



WR-42 Flexible Straight Waveguide Section 12 Inch Length with UG-595/U Flange Operating from 18 GHz to 26.5 GHz

TECHNICAL DATA SHEET

PE-W42SF005-12

The PE-W42SF005-12 is part of Pasternack's family of flexible, seamless waveguides which operates in the 18 to 26.5 GHz range. The waveguide body is made of silver plated brass. It can be 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 and provides mechanical support.

Features

- WR-42 waveguide
- Flexes in both the E and H plane
- 18 GHz to 26.5 GHz Frequency Range

- Brass flanges with a silver plated brass body
- Neoprene sleeve provides added protection and mechanical support

Applications

- Allows expansion/contraction due to thermal issues.
- · Test Benches

- · Microwave Radio
- Eliminates installation problems caused by misalignment.
- Pressurized waveguide systems
- · Provides vibration isolation

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	GHz
VSWR		1.15:1		
Insertion Loss		0.27		dB

Mechanical Specifications

Waveguide Size
WR-42
Waveguide Design
Flexible
Section Length
E-Plane Minimum Bend Radius, One Time
H-Plane Minimum Bend Radius, One Time
Maximum Operating Pressure
WR-42
Flexible
12 in [304.8 mm]
0.39 in [9.91 mm]
0.8 in [20.32 mm]

Des	scription	Flange 1	Waveguide	Flange 2
Interface		UG-595/U	WR-42	UG-595/U
Material	100	Brass	Copper	Brass
Plating			Silver	
Color		Gold	Black	Gold

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

RoHS Compliant 12/17/2014

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-42 Flexible Straight Waveguide Section 12 Inch Length with UG-595/U Flange Operating from 18 GHz to 26.5 GHz PE-W42SF005-12

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



ISO 9001 : 2008 Registered





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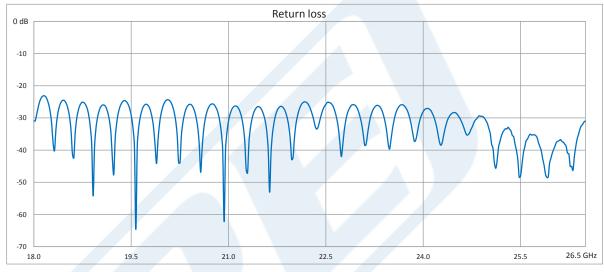
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Notes:

Values at +25 °C, sea level

Power Data





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WR-42 Flexible Straight Waveguide Section 12 Inch Length with UG-595/U 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% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/wr-42-straight-waveguide-section-ug-595-18-26.5-ghz-pe-w42sf005-12-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.

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PE-W42SF005-12 CAD Drawing

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