

SWF-32335340-28-L1

Waveguide Lowpass Filter, Ka Band, 22 to 32 GHz

SWF-32335340-28-L1 is a Ka band waveguide lowpass filter with a passband frequency from 22 to 32 GHz and a rejection frequency of 37 GHz to 75 GHz. The filter provides a nominal insertion loss of 1 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		32 GHz
Passband Insertion Loss		1 dB	
Rejection Frequency, Low Side	DC		17 GHz
Rejection Frequency, High Side	37 GHz		75 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	8.7 Oz
Outline	WF-LA-3.6

ECCN

EAR99

FEATURES

- Low Cost
- Low Insertion Loss
- High Rejection

APPLICATIONS

- IEEE 802.11ad WiGig Systems
- Communication Systems
- Radar Systems
- Sub-assemblies

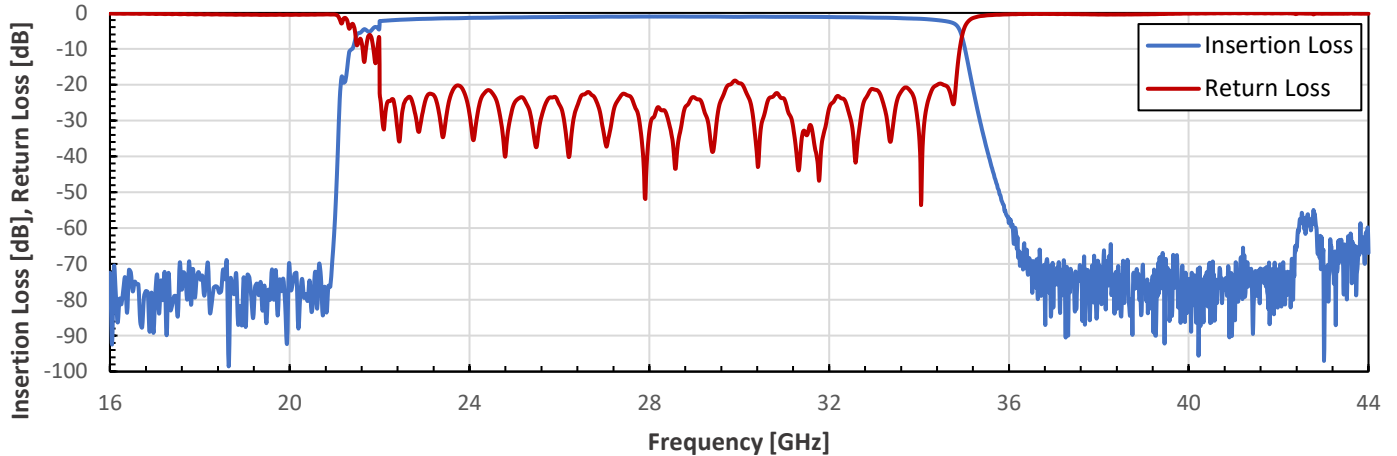
SUPPLEMENTAL DETAILS

MAKING MILLIMETERWAVE ACCESSIBLE



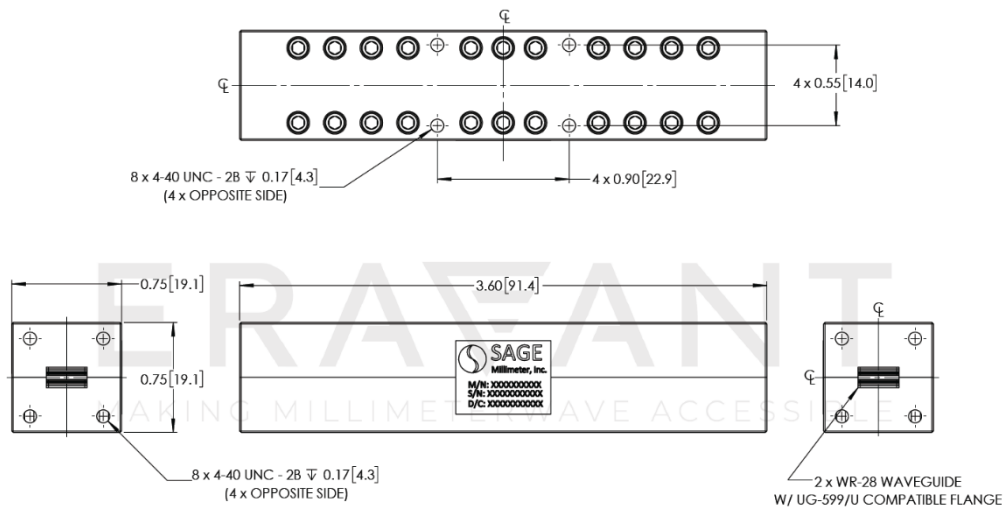
SWF-3235340-28-L1

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.