



WR-90 Seamless Flexible Waveguide 36 Inch, UG-39/U Square Cover Flange Operating From 8.2 GHz to 12.4 GHz

Flexible Waveguides Technical Data Sheet

PE-W90SF005-36

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 silver plated 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.
- Pressurized waveguide systems
- Provides vibration isolation

Description

The PE-W90SF005-36 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 silver plated 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	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
VSWR		1.07:1		
Insertion Loss		0.27		dB
Input Power			3	KWatts
Peak Power			180	KWatts

Mechanical Specifications

Waveguide Size
WR-90
Waveguide Design
Seamless
Section Length
36 [in [914.4 mm]]
E-Plane Minimum Bend Radius, One Time
H-Plane Minimum Bend Radius, One Time
1.69 in [42.93 mm]
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-90 Seamless Flexible Waveguide 36 Inch, UG-39/U Square Cover Flange Operating From 8.2 GHz to 12.4 GHz PE-W90SF005-36

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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Description	Flange 1	Waveguide	Flange 2
Туре	Square Cover	WR-90	Square Cover
Designation	UG-39/U		UG-39/U
Material	Brass	Brass	Brass
Plating		Silver	
Color	Gold	Black	Gold

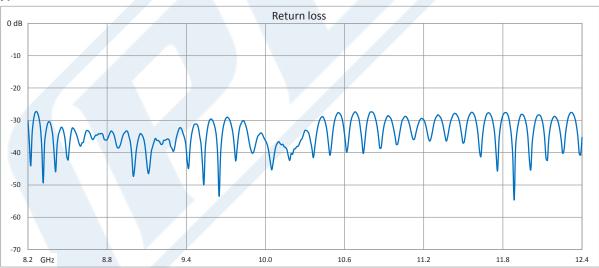
Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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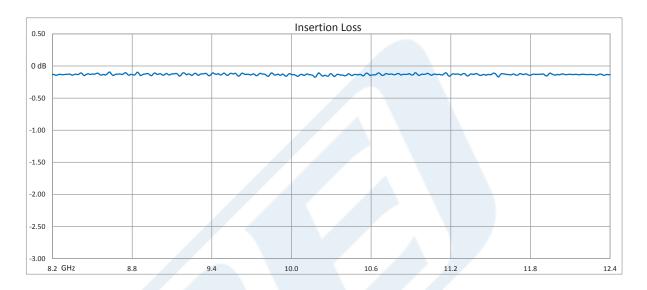




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WR-90 Seamless Flexible Waveguide 36 Inch, UG-39/U Square Cover Flange Operating From 8.2 GHz to 12.4 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr90-seamless-flexible-waveguide-ug39-square-8.2-12.4-ghz-pe-w90sf005-36-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE-W90SF005-36 CAD Drawing

WR-90 Seamless Flexible Waveguide 36 Inch, UG-39/U Square Cover Flange Operating From 8.2 GHz to 12.4 GHz

