

WR-137 90 Degree Right Hand Waveguide Twist with a FDP70 Flange, Operating from 5.38 GHz to 8.17 GHz



FMW137TW001

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 FMW137TW001 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 Fairview Microwave'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
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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 Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-137 90 Degree Right Hand Waveguide Twist with a FDP70 Flange, Operating from 5.38 GHz to 8.17 GHz FMW137TW001](#)

URL: <https://www.fairviewmicrowave.com/wr-137-90-waveguide-twist-5.38-8.17-ghz-fmw137tw001>

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FMW137TW001 CAD Drawing

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