

**WR-112 Twistable Flexible Waveguide Using CPR-112G Flange With a 7.05 GHz to 10 GHz Frequency Range**

The SMW112TF006-36 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	Typ	Max	Units
Frequency Range	7.05		10	GHz
VSWR		1.07:1		
Insertion Loss		0.36		dB

**Mechanical Specifications**

Waveguide Size	WR-112
Waveguide Design	Twistable
Section Length	36 in [914.4 mm]
E-Plane Minimum Bend Radius, One Time	3 in [76.2 mm]
E-Plane Minimum Bend Radius, Repeated	12 in [304.8 mm]
H-Plane Minimum Bend Radius, One Time	6 in [152.4 mm]
H-Plane Minimum Bend Radius, Repeated	24 in [609.6 mm]
Maximum Offset Rotation, One Time	80 degrees/ft
Maximum Offset Rotation, Repeated	20 degrees/ft
Maximum Operating Pressure	35 psig

Description	Flange 1	Waveguide	Flange 2
Type	CPR-112G	WR-112	CPR-112G
Designation	None		None
Material	Brass	Brass	Brass
Plating		Silver	
Color	Gold	Black	Gold

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant	Yes
REACH Compliant	12/17/2015

**Plotted and Other Data**

- Notes:  
 • Notes, Plotted Data



**Features:**

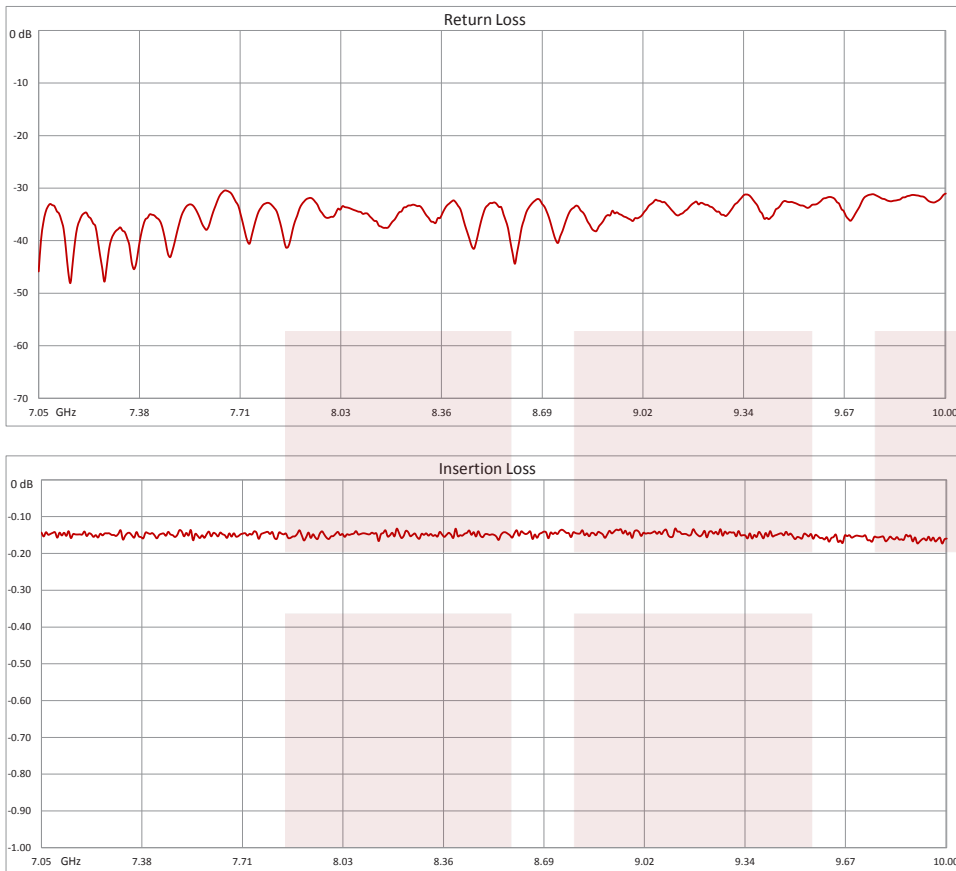
- Twistable/Flexible in both the E and H plane
- Neoprene Jacket allows pressurization
- 7.05 GHz to 10 GHz Range
- Brass flanges with a silver plated brass body

**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**

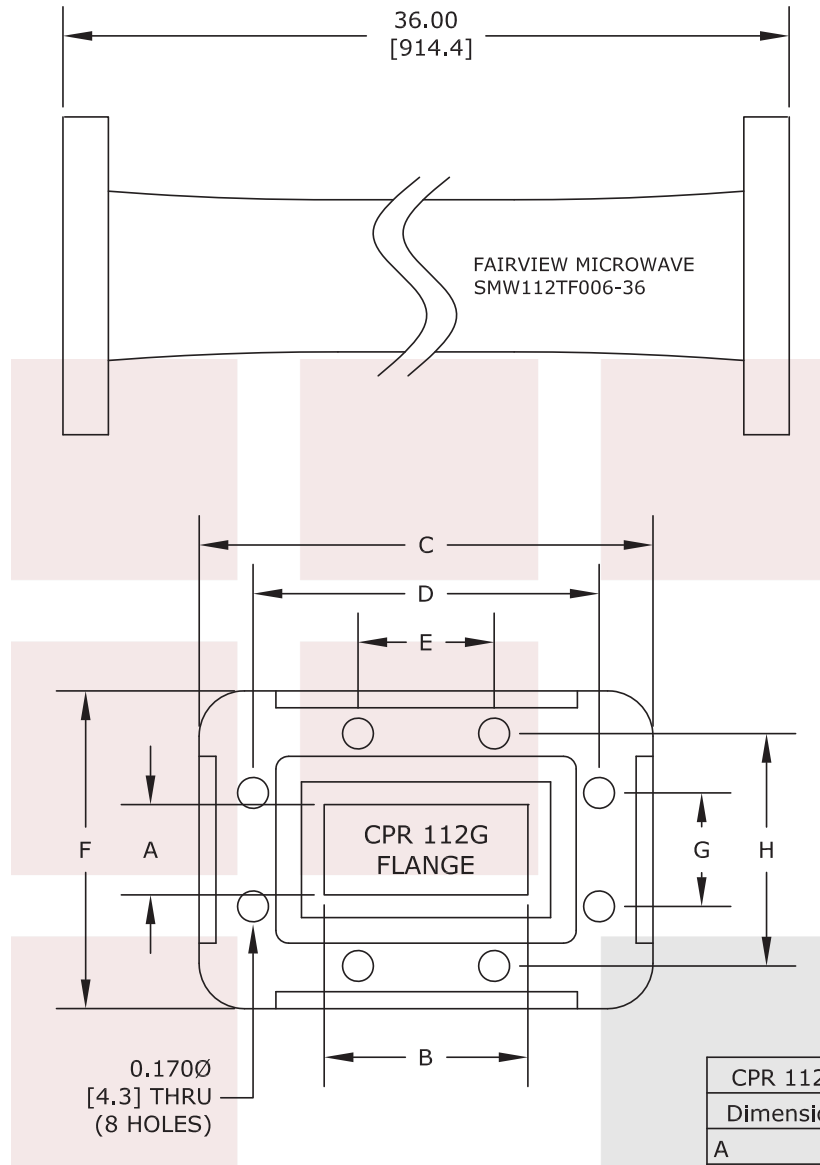


WR-112 Twistable Flexible Waveguide Using CPR-112G Flange With a 7.05 GHz to 10 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave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

For additional information on this product, please click the following link: [WR-112 Twistable Flexible Waveguide Using CPR-112G Flange With a 7.05 GHz to 10 GHz Frequency Range SMW112TF006-36](https://www.fairviewmicrowave.com/wr-112-twistable-flexible-waveguide-cpr-112g-7.05-10-ghz-smw112tf006-36)

URL: <https://www.fairviewmicrowave.com/wr-112-twistable-flexible-waveguide-cpr-112g-7.05-10-ghz-smw112tf006-36-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



CPR 112G		
Dimension	Inches	mm
A	0.497	12.62
B	1.122	28.50
C	2.500	63.50
D	1.906	48.41
E	0.750	19.05
F	1.750	44.45
G	0.625	15.88
H	1.280	32.51

<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-112 Twistable Flexible Waveguide Using CPR-112G Flange With a 7.05 GHz to 10 GHz Frequency Range	DWG NO SMW112TF006-36	CAGE CODE 3FKR5			
CAD FILE 100515	SHEET	SCALE N/A	SIZE A	2233	