

FMW187RJ0002 DATA SHEET

WR-187 Waveguide Rotary Joint, CPR187F Flanges, Inline Style in Aluminum

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, FMW187RJ002 from Fairview is a WR-187 waveguide rotary joint that operates in the frequency range of 4.6 GHz to 5.4 GHz. This WR-187 waveguide rotary joint has a Max VSWR of 1.2:1. This waveguide rotary join is made of painted aluminum and incorporates CPR187F/CPR187F flange interface with maximum rotary speed of 30 RPM and minimum life time of 500 x 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	Тур	Max	Units
Frequency Range	4.6		5.4	GHz
VSWR			1.2:1	
VSWR 1, Rotational Variance		0.05		
Insertion Loss			0.25	dB
Input Power (CW)			600	Watts
Peak Power			20	kWatts
Insertion Loss Rotational	l Variance		0.05	dB
Phase Rotational Variance	e		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-187 CPR-187F CPR-187F Aluminum, Paint 30 RPM 500 x 10^4 Revolutions 1.77 in-lbs [0.2 Nm] 0.88 in-lbs [0.1 Nm] IP54



Features:

- WR-187 Waveguide
- Operating Frequency Range from 4.6 GHz to 5.4 GHz
- CPR187F/CPR187F Flanges
- Inline Style Configuration
- 1.2:1 Max VSWR
- 600 Watts (CW) Max
 Power Handling
- Insertion loss(Max): 0.25 dBRotating 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

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Compliance Certifications (see product page for current document)

Plotted and Other Data

WR-187 Waveguide Rotary Joint, CPR187F Flanges, Inline Style in Aluminum 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 Flanges, Inline Style in Aluminum FMW187RJ0002

URL: https://www.fairviewmicrowave.com/undefined-url-for-pn-fmw187rj0002-fmw187rj0002-p.aspx

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