

WR-12 90 Degree Waveguide Right-hand Twist Using a UG-387/U-Mod Flange and a 60 GHz to 90 GHz Frequency Range



FMW12TW001

Features

- WR-12 Waveguide
- 60 to 90 GHz
- UG-387/U-Mod Flange
- 1.06:1 Maximum VSWR
- 90° Right-hand Twist

Applications

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production Systems

Description

The FMW12TW001 is a 90 degree waveguide twist that is part of a family of precision manufactured twists with round flange per MIL-DTL-85. 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	60		90	GHz
VSWR		1.06:1		
Insertion Loss			0.25	dB

Electrical Specification Notes:
VSWR measurement is the representation of the load used for testing

Mechanical Specifications

Waveguide Size: WR-12
Section Length: 1.25 in [31.75 mm]

Description	Flange 1	Waveguide	Flange 2
Interface	UG-387/U-M	WR-12	UG-387/U-M
Material	Brass	Brass	Brass
Plating	Gold	Gold	Gold
Color	Gold	Gold	Gold

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

Plotted and Other Data

Notes:

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Typical Performance Data

WR-12 90 Degree Waveguide Right-hand Twist Using a UG-387/U-Mod Flange and a 60 GHz to 90 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.

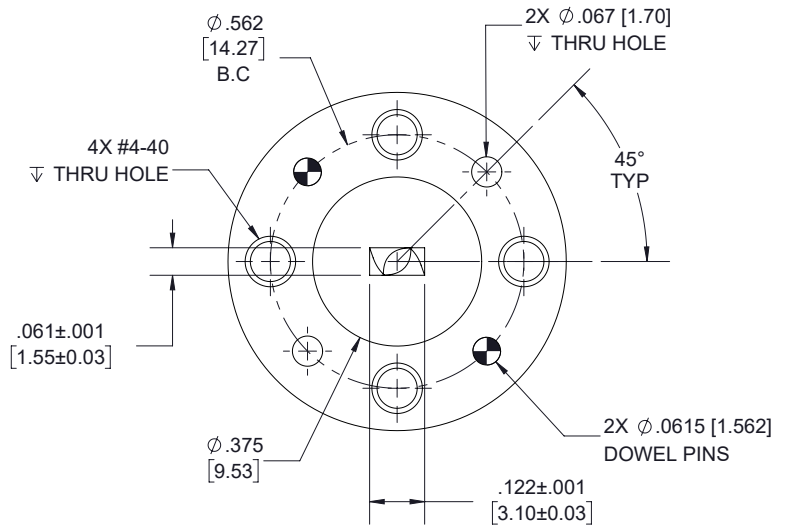
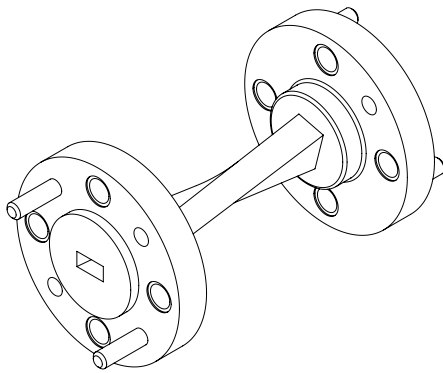
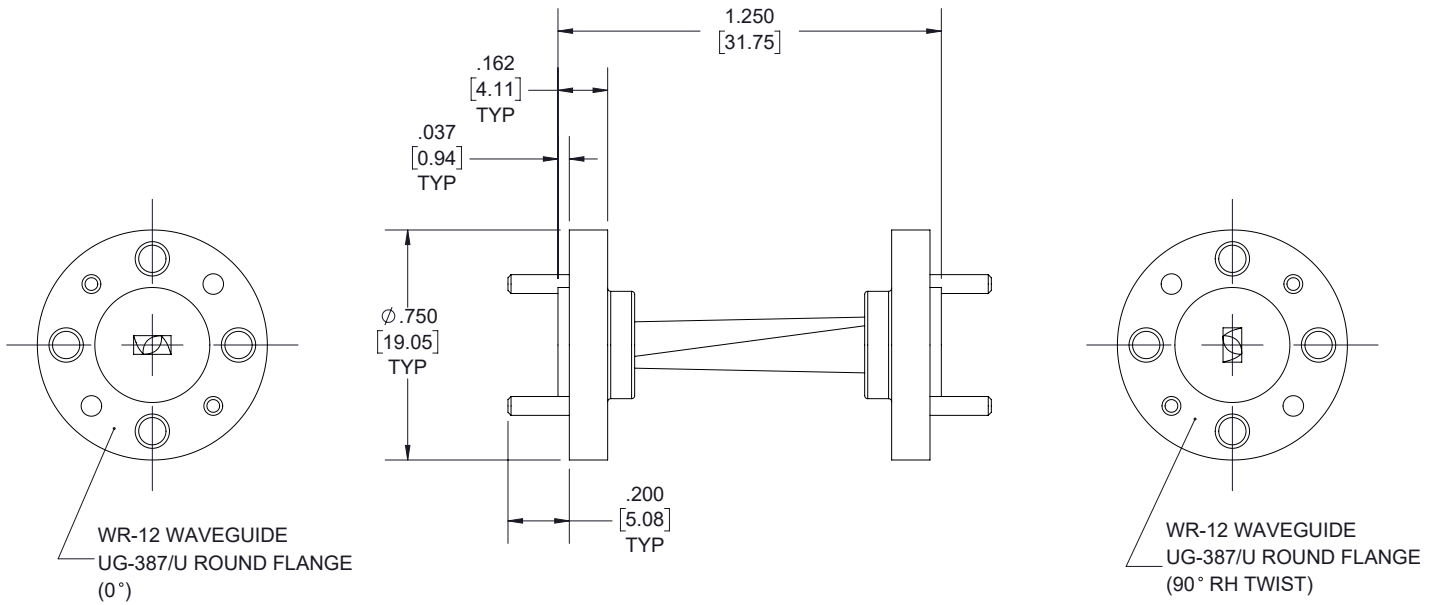
For additional information on this product, please click the following link: [WR-12 90 Degree Waveguide Right-hand Twist Using a UG-387/U-Mod Flange and a 60 GHz to 90 GHz Frequency Range FMW12TW001](https://www.fairviewmicrowave.com/wr-12-90-waveguide-twist-ug387mod-60-90-ghz-fmw12tw001-p.aspx)

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FMW12TW001 CAD Drawing

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FLANGE DETAIL
(BOTH SIDES)

STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<p>Fairview Microwave an INFINIT[®] brand</p>	<p>NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].</p>					
	<p>DWG NO FMW12TW001</p>			<p>CAGE CODE 3FKR5</p>		
<p>TITLE</p>		<p>CAD FILE 05/31/19</p>	<p>SHEET 1 OF 1</p>	<p>SCALE N/A</p>	<p>SIZE A</p>	<p>7361</p>