Flexible Waveguides Technical Data Sheet

**Features**
- Twenty four inch long WR-75 waveguide
- Twistable
- Flexes in both the E and H plane
- Neoprene sleeve allows pressurization
- 10 GHz to 15 GHz Frequency Range
- Brass flanges with a silver plated brass body

**Applications**
- Simplifies positioning parabolic reflectors for line of sight microwave radio links.
- Test Benches
- Eliminates installation problems caused by misalignment.
- Allows expansion/contraction due to thermal issues.
- Pressurized waveguide systems
- Provides vibration isolation
- Microwave Radio

**Description**
The PE-W75TF005-24 is part of Pasternack’s family of flexible, twistable waveguides which operates in the 10 to 15 GHz range. The waveguide body is made of a helically wound silver coated brass strip. It can be twisted and/or bent in both the E and H planes without impairing VSWR or attenuation. The waveguide is covered by a neoprene jacket which protects the waveguide, provides mechanical support and allows the waveguide to be pressurized.

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>10</td>
<td>1.1:1</td>
<td>15</td>
<td>GHz</td>
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<tr>
<td>VSWR</td>
<td></td>
<td></td>
<td></td>
<td>dB</td>
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<tr>
<td>Insertion Loss</td>
<td>0.36</td>
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<tr>
<td>Input Power</td>
<td></td>
<td></td>
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<td>Watts</td>
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<tr>
<td>Peak Power</td>
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<td>140</td>
<td>KWatts</td>
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</tbody>
</table>

**Mechanical Specifications**

- Waveguide Size: WR-75
- Waveguide Design: Twistable
- Section Length: 24 [in [609.6 mm]]
- E-Plane Minimum Bend Radius, One Time: 2.5 in [63.5 mm]
- E-Plane Minimum Bend Radius, Repeated: 10 in [254 mm]
- H-Plane Minimum Bend Radius, One Time: 4.5 in [114.3 mm]
- H-Plane Minimum Bend Radius, Repeated: 20 in [508 mm]
- Maximum Offset Rotation, One Time: 112 degrees/ft
- Maximum Offset Rotation, Repeated: 28 degrees/ft
- Maximum Operating Pressure: 45 psig

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: WR-75 Twistable Flexible Waveguide 24 Inch, Square Cover Flange Operating From 10 GHz to 15 GHz PE-W75TF005-24
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<table>
<thead>
<tr>
<th>Description</th>
<th>Flange 1</th>
<th>Waveguide</th>
<th>Flange 2</th>
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</thead>
<tbody>
<tr>
<td>Type</td>
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<td>Square Cover</td>
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<tr>
<td>Designation</td>
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<tr>
<td>Material</td>
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<tr>
<td>Color</td>
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<td>Black</td>
<td>Gold</td>
</tr>
</tbody>
</table>

**Environmental Specifications**

**Compliance Certifications** ([see product page](#) for current document)

**Plotted and Other Data**

Notes:

Typical Performance Data

![Return Loss Graph](image)

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WR-75 Twistable Flexible Waveguide 24 Inch, Square Cover Flange Operating From 10 GHz to 15 GHz

Flexible Waveguides Technical Data Sheet  PE-W75TF005-24

WR-75 Twistable Flexible Waveguide 24 Inch, Square Cover Flange Operating From 10 GHz to 15 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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