

SWF-14410340-06-B1

Waveguide Bandpass Filter, D Band, 137 to 147 GHz

SWF-14410340-06-B1 is a D band waveguide bandpass filter with a passband frequency of 137 to 147 GHz and rejection frequencies from DC to 129 GHz and 155 to 170 GHz. The nominal insertion loss of the bandpass filter is 2.5 dB and the typical rejection is 40 dB. Since both low end and high end cut off frequencies can be selected by modifying the design, custom designs are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	137 GHz		147 GHz
Passband Insertion Loss		2.5 dB	
Passband Return Loss		15 dB	
Rejection Frequency, Low Side	DC		129 GHz
Rejection Frequency, High Side	155 GHz		170 GHz
Rejection		40 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

ECCN

EAR99

FEATURES

- Low Cost
- Low Insertion Loss
- High Rejection

APPLICATIONS

- Communication Systems
- Radar Systems
- Sub-assemblies

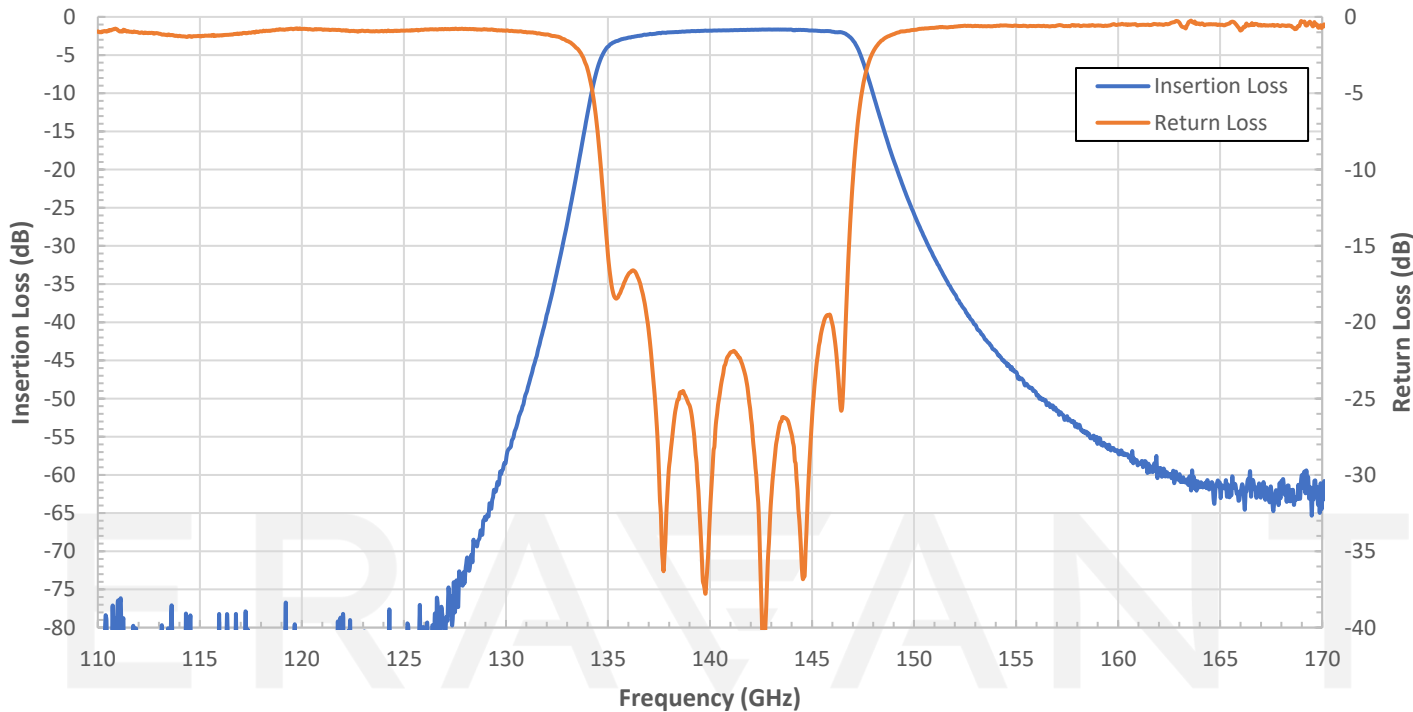
SUPPLEMENTAL DETAILS

Mechanical Specifications:

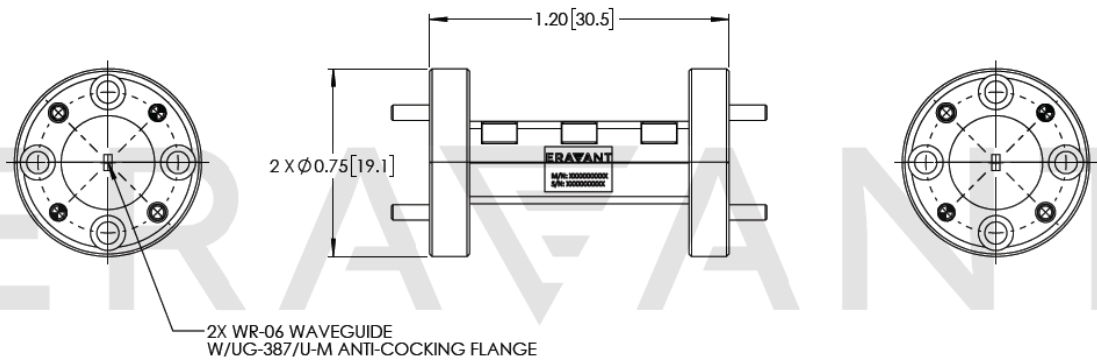
Item	Specification
Waveguide Port	WR-06
Flange	UG-387/U-M Anti-Cocking
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WF-BD-A



Typical Measured Performance vs Frequency



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.