

WR-75 Waveguide Rotary Joint, UG Cover 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, FMW75RJ003 from Fairview is a WR-75 waveguide rotary joint that operates in the frequency range of 13.75 GHz to 14.5 GHz. This WR-75 waveguide rotary joint has a Max VSWR of 1.2:1. This waveguide rotary joint is made of painted aluminum and incorporates UG Cover/UG Cover flange interface with maximum rotary speed of 30 RPM and minimum life time of 500 x 10⁴ 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	Мах	Units
Frequency Range	13.75		14.5	GHz
VSWR			1.2:1	
VSWR 1, Rotational Variance		0.05		
Insertion Loss			0.3	dB
Input Power (CW)			100	Watts
Peak Power			1	kWatts
Insertion Loss Rotational	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-75 UG Cover UG Cover Aluminum, Paint 30 RPM 500 x 10⁴ Revolutions 1.77 in-lbs [0.2 Nm] 0.88 in-lbs [0.1 Nm] IP54



FMW75RJ0003 DATA SHEET

Features:

- WR-75 Waveguide
- Operating Frequency Range from 13.75 GHz to 14.5 GHz
- UG Cover/UG Cover Flanges
- Inline 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

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)

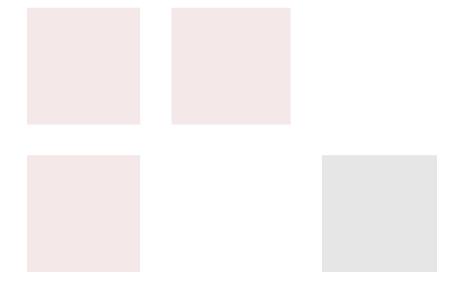
Plotted and Other Data

WR-75 Waveguide Rotary Joint, UG Cover 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-75 Waveguide Rotary Joint, UG Cover Flanges, Inline Style in Aluminum FMW75RJ0003

URL: https://www.fairviewmicrowave.com/undefined-url-for-pn-fmw75rj0003-fmw75rj0003-p.aspx

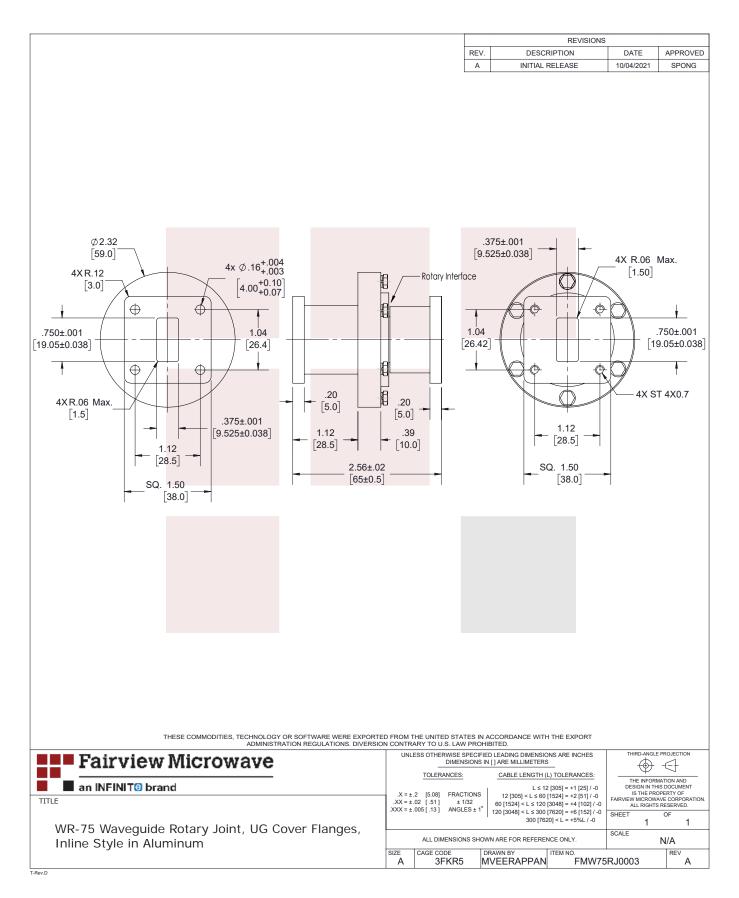
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



Fairview Microwave







301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689