

WR-284 Twistable Flexible Waveguide in 12 Inch Using UG Round Cover Flange with a 2.6 to 3.95 GHz Frequency Range



FM-W284TF001-12

Features

- WR-284 waveguide
- Flexes in both the E and H plane
- 2.6 GHz to 3.95 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-W284TF001-12 is part of Fairview Microwave's family of flexible, twistable waveguides which operates in the 2.6 to 3.95 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	2.6		3.95	GHz
VSWR		1.07:1		
Insertion Loss		0.06		dB
Input Power			6.5	kWatts

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

Mechanical Specifications

Waveguide Size	WR-284
Waveguide Design	Twistable
Section Length	12 in [304.8 mm]
E-Plane Minimum Bend Radius, One Time	7 in [177.8 mm]
H-Plane Minimum Bend Radius, One Time	14 in [355.6 mm]

Description	Flange 1	Waveguide	Flange 2
Type	Round Cover	WR-284	Round Cover
Designation	UG		UG
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-284 Twistable Flexible Waveguide in 12 Inch Using UG Round Cover Flange with a 2.6 to 3.95 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.

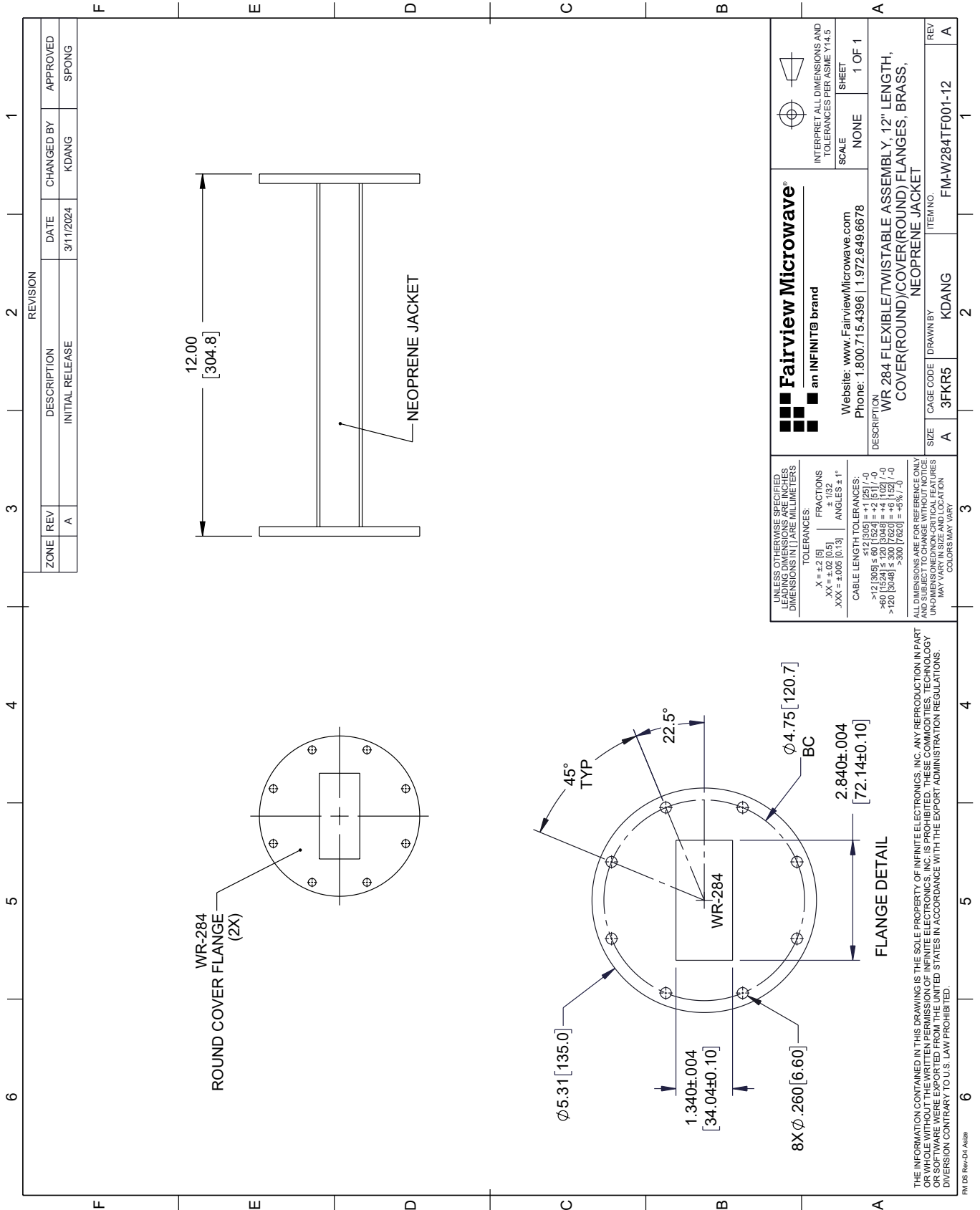
For additional information on this product, please click the following link: [WR-284 Twistable Flexible Waveguide in 12 Inch Using UG Round Cover Flange with a 2.6 to 3.95 GHz Frequency Range FM-W284TF001-12](#)

URL: <https://www.fairviewmicrowave.com/wr-284-twistable-flexible-waveguide-ug-round-2.6-3.95-ghz-fm-w284tf001-12-p.aspx>

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FM-W284TF001-12 CAD Drawing

WR-284 Twistable Flexible Waveguide in 12 Inch Using UG Round Cover Flange with a 2.6 to 3.95 GHz Frequency Range



REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	3/11/2024	KDANG	SPONG

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]
 FRACTIONS ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 <12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0
 >300 [7620] = ±.6 [15.2] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: WR 284 FLEXIBLE/TWISTABLE ASSEMBLY, 12" LENGTH, COVER(ROUND)/COVER(ROUND) FLANGES, BRASS, NEOPRENE JACKET

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: KDANG
ITEM NO.: FM-W284TF001-12

REV: A

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FM DS Rev-D4 Alt2b