

WR-42 Twistable Flexible Waveguide 12 Inch, UG-595/U Square Cover Flange Operating From 18 GHz to 26.5 GHz

Flexible Waveguides Technical Data Sheet

Features

- Twelve inch long WR-42 waveguide
- Twistable
- Flexes in both the E and H plane

Applications

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

- Neoprene sleeve allows pressurization
- 18 GHz to 26.5 GHz Frequency Range
- Brass flanges with a silver plated brass body
- Eliminates installation problems caused by misalignment.
- Allows expansion/contraction due to thermal issues.
- Pressurized waveguide systems
- Provides vibration isolation
- Microwave Radio

Description

The PE-W42TF005-12 is part of Pasternack's family of flexible, twistable waveguides which operates in the 18 to 26.5 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 | 18 | | 26.5 | GHz |
| VSWR | | 1.3:1 | | |
| Insertion Loss | | 0.35 | | dB |
| Input Power | | | 100 | Watts |
| Peak Power | | | 39 | KWatts |
| | | | | |

Mechanical Specifications

Waveguide Size Waveguide Design Section Length E-Plane Minimum Bend Radius, One Time E-Plane Minimum Bend Radius, Repeated H-Plane Minimum Bend Radius, One Time H-Plane Minimum Bend Radius, Repeated Maximum Offset Rotation, One Time Maximum Offset Rotation, Repeated Maximum Operating Pressure

WR-42 Twistable 12 [in [304.8 mm]] 1.5 in [38.1 mm] 6 in [152.4 mm] 3 in [76.2 mm] 12 in [304.8 mm] 155 degrees/ft 45 degrees/ft 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-42 Twistable Flexible Waveguide 12 Inch, UG-595/U Square Cover Flange Operating From 18 GHz to 26.5 GHz PE-W42TF005-12

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



PE-W42TF005-12





WR-42 Twistable Flexible Waveguide 12 Inch, UG-595/U Square Cover Flange Operating From 18 GHz to 26.5 GHz

Flexible Waveguides Technical Data Sheet

PE-W42TF005-12

| Description | Flange 1 | Waveguide | Flange 2 Square Cover | |
|-------------|--------------|-----------|--------------------------|--|
| Туре | Square Cover | WR-42 | | |
| Designation | UG-595/U | | UG-595/U | |
| Material | Brass | Brass | Brass | |
| Plating | | Silver | | |
| Color | Gold | Black | Gold | |

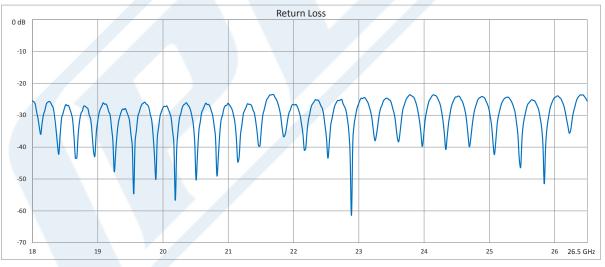
Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-42 Twistable Flexible Waveguide 12 Inch, UG-595/U Square Cover Flange Operating From 18 GHz to 26.5 GHz PE-W42TF005-12

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

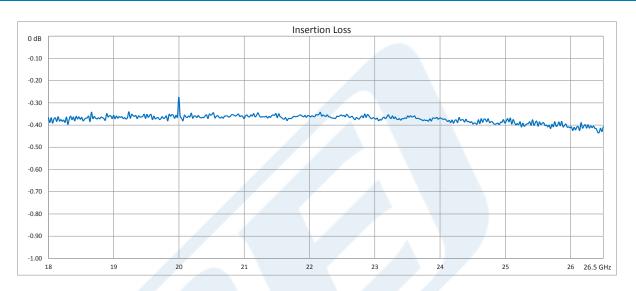




WR-42 Twistable Flexible Waveguide 12 Inch, UG-595/U Square Cover Flange Operating From 18 GHz to 26.5 GHz

Flexible Waveguides Technical Data Sheet

PE-W42TF005-12



WR-42 Twistable Flexible Waveguide 12 Inch, UG-595/U Square Cover Flange Operating From 18 GHz to 26.5 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-42 Twistable Flexible Waveguide 12 Inch, UG-595/U Square Cover Flange Operating From 18 GHz to 26.5 GHz PE-W42TF005-12

URL: https://www.pasternack.com/wr42-twistable-flexible-waveguide-ug595-square-18-26.5-ghz-pe-w42tf005-12-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.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

PE-W42TF005-12 CAD Drawing

WR-42 Twistable Flexible Waveguide 12 Inch, UG-595/U Square Cover Flange Operating From 18 GHz to 26.5 GHz

