

SWF-33306340-28-B1

Waveguide Bandpass Filter, Ka Band, 30 to 36 GHz

SWF-33306340-28-B1 is a Ka band waveguide bandpass filter with a passband frequency of 30 to 36 GHz and rejection frequencies from 20 GHz to 27 GHz and 39 to 47 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.



Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|--------------------------------|---------|---------|---------|
| Passband Frequency Range | 30 GHz | | 36 GHz |
| Passband Insertion Loss | | 1.5 dB | |
| Passband Insertion Loss | | ±0.5 dB | |
| Rejection Frequency, Low Side | 20 GHz | | 27 GHz |
| Rejection Frequency, High Side | 39 GHz | | 47 GHz |
| Rejection | | 40 dB | |
| Passband Return Loss | | 14 dB | |
| 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 | 4.7 Oz |
| Outline | WF-LA-3.8 |

ECCN

EAR99

FEATURES

- Low Cost
- Low Insertion Loss
- High Rejection

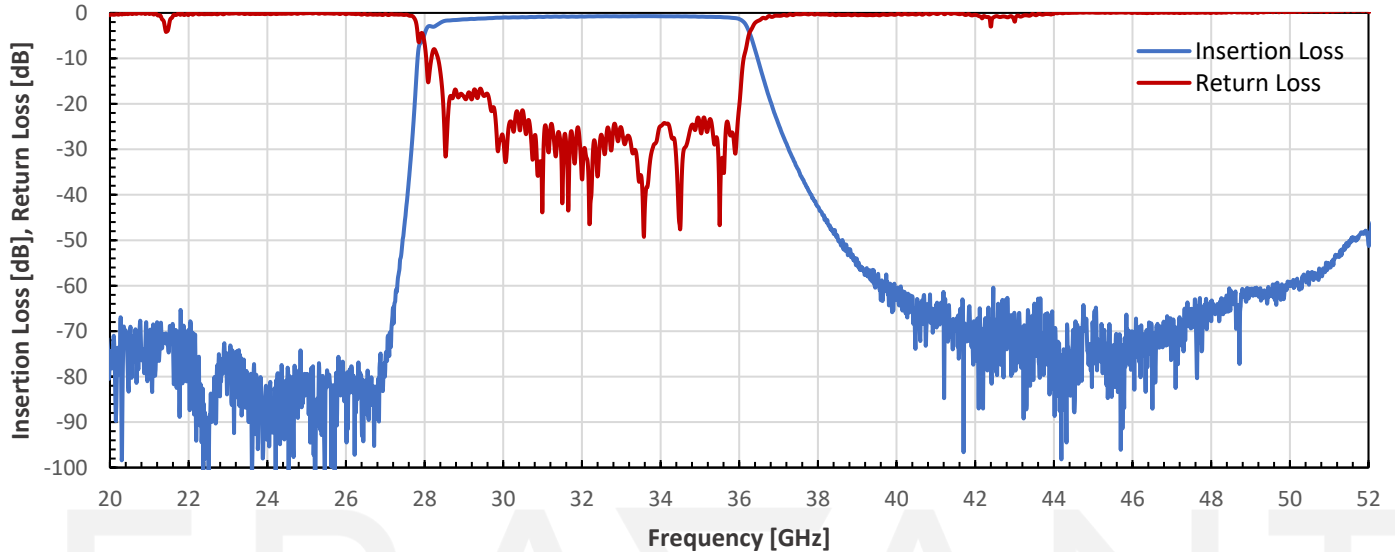
APPLICATIONS

- Communication Systems
- Radar Systems
- Sub-assemblies

SUPPLEMENTAL DETAILS

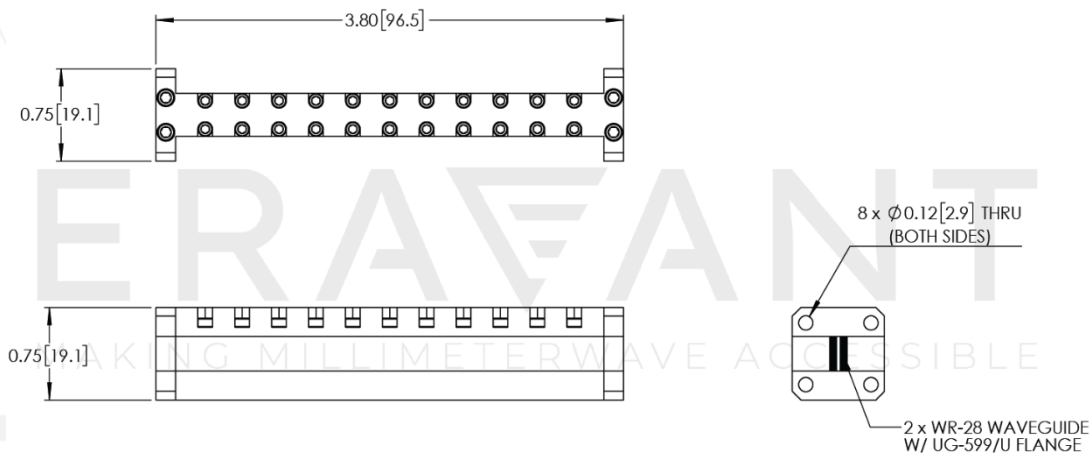


Typical Rejection vs. Frequency



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:

- Any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.