



WR-28 Flexible Waveguide Twist With a UG-599/U Flange Operating From 26.5 GHz to 40 GHz

Waveguide Twists Technical Data Sheet

PE-W28TF005-36

Features

- Thirty six inch long WR-28 waveguide
- Twistable
- Flexes in both the E and H plane
- Neoprene sleeve allows pressurization
- 26.5 GHz to 40 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-W28TF005-36 is part of Pasternack's family of flexible, twistable waveguides which operates in the 26.5 to 40 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	26.5		40	GHz
VSWR		1.3:1		
Insertion Loss		1.8		dB

Mechanical Specifications

Waveguide Size	WR-28
Waveguide Design	Twistable
Section Length	36 in [914.4 mm]
E-Plane Minimum Bend Radius, One Time	1 in [25.4 mm]
E-Plane Minimum Bend Radius, Repeated	4 in [101.6 mm]
H-Plane Minimum Bend Radius, One Time	2 in [50.8 mm]
H-Plane Minimum Bend Radius, Repeated	8 in [203.2 mm]
Maximum Offset Rotation, One Time	180 degrees/ft
Maximum Offset Rotation, Repeated	70 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-28 Flexible Waveguide Twist With a UG-599/U Flange Operating From 26.5 GHz to 40 GHz PE-W28TF005-36](#)



WR-28 Flexible Waveguide Twist With a UG-599/U
Flange Operating From 26.5 GHz to 40 GHz

Waveguide Twists Technical Data Sheet

PE-W28TF005-36

Description	Flange 1	Waveguide	Flange 2
Interface	UG-599/U	WR-28	UG-599/U
Material	Brass	Brass	Brass
Plating		Silver	
Color	Gold	Black	Gold

Environmental Specifications

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

RoHS Compliant

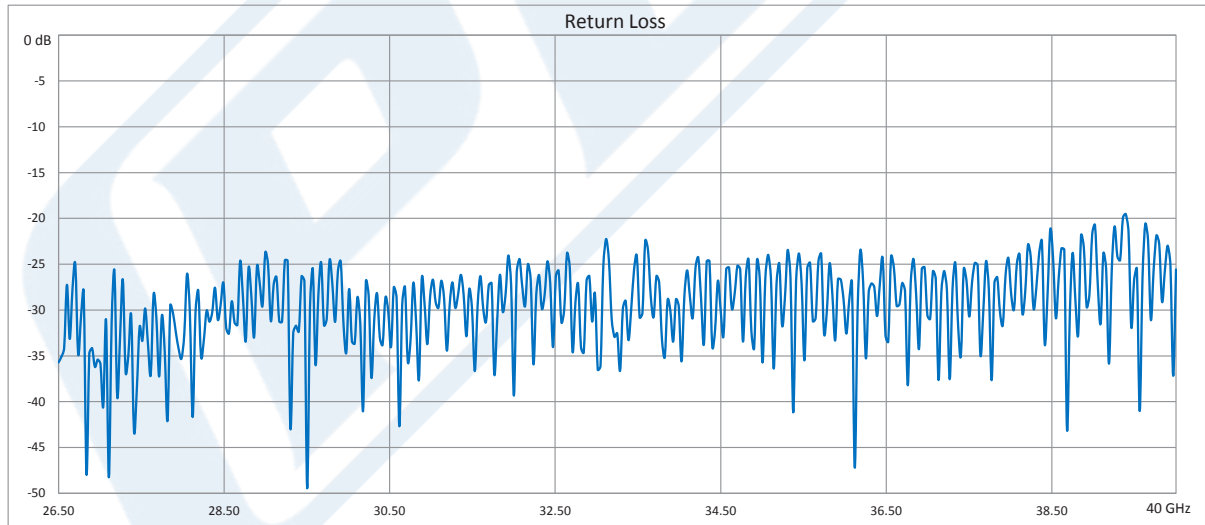
REACH Compliant

12/17/2014

Plotted and Other Data

Notes:

Typical Performance Data



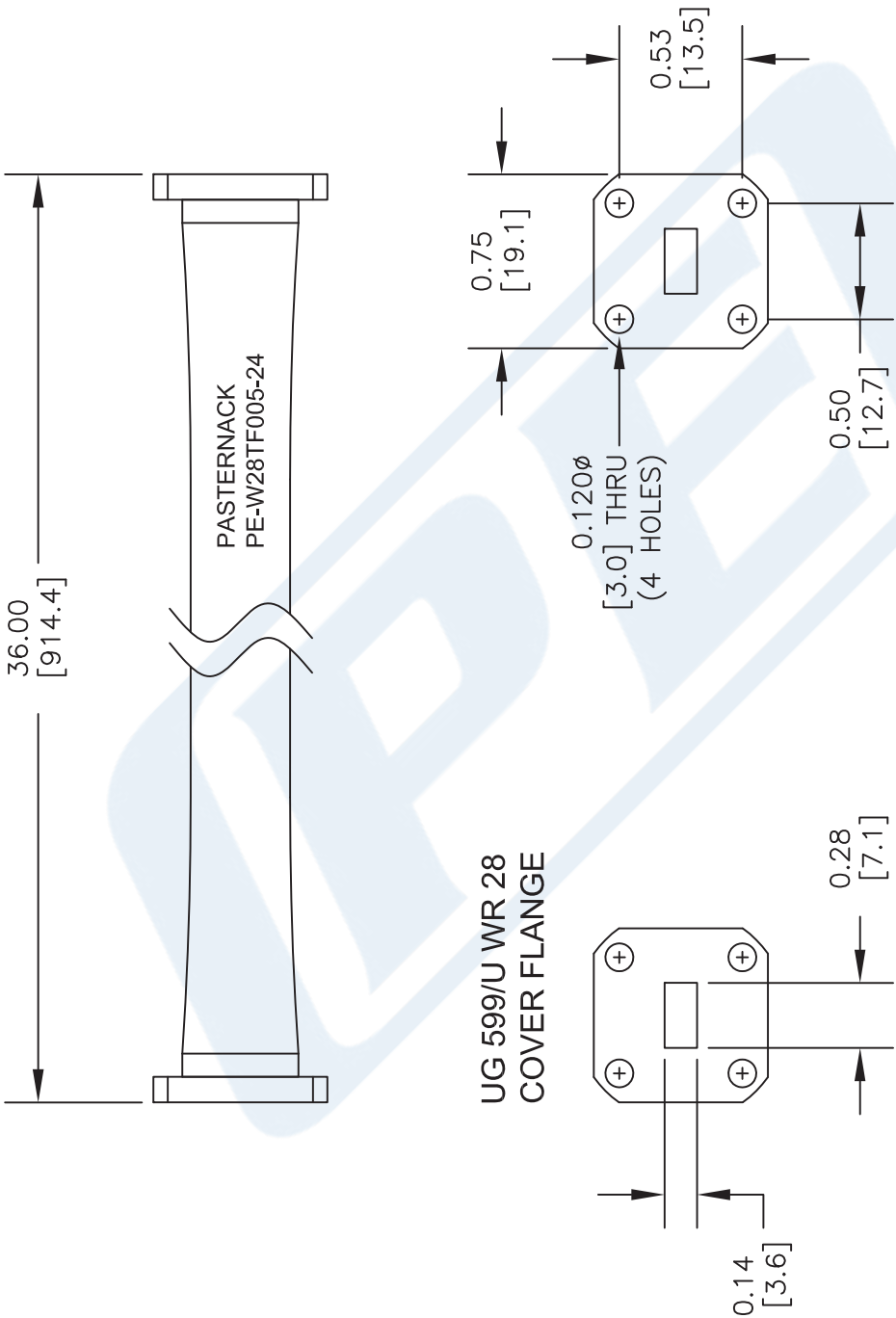
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-28 Flexible Waveguide Twist With a UG-599/U Flange Operating From 26.5 GHz to 40 GHz PE-W28TF005-36](#)

PE-W28TF005-36



PE-W28TF005-36 CAD Drawing

WR-28 Flexible Waveguide Twist With a UG-599/U
Flange Operating From 26.5 GHz to 40 GHz



DWG TITLE

PE-W28TF005-36

- 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 092815

SCALE N/A

SIZE A

2233

PE PASTERNAK
THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com