SWF-21430340-04-B1

Waveguide Bandpass Filter, WR-04 Band, 200 to 230 GHz

SWF-21430340-04-B1 is an WR-04 waveguide bandpass filter with a passband frequency of 200 to 230 GHz. The bandpass filter has rejection frequencies from DC to 191 GHz with a typical rejection of 40 dB and 252 to 277 GHz with a typical rejection of 30 dB. The nominal insertion loss of the bandpass filter is 1.6 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	200 GHz		230 GHz
Passband Insertion Loss		1.6 dB	
Rejection Frequency, Low Side	DC		191 GHz
Rejection Frequency, High Side	252 GHz		277 GHz
Rejection, Low Side		40 dB	
Rejection, High Side		30 dB	
Passband Return Loss		14 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide	WR-04 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	1.1 Oz
Outline	WF-B04-A-0.5

ECCN

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FEATURES

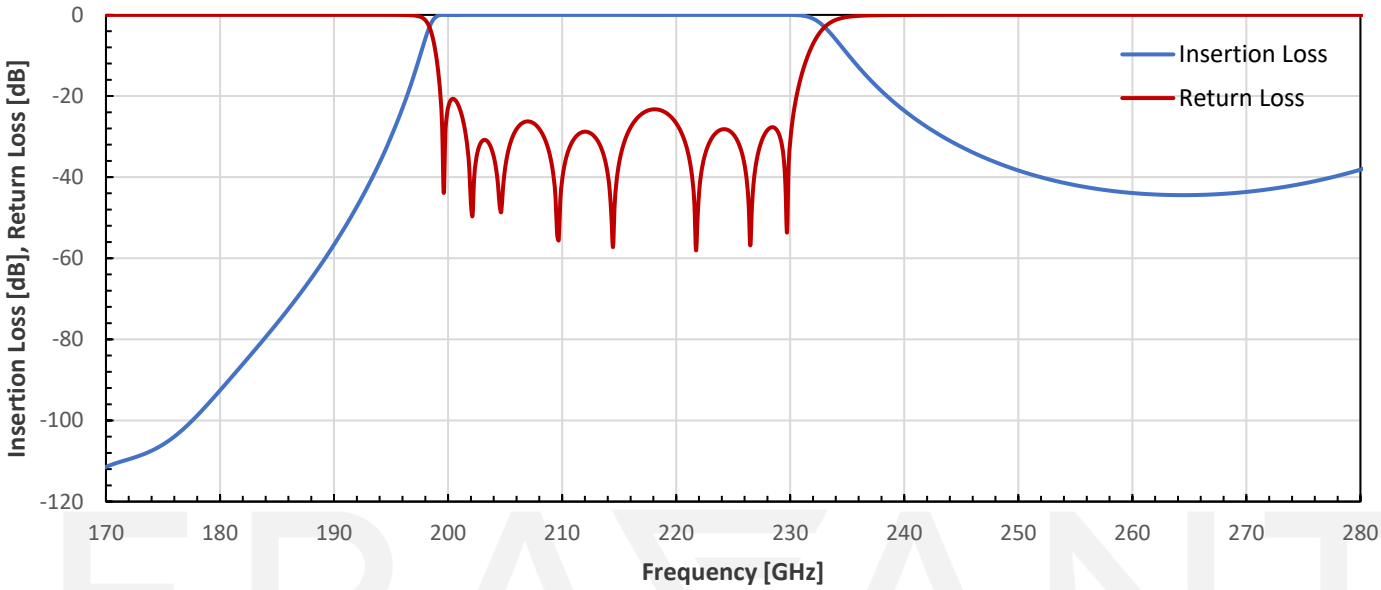
- Low Cost
- Low Insertion Loss
- High Rejection

APPLICATIONS

- Communication Systems
- Radar Systems
- Sub-assemblies

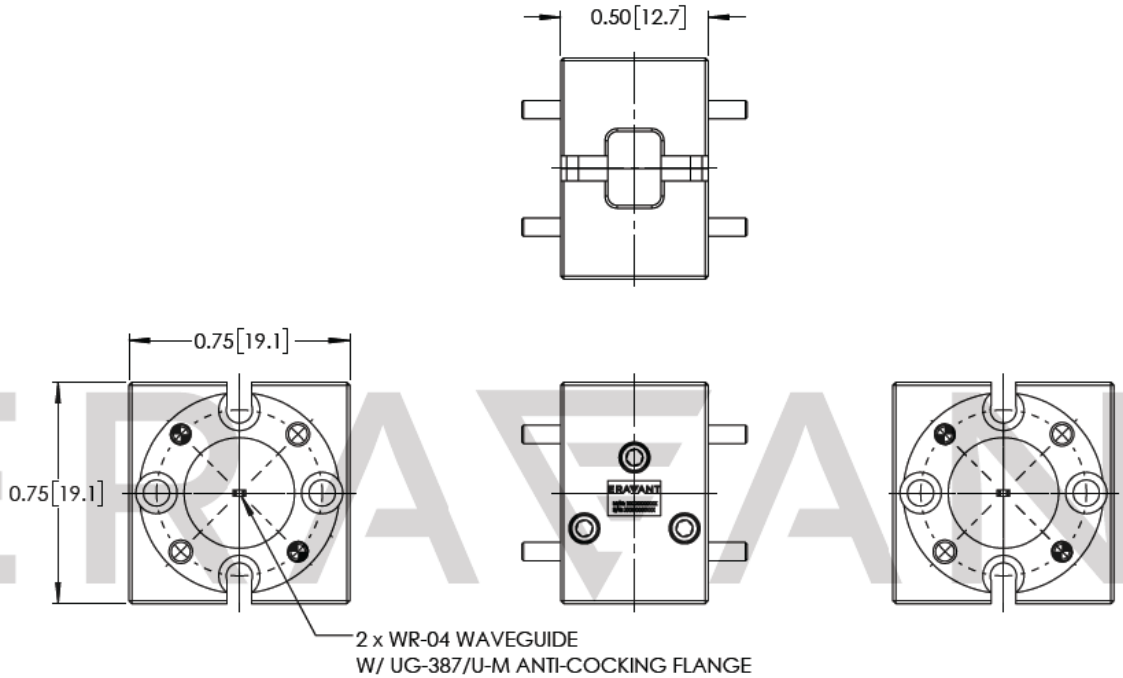
SUPPLEMENTAL DETAILS

Simulated 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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