

FMW28RJ0001 DATA SHEET

WR-28 Waveguide Rotary Joint, FBP320/UG599/U 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, FMW28RJ001 from Fairview 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 500×10^4 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	29		31	GHz
VSWR			1.2:1	
VSWR 1, Rotational Varia	ance		0.05	
Insertion Loss			0.35	dB
Input Power (CW)			100	Watts
Peak Power			500	Watts
Insertion Loss Rotationa	l Variance		0.05	dB
Phase Rotational Variance	e		3	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-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] IP54



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 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-28 Waveguide Rotary Joint, FBP320/UG599/U 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-28 Waveguide Rotary Joint, FBP320/UG599/U Flanges, L-Style in Brass FMW28RJ0001

URL: https://www.fairviewmicrowave.com/undefined-url-for-pn-fmw28rj0001-fmw28rj0001-p.aspx

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