

WR-90 Twistable Flexible Waveguide 24 Inch, CPR-90G Flange Operating From 8.2 GHz to 12.4 GHz

# Flexible Waveguides Technical Data Sheet

### Features

- Twenty four inch long WR-90 waveguide
- Twistable
- Flexes in both the E and H plane

### **Applications**

- Simplifies positioning parabolic reflectors for line of sight microwave radio links.
- Test Benches

- Neoprene sleeve allows pressurization
- 8.2 GHz to 12.4 GHz Frequency Range
  Brass flanges with a silver plated brass body
- Eliminates installation problems caused by misalignment.
- Allows expansion/contraction due to thermal issues.
- Pressurized waveguide systems
- Provides vibration isolation
- Microwave Radio

#### Description

The PE-W90TF006-24 is part of Pasternack's family of flexible, twistable waveguides which operates in the 8.2 to 12.4 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**

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
VSWR		1.07:1		
Insertion Loss		0.3		dB
Input Power			1	KWatts
Peak Power			180	KWatts

#### **Mechanical Specifications**

Waveguide Size Waveguide Design Section Length E-Plane Minimum Bend Radius, One Time E-Plane Minimum Bend Radius, Repeated H-Plane Minimum Bend Radius, One Time H-Plane Minimum Bend Radius, Repeated Maximum Offset Rotation, One Time Maximum Offset Rotation, Repeated Maximum Operating Pressure

WR-90 Twistable 24 [in [609.6 mm]] 2.5 in [63.5 mm] 10 in [254 mm] 5 in [127 mm] 20 in [508 mm] 96 degrees/ft 24 degrees/ft 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-90 Twistable Flexible Waveguide 24 Inch, CPR-90G Flange Operating From 8.2 GHz to 12.4 GHz PE-W90TF006-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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PE-W90TF006-24





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PE-W90TF006-24

Designation       None       None         Material       Brass       Brass       Brass         Plating       Silver       Silver         Color       Gold       Black       Gold         ronmental Specifications       see product page for current document)       Silver         red and Other Data Notes:       Silver       Silver	Description	Flange 1	Waveguide	Flange 2
Material     Brass     Brass     Brass       Plating     Silver       Color     Gold     Black     Gold   ronmental Specifications spliance Certifications (see product page for current document) sed and Other Data Notes: Typical Performance Data	уре	CPR-90G	WR-90	CPR-90G
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10.6

11.2

11.8

12.4

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-40

-50

-60

-70 8.2 GHz

8.8

9.4

10.0

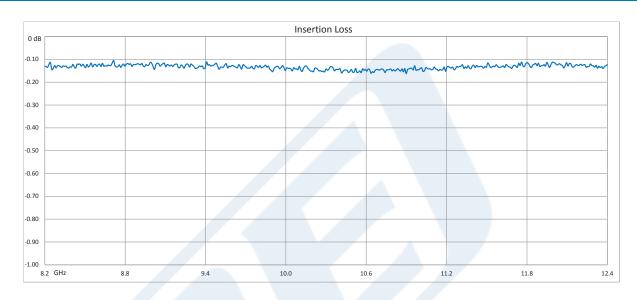




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WR-90 Twistable Flexible Waveguide 24 Inch, CPR-90G Flange Operating From 8.2 GHz to 12.4 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr90-twistable-flexible-waveguide-cpr-90g-8.2-12.4-ghz-pe-w90tf006-24-p.aspx

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# PE-W90TF006-24 CAD Drawing

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