PASTERNACK
an INFINITE brand

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

TECHNICAL DATA SHEET PEW187RJ0002

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 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

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, PEW187RJ002 from Pasternack 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 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	4.6		5.4	MHz
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 Variance			0.05	dB
Phase Rotational Variance			2	Degrees

Mechanical Specifications

Description	Minimum	Typical	Maximum	Units
Temperature				
Operating Temperature		-40 to 70 ºC		
Storage Temperature		-55 to 85 ºC		
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-187 Waveguide Rotary Joint, CPR187F Flanges, Inline Style in Aluminum PE-W187RJ0002

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PASTERNACK
an INFINITE brand

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

TECHNICAL DATA SHEET PEW187RJ0002

Size

Weight	0.0622 lbs [28.21 g]

Interface

Waveguide Size	WR-187
Flange Type 1	CPR-187F
Flange Type 2	CPR-187F
Body Material and Plating	Aluminum, Paint
Rotating Speed	30 RPM
Lifetime	500 x 10^4 Revolutions
Starting Torque	1.77 in-lbs [0.2 Nm]
Torque During Rotation	0.88 in-lbs [0.1 Nm]
IP Protection Level	IP54

Compliance Certifications (see product page for current document)

Plotted and Other Data

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

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: WR-187 Waveguide Rotary Joint, CPR187F Flanges, Inline Style in Aluminum PEW187RJ0002

URL: https://www.pasternack.com/pew187rj0002-p.aspx

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PEW187RJ0002 CAD Drawing

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