



## WR-137 Flexible Straight Waveguide Section 12 Inch Length with UG-344/U Flange Operating from 5.85 GHz to 8.2 GHz

### TECHNICAL DATA SHEET

PE-W137SF005-12

The PE-W137SF005-12 is part of Pasternack's family of flexible, seamless waveguides which operates in the 5.85 to 8.20 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-137 waveguide
- Flexes in both the E and H plane
- 5.85 GHz to 8.20 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 | 5.85    |         | 8.2     | GHz   |
| VSWR            |         | 1.07:1  |         |       |
| Insertion Loss  |         | 0.06    |         | dB    |

#### Mechanical Specifications

|                                       |                    |
|---------------------------------------|--------------------|
| Waveguide Size                        | WR-137             |
| Waveguide Design                      | Flexible           |
| Section Length                        | 12 in [304.8 mm]   |
| E-Plane Minimum Bend Radius, One Time | 1.18 in [29.97 mm] |
| H-Plane Minimum Bend Radius, One Time | 1.97 in [50.04 mm] |
| Maximum Operating Pressure            | 30 psig            |

| Description | Flange 1 | Waveguide | Flange 2 |
|-------------|----------|-----------|----------|
| Interface   | UG-344/U | WR-137    | UG-344/U |
| Material    | Brass    | Copper    | Brass    |
| Plating     |          | Silver    |          |
| Color       | Gold     | Black     | Gold     |

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

|                 |            |
|-----------------|------------|
| RoHS Compliant  |            |
| REACH 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-137 Flexible Straight Waveguide Section 12 Inch Length with UG-344/U Flange Operating from 5.85 GHz to 8.2 GHz PE-W137SF005-12](#)



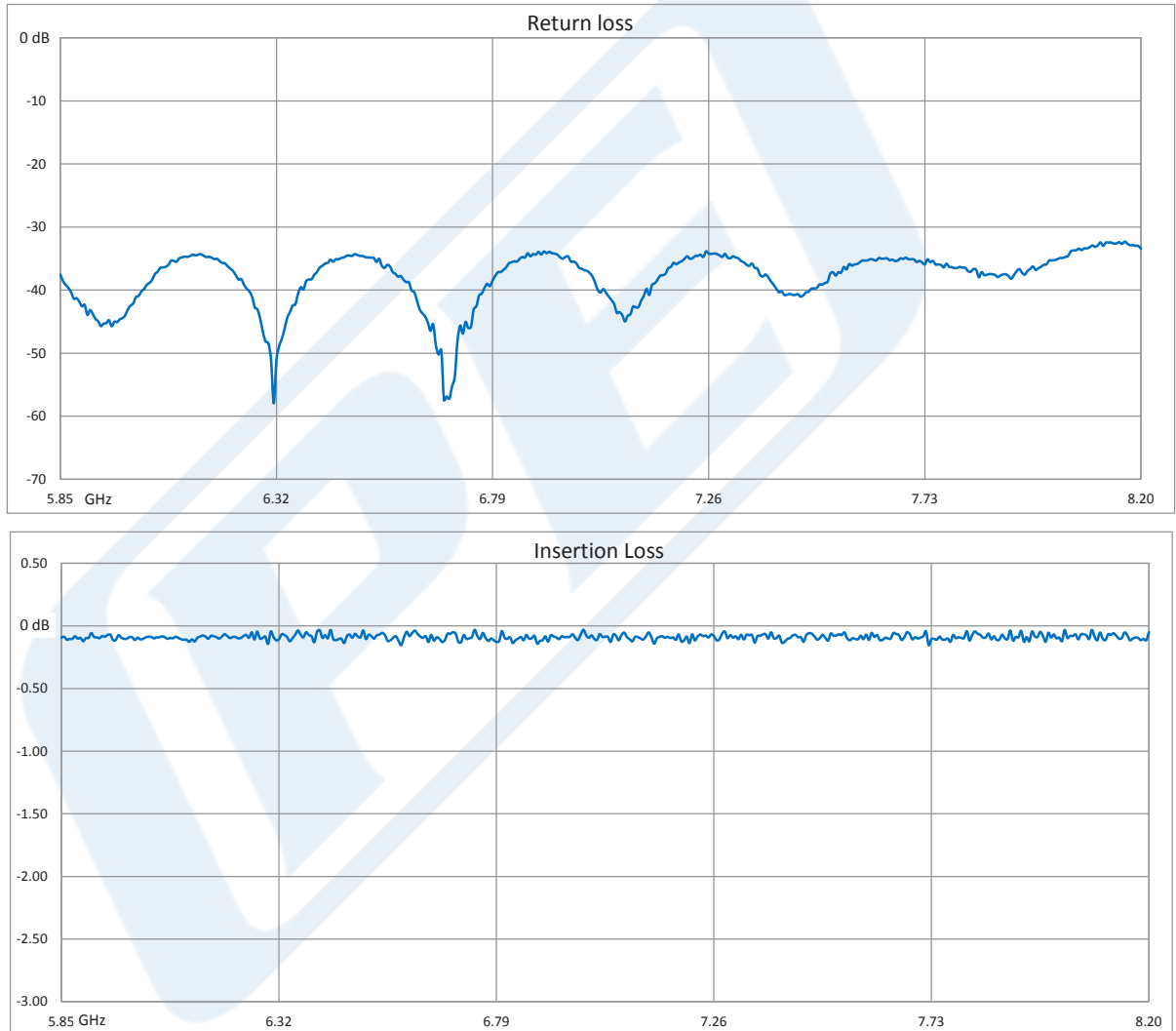
WR-137 Flexible Straight Waveguide Section 12 Inch Length with UG-344/U Flange Operating from 5.85 GHz to 8.2 GHz

TECHNICAL DATA SHEET PE-W137SF005-12

Notes:

- Values at +25 °C, sea level

**Power Data**



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-137 Flexible Straight Waveguide Section 12 Inch Length with UG-344/U Flange Operating from 5.85 GHz to 8.2 GHz PE-W137SF005-12](#)





WR-137 Flexible Straight Waveguide Section 12 Inch Length  
with UG-344/U Flange Operating from 5.85 GHz to 8.2 GHz

TECHNICAL DATA SHEET

PE-W137SF005-12

WR-137 Flexible Straight Waveguide Section 12 Inch Length with UG-344/U Flange Operating from 5.85 GHz to 8.2 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.

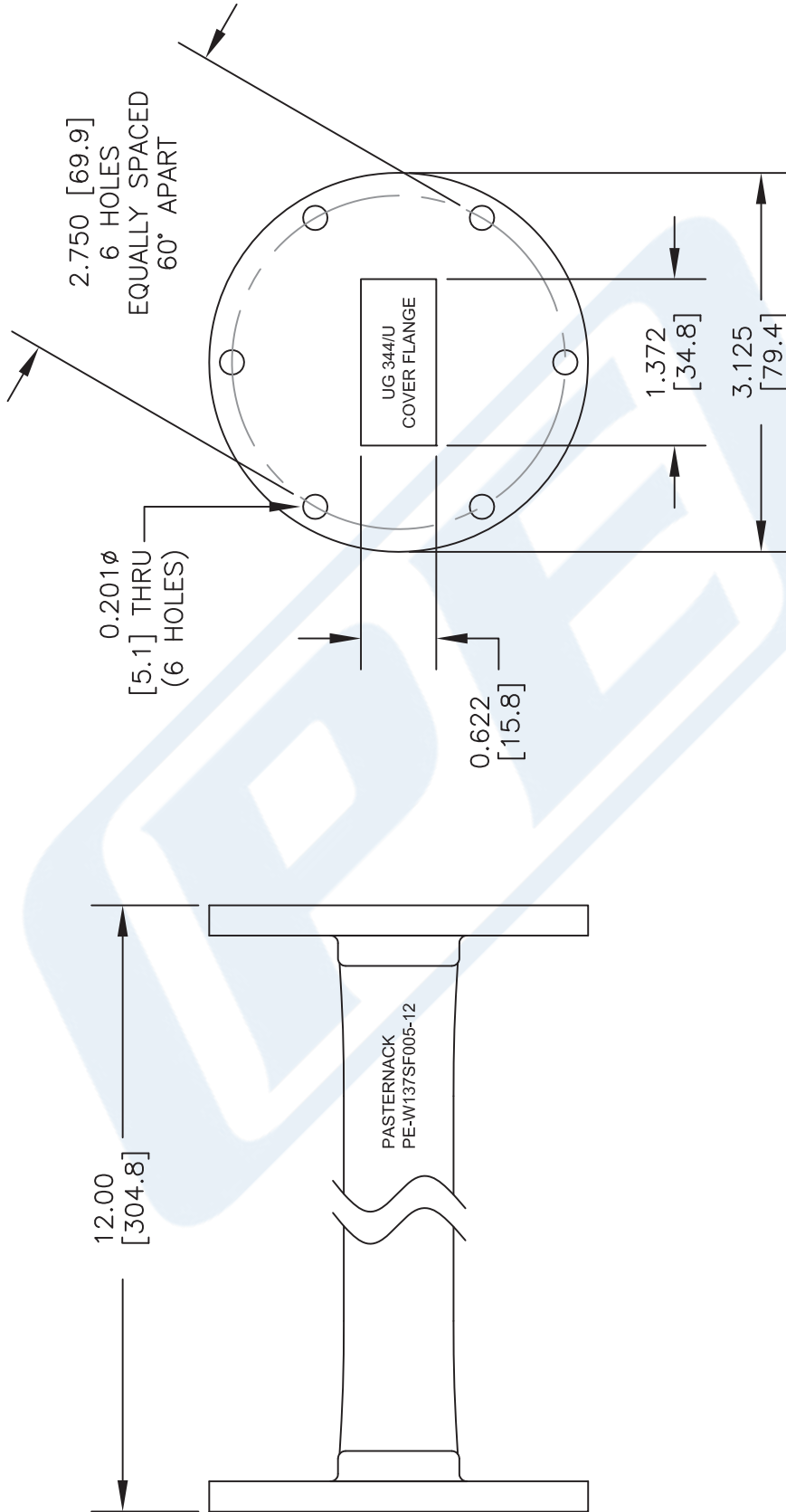
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-137 Flexible Straight Waveguide Section 12 Inch Length with UG-344/U Flange Operating from 5.85 GHz to 8.2 GHz PE-W137SF005-12](http://www.pasternack.com/wr-137-straight-waveguide-section-ug-344-5.85-8.2-ghz-pe-w137sf005-12-p.aspx)

URL: <http://www.pasternack.com/wr-137-straight-waveguide-section-ug-344-5.85-8.2-ghz-pe-w137sf005-12-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.

# PE-W137SF005-12 CAD Drawing

WR-137 Flexible Straight Waveguide Section 12 Inch Length with  
UG-344/U Flange Operating from 5.85 GHz to 8.2 GHz



DWG TITLE

**PE-W137SF005-12**

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 101315

SCALE N/A

SIZE A

2233



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