

Waveguide Highpass Filter, V Band, 50 GHz, DC to 48 GHz Rejection

SWF-50348340-15-H1 is a V band waveguide highpass filter with a passband frequency of 50 GHz and higher and a rejection frequency from DC to 48 GHz. The nominal insertion loss of the filter is 0.8 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	50 GHz		
Passband Insertion Loss		0.8 dB	
Passband Return Loss		20 dB	
Rejection Frequency	DC		48 GHz
Rejection		40 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide Port	WR-15
Flange	UG-385/U Anti-Cocking
Material	Aluminum
Finish	Gold Plated
Weight	0.5 oz.
Outline	WF-HV-A-1.5

ECCN

EAR99

FEATURES

- Low Cost
- Low Insertion Loss
- High Rejection

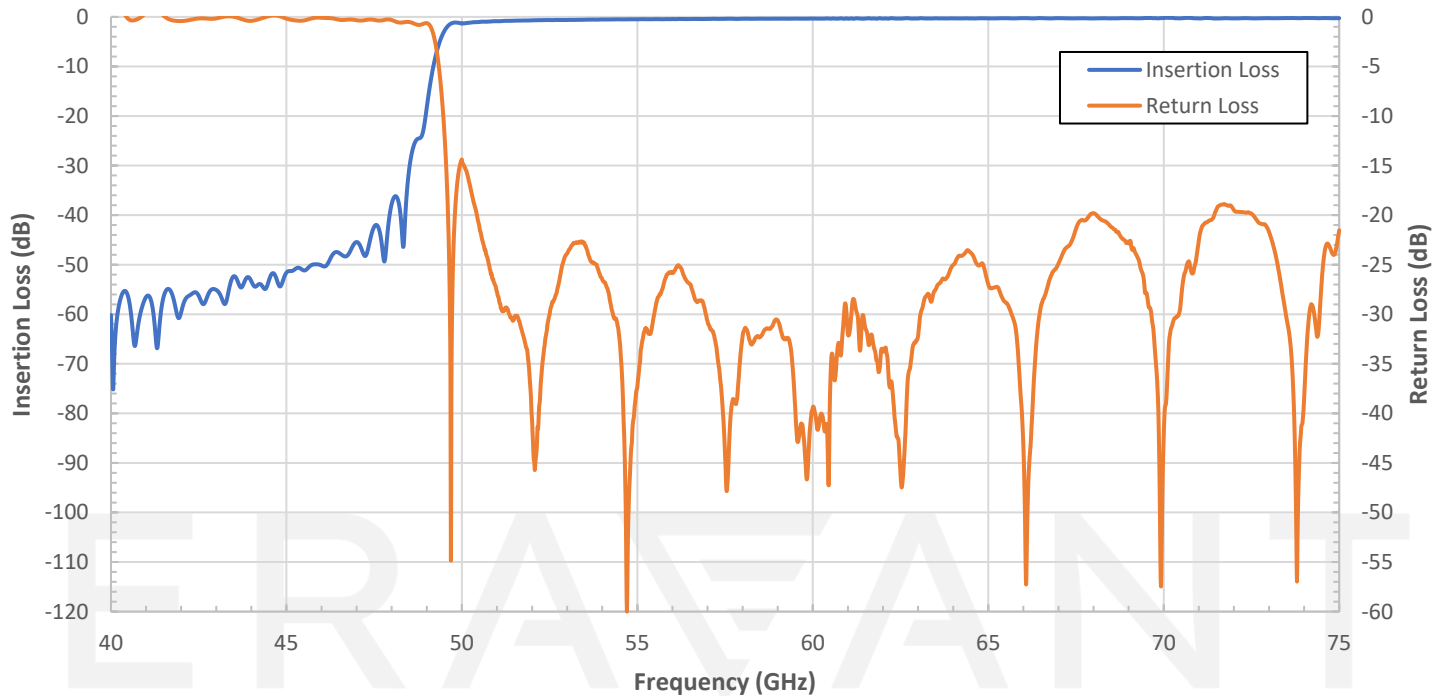
APPLICATIONS

- Communication Systems
- Radar Systems
- Sub-assemblies

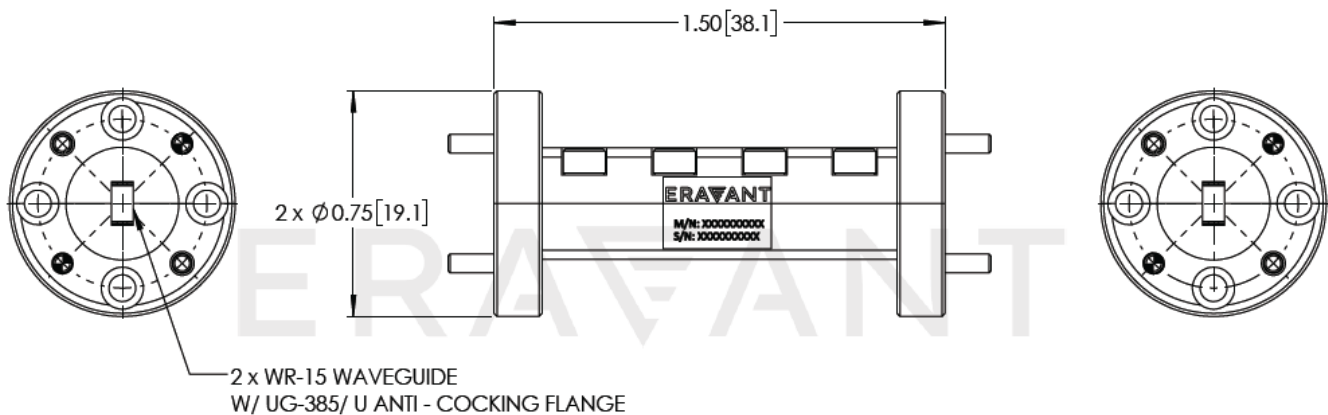
SUPPLEMENTAL DETAILS



Typical Measured 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.