

WR-187 Waveguide Rotary Joint, CPR187F/CPR187G 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, FMW187RJ001 from Fairview is a WR-187 waveguide rotary joint that operates in the frequency range of 4.4 GHz to 5 GHz. This WR-187 waveguide rotary joint has a Max VSWR of 1.15:1. This waveguide rotary joint is made of painted brass and incorporates CPR187F/CPR187G flange interface with maximum rotary speed of 30 RPM and minimum life time of 500×10^4 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	Typ	Max	Units
Frequency Range	4.4		5	GHz
VSWR			1.15:1	
VSWR 1, Rotational Variance			0.05	
Insertion Loss			0.25	dB
Input Power (CW)			1	kWatts
Peak Power			20	kWatts
Insertion Loss Rotational Variance			0.05	dB
Phase Rotational Variance			2	Degrees

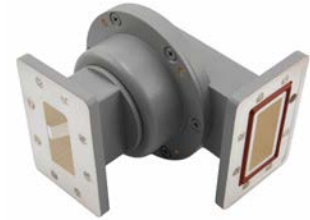
Mechanical Specifications

Temperature

Operating Temperature	-40 to 70 °C
Storage Temperature	-55 to 85 °C
Humidity	85% (Max)

Interface

Waveguide Size	WR-187
Flange Type 1	CPR-187F
Flange Type 2	CPR-187G
Body Material and Plating	Brass, Paint
Rotating Speed	30 RPM
Lifetime	500×10^4 Revolutions
Starting Torque	2.65 in-lbs [0.3 Nm]
Torque During Rotation	1.77 in-lbs [0.2 Nm]
IP Protection Level	IP64



Features:

- WR-187 Waveguide
- Operating Frequency Range from 4.4 GHz to 5 GHz
- CPR187F/CPR187G Flanges
- L-Style Configuration
- 1.15:1 Max VSWR
- 1000 Watts (CW) Max Power Handling
- Insertion loss(Max): 0.3 dB
- Rotating Speed (Max): 30 RPM
- Lifetime (Min): 500×10^4 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-187 Waveguide Rotary Joint, CPR187F/CPR187G 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-187 Waveguide Rotary Joint, CPR187F/CPR187G Flanges, L-Style in Brass FMW187RJ0001](#)

URL: <https://www.fairviewmicrowave.com/undefined-url-for-pn-fmw187rj0001-fmw187rj0001-p.aspx>

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