

**Waveguide Highpass Filter, W Band, 105 GHz, DC to 90 GHz Rejection**

**SWF-10490340-10-H1** is a W band waveguide highpass filter with a passband frequency of 105 GHz and higher and a rejection frequency from DC to 90 GHz. The nominal insertion loss of the filter is 1.5 dB and the typical rejection is 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	105 GHz		
Passband Insertion Loss		1.5 dB	
Rejection Frequency	DC		90 GHz
Rejection		40 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

**Mechanical Specifications:**

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

**ECCN**

EAR99

**FEATURES**

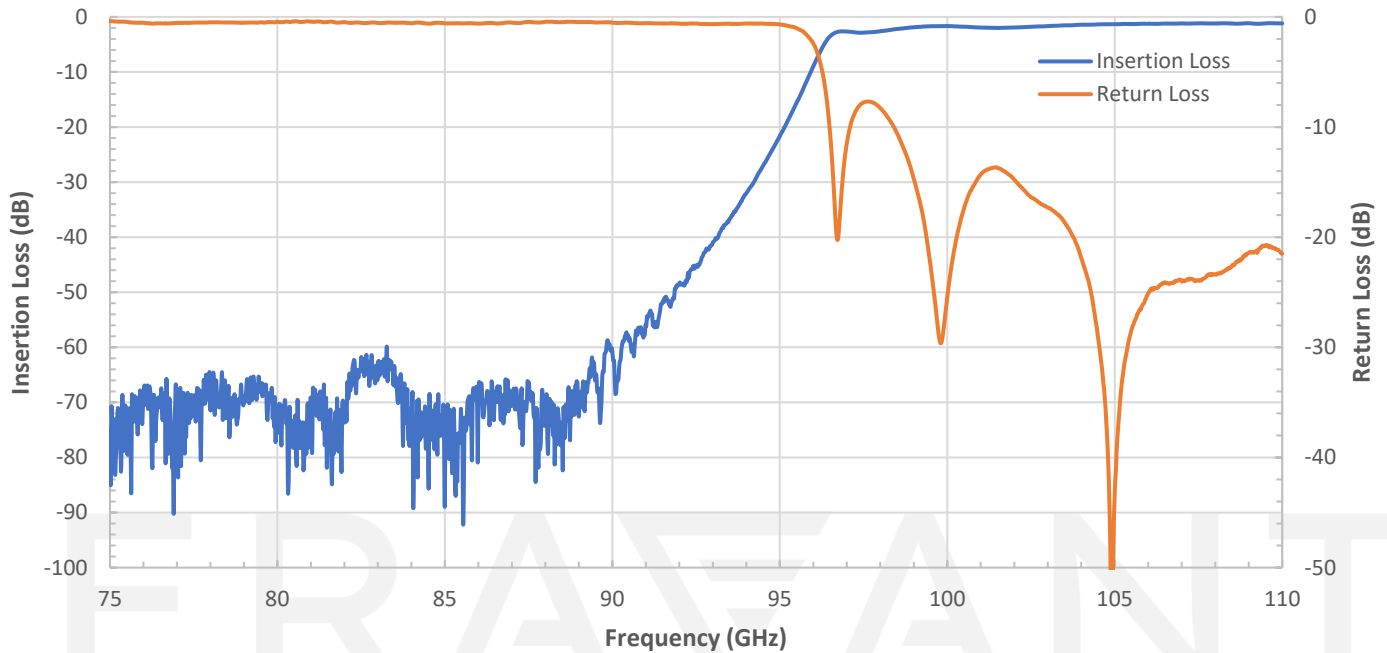
- Low Cost
- Low Insertion Loss
- High Rejection

**APPLICATIONS**

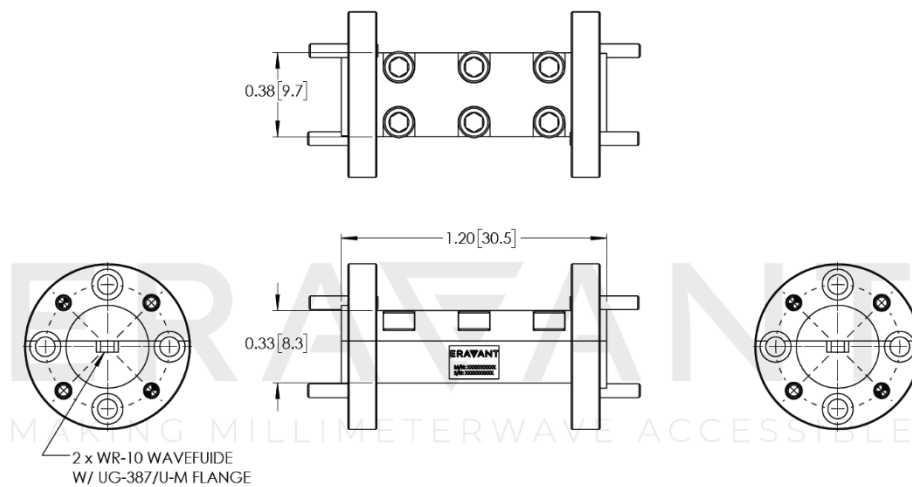
- Communication Systems
- Radar Systems
- Sub-assemblies

**SUPPLEMENTAL DETAILS**

### Typical Performance vs Frequency



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



### NOTE:

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- All testing was performed under +25 °C case temperature
- Eravant reserves the right to change the information presented without notice.

### CAUTION:

- Any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.