

WR-159 90 Degree Waveguide Right Hand Twist
Using a UG Cover And Grooved Flanges And a
4.64 GHz to 7.05 GHz Frequency Range



FMW159TW001

Features

- WR-159 Waveguide
- UG Cover and UG Grooved Flange
- 4.64 GHz to 7.05 GHz Frequency Ranges
- 90° Right Hand (Clockwise) Twist

Applications

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

Description

The FMW159TW001 is a 90 degree WR-159 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	4.64		7.05	GHz
VSWR		1.15:1		
Insertion Loss		0.2		dB

Mechanical Specifications

Waveguide Size	WR-159		
Section Length	6.69 in [169.93 mm]		
Description	Flange 1	Waveguide	Flange 2
Flange Type	UG Cover		UG Grooved
Interface	UG	WR-159	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
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

WR-159 90 Degree Waveguide Right Hand Twist Using a UG Cover And Grooved Flanges And a 4.64 GHz to 7.05 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.

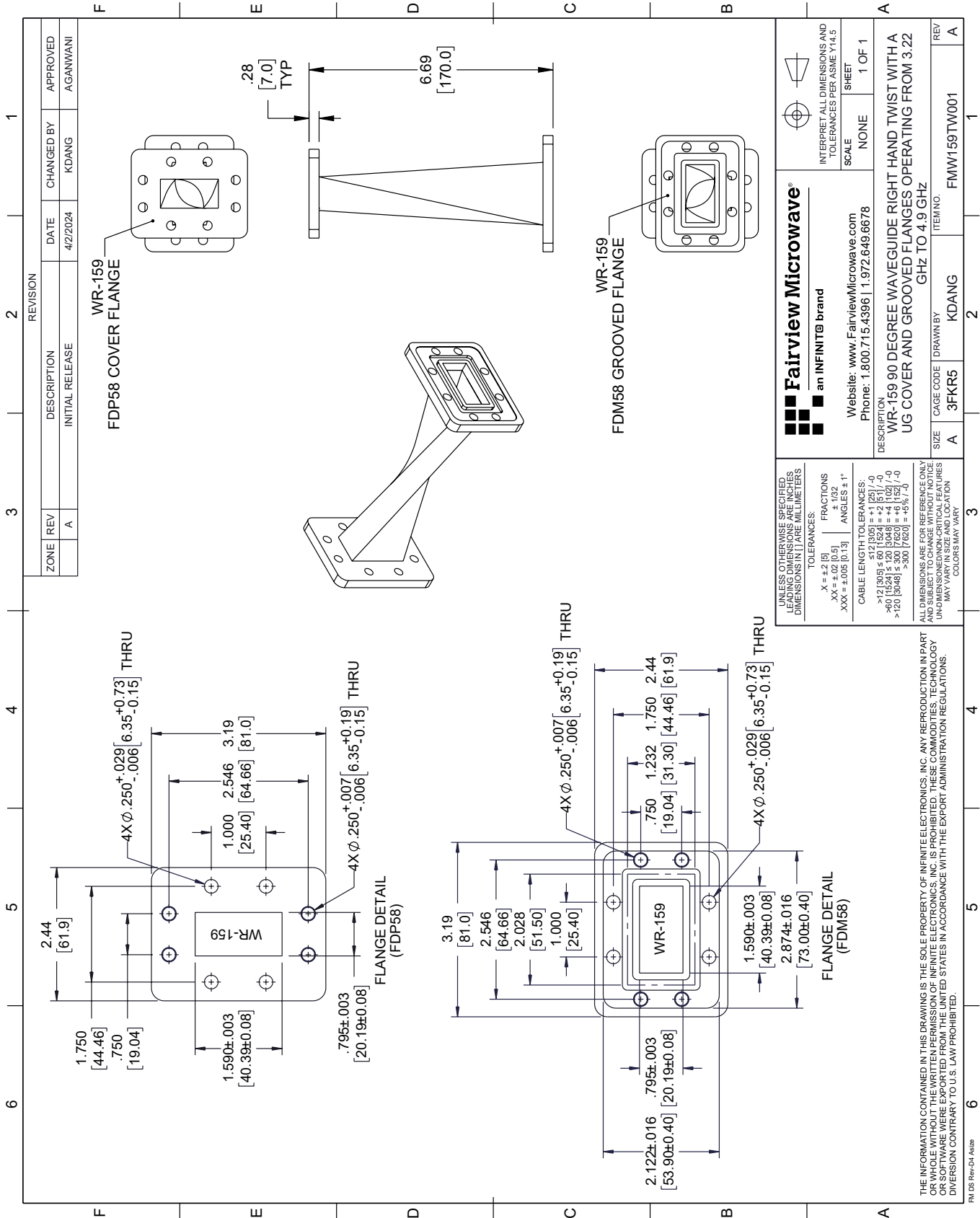
For additional information on this product, please click the following link: [WR-159 90 Degree Waveguide Right Hand Twist Using a UG Cover And Grooved Flanges And a 4.64 GHz to 7.05 GHz Frequency Range FMW159TW001](https://www.fairviewmicrowave.com/wr-159-90-waveguide-twist-ug-4.64-7.05-ghz-fmw159tw001-p.aspx)

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FMW159TW001 CAD Drawing

WR-159 90 Degree Waveguide Right Hand Twist Using a UG Cover And Grooved Flanges And a 4.64 GHz to 7.05 GHz Frequency Range



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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: WR-159 90 DEGREE WAVEGUIDE RIGHT HAND TWIST WITH A UG COVER AND GROOVED FLANGES OPERATING FROM 3.22 GHz TO 4.9 GHz

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: KDANG
ITEM NO.: FMW159TW001

REV: A