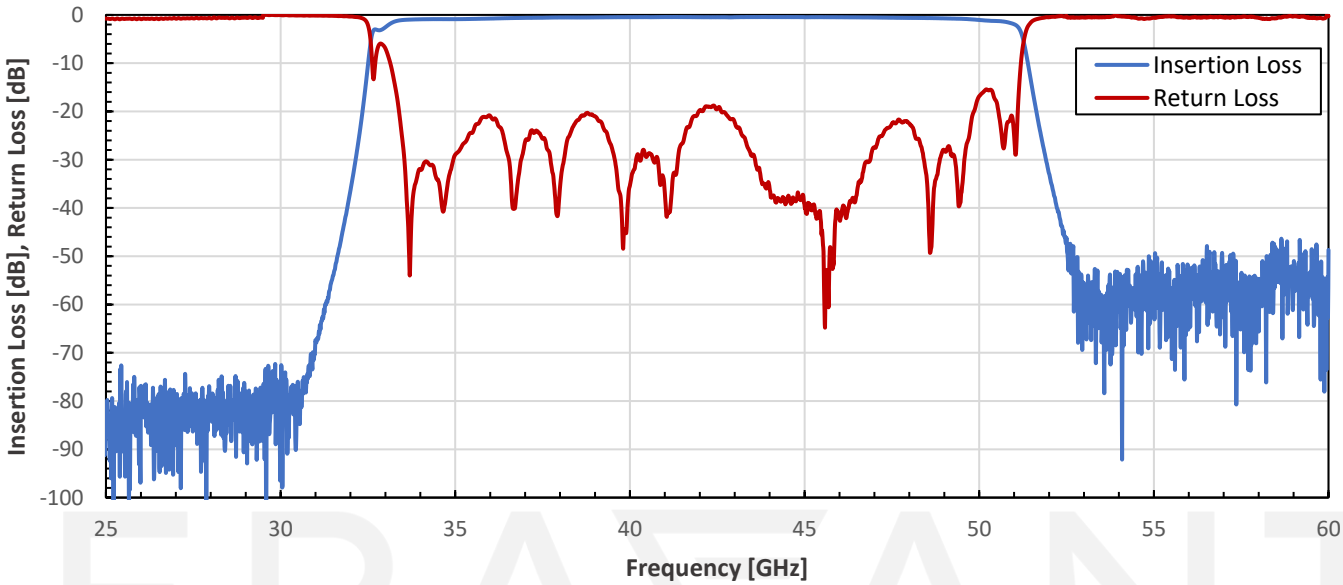
NOTE:

- 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.

Typical Rejection vs. Frequency



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