

## SWF-28312340-28-B1

## Waveguide Bandpass Filter, Ka Band, 22 to 34 GHz

**SWF-28312340-28-B1** is a Ka band waveguide bandpass filter with a passband frequency from 22 to 34 GHz and the rejection frequencies of DC to 20 GHz and 37 GHz to 70 GHz, respectively. The filter provides a nominal insertion loss of 1.0 dB across its passband and a typical rejection of 40 dB. Since the high 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	22 GHz		34 GHz
Passband Insertion Loss		1 dB	
Rejection Frequency, Low Side	DC		20 GHz
Rejection Frequency, High Side	37 GHz		70 GHz
Rejection		40 dB	
Passband Return Loss	14 dB		
Power Handling			100 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

## Mechanical Specifications:

Item	Specification
Waveguide	WR-28 Waveguide with UG-599/U Flange
Material	Brass
Finish	Gold Plated
Weight	9.5 Oz
Outline	WF-LA-3.6

## ECCN

EAR99

## FEATURES

- Low Insertion Loss
- High Rejection

## APPLICATIONS

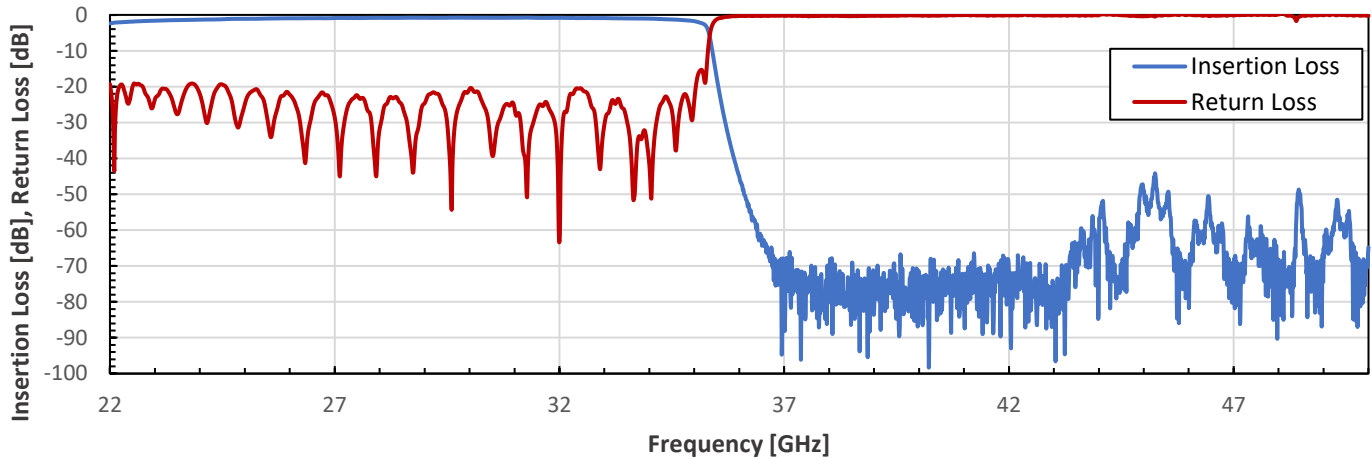
- 5G systems
- Test Labs
- Instrumentations
- Sub-assemblies

## SUPPLEMENTAL DETAILS



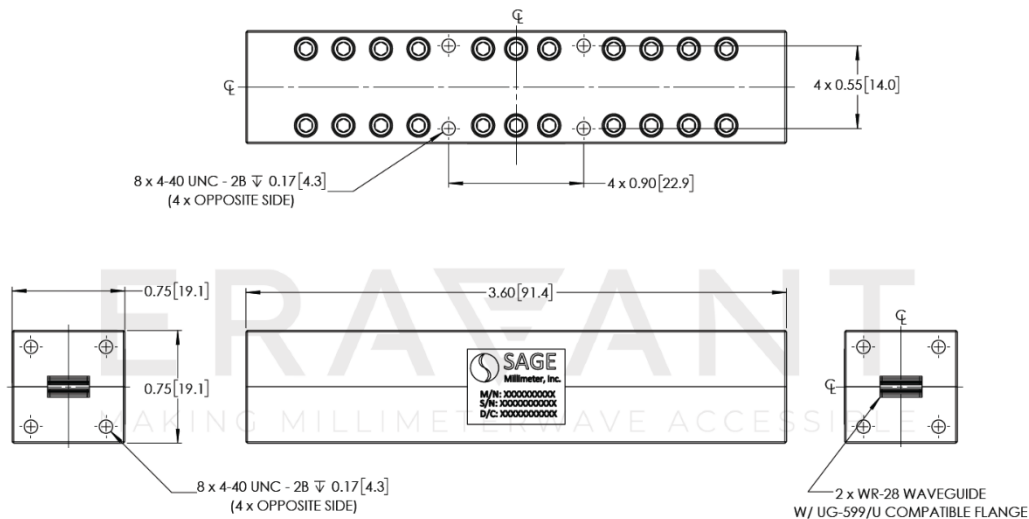
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### Typical Rejection vs. Frequency



### 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.