



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-W90TF005-24

Features

- Twenty four 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 - W90TF005 - 24 is part of Pasternack's family of flexible waveguide. 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		0.36		dB

Mechanical Specifications

Waveguide Size	WR-90
Waveguide Design	Twistable
Section Length	24 in [609.6 mm]
E - Plane Minimum Bend Radius	205 in [5180 mm]
E - Plane Minimum Bend Radius, Repeat	10 in [254 mm]
H - Plane Minimum Bend Radius	50 in [1270 mm]
H - Plane Minimum Bend Radius, Repeat	25 in [635 mm]
Maximum Offset Rotation, One Foot	97 degrees / ft
Maximum Offset Rotation, Repeat	4 degrees / ft
Maximum Operating Pressure	45 psig

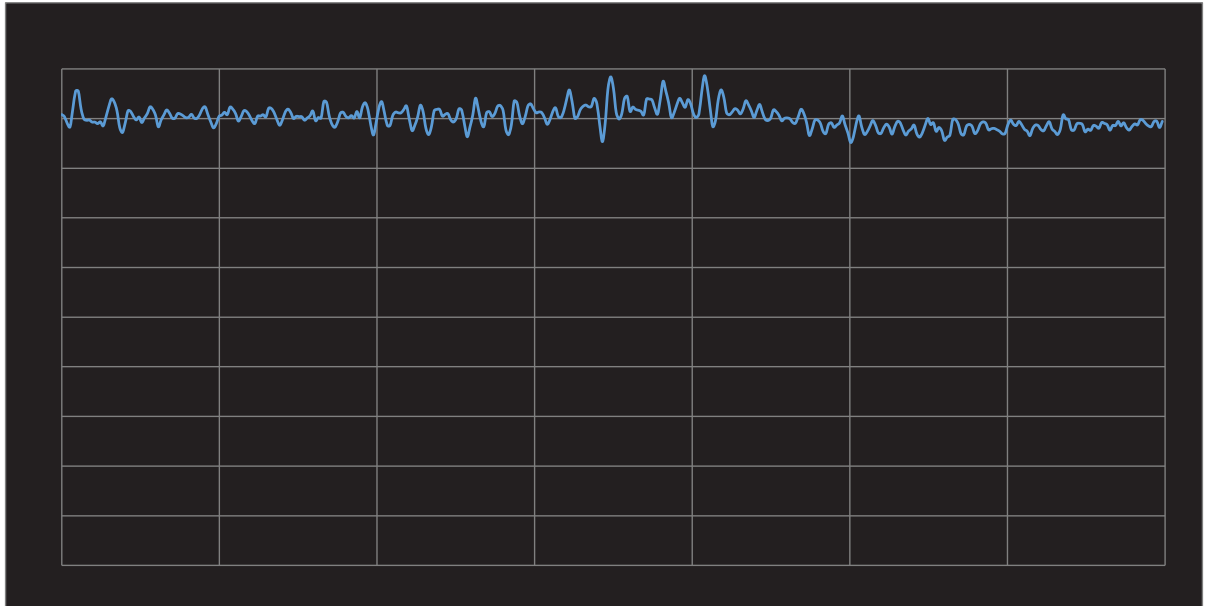
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and lead time: [WR-90 Flexible Waveguide Twist With a UG-39/U Flange Operating From 8.2 GHz to 12.4 GHz PE-W90TF005-24](#)



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WR-90 Flexible Waveguide Twist With a UG-39/U Flange Operating From 8.2 GHz to 12.4 GHz has same day shipment for domestic and worldwide orders. 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" inventory) and [WR-90 Flexible Waveguide Twist With a UG-39/U PE-W90TF005-24](http://www.pasternack.com/wr-90-flexible-waveguide-twist-pe-w90tf005-24)

URL: <http://www.pasternack.com/wr-90-flexible-waveguide-twist-pe-w90tf005-24>

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-W90TF005-24 CAD Drawing

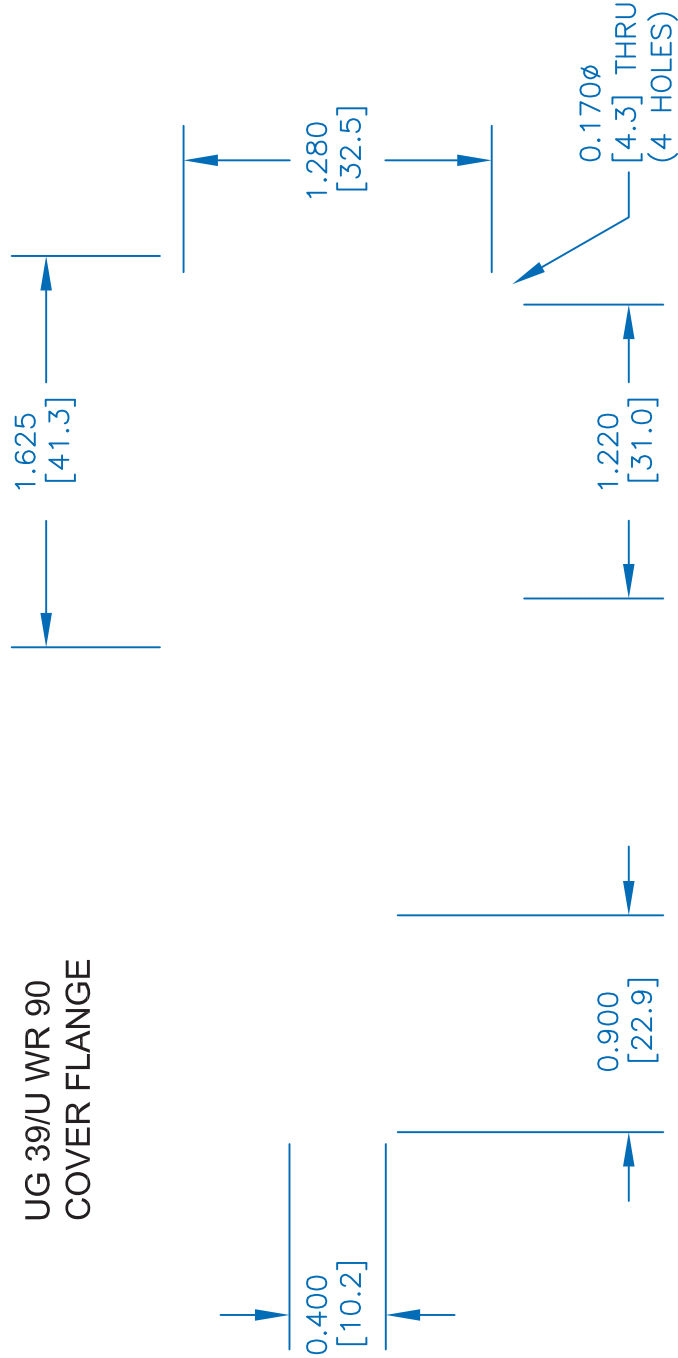
WR-90 Flexible Waveguide Twist With a UG-39/U Flange

Operating From 8.2 GHz to 12.4 GHz

PASTERNAK
PE-W90TF005-24



UG 39/U WR 90
COVER FLANGE



DWG TITLE

PE-W90TF005-24

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].

FSCM NO. 53919

CAD FILE 100115

SCALE N/A

SIZE A

2233



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