



WR-90 Flexible Waveguide Twist With a CPR-90G Flange Operating From 8.2 GHz to 12.4 GHz

Waveguide Twists Technical Data Sheet

PE-W90TF006-12

Features

- Twelve inch long WR-90 waveguide
- Twistable
- Flexes in both the E and H plane
- Neoprene sleeve allows pressurization
- 8.2 GHz to 12.4 GHz Frequency Range
- Brass flanges with a silver plating

Applications

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

Description

The PE-W90TF006-12 is part of Pasternack's family of flexible waveguide. The waveguide body is made of a helically wound silver plated copper. It flexes 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		0.15		dB

Mechanical Specifications

Waveguide Size	WR-90
Waveguide Design	Twistable
Section Length	12 in [304.8 mm]
E-Plane Minimum Bend Radius	20 in [508 mm]
H-Plane Minimum Bend Radius	10 in [254 mm]
E-Plane Minimum Bend Radius, One Depa	[254 mm]
H-Plane Minimum Bend Radius, One Depa	[508 mm]
Maximum Offset Rotation, One Depa	90 degrees/ft
Maximum Offset Rotation, Repa	24 degrees/ft
Maximum Operating Pressure	45 psig

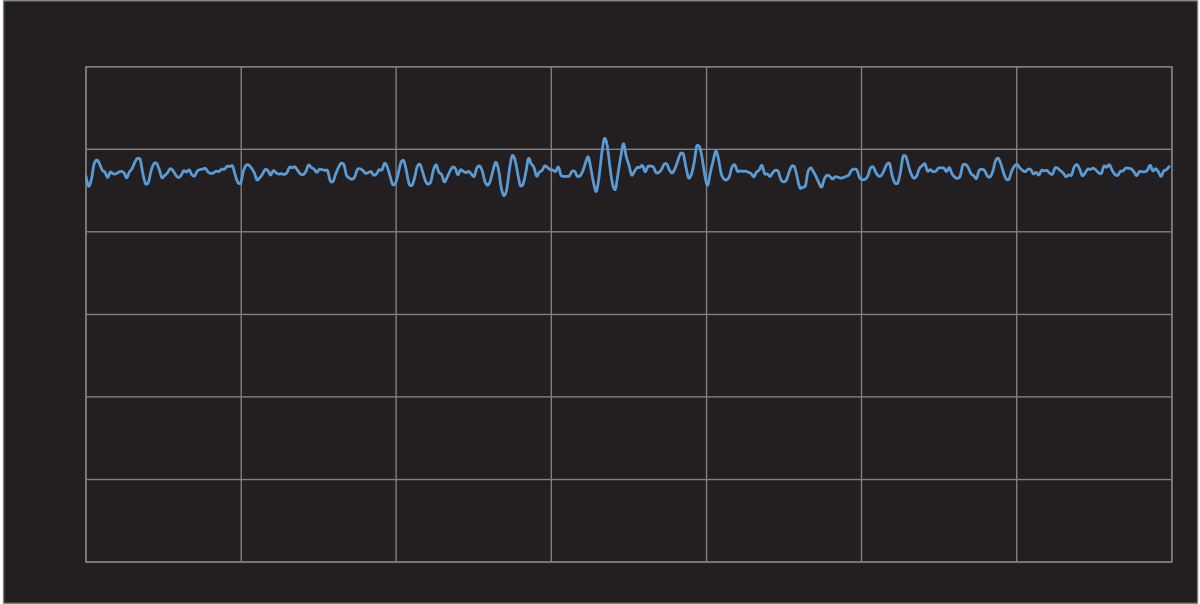
Click the following link (or enter part number in "SEARCH" field) to view price, inventory and other information for WR-90 Flexible Waveguide Twist With a CPR-90G Flange Operating From 8.2 GHz to 12.4 GHz PE-W90TF006-12



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WR-90 Flexible Waveguide Twist With a CPR-90G Flange Operating From 8.2 GHz to 12.4 GHz. Pasternack Enterprises has same day shipment for, and we do it all in an effort to maintain a 99% availability and are part of the broadest selection of RF products in the industry.

Click the following link (or enter part number in "SEARCH" inventory and we will assist you): [WR-90 Flexible Waveguide Twist With a CPR-90G Flange](http://www.pasternack.com/wr-90-flexible-waveguide-twist-with-a-cpr-90g-flange)
[PE-W90TF006-12](http://www.pasternack.com/wr-90-flexible-waveguide-twist-with-a-cpr-90g-flange)

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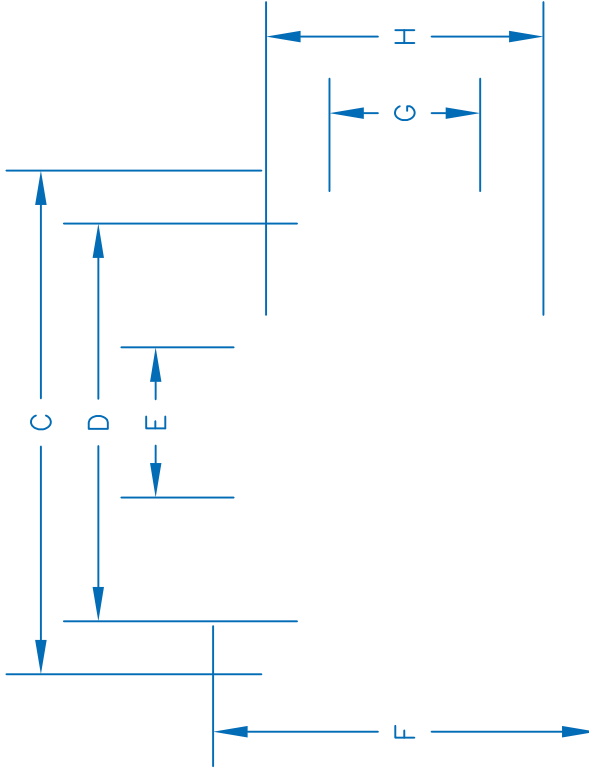
PE-W90TF006-12 CAD Drawing

WR-90 Flexible Waveguide Twist With a CPR-90G Flange
Operating From 8.2 GHz to 12.4 GHz



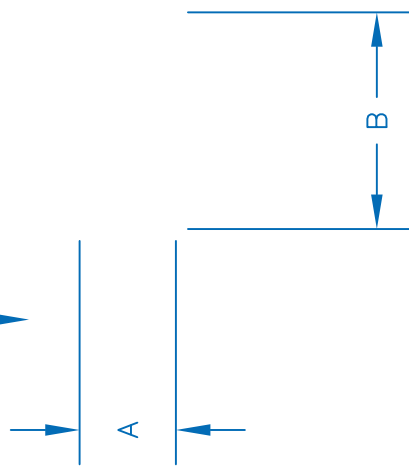
PASTERNAK
PE-W90TF006-12

CPR 90G	Dimension	Inches	mm
A		0.400	10.16
B		0.900	22.86
C		2.092	53.14
D		1.652	41.96
E		0.624	15.85
F		1.592	40.44
G		0.626	15.90
H		1.152	29.26



0.170 ϕ
[4.3] THRU
(8 HOLES)

CPR 90G
FLANGE



NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE-W90TF006-12

FSCM NO. 53919

CAD FILE 100115

SCALE N/A

SIZE A

2233

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THE ENGINEER'S RF SOURCE

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