

WR-42 90 Degree Waveguide Twist Using a UG-595/U Flange And a 18 GHz to 26.5 GHz Frequency Range

The SMW42TW1001 is a 90 degree waveguide twist that is part of a family of precision manufactured twists with 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			1.07: 1	
Insertion Loss			0.5	dB

Mechanical Specifications

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

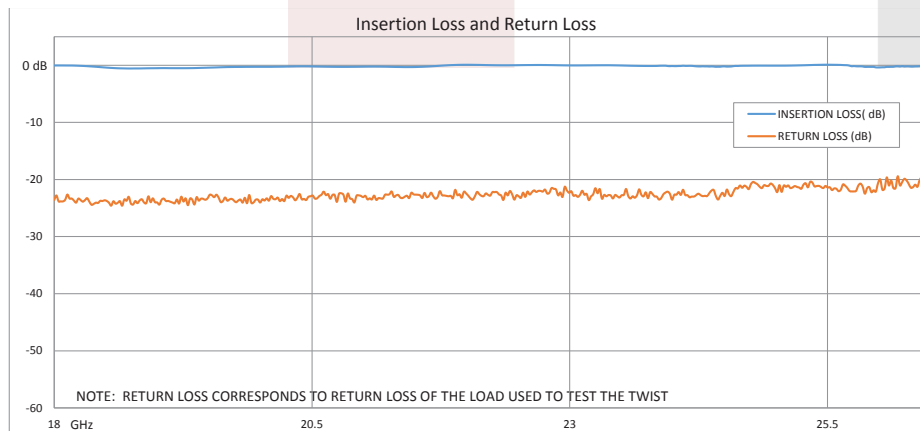
Description	Flange 1	Waveguide	Flange 2
Interface	UG-595/U	WR-42	UG-595/U
Material	Brass	Brass	Brass
Plating	Gold	Gold	Gold
Color	Gold	Gold	Gold

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
- 1.07: 1 Maximum VSWR
- 90° Twist

Applications:

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

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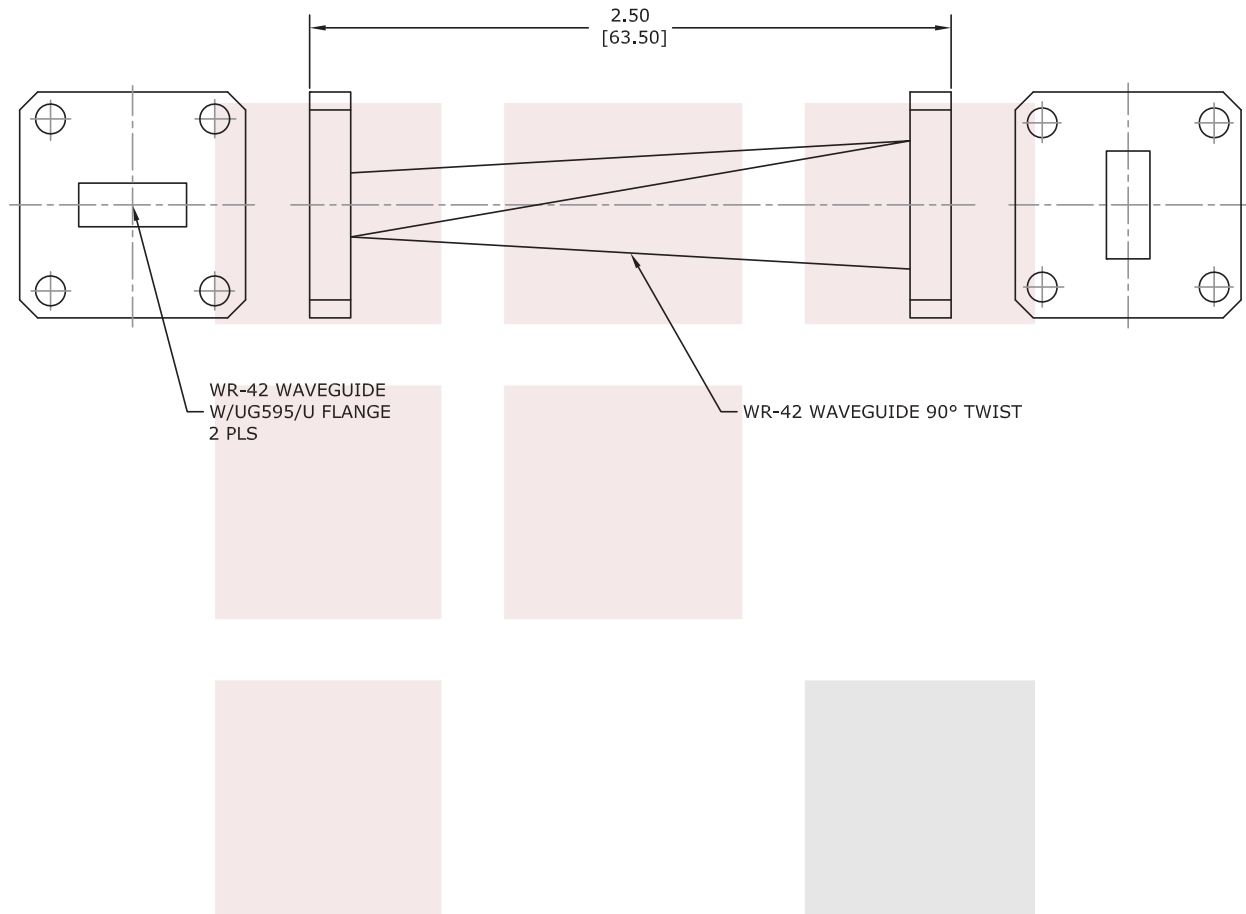
WR-42 90 Degree Waveguide Twist Using a UG-595/U Flange And a 18 GHz to 26.5 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-42 90 Degree Waveguide Twist Using a UG-595/U Flange And a 18 GHz to 26.5 GHz Frequency Range SMW42TW1001](#)

URL: <https://www.fairviewmicrowave.com/wr-42-90-waveguide-twist-ug595-18-26.5-ghz-smw42tw1001-p.aspx>

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UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN: inches
 TOLERANCES ARE: [mm]
 .XX ± .01 [±.03]
 .XX ± .001 [±.003]

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

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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].

TITLE
 WR-42 90 Degree Waveguide Twist Using a UG-595/U
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DWG NO	SMW42TW1001	CAGE CODE	3FKR5		
CAD FILE	101215	SHEET	SCALE	N/A	SIZE A 2233