

## WR-90 Seamless Flexible Waveguide 12 Inch, CPRF Flange Operating from 8.2 to 12.4 GHz



### PE-W90SF008-12

#### Features

- WR-90 waveguide
- Flexes in both the E and H plane
- 8.2 GHz to 12.4 GHz Frequency Range
- Brass flanges with a brass body
- Neoprene sleeve provides added protection and mechanical support

#### Applications

- Allows expansion/contraction due to thermal issues
- Test Benches
- Microwave Radio
- Eliminates installation problems caused by misalignment
- Provides vibration isolation

#### Description

The PE-W90SF008-12 is part of Pasternack's family of flexible, seamless waveguides which operates in the 8.2 to 12.4 GHz range. The waveguide body is made of brass. It can be 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 and provides mechanical support.

#### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	8.2		12.4	GHz
VSWR		1.1:1		
Insertion Loss		0.09		dB
Input Power			3	kWatts

Electrical Specification Notes:  
VSWR is per 2 foot.  
Insertion Loss is dB per foot.

#### Mechanical Specifications

Waveguide Size	WR-90
Waveguide Design	Seamless
Section Length	12 in [304.8 mm]
E-Plane Minimum Bend Radius, One Time	0.9 in [22.86 mm]
H-Plane Minimum Bend Radius, One Time	1.7 in [43.18 mm]

Description	Flange 1	Waveguide	Flange 2
Type		WR-90	
Designation	CPRF		CPRF
Material	Brass	Brass	Brass

**Temperature**  
Operating Range -50 to 100 deg C

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

#### Plotted and Other Data

Notes:

- Notes, Plotted Data

#### Typical Performance Data

WR-90 Seamless Flexible Waveguide 12 Inch, CPRF Flange Operating from 8.2 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-90 Seamless Flexible Waveguide 12 Inch, CPRF Flange Operating from 8.2 to 12.4 GHz PE-W90SF008-12](#)

URL: <https://www.pasternack.com/wr90-seamless-flexible-waveguide-cprf-8.2-12.4-ghz-pe-w90sf008-12-p.aspx>

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# PE-W90SF008-12 CAD Drawing

WR-90 Seamless Flexible Waveguide 12 Inch, CPRF Flange Operating from 8.2 to 12.4 GHz

