

WR-90 Seamless Flexible Waveguide in 12 Inch Using CMR Flange with a 8.2 to 12.4 GHz Frequency Range



FM-W90SF007-12

Features

- WR-90 waveguide
- Flexes in both the E and H plane
- 8.2 GHz to 12.4 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-W90SF007-12 is part of Fairview Microwave's family of flexible, seamless waveguides which operates in the 8.2 to 12.4 GHz range. The waveguide body is made of brass. It can be 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	8.2		12.4	GHz
VSWR		1.1:1		
Insertion Loss		0.09		dB
Input Power			3	kWatts

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

Mechanical Specifications

Waveguide Size	WR-90
Waveguide Design	Seamless
Section Length	12 in [304.8 mm]
E-Plane Minimum Bend Radius, One Time	0.9 in [22.86 mm]
H-Plane Minimum Bend Radius, One Time	1.7 in [43.18 mm]

Description	Flange 1	Waveguide	Flange 2
Type		WR-90	
Designation	CMR		CMR
Material	Brass	Brass	Brass

Temperature

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-90 Seamless Flexible Waveguide in 12 Inch Using CMR Flange with a 8.2 to 12.4 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-90 Seamless Flexible Waveguide in 12 Inch Using CMR Flange with a 8.2 to 12.4 GHz Frequency Range FM-W90SF007-12](#)

URL: <https://www.fairviewmicrowave.com/wr-90-seamless-flexible-waveguide-cmr-8.2-12.4-ghz-fm-w90sf007-12-p.aspx>

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FM-W90SF007-12 CAD Drawing

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