

WR-284 90 Degree Waveguide Right Hand Twist
Using a UG Cover And Grooved Flanges And a
2.6 GHz to 3.95 GHz Frequency Range



FMW284TW001

Features

- WR-284 Waveguide
- UG Cover and UG Grooved Flange
- 2.6 GHz to 3.95 GHz Frequency Ranges
- 90° Right Hand (Clockwise) Twist

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

Description

The FMW284TW001 is a 90 degree WR-284 waveguide twist that is part of a family of precision manufactured waveguide twists with UG Cover and UG Grooved flanges. The family includes right and left hand 45 degree twists as well as 90 degree twists. These twists are offered in the Ka through W waveguide bands (18 to 110 GHz).

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 2.6 | | 3.95 | GHz |
| VSWR | | 1.15:1 | | |
| Insertion Loss | | 0.2 | | dB |

Mechanical Specifications

| Waveguide Size | WR-284 | | |
|----------------|----------------------|---------------------|---------------------|
| Section Length | 11.81 in [299.97 mm] | | |
| Description | Flange 1 | Waveguide | Flange 2 |
| Flange Type | UG Cover | | UG Grooved |
| Interface | UG | WR-284 | UG |
| Material | Aluminum | Aluminum | Aluminum |
| Plating | Chromate Conversion | Chromate Conversion | Chromate Conversion |
| Color | Gray | Gray | Gray |

Environmental Specifications

| | |
|-----------------------------|-----------------|
| Temperature Operating Range | -40 to 70 deg C |
|-----------------------------|-----------------|

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

WR-284 90 Degree Waveguide Right Hand Twist Using a UG Cover And Grooved Flanges And a 2.6 GHz to 3.95 GHz Frequency Range



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Typical Performance Data

WR-284 90 Degree Waveguide Right Hand Twist Using a UG Cover And Grooved Flanges And a 2.6 GHz to 3.95 GHz Frequency Range 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.

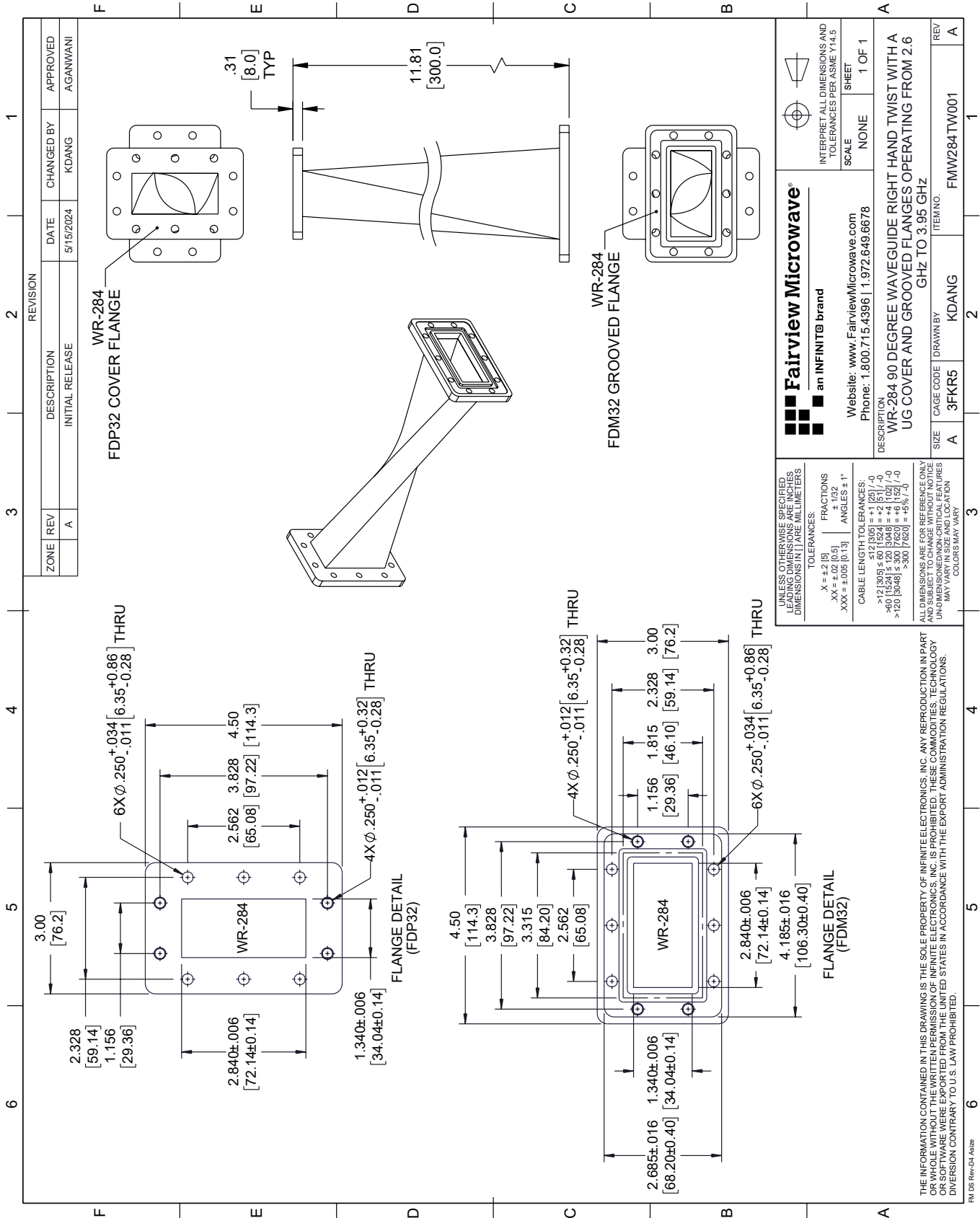
For additional information on this product, please click the following link: [WR-284 90 Degree Waveguide Right Hand Twist Using a UG Cover And Grooved Flanges And a 2.6 GHz to 3.95 GHz Frequency Range FMW284TW001](https://www.fairviewmicrowave.com/wr-284-90-degree-waveguide-right-hand-twist-using-a-ug-cover-and-grooved-flanges-and-a-2.6-ghz-to-3.95-ghz-frequency-range-fmw284tw001)

URL: <https://www.fairviewmicrowave.com/wr-284-90-waveguide-twist-ug-2.6-3.95-ghz-fmw284tw001-p.aspx>

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FMW284TW001 CAD Drawing

WR-284 90 Degree Waveguide Right Hand Twist Using a UG Cover And Grooved Flanges And a 2.6 GHz to 3.95 GHz Frequency Range



| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|-----------|------------|----------|
| | A | INITIAL RELEASE | 5/15/2024 | KDANG | AGANWANI |

| REVISION | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|----------|-----------------|-----------|------------|----------|
| | INITIAL RELEASE | 5/15/2024 | KDANG | AGANWANI |

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: WR-284 90 DEGREE WAVEGUIDE RIGHT HAND TWIST WITH A UG COVER AND GROOVED FLANGES OPERATING FROM 2.6 GHz TO 3.95 GHz

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: KDANG
ITEM NO.: FMW284TW001

REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS IN MILLIMETERS.

TOLERANCES:
 .X = ±.2 (5)
 .XX = ±.02 (0.5)
 .XXX = ±.005 (0.13)
 FRACTIONS ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 ≤ 12 (305) ±.60 (15.24) = +.2 (5) / -0
 > 12 (305) ≤ 60 (1524) = +.4 (10.2) / -0
 > 60 (1524) ≤ 120 (3048) = +.4 (10.2) / -0
 > 120 (3048) ≤ 300 (7620) = +.6 (15.2) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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