



WR-137 Waveguide Rotary Joint, CPR137F/ CPR137G Flanges, L-Style in Brass

TECHNICAL DATA SHEET

PEW137RJ0001

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 10⁴ Revolutions

Applications

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

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, PEW137RJ001 from Pasternack 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 joint 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 10⁴ Revolutions. Waveguide rotary joints are part of Pasternack's comprehensive waveguide product offerings which are available in stock and ready for same-day shipment.

Electrical Specifications (Values at 25°C, sea level)

Description	Minimum	Typical	Maximum	Units
Frequency Range	5.85		6.72	GHz
VSWR			1.25:1	
VSWR 1, Rotational Variance			0.05	
Insertion Loss			0.3	dB
Input Power (CW)			1	kWatts
Peak Power			10	kWatts
Insertion Loss Rotational Variance			0.05	dB
Phase Rotational Variance			2	Degrees

Mechanical Specifications

Description	Minimum	Typical	Maximum	Units
Temperature				
Operating Temperature		-40 to 70 °C		
Storage Temperature		-55 to 85 °C		
Humidity		85% (Max)		

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-137 Waveguide Rotary Joint, CPR137F/CPR137G Flanges, L-Style in Brass PE-W137RJ0001](#)



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Size

Weight 0.0622 lbs [28.21 g]

Interface

Waveguide Size	WR-137
Flange Type 1	CPR-137F
Flange Type 2	CPR-137G
Body Material and Plating	Brass, Paint
Rotating Speed	30 RPM
Lifetime	500 x 10 ⁴ Revolutions
Starting Torque	2.65 in-lbs [0.3 Nm]
Torque During Rotation	1.77 in-lbs [0.2 Nm]
IP Protection Level	IP64

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

Plotted and Other Data

WR-137 Waveguide Rotary Joint, CPR137F/CPR137G Flanges, L-Style in Brass 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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URL: <https://www.pasternack.com/pew137rj0001-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.

PEW137RJ0001 CAD Drawing

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