

## SWF-14460340-06-B1

## Waveguide Bandpass Filter, D-Band, 110 to 170 GHz

**SWF-14460340-06-B1** is a D Band waveguide bandpass filter with a passband frequency of 110 to 170 GHz and rejection frequencies from DC to 98 GHz and 185 to 230 GHz. The nominal insertion loss of the bandpass filter is 3.0 dB and offers 40 dB typical rejection. Since passband frequency can be selected by modifying the design, custom designs are available under different model numbers.



## Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	110 GHz		170 GHz
Passband Insertion Loss		3.0 dB	
Passband Ripple		±0.25 dB	
Rejection Frequency (Low Side)	DC		98 GHz
Rejection Frequency (High Side)	185 GHz		230 GHz
Rejection		40 dB	
Passband Return Loss		14 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

## Mechanical Specifications:

Item	Specification
Waveguide	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Outline	WF-BD-L1-A

## ECCN

EAR99

## FEATURES

- Broad Band
- Low Insertion Loss
- High Rejection

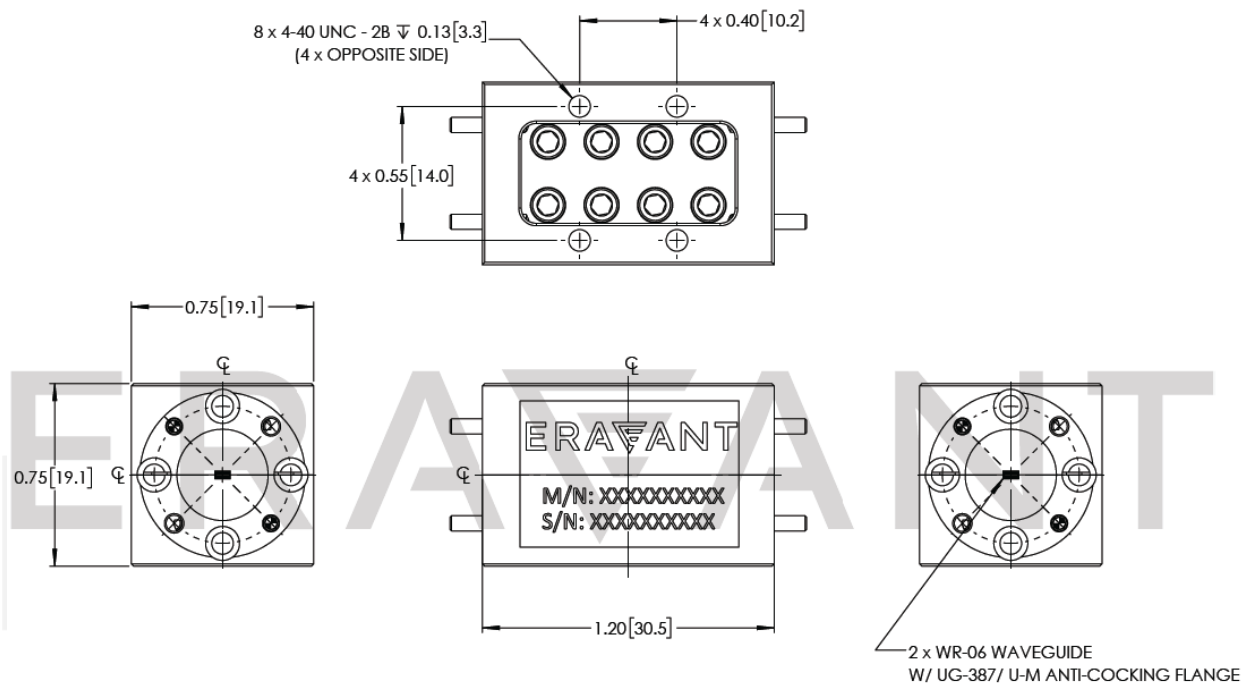
## APPLICATIONS

- IEEE 802.11ad WiGig Systems
- Test Labs
- Instrumentations
- Sub-assemblies



**Mechanical Outline:**

Unless otherwise specified, all dimensions are in inches [millimeters]



**NOTE:**

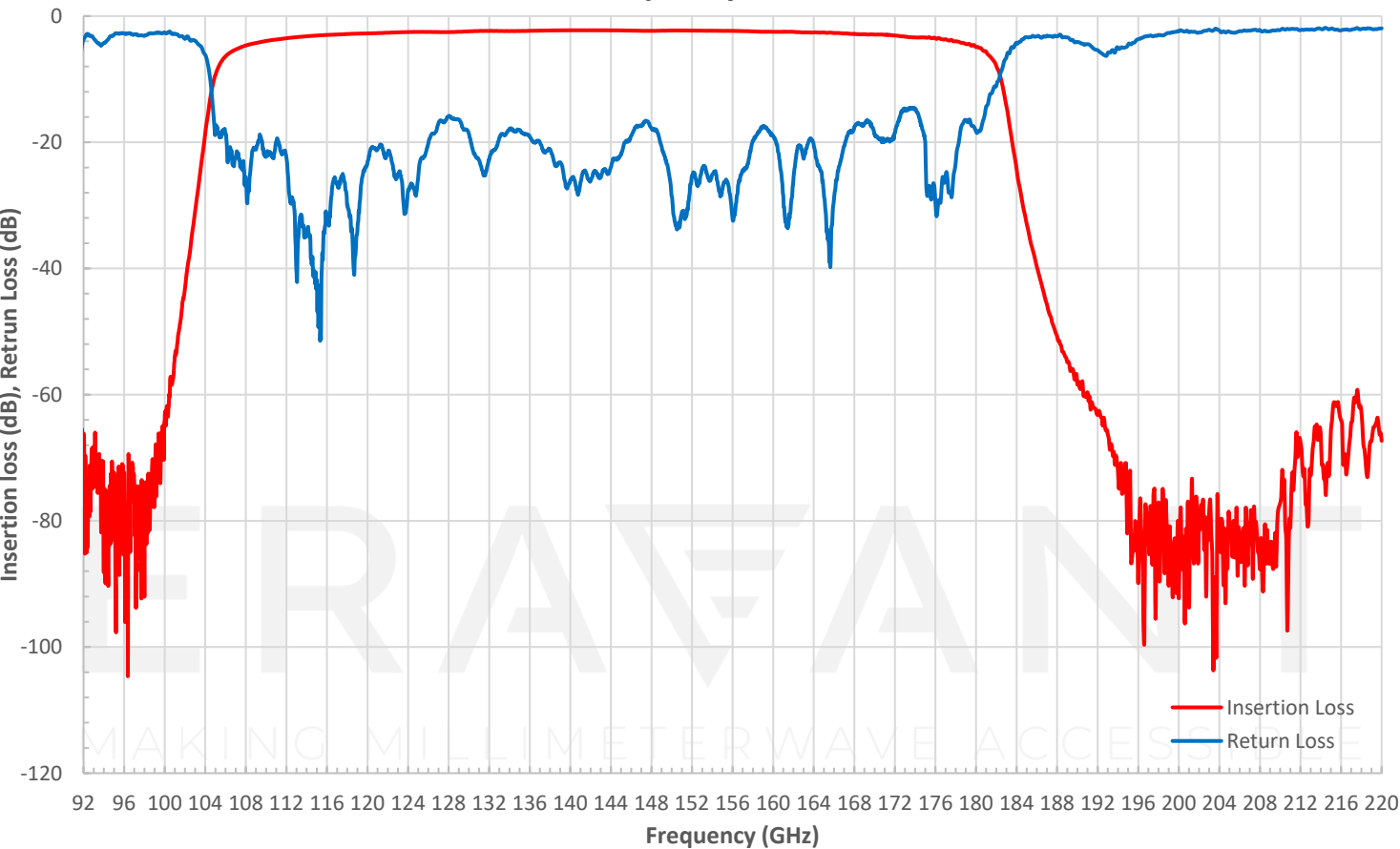
- Test data provided is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.

**CAUTION:**

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

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Measured Insertion Loss, Return loss vs Frequency



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