

## SWF-76310340-12-B1

### Waveguide Bandpass Filter, E-Band, 71 to 81 GHz

**SWF-76310340-12-B1** is an E band waveguide bandpass filter with a passband frequency of 71 to 81 GHz and rejection frequencies from DC to 67.5 GHz and 82.8 to 110 GHz. 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		71 GHz		81 GHz
Passband Insertion Loss	71-73 GHz			5 dB
	71-81 GHz		3 dB	
	79-81 GHz			5 dB
Rejection	DC-67.5 GHz	25 dB		
	82.8-110 GHz	40 dB		
Passband Return Loss			14 dB	
Specification Temperature			+25°C	
Operating Temperature		-40°C		+85°C

### Mechanical Specifications:

Item	Specification
Waveguide Port	WR-12 Waveguide with UG-387/U Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	1.4 Oz
Outline	WF-BE-A-1.75

### ECCN

EAR99

### FEATURES

- Low Cost
- Low Insertion Loss
- High Rejection

### APPLICATIONS

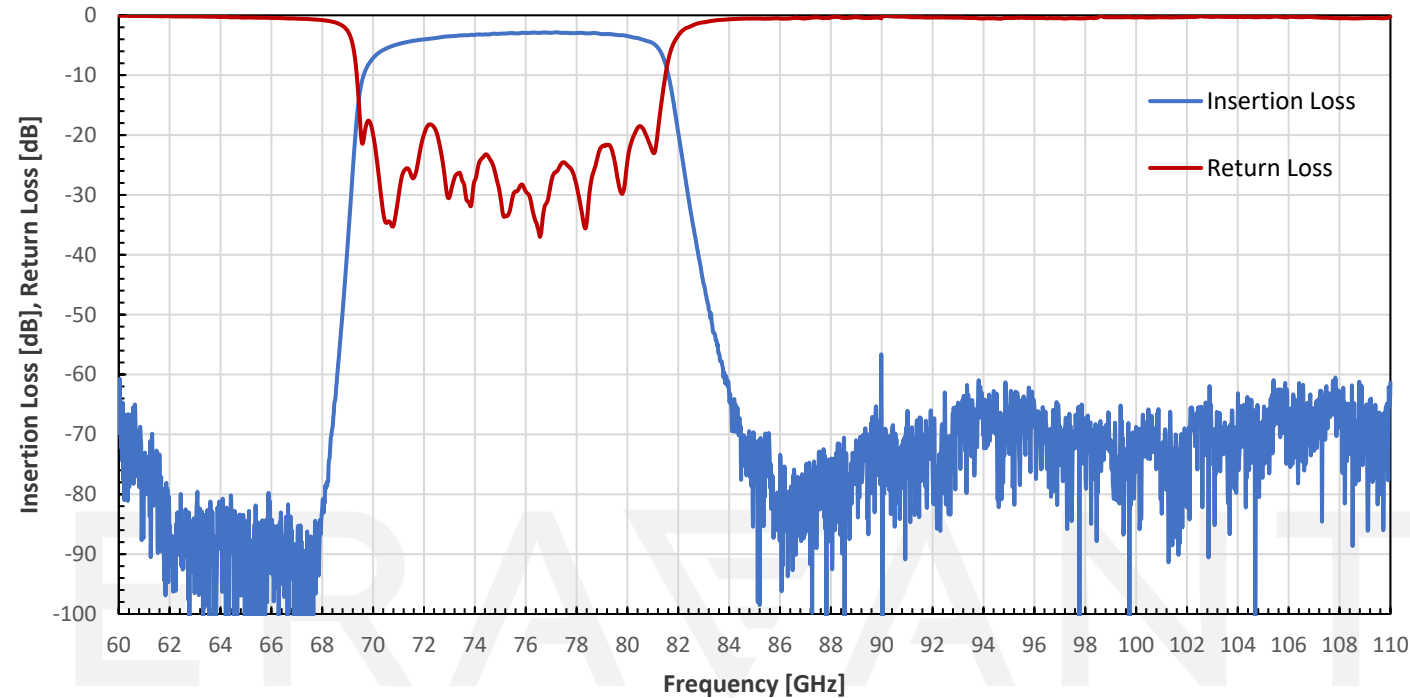
- Communication Systems
- Radar Systems
- Sub-assemblies

### SUPPLEMENTAL DETAILS



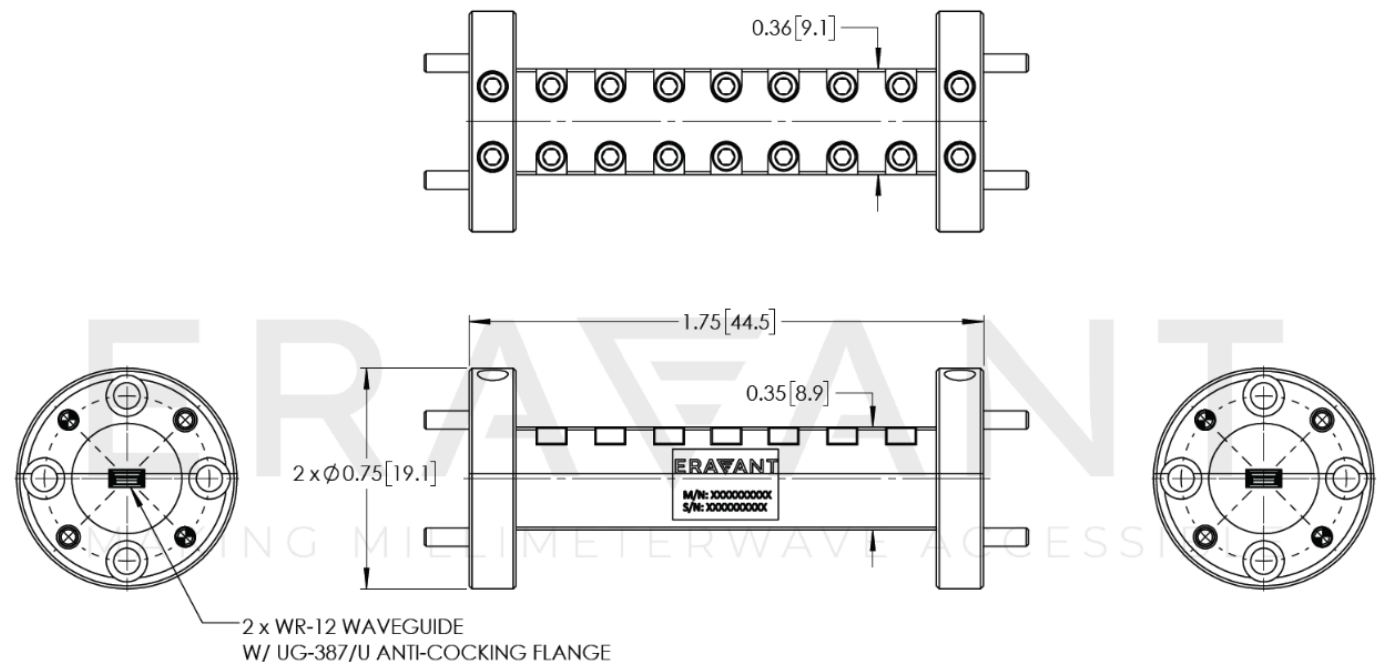
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Typical Rejection vs. Frequency



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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