





TECHNICAL DATA SHEET

PEW28RJ0001

Features

- WR-28 Waveguide
- Operating Frequency Range from 29 GHz to 31 GHz
- FBP320/UG599/U Flanges
- · L-Style Configuration
- 1.2:1 Max VSWR

- 100 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

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, PEW28RJ001 from Pasternack is a WR-28 waveguide rotary joint that operates in the frequency range of 29 GHz to 31 GHz. This WR-28 waveguide rotary joint has a Max VSWR of 1.2:1. This waveguide rotary joint is made of painted brass and incorporates FBP320/UG599/U 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	29		31	GHz
VSWR			1.2:1	
VSWR 1, Rotational Variance			0.05	
Insertion Loss			0.35	dB
Input Power (CW)			100	Watts
Peak Power			500	Watts
Insertion Loss Rotational Variance			0.05	dB
Phase Rotational Variance			3	Degrees

Mechanical Specifications

Description	Minimum	Typical	Maximum	Units	
Temperature Operating Temperature		-40 to 70 °C			
Storage Temperature Humidity	-55 to 85 °C 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-28 Waveguide Rotary Joint, FBP320/UG599/U Flanges, L-Style in Brass PEW28RJ0001

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





WR-28 Waveguide Rotary Joint, FBP320/ UG599/U Flanges, L-Style in Brass

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Size

Weight 0.0622 lbs [28.21 g]

Interface

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

WR-28
FBP320
UG599/U
Brass, Paint
30 RPM
500 x 10^4 Revolutions
1.77 in-lbs [0.2 Nm]
0.88 in-lbs [0.1 Nm]

Torque During Rotation 0.88
IP Protection Level IP54

Compliance Certifications (see product page for current document)

Plotted and Other Data

WR-28 Waveguide Rotary Joint, FBP320/UG599/U 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/pew28rj0001-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.

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PEW28RJ0001 CAD Drawing

WR-28 Waveguide Rotary Joint, FBP320/UG599/U Flanges, L-Style in Brass

