

WR-90 Flexible Waveguide Twist With a UG-39/U Flange Operating From 8.2 GHz to 12.4 GHz



Waveguide Twists Technical Data Sheet

PE-W90TF005-36

Features

- Thirty six 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 plated brass body

Applications

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

- Eliminates installation problems caused by misalignment.
- Allows expansion/contraction due to thermal issues.
- · Pressurized waveguide systems
- Provides vibration isolation
- Microwave Radio

Description

The PE-W90TF005-36 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		1.1:1		
Insertion Loss		0.45		dB

Mechanical Specifications

Waveguide Size	WR-90
Waveguide Design	Twistable
Section Length	36 in [914.4 mm]
E-Plane Minimum Bend Radius, One Time	2.5 in [63.5 mm]
E-Plane Minimum Bend Radius, Repeated	10 in [254 mm]
H-Plane Minimum Bend Radius, One Time	5 in [127 mm]
H-Plane Minimum Bend Radius, Repeated	20 in [508 mm]
Maximum Offset Rotation, One Time	96 degrees/ft
Maximum Offset Rotation, Repeated	24 degrees/ft
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 Flexible Waveguide Twist With a UG-39/U Flange Operating From 8.2 GHz to 12.4 GHz PE-W90TF005-36

ISO 9001 : 2008 Registered

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 UG-39/U	
Interface	UG-39/U	WR-90		
Material	Brass	Brass	Brass	
Plating		Silver		
Color	Gold	Black	Gold	

Environmental Specifications

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant REACH Compliant

12/17/2014

Plotted and Other Data

Notes:

Typical Performance Data



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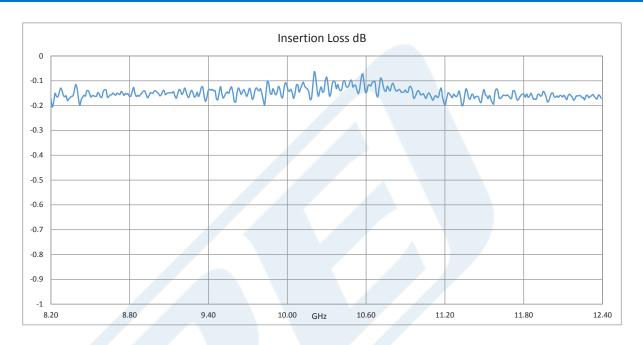


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URL: http://www.pasternack.com/wr-90-flexible-waveguide-twist-ug39-8.2-12.4-ghz-pe-w90tf005-36-p.aspx

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PE-W90TF005-36 CAD Drawing

WR-90 Flexible Waveguide Twist With a UG-39/U Flange Operating From 8.2 GHz to 12.4 GHz

