



## Waveguide Bandpass Filter, U Band, 36 to 60 GHz

### Description:

**Model SWF-48324340-19-B1** is an U band waveguide bandpass filter with a passband frequency of 36 to 60 GHz and rejection frequencies from DC to 29 GHz and 66 to 120 GHz. The nominal insertion loss of the bandpass filter is 1.5 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.



### Features:

- Low Insertion Loss
- High Rejection

### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	36 GHz		60 GHz
Passband Insertion Loss		1.5 dB	
Rejection Frequency, Low Side	DC		29 GHz
Rejection Frequency, High Side	66 GHz		120 GHz
Rejection		40 dB	
Passband VSWR		1.5:1	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

### Mechanical Specifications:

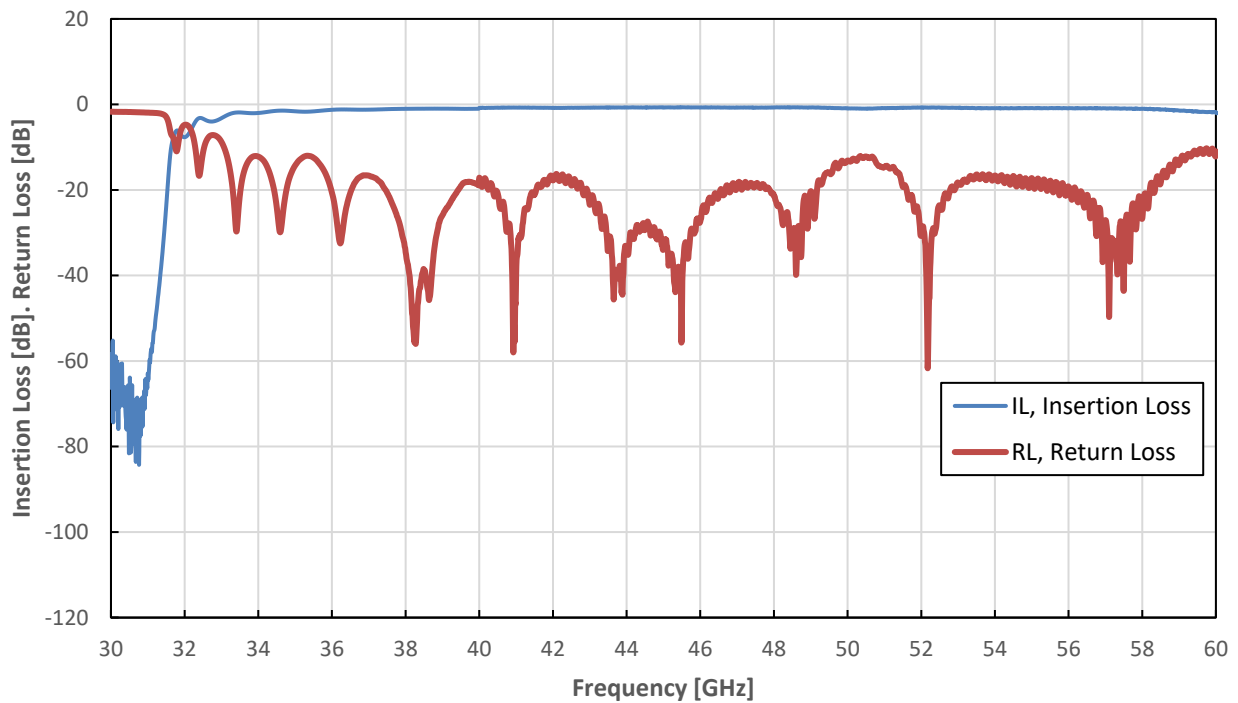
Item	Specification
Waveguide	WR-19 Waveguide with UG-383/U-M Anti-Cocking Flange
Size	2.00" (L) X 1.13" (W) X 1.13" (H)
Material	Brass
Finish	Gold Plated
Weight	4.0 Oz
Outline	WF-LU-A-2.0



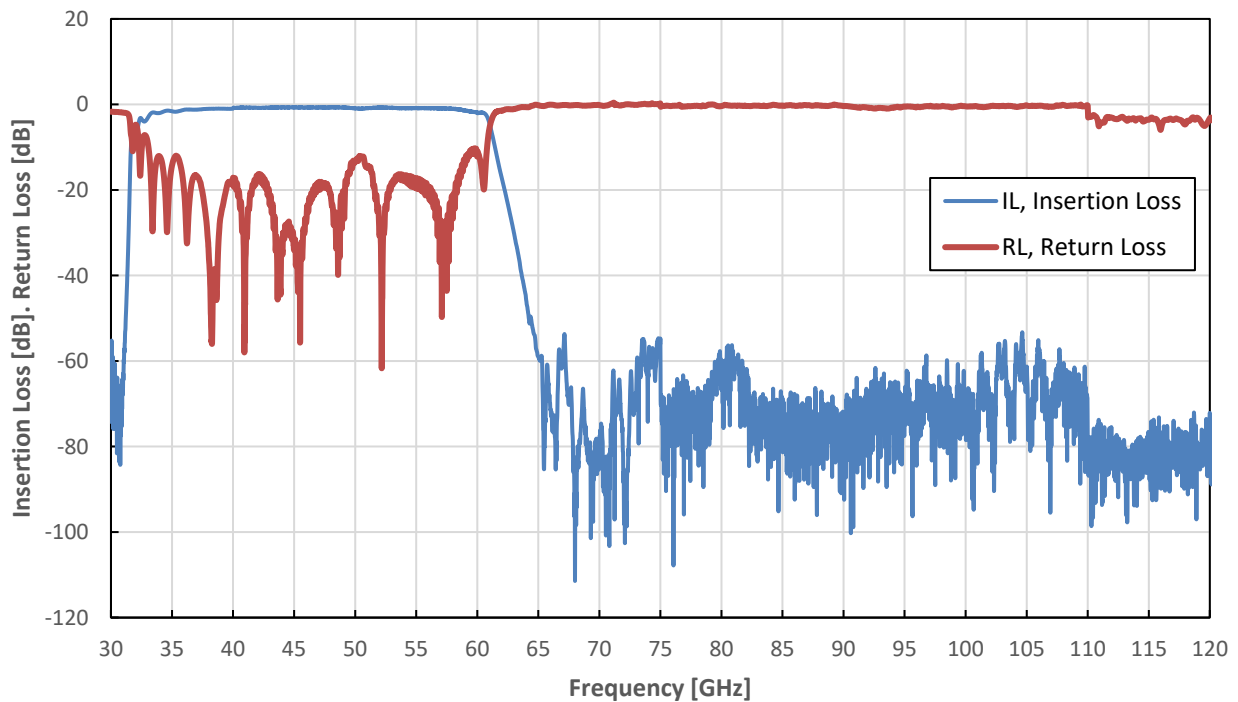


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### Typical Performance Vs Frequency



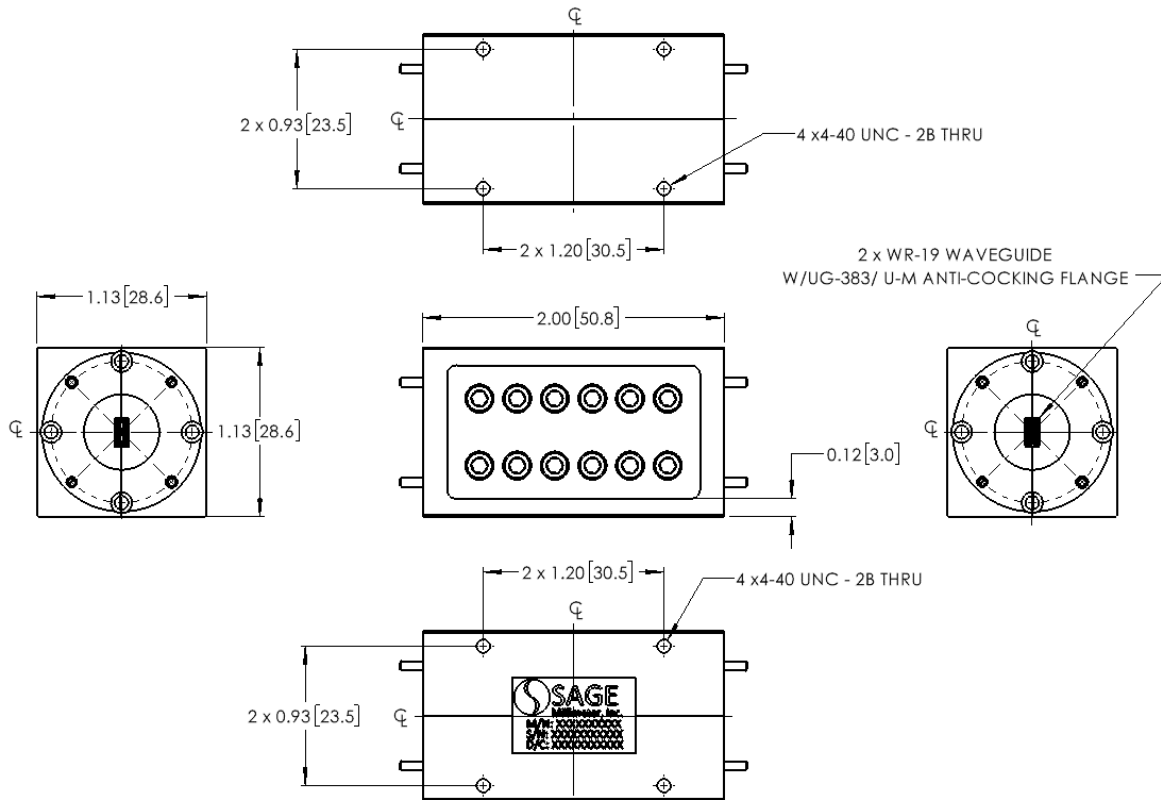
### Typical Rejection Vs Frequency





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**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches)



**Note:**

- Eravant reserves the right to change the information presented without notice.

**Caution:**

- Any foreign objects in the waveguide will degrade performance and/or damage the device.

