

K-Band Waveguide, Bandpass Filter, 18.6 to 18.8 GHz

SWF-19302240-42-B1 is a K-band waveguide bandpass filter with a passband frequency from 18.6 to 18.8 GHz and rejection frequencies from DC to 18 GHz and 20 to 24.5 GHz. The filter provides a nominal insertion loss of 1.5 dB across its passband and a typical rejection of 40 dB. Since both low and high end cutoff frequencies can be changed by modifying the design, custom designs can be offered under different model numbers.

**Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Passband Frequency	18.6 GHz		18.8 GHz
Passband Insertion Loss		1.5 dB	
Passband Ripple		±0.25 dB	
Rejection Frequency, Low Side	DC		18 GHz
Rejection Frequency, High Side	20 GHz		24.5 GHz
Rejection		40 dB	
Return Loss		14 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide	WR-42 Waveguide with UG-595/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	2.4 Oz
Outline	WF-BK

ECCN

EAR99

FEATURES

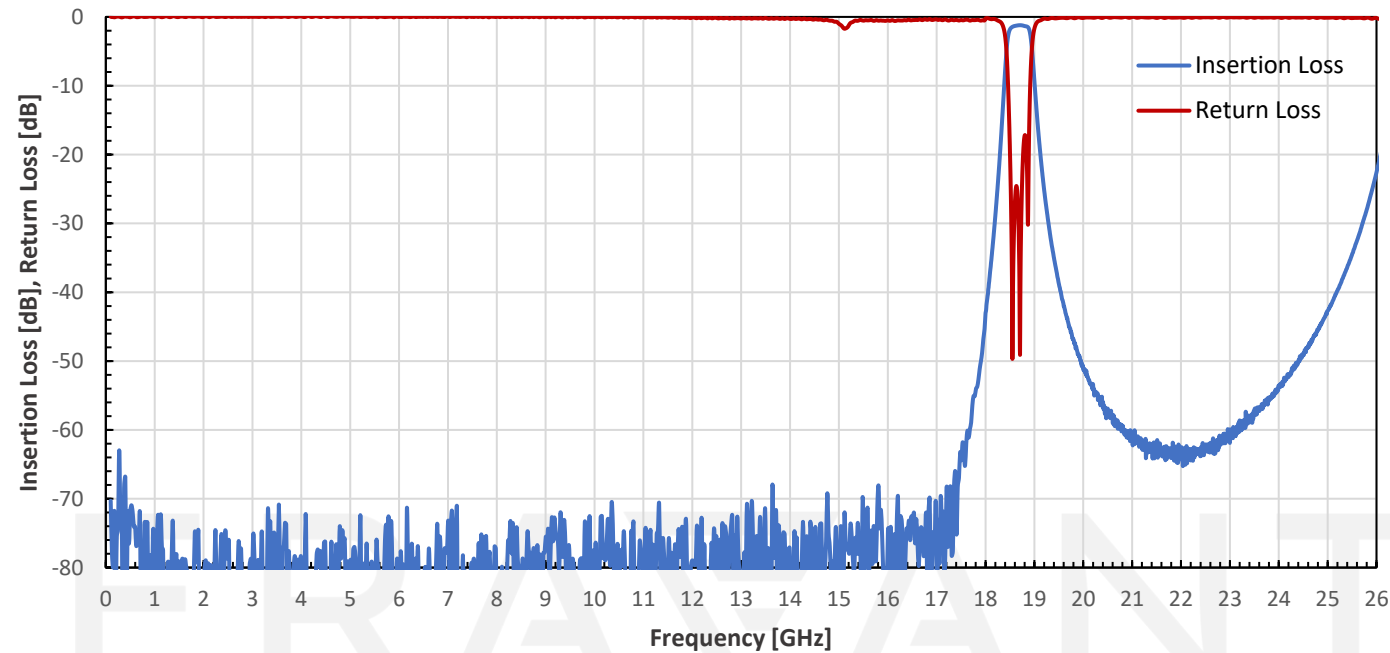
- Low Insertion Loss
- High Rejection

APPLICATIONS

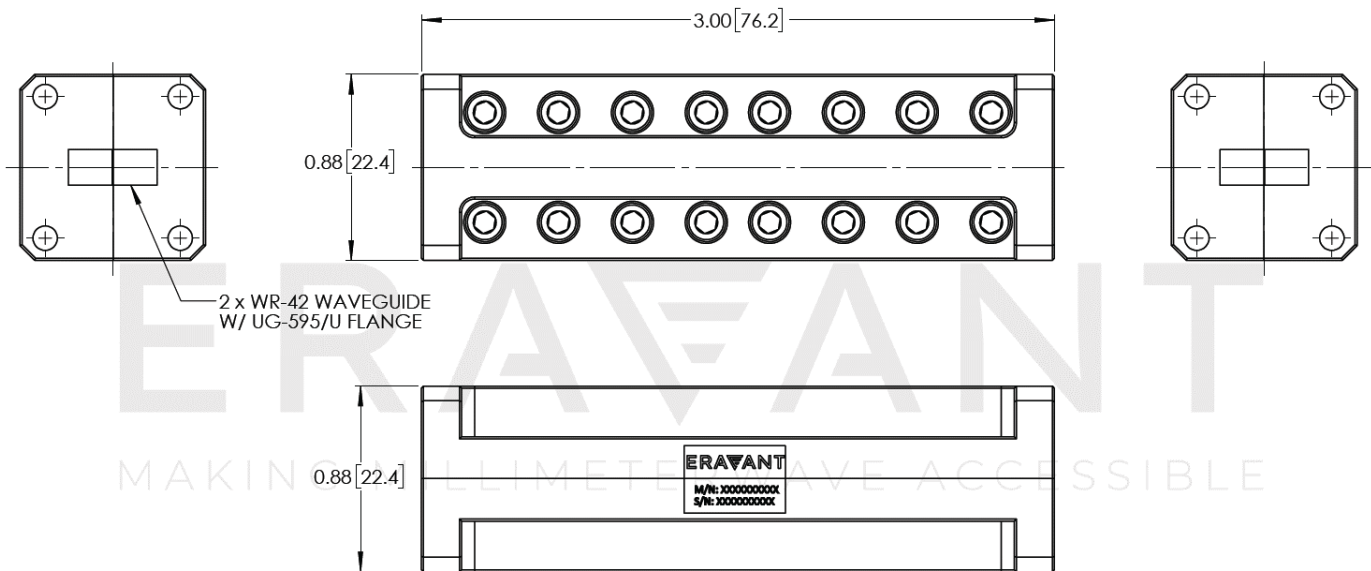
- Test Labs
- Instrumentations
- Sub-assemblies

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.

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