

SWF-40305340-22-B1

Waveguide Bandpass Filter, Q-Band, 37 to 42 GHz

SWF-40305340-22-B1 is a Q band waveguide bandpass filter with a passband frequency of 37 to 42 GHz and rejection frequencies from DC to 34 GHz, 46 to 60 GHz, and 60 to 75 GHz. The nominal insertion loss of the bandpass filter is 2.0 dB. The filter offers 40 dB minimum rejection in DC to 37 GHz range, 40 dB minimum rejection in 45 to 60 GHz range, and 35 dB minimum rejection in 60 to 75 GHz range. 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 | 37 GHz | | 42 GHz |
| Passband Insertion Loss | | 2.0 dB | 2.5 dB |
| Rejection, DC to 34 GHz | 40 dB | | |
| Rejection, 46 to 60 GHz | 40 dB | | |
| Rejection, 60 to 75 GHz | 35 dB | | |
| Passband Return Loss | 14 dB | | |
| Specification Temperature | | +25°C | |
| Operating Temperature | -40°C | | +85°C |

Mechanical Specifications:

| Item | Specification |
|-----------|---|
| Waveguide | WR-22 Waveguide with UG-383/U-M Anti-Cocking Flange |
| Material | Aluminum |
| Finish | Gold Plated |
| Outline | WF-BQ-L1-A |

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FEATURES

- Low Cost
- Low Insertion Loss
- High Rejection

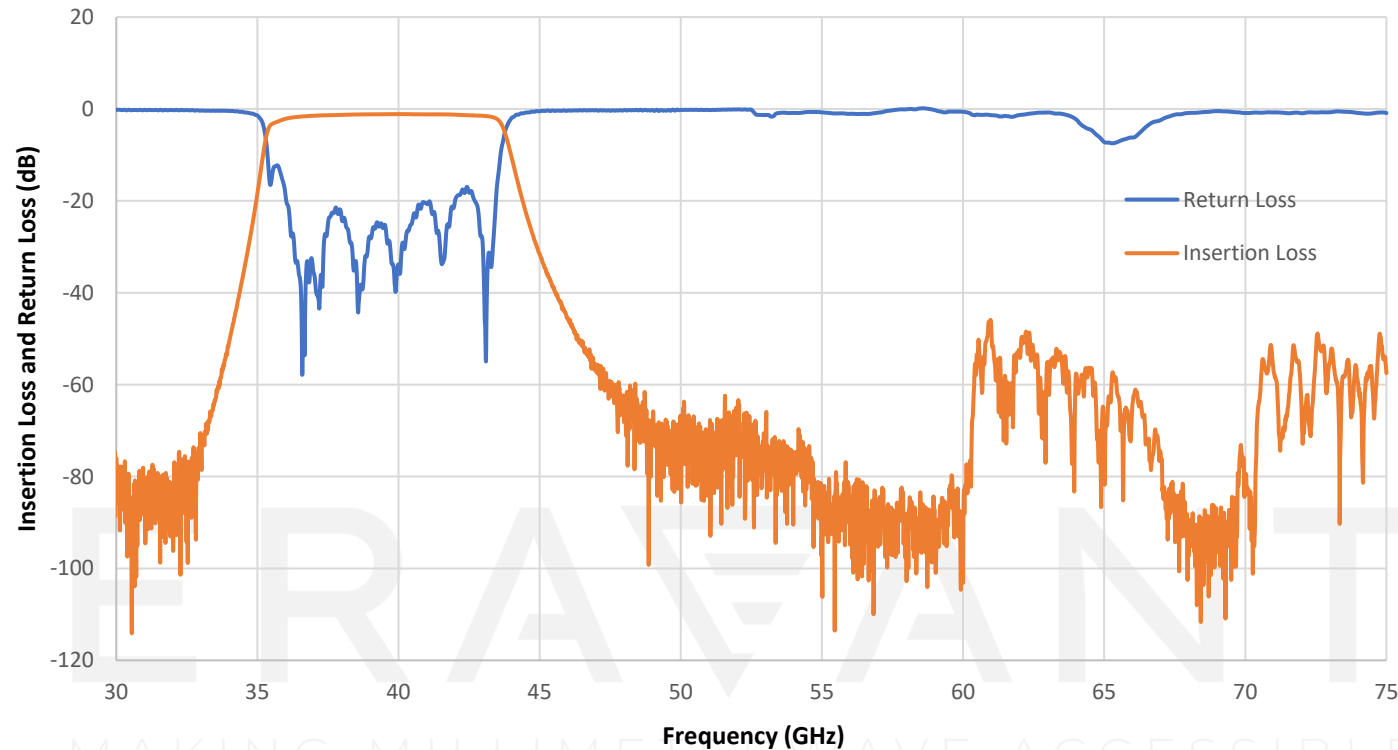
APPLICATIONS

- Communication Systems
- Radar Systems
- Sub-assemblies

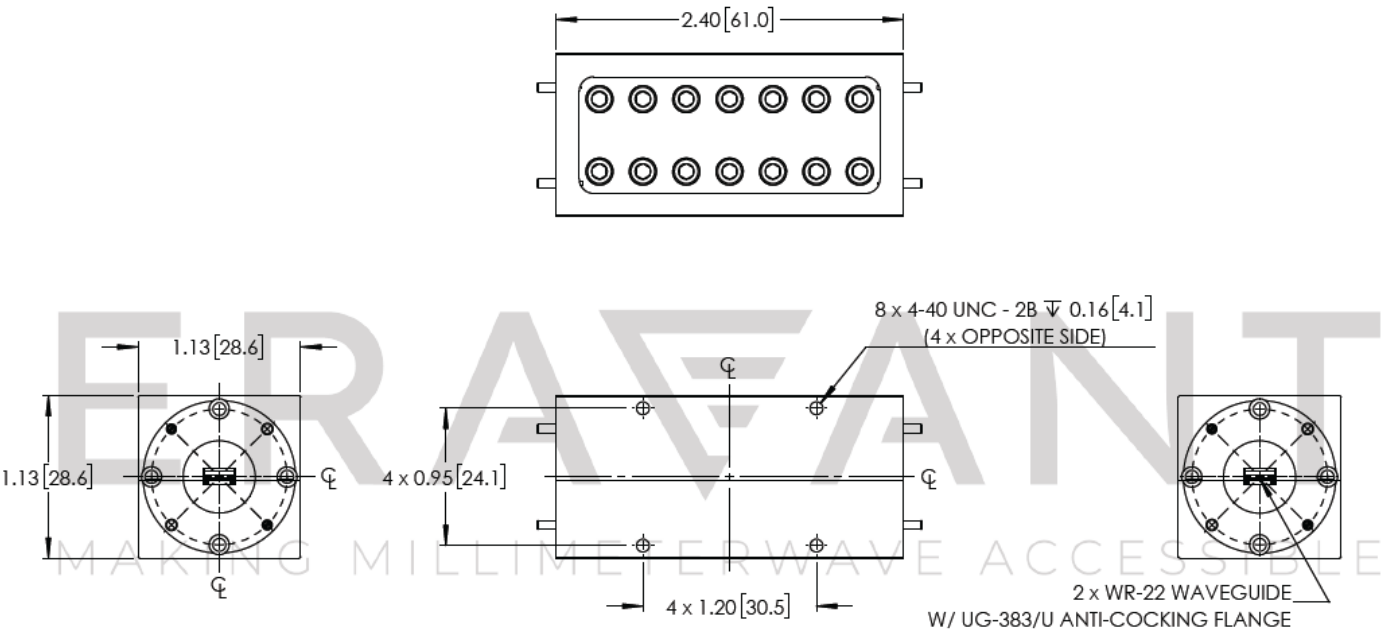
SUPPLEMENTAL DETAILS



Typical Performance vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



NOTE:

- Test data provided is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- 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.

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