

# FMW137RJ0001 **DATA SHEET**

## WR-137 Waveguide Rotary Joint, CPR137F Flanges, L-Style in Brass

### Description

Waveguide rotary joints are used to connect waveguide components which need to rotate or change orientation during operation within a waveguide system. Designed to perform in harsh operating environment, FMW137RJ001 from Fairview is a WR-137 waveguide rotary joint that operates in the frequency range of 5.85 GHz to 6.72 GHz. This WR-137 waveguide rotary joint has a Max VSWR of 1.25:1. This waveguide rotary join is made of painted brass and incorporates CPR137F/CPR137G flange interface with maximum rotary speed of 30 RPM and minimum life time of 500 x 10<sup>4</sup> Revolutions. Waveguide rotary joints are part of Fairview's comprehensive waveguide product offerings which are available in stock and ready for same-day shipment.

### **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	5.85		6.72	GHz
VSWR			1.25:1	
VSWR 1, Rotational Varia	ance		0.05	
Insertion Loss			0.3	dB
Input Power (CW)			1	kWatts
Peak Power			10	kWatts
Insertion Loss Rotationa	l Variance		0.05	dB
Phase Rotational Variance	е		2	Degrees

#### **Mechanical Specifications**

**Temperature** 

Operating Temperature Storage Temperature Humidity

Interface

Waveguide Size Flange Type 1 Flange Type 2 Body Material and Plating Rotating Speed Lifetime Starting Torque Torque During Rotation **IP Protection Level** 

-40 to 70 °C -55 to 85 °C 85% (Max)

WR-137

CPR-137F CPR-137G Brass, Paint 30 RPM 500 x 10<sup>4</sup> Revolutions 2.65 in-lbs [0.3 Nm] 1.77 in-lbs [0.2 Nm] **IP64** 



#### Features:

- WR-137 Waveguide
- Operating Frequency Range from 5.85 GHz to 6.72 GHz
- CPR137F/CPR137G Flanges
- L-Style Configuration
- 1.25:1 Max VSWR
- 1000 Watts (CW) Max Power Handling
- Insertion loss(Max): 0.3 dB Rotating Speed (Max): 30 RPM
- Lifetime (Min): 500 x
- 10^4 Revolutions

## Applications:

- Radar Systems
- Military and Space
- Wireless Radio Systems
- **Communication Systems**
- R&D Labs
- Maritime Waveguide Systems

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





#### **Compliance Certifications** (see product page for current document)

#### Plotted and Other Data

WR-137 Waveguide Rotary Joint, CPR137F Flanges, L-Style in Brass 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 Waveguide Rotary Joint, CPR137F Flanges, L-Style in Brass FMW137RJ0001

URL: https://www.fairviewmicrowave.com/undefined-url-for-pn-fmw137rj0001-fmw137rj0001-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689





