

**WR-42 45 Degree Waveguide Left-hand Twist
 Using a UG-595/U Flange And a 18 GHz to 26.5 GHz
 Frequency Range**

The SMW42TW1002 is a 45 degree left hand waveguide twist that is part of a family of precision manufactured twists with a square cover 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	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
VSWR			1.25:1	
Insertion Loss			0.75	dB

Mechanical Specifications

Waveguide Size WR-42
 Section Length 2.7 in [68.58 mm]

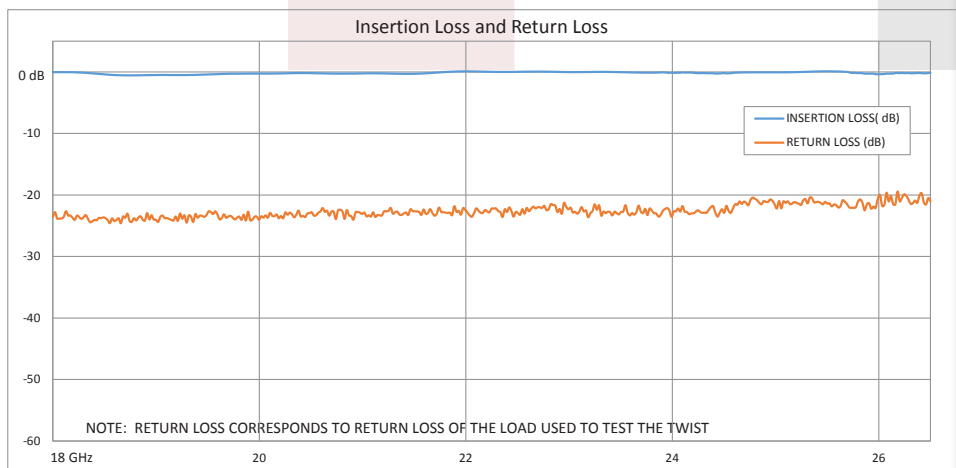
Description	Flange 1	Waveguide	Flange 2
Interface	UG-595/U	WR-42	UG-595/U
Material	Brass	Brass	Brass
Plating	Gold	Gold	Gold
Color	Gold	Gold	Gold

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

Plotted and Other Data

- Notes:
- Notes, Plotted Data

Typical Performance Data



Features:

- WR-42
- 18 to 26.5 GHz
- UG-595/U Flange
- 45° Left Hand (Counter Clockwise) Twist
- Gold Plated

Applications:

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

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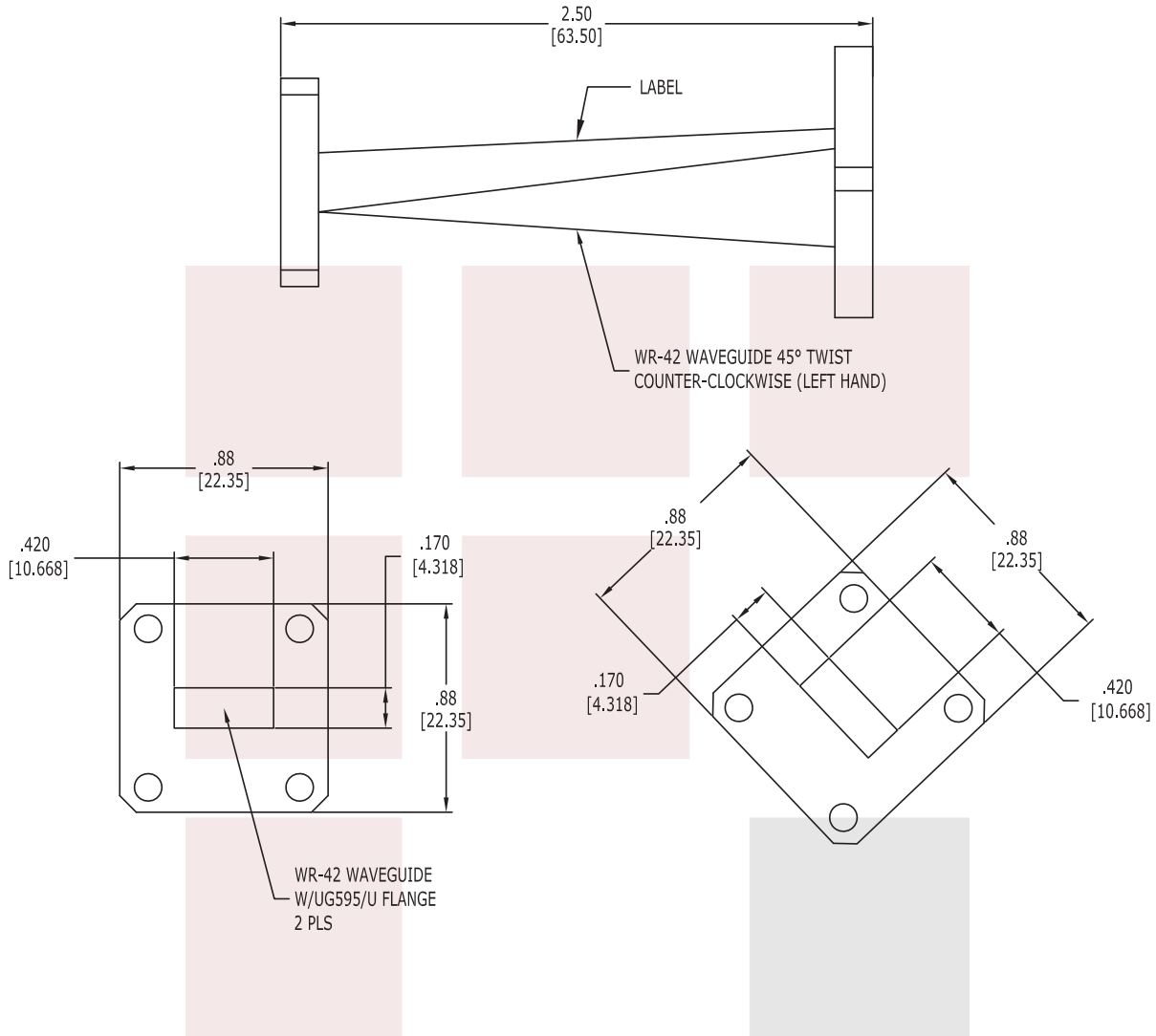
WR-42 45 Degree Waveguide Left-hand Twist Using a UG-595/U Flange And a 18 GHz to 26.5 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-42 45 Degree Waveguide Left-hand Twist Using a UG-595/U Flange And a 18 GHz to 26.5 GHz Frequency Range SMW42TW1002](#)

URL: <https://www.fairviewmicrowave.com/wr-42-45-waveguide-twist-ug595-18-26.5-ghz-smw42tw1002-p.aspx>

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UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN: inches [mm]
 TOLERANCES ARE:
 .XX ± .01 [± .25]
 .XXX ± .005 [± .127]

* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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TITLE WR-42 45 Degree Waveguide Left-hand Twist Using a UG-595/U Flange And a 18 GHz to 26.5 GHz Frequency Range		DWG NO SMW42TW1002		CAGE CODE 3FKR5	
CAD FILE	101215	SHEET	SCALE	N/A	SIZE A 2233