

WR-137 90 Degree Right-Hand Waveguide Twist With a FDP70 Flange Operating From 5.38 GHz to 8.17 GHz



PEW137TW001

Features

- WR-137 Waveguide
- Operating Frequency Range from 5.38 GHz to 8.17 GHz
- 90° Waveguide Twist
- Low Insertion Loss 0.2 dB
- Low VSWR 1.1:1
- Excellent Impedance Matching
- FDP70 Flanges
- Durable Brass Material Construction
- High RF Performance

Applications

- Radar Systems
- Satellite Communications (SATCOM)
- Aerospace & Defense
- Electronic Warfare (EW)
- RF & Microwave Test Systems
- Microwave Radio Systems
- Telecom
- Infrastructure
- Waveguide System Integration
- Research & Development
- Laboratory Test Setups

Description

The PEW137TW001 is a WR-137 waveguide twist designed to efficiently rotate the polarization of microwave signals while maintaining excellent RF performance over the 5.38 to 8.17 GHz frequency range. Engineered with low insertion loss and excellent impedance matching, this waveguide twist provides a reliable transition between waveguide components with different orientations. Manufactured from Brass material and featuring FDP70 flanges, it offers rugged mechanical construction for demanding laboratory, commercial, industrial, aerospace, and defense applications. This waveguide twist is ideal for simplifying system layouts, reducing mechanical constraints, and maintaining signal integrity in microwave transmission systems. As part of Pasternack's extensive waveguide product portfolio, this component is stocked and available for same-day shipment.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	5.38		8.17	GHz
VSWR			1.1:1	
Insertion Loss			0.2	dB

Mechanical Specifications

Waveguide Size		WR-137	
Description	Flange 1	Waveguide	Flange 2
Flange Type	FDP70		FDP70
Interface		WR-137	
Material		Brass Copper	
Plating		Passivated	
Color	Gray	Gray	Gray

Environmental Specifications

Temperature Operating Range	-40 to 70 deg C
-----------------------------	-----------------

WR-137 90 Degree Right-Hand Waveguide Twist With a FDP70 Flange Operating From 5.38 GHz to 8.17 GHz



PEW137TW001

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

Plotted and Other Data

Notes:

Typical Performance Data

WR-137 90 Degree Right-Hand Waveguide Twist With a FDP70 Flange Operating From 5.38 GHz to 8.17 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-137 90 Degree Right-Hand Waveguide Twist With a FDP70 Flange Operating From 5.38 GHz to 8.17 GHz PEW137TW001](#)

URL: <https://www.pasternack.com/wr-137-90-waveguide-twist-5.38-8.17-ghz-pew137tw001-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PEW137TW001 CAD Drawing

WR-137 90 Degree Right-Hand Waveguide Twist With a FDP70 Flange Operating From 5.38 GHz to 8.17 GHz

