

SWF-49303350-22-B1

Waveguide Bandpass Filter, Q Band, 47 to 50 GHz

SWF-49303350-22-B1 is a Q band waveguide bandpass filter with a passband frequency of 47 to 50 GHz and rejection frequencies from DC to 43 GHz and 54 to 60 GHz. The nominal insertion loss of the bandpass filter is 2.0 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	47 GHz		50 GHz
Passband Insertion Loss		2.0 dB	
Rejection Frequency, Low Side	DC		43 GHz
Rejection Frequency, High Side	54 GHz		60 GHz
Rejection, Low Side	30 dB	50 dB	
Rejection, High Side	40 dB	50 dB	
Passband Return Loss		14 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide Port	WR-22 Waveguide with UG-383/U Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	1.2 Oz
Outline	WF-BQ-A

ECCN

EAR99

FEATURES

- Low Cost
- Low Insertion Loss
- High Rejection

APPLICATIONS

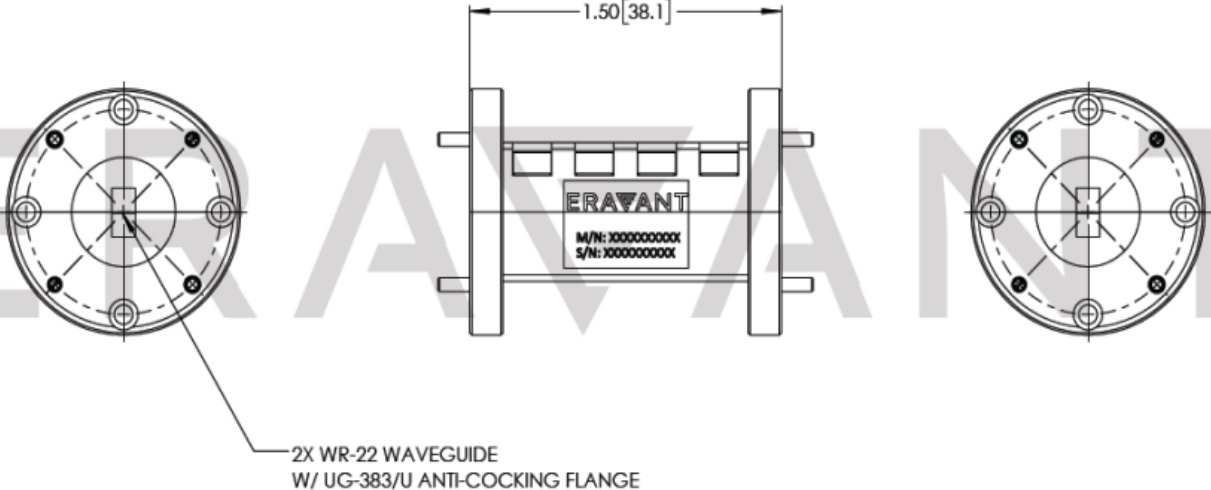
- Communication Systems
- Radar Systems
- Sub-assemblies

SUPPLEMENTAL DETAILS

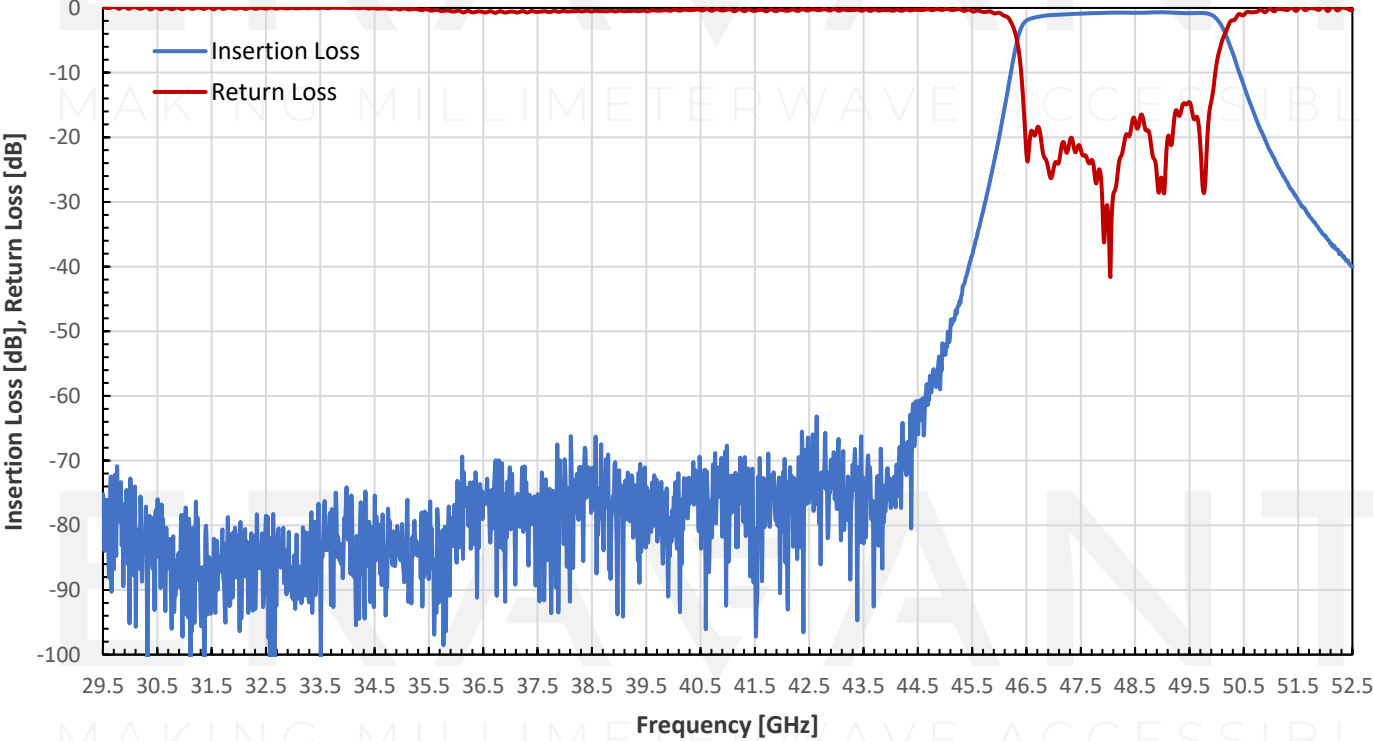


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Typical Rejection vs. Frequency



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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