

SMW12TW1003 DATA SHEET

WR-12 45 Degree Waveguide Right-hand Twist Using a UG-387/U Flange And a 60 GHz to 90 GHz Frequency Range

The SMW12TW1003 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).

THE WITTE ON BREETING

Electrical Specifications

| Description | Min | Тур | Max | Units | |
|-----------------|-----|-----|--------|-------|--|
| Frequency Range | 60 | | 90 | GHz | |
| VSWR | | | 1.16:1 | | |
| Insertion Loss | | | 1.1 | dB | |
| | | | | | |

Mechanical Specifications

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

| Section | Length |
|---------|--------|
| Docer | intion |

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

Features:

- WR-12
- 60 to 90 GHz
- UG-387/U Flange
- · 45° Right Hand (Clockwise) Twist
- 1.16:1 Maximum VSWR

Applications:

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

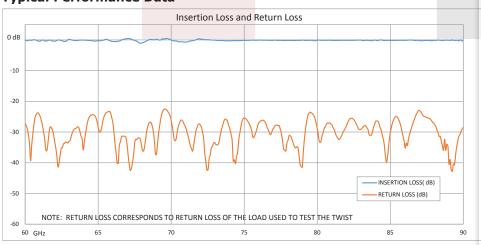
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Notes, Plotted Data

Typical Performance Data



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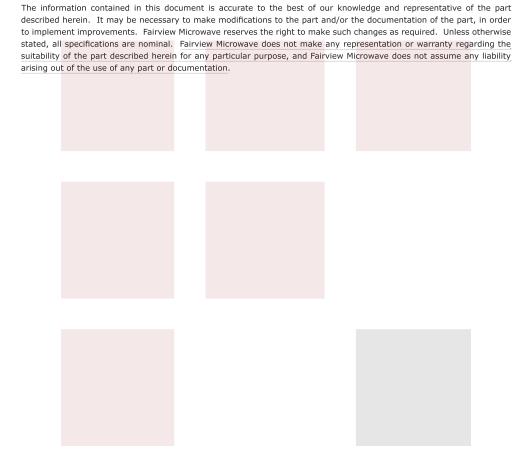




WR-12 45 Degree Waveguide Right-hand Twist Using a UG-387/U Flange And a 60 GHz to 90 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

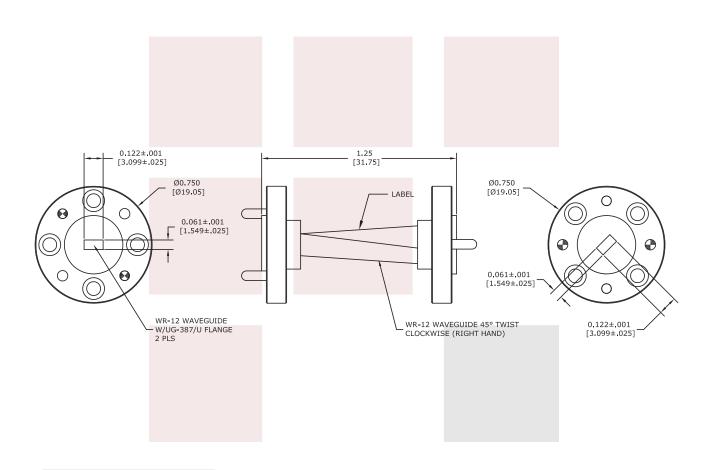
For additional information on this product, please click the following link: WR-12 45 Degree Waveguide Right-hand Twist Using a UG-387/U Flange And a 60 GHz to 90 GHz Frequency Range SMW12TW1003

URL: https://www.fairviewmicrowave.com/wr-12-45-waveguide-twist-ug387-60-90-ghz-smw12tw1003-p.aspx









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.

| FAIRVIEW MICROWAVE INC. 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]. | | | | | |
|---|---|---------|------|-----------------|--------|------|
| WR-12 45 Degree Waveguide Right-hand Twist Using a UG-387/U Flange And a 60 GHz to 90 GHz Frequency Range | DWG NO SMW12TW1003 | | | CAGE CODE 3FKR5 | | |
| | CAD FILE 1222 | 5 SHEET | SCAL | E N/A | SIZE A | 2233 |