

## SWF-84380340-10-H1

### Waveguide Highpass Filter, W Band, 84 GHz

**SWF-84380340-10-H1** is an W band waveguide highpass filter with a passband frequency of 84 GHz and higher and a rejection frequency from DC to 80 GHz. The filter provides a nominal insertion loss of 0.9 dB across its passband with a low ripple and a typical rejection of 40 dB. Since the low 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	84 GHz		
Passband Insertion Loss		0.9 dB	
Passband Ripple		±0.3 dB	
Rejection Frequency	DC		80 GHz
Rejection		40 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

#### Mechanical Specifications:

Item	Specification
Waveguide	WR-10 Waveguide with UG-387/U-M Flange
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WF-HW

#### ECCN

EAR99

#### FEATURES

- Low Cost
- Low Insertion Loss
- High Rejection

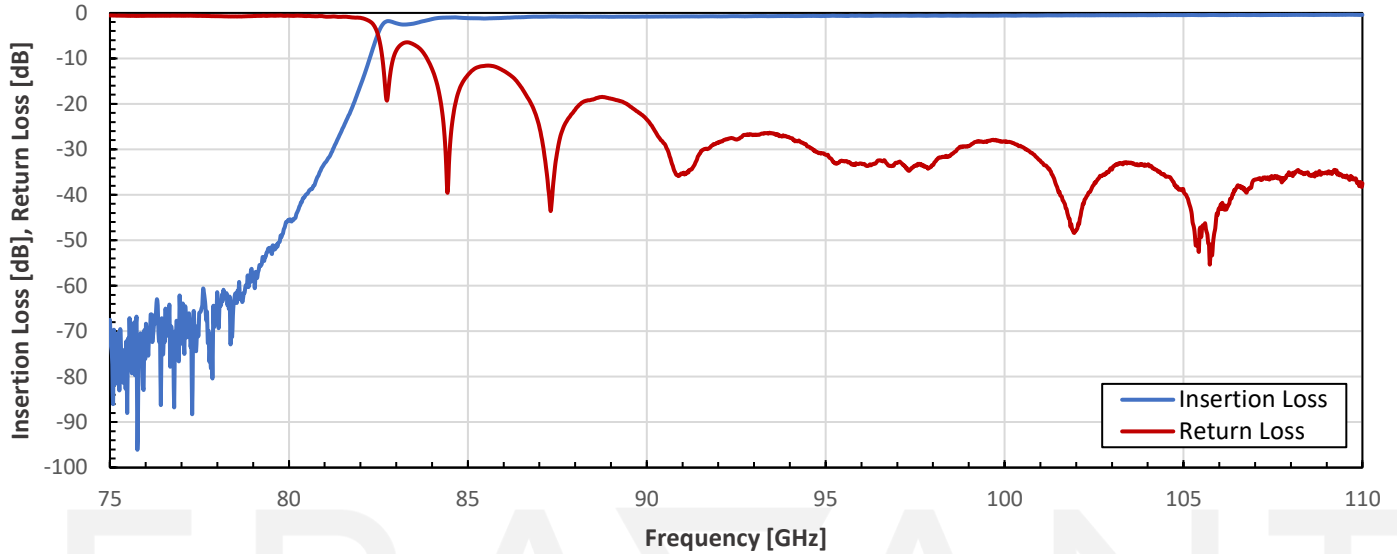
#### APPLICATIONS

- Communication Systems
- Radar Systems
- Sub-assemblies

#### SUPPLEMENTAL DETAILS

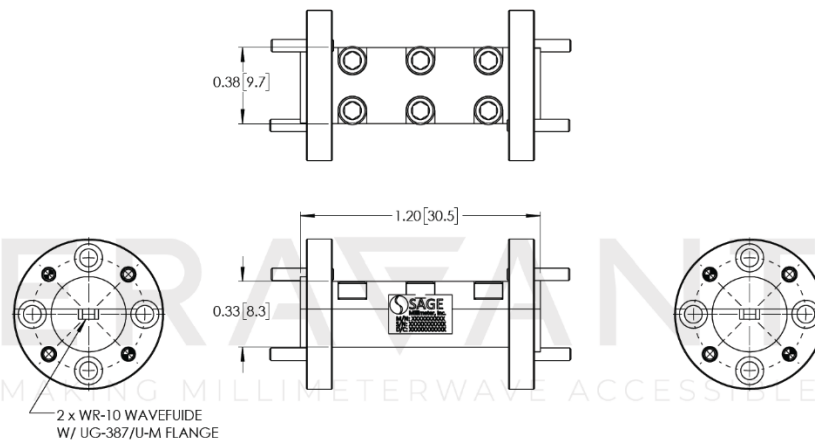


### Typical Rejection vs. Frequency



### 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.