

WR-112 Twistable Flexible Waveguide Using UG-51/U Square Cover Flange With a 7.05 GHz to 10 GHz Frequency Range

The SMW112TF005-12 is one of Fairview Microwave's flexible, twistable sections which operates in the 7.05 to 10 GHz range. It can be twisted and/or bent in both the E and H planes without impairing VSWR or attenuation because of its silver coated helically wound brass body construction. The twistable section is covered in a neoprene jacket which allows the section to be pressurized as well as protecting the waveguide's integrity.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	7.05		10	GHz
VSWR		1.3:1		
Insertion Loss		0.12		dB

Mechanical Specifications

chanical Specification	2115
Waveguide Size	
Waveguide Design	
Section Length	
E-Plane Minimum Bend I	Radius, One Time
E-Plane Minimum Bend I	Radius, Repeated
H-Plane Minimum Bend	Radius, One Time
H-Plane Minimum Bend	Radius, Repeated
Maximum Offset Rotatio	n, One Time
Maximum Offset Rotatio	n, Repeated
Maximum Operating Pre	essure

WR-112 Twistable 12 in [304.8 mm] 3 in [76.2 mm] 12 in [304.8 mm] 6 in [152.4 mm] 24 in [609.6 mm] 80 degrees/ft 20 degrees/ft 35 psig

Description	Flange 1	Waveguide	Flange 2	
Туре	Square Cover	WR-112	Square Cover	
Designation	UG-51/U		UG-51/U	
Material	Brass	Brass	Brass	
Plating		Silver		
Color	Gold	Black	Gold	

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes

REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

· Notes, Plotted Data

SMW112TF005-12 DATA SHEET



Features:

- Twistable/Flexible in both the E and H plane
- Neoprene Jacket allows pressurization
- 7.05 GHz to 10 GHz Range
- Brass flanges with a silver plated brass body

Applications:

- Test Benches
- · Microwave Radio
- Pressurized waveguide systems
- · Provides vibration isolation
- Easily connects misaligned sections.
- Relieves mechanical stresses caused by thermal expansion/contraction.

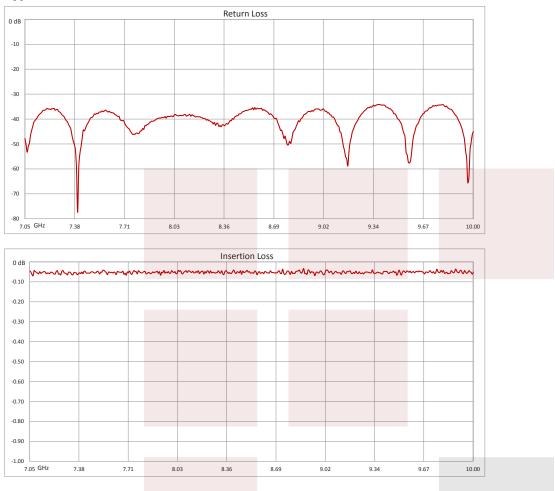
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Typical Performance Data



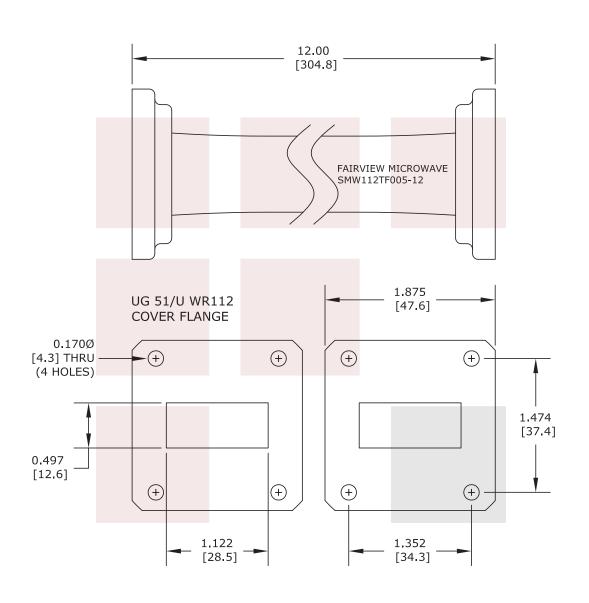
WR-112 Twistable Flexible Waveguide Using UG-51/U Square Cover Flange With a 7.05 GHz to 10 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-112 Twistable Flexible Waveguide Using UG-51/U Square Cover Flange With a 7.05 GHz to 10 GHz Frequency Range SMW112TF005-12

URL: https://www.fairviewmicrowave.com/wr-112-twistable-flexible-waveguide-ug51-square-7.05-10-ghz-smw112tf005-12-p.aspx

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	CAD FILE 100515	SHEET	SCALE	N/A	SIZE A