

## WR-28 45 Degree Waveguide Right-hand Twist Using a UG-599/U Flange And a 26.5 GHz to 40 GHz Frequency Range

The SMW28TW1003 is a 45 degree right hand 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	26.5		40	GHz
VSWR			1.09: 1	
Insertion Loss			0.2	dB

### Mechanical Specifications

Waveguide Size WR-28  
Section Length 2 in [50.8 mm]

Description	Flange 1	Waveguide	Flange 2
Interface	UG-599/U	WR-28	UG-599/U
Material	Brass	Brass	Brass
Plating	Gold	Gold	Gold
Color	Gold	Gold	Gold

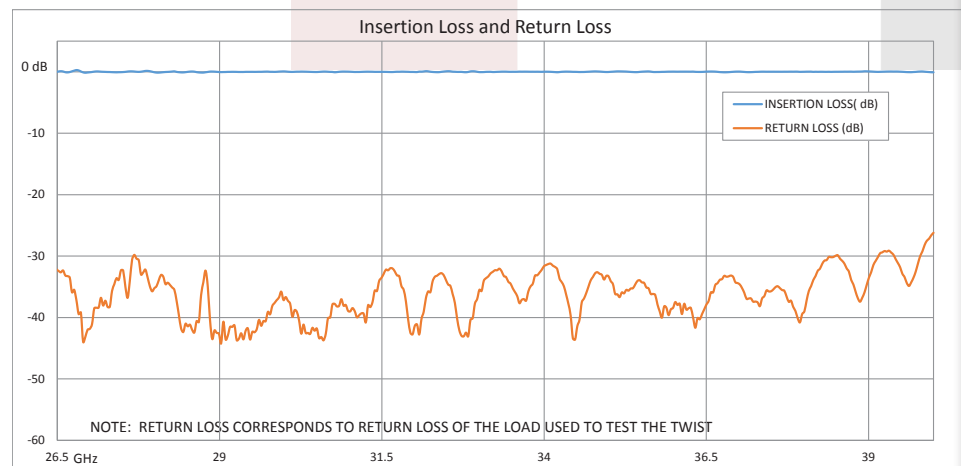
### Compliance Certifications (see [product page](#) for current document)

### Plotted and Other Data

Notes:

- Notes, Plotted Data

### Typical Performance Data



### Features:

- WR-28
- 26.5 to 40 GHz
- UG-599/U Flange
- 45° Right Hand (Clockwise) Twist
- 1.09: 1 Maximum VSWR

### Applications:

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

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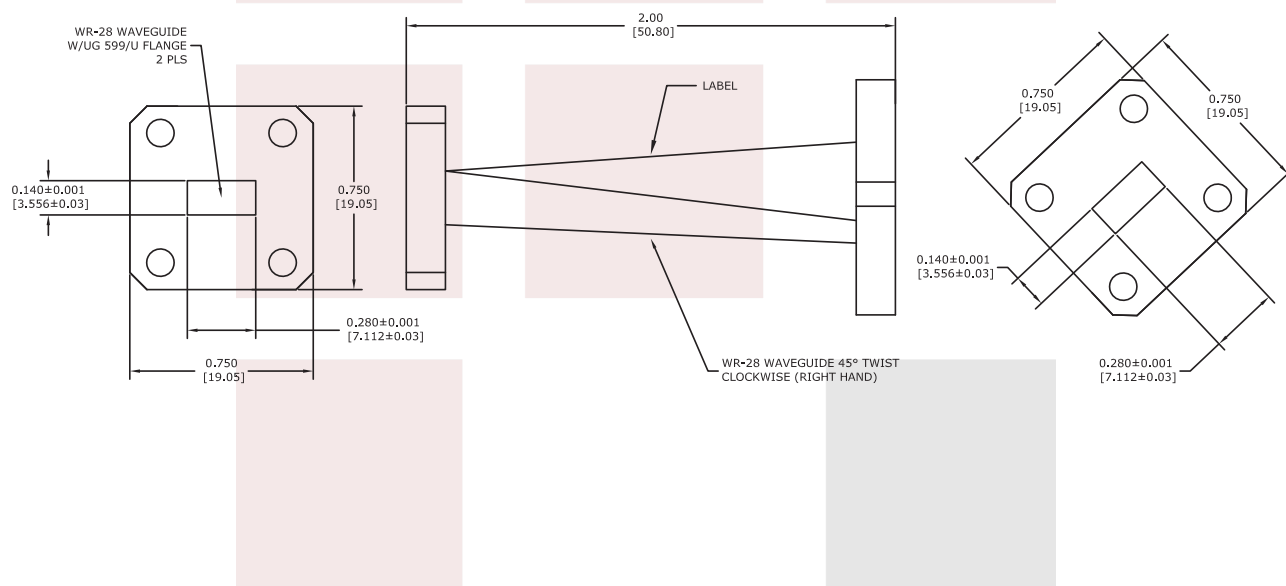
WR-28 45 Degree Waveguide Right-hand Twist Using a UG-599/U Flange And a 26.5 GHz to 40 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-28 45 Degree Waveguide Right-hand Twist Using a UG-599/U Flange And a 26.5 GHz to 40 GHz Frequency Range SMW28TW1003](#)

URL: <https://www.fairviewmicrowave.com/wr-28-45-waveguide-twist-ug599-26.5-40-ghz-smw28tw1003-p.aspx>

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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN: inches  
[mm]

TOLERANCES ARE:  
.XX ± .10 [± 2.54]  
.XXX ± .005 [± .127]

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

<b>FAIRVIEW MICROWAVE INC.</b> ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		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-28 45 Degree Waveguide Right-hand Twist Using a UG-599/U Flange And a 26.5 GHz to 40 GHz Frequency Range		DWG NO SMW28TW1003		CAGE CODE 3FKR5	
CAD FILE	122215	SHEET	SCALE	N/A	SIZE A 2233