



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 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 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
Section Length
E-Plane Minimum Bend Radius, One Time
H-Plane Minimum Bend Radius, One Time
Maximum Operating Pressure
WR-90
Seamless
36 [in [914.4 mm]]
0.87 in [22.1 mm]
1.69 in [42.93 mm]

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

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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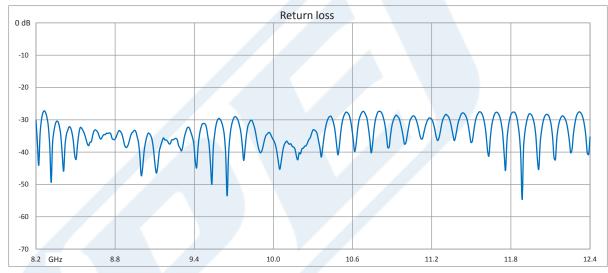
Environmental Specifications

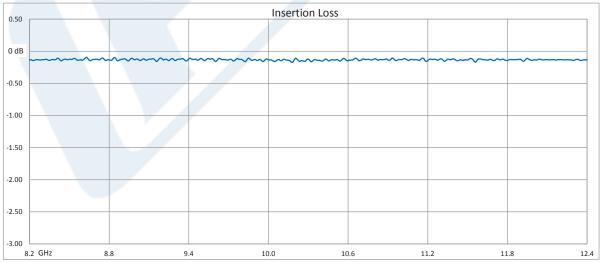
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data





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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

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PE-W90SF005-36 CAD Drawing

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