

## WR-112 Twistable Flexible Waveguide in 36 Inch Using CMR Flange with a 7.05 to 10 GHz Frequency Range



### FM-W112TF007-36

#### Features

- WR-112 waveguide
- Flexes in both the E and H plane
- 7.05 GHz to 10 GHz Frequency Range
- Brass flanges with a brass body
- Neoprene sleeve provides added protection and mechanical support

#### Applications

- Allows expansion/contraction due to thermal issues
- Test Benches
- Microwave Radio
- Eliminates installation problems caused by misalignment
- Provides vibration isolation

#### Description

The FM-W112TF007-36 is part of Fairview Microwave's family of flexible, twistable waveguides which operates in the 7.05 to 10 GHz range. The waveguide body is made of a helically wound silver coated brass strip. It can be twisted and/or bent in both the E and H planes without impairing VSWR or attenuation. The waveguide is covered by a neoprene jacket which protects the waveguide and provides mechanical support

#### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	7.05		10	GHz
VSWR		1.1:1		
Insertion Loss		0.12		dB
Input Power			1.26	kWatts

Electrical Specification Notes:  
VSWR is per 2 foot.  
Insertion Loss is dB per foot.

#### 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]
H-Plane Minimum Bend Radius, One Time	6 in [152.4 mm]

Description	Flange 1	Waveguide	Flange 2
Type		WR-112	
Designation	CMR		CMR
Material	Brass	Brass	Brass

<b>Temperature</b> Operating Range	-50 to 100 deg C
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**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

- Notes, Plotted Data

#### Typical Performance Data

WR-112 Twistable Flexible Waveguide in 36 Inch Using CMR Flange with a 7.05 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-112 Twistable Flexible Waveguide in 36 Inch Using CMR Flange with a 7.05 to 10 GHz Frequency Range FM-W112TF007-36](#)

URL: <https://www.fairviewmicrowave.com/wr-112-twistable-flexible-waveguide-cmr-7.05-10-ghz-fm-w112tf007-36-p.aspx>

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# FM-W112TF007-36 CAD Drawing

WR-112 Twistable Flexible Waveguide in 36 Inch Using CMR Flange with a 7.05 to 10 GHz Frequency Range

