

## WR62 Flexible Twistable Waveguide 12.4GHz-18GHz



### Product Description

RFWF62-24Inch is a flexible twistable waveguide with a frequency range of 12.4 to 18GHz.

Flex waveguides allow for different placements of rigid waveguide components.

### Features

- Used in applications requiring both bending and twisting of the waveguides.

### Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

### Electrical Specifications ( $T_A=+25^{\circ}\text{C}$ )

| Parameter           | Min. | Typ.                               | Max. | Units |
|---------------------|------|------------------------------------|------|-------|
| Frequency Range     |      | 12.4 - 18                          |      | GHz   |
| Insertion Loss      |      | 0.80                               |      | dB    |
| VSWR                |      |                                    | 1.20 | :1    |
| Max Twist           |      |                                    | 437  | deg/m |
| Power Handling (CW) |      | 0.40                               |      | KW    |
| Peak Power Handling |      | 0.10                               |      | MW    |
| * Length            |      | 600 +/- 3%                         |      | mm    |
| Waveguide Type      |      | WR62                               |      |       |
| Flange Type         |      | CPRG, CPRF, COVER, CHOKE available |      |       |
| Flange Holes        |      | Through                            |      |       |

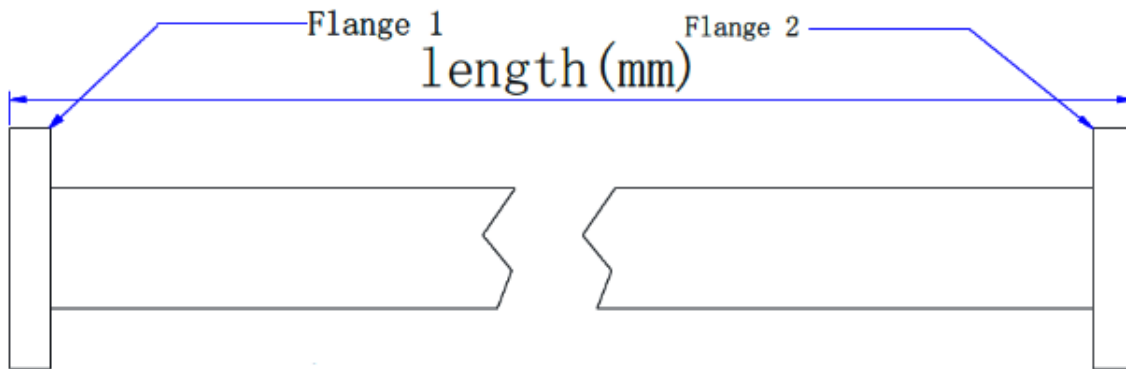
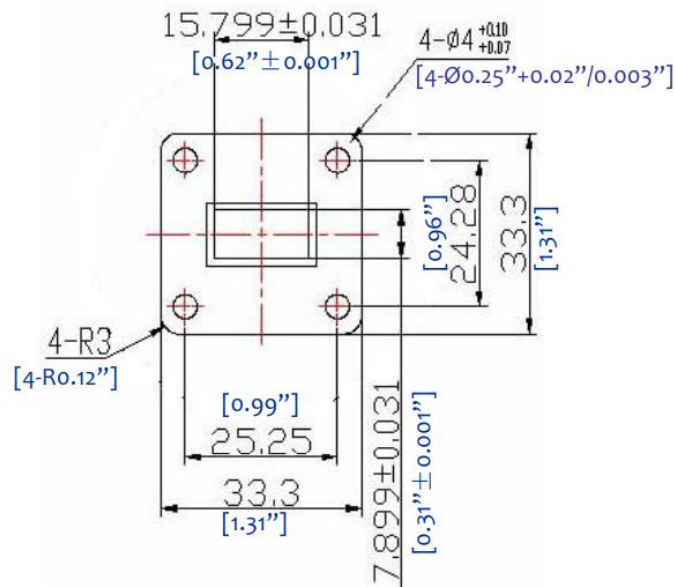
\* Other custom lengths available. Please inquire.

## Environmental Specifications and Test Standards

| Parameter                         | Description                                                                                                                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operational Temperature           | -54°C~+85°C<br>(Case Temperature)                                                                                                                                                                               |
| Storage Temperature               | -60°C~+125°C                                                                                                                                                                                                    |
| Thermal Shock                     | -54°C~+85°C<br>(5 Cycles / 10 hours)                                                                                                                                                                            |
| *Random Vibration                 | MIL-STD-202G<br>Table 214-I, Test Condition Letter C<br>1.5 Hours Per Axis                                                                                                                                      |
| Shock                             | 1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s<br>2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s<br>3. Total 18 times (6 directions, 3 repetitions per direction). |
| Altitude                          | Standard: 30,000 Ft (Epoxy Sealed Controlled Environment)<br>Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)                                                                                             |
| Hermetically Sealed<br>(Optional) | MIL-STD-883 (For Hermetically Sealed Units)                                                                                                                                                                     |

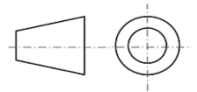
\*For vibration testing details please see additional information section.

**Outline Drawing**



**Notes:**

1. Flange Material: Nickel Plated Brass
2. Internal Body Finish: Silver Plated Brass
3. Jacket Material: Vulcanized Rubber
4. All dimensions are in millimeters [inches]



**Additional Information**

**Documentation**

Connector Torque Specifications

[https://www.rflambda.com/pdf/Torque\\_Specifications.pdf](https://www.rflambda.com/pdf/Torque_Specifications.pdf)

Random Vibration Test Standard

[https://www.rflambda.com/pdf/rflambda\\_random\\_vibration\\_MIL-STD-202G.pdf](https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf)

**Webpage**

Ordering Information

| Part Number   | Modification | Description                      |
|---------------|--------------|----------------------------------|
| RFWF62-24Inch | WR62         | 12.4GHz-18GHz Flexible Waveguide |

Important Notice

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