

WR-51 Twistable Flexible Waveguide 24 Inch, Square Cover Flange Operating From 15 GHz to 22 GHz



Flexible Waveguides Technical Data Sheet

PE-W51TF005-24

Features

- Twenty four inch long WR-51 waveguide
- Twistable
- Flexes in both the E and H plane

- Neoprene sleeve allows pressurization
- 15 GHz to 22 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-W51TF005-24 is part of Pasternack's family of flexible, twistable waveguides which operates in the 15 to 22 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	15		22	GHz
VSWR		1.15:1		
Insertion Loss		1.1		dB
Input Power			300	Watts
Peak Power			70	KWatts

Mechanical Specifications

Waveguide Size	WR-51
Waveguide Design	Twistable
Section Length	24 [in [609.6 mm]]
E-Plane Minimum Bend Radius, One Time	2 in [50.8 mm]
E-Plane Minimum Bend Radius, Repeated	8 in [203.2 mm]
H-Plane Minimum Bend Radius, One Time	4 in [101.6 mm]
H-Plane Minimum Bend Radius, Repeated	16 in [406.4 mm]
Maximum Offset Rotation, One Time	136 degrees/ft
Maximum Offset Rotation, Repeated	34 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-51 Twistable Flexible Waveguide 24 Inch, Square Cover Flange Operating From 15 GHz to 22 GHz PE-W51TF005-24

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
Туре	Square Cover	WR-51	Square Cover
Designation	None		None
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



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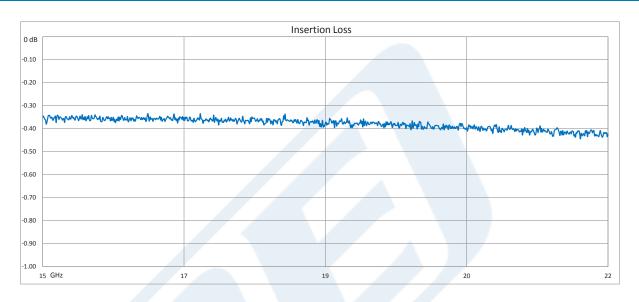




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URL: https://www.pasternack.com/wr51-twistable-flexible-waveguide-square-15-22-ghz-pe-w51tf005-24-p.aspx

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PE-W51TF005-24 CAD Drawing

WR-51 Twistable Flexible Waveguide 24 Inch, Square Cover Flange Operating From 15 GHz to 22 GHz

