



WR-12 90 Degree Right-hand Waveguide Twist with a UG-387/U-Mod Flange Operating from 60 GHz to 90 GHz

## Waveguide Twists Technical Data Sheet

**PEW12TW001**

### Features

- WR-12 Waveguide
- 60 to 90 GHz
- UG-387/U-Mod Flange
- 1.05:1 Maximum VSWR
- 90° Right-hand Twist

### Applications

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production Systems

### Description

The PEW12TW001 is a 90 degree waveguide twist that is part of a family of precision manufactured twists with round flange per MIL-DTL-85. The family includes right and left hand 45 degree twists as well as 90 degree twists. These twists are offered in the Ka through W waveguide bands (18 to 110 GHz).

### Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 60      |         | 90      | GHz   |
| VSWR            |         | 1.06:1  |         |       |
| Insertion Loss  |         |         | 0.25    | dB    |

Electrical Specification Notes:

VSWR measurement is the representation of the load used for testing

### Mechanical Specifications

Waveguide Size  
Section Length

WR-12  
1.25 in [[31.75 mm]]

| Description | Flange 1     | Waveguide | Flange 2     |
|-------------|--------------|-----------|--------------|
| Interface   | UG-387/U-Mod | WR-12     | UG-387/U-Mod |
| Material    | Brass        | Brass     | Brass        |
| Plating     | Gold         | Gold      | Gold         |
| Color       | Gold         | Gold      | Gold         |

### Compliance Certifications (see [product page](#) for current document)

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-12 90 Degree Right-hand Waveguide Twist with a UG-387/U-Mod Flange Operating from 60 GHz to 90 GHz PEW12TW001](#)



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WR-12 90 Degree Right-hand Waveguide Twist with a UG-387/U-Mod Flange Operating from 60 GHz to 90 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.

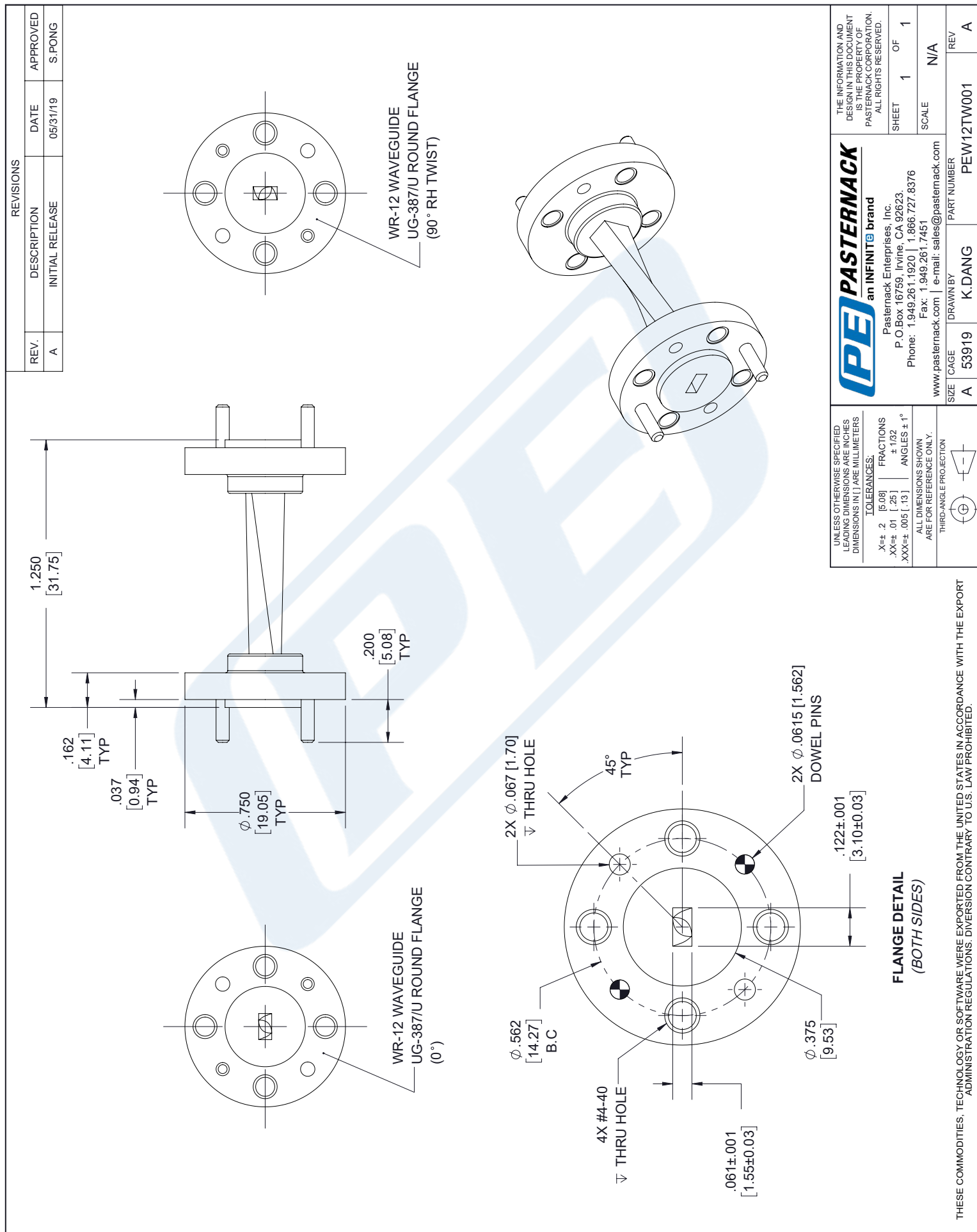
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

# PEW12TW001 CAD Drawing

WR-12 90 Degree Right-hand Waveguide Twist with a UG-387/U-Mod Flange Operating from 60 GHz to 90 GHz



|                                                                                                                                                                                                                                     |  |                                                                                                                                         |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>PE PASTERNAK</b><br>an INFINITO brand<br>Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>www.pasternack.com   e-mail: sales@pasternack.com |  | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.<br>SHEET 1 OF 1<br>SCALE N/A |  |
| SIZE A<br>CAGE<br>DRAWN BY K.DANG<br>PART NUMBER PEW12TW001<br>REV A                                                                                                                                                                |  |                                                                                                                                         |  |