

WR-22 45 Degree Waveguide Right-hand Twist Using a UG-383/U Flange And a 33 GHz to 50 GHz Frequency Range

The SMW22TW1003 is a 45 degree right hand 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	Min	Typ	Max	Units
Frequency Range	33		50	GHz
VSWR			1.02:1	
Insertion Loss			0.5	dB

Mechanical Specifications

Waveguide Size: WR-22
Section Length: 1.5 in [38.1 mm]

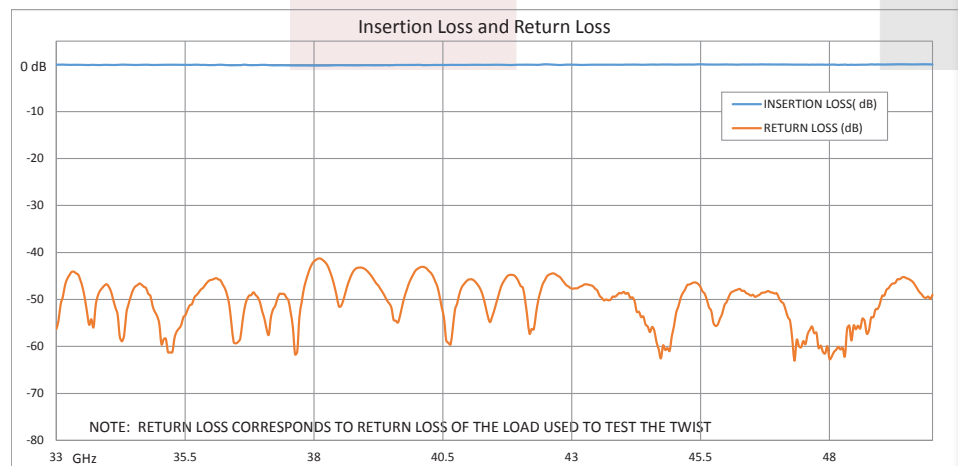
Description	Flange 1	Waveguide	Flange 2
Interface	UG-383/U	WR-22	UG-383/U
Material	Brass	Brass	Brass
Plating	Gold	Gold	Gold
Color	Gold	Gold	Gold

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

Plotted and Other Data

Notes:
• Notes, Plotted Data

Typical Performance Data



Features:

- WR-22
- 33 to 50 GHz
- UG-383/U Flange
- 45° Right Hand (Clockwise) Twist
- 1.02:1 Maximum VSWR

Applications:

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

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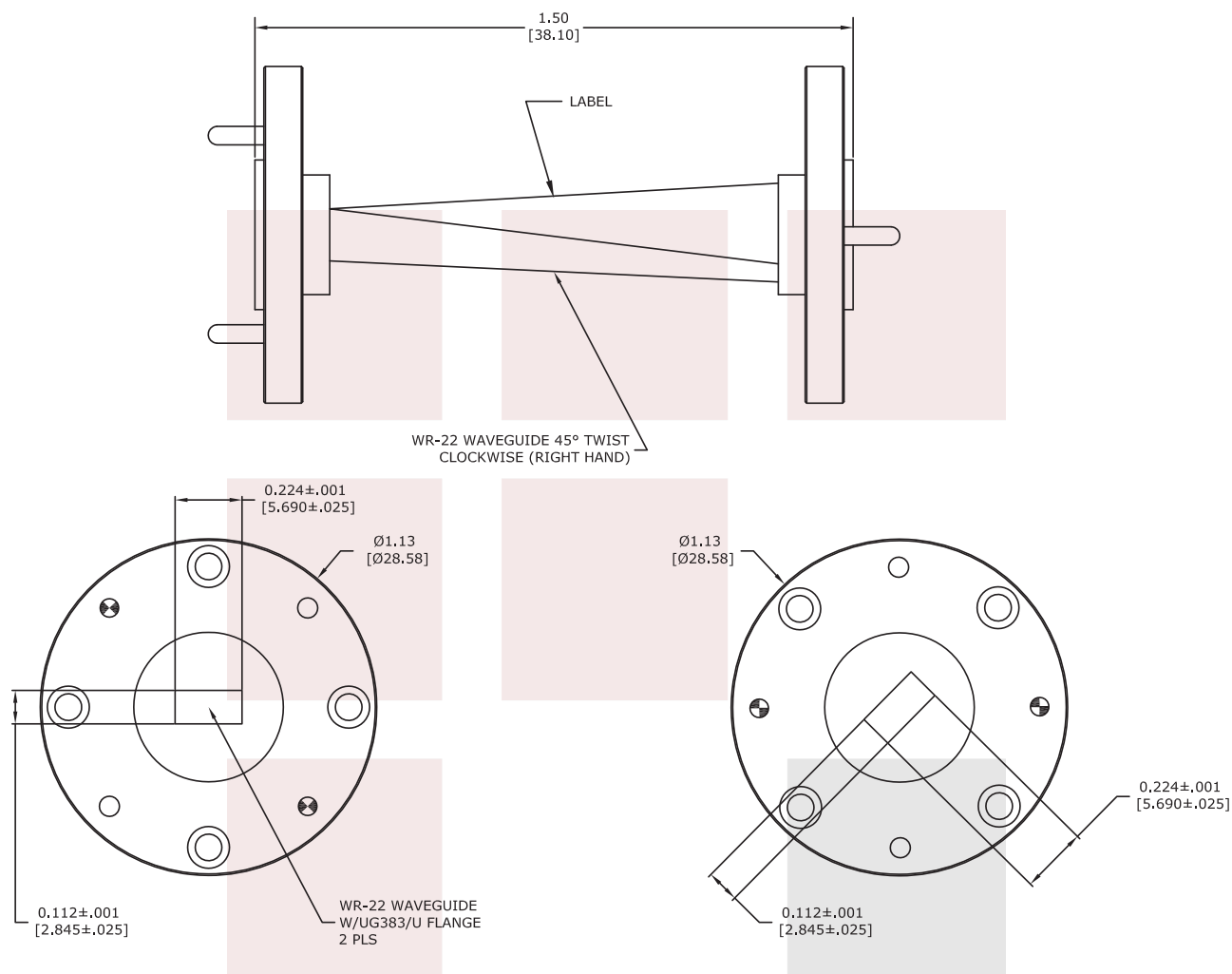
WR-22 45 Degree Waveguide Right-hand Twist Using a UG-383/U Flange And a 33 GHz to 50 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-22 45 Degree Waveguide Right-hand Twist Using a UG-383/U Flange And a 33 GHz to 50 GHz Frequency Range SMW22TW1003](#)

URL: <https://www.fairviewmicrowave.com/wr-22-45-waveguide-twist-ug383-33-50-ghz-smw22tw1003-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.

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TITLE WR-22 45 Degree Waveguide Right-hand Twist Using a UG-383/U Flange And a 33 GHz to 50 GHz Frequency Range		DWG NO SMW22TW1003		CAGE CODE 3FKR5	
CAD FILE	011216	SHEET	SCALE	N/A	SIZE A 2233