SWF-57353340-15-H1

Waveguide Highpass Filter, V Band, 57 GHz

SWF-57353340-15-H1 is a V band waveguide highpass filter with a passband frequency of 57 GHz and higher and a rejection frequency from DC to 53 GHz. The filter provides a nominal insertion loss of 0.8 dB across its passband with a low ripple and a typical rejection of 40 dB. The waveguide interface for the filter incorporates UG-385/U anti-cocking flanges to enhance waveguide interface contact and reduce leakage. 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	57 GHz		
Passband Insertion Loss		0.8 dB	
Passband Ripple		±0.3 dB	
Rejection Frequency	DC		53 GHz
Rejection		40 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide	WR-15 Waveguide with UG-385/U Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WF-HV-A

ECCN

EAR99

FEATURES

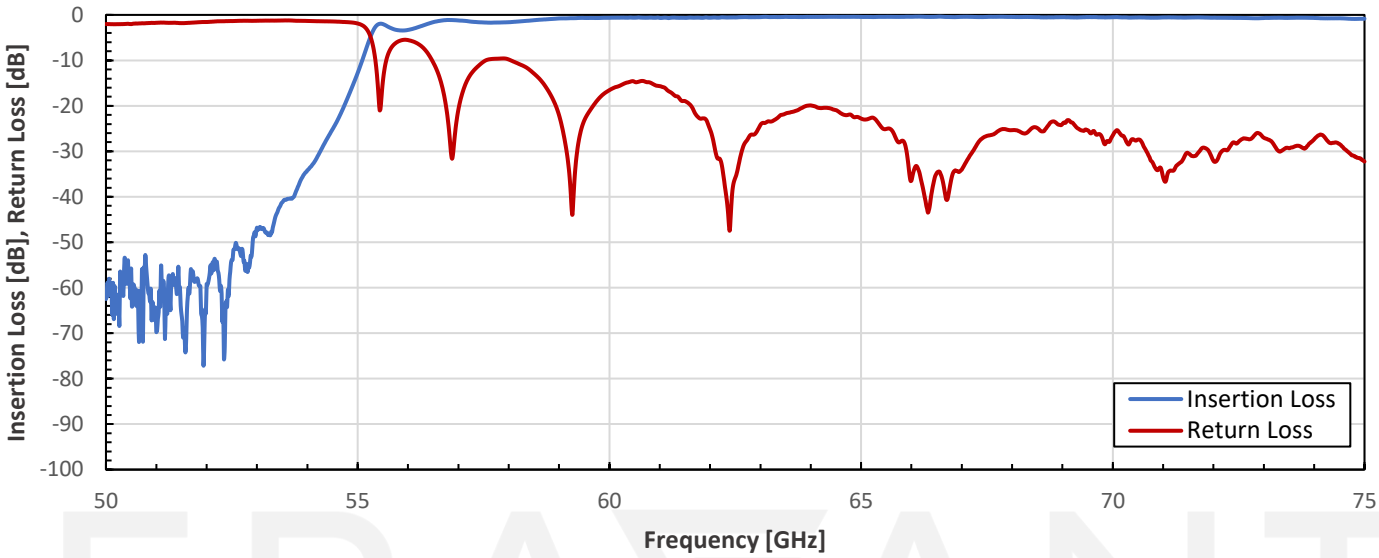
- Low Cost
- Low Insertion Loss
- High Rejection

APPLICATIONS

- IEEE 802.11ad WiGig Systems
- Communication Systems
- Radar Systems
- Sub-assemblies

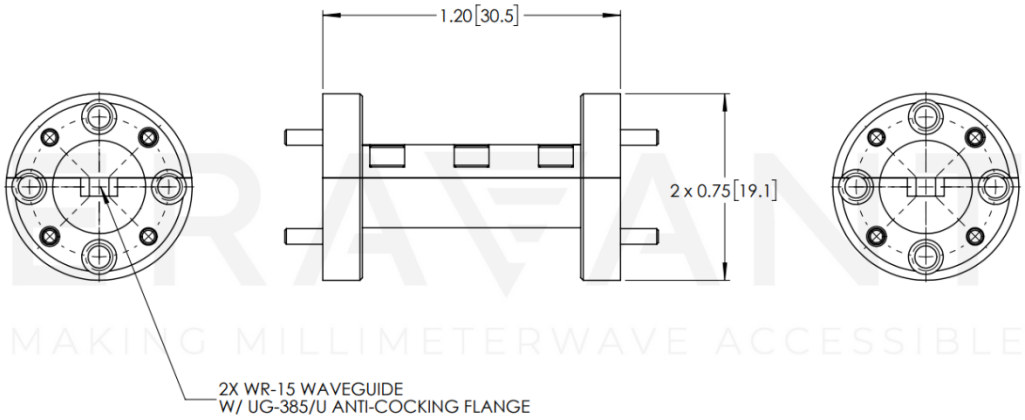
SUPPLEMENTAL DETAILS

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.