

**WR-22 Seamless Flexible Waveguide in 24 Inch Using UG-383/U Round Cover Flange With a 33 GHz to 50 GHz Frequency Range**

The SMW22SF005-24 is part of Fairview’s family of flexible, seamless waveguides which operates in the Q Band, 33 to 50 GHz range. The flexible waveguide section is made of silver plated brass. It can be bent in both the E and H planes without impairing VSWR or attenuation. The waveguide section is covered by a neoprene jacket which protects the waveguide, provides mechanical support and allows the waveguide to be pressurized.

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	33		50	GHz
VSWR		1.2:1		
Insertion Loss		0.49		dB

**Mechanical Specifications**

Waveguide Size	WR-22
Waveguide Design	Seamless
Section Length	24 in [609.6 mm]
E-Plane Minimum Bend Radius, One Time	0.39 in [9.91 mm]
H-Plane Minimum Bend Radius, One Time	0.59 in [14.99 mm]
Maximum Operating Pressure	45 psig

Description	Flange 1	Waveguide	Flange 2
Type	Round Cover	WR-22	Round Cover
Designation	UG-383/U		UG-383/U
Material	Brass	Brass	Brass
Plating		Silver	
Color	Gold	Black	Gold

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

- Notes:
- Notes, Plotted Data



**Features:**

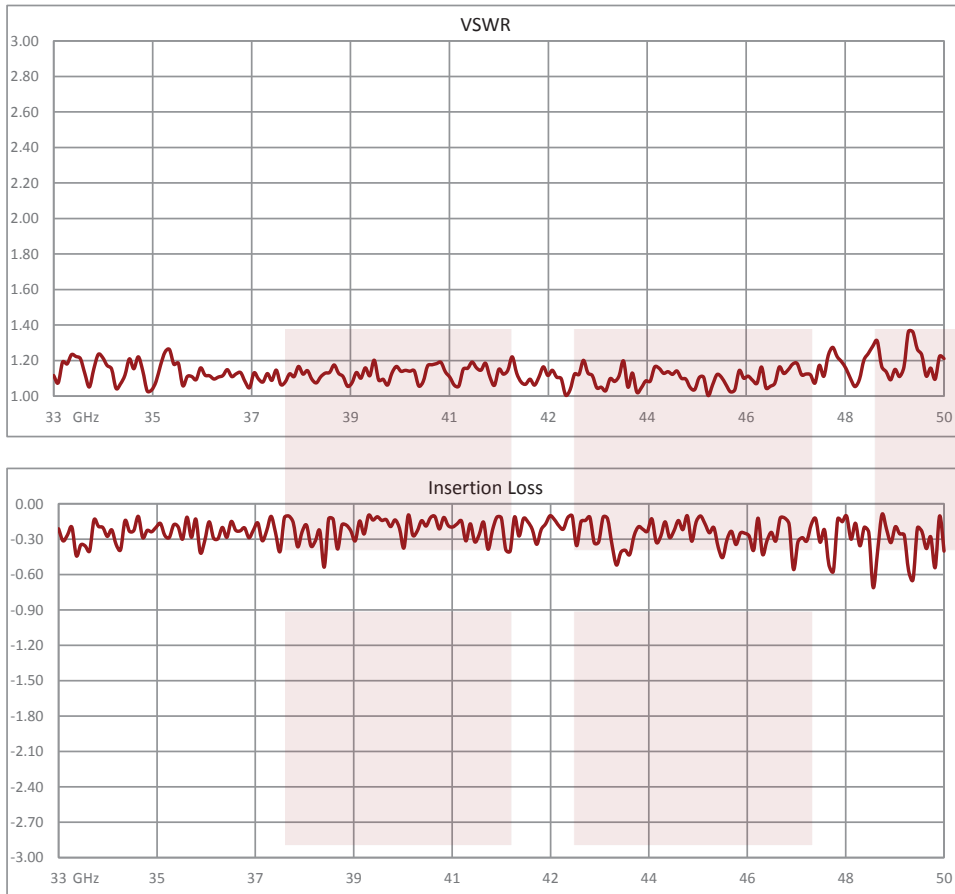
- WR-22 waveguide
- Flexes in both the E and H plane
- UG-383/U Round Cover Flange
- Q Band
- 33 GHz to 50 GHz Frequency Range
- Brass flanges with a silver plated brass body
- Neoprene sleeve provides added protection and mechanical support

**Applications:**

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

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**Typical Performance Data**

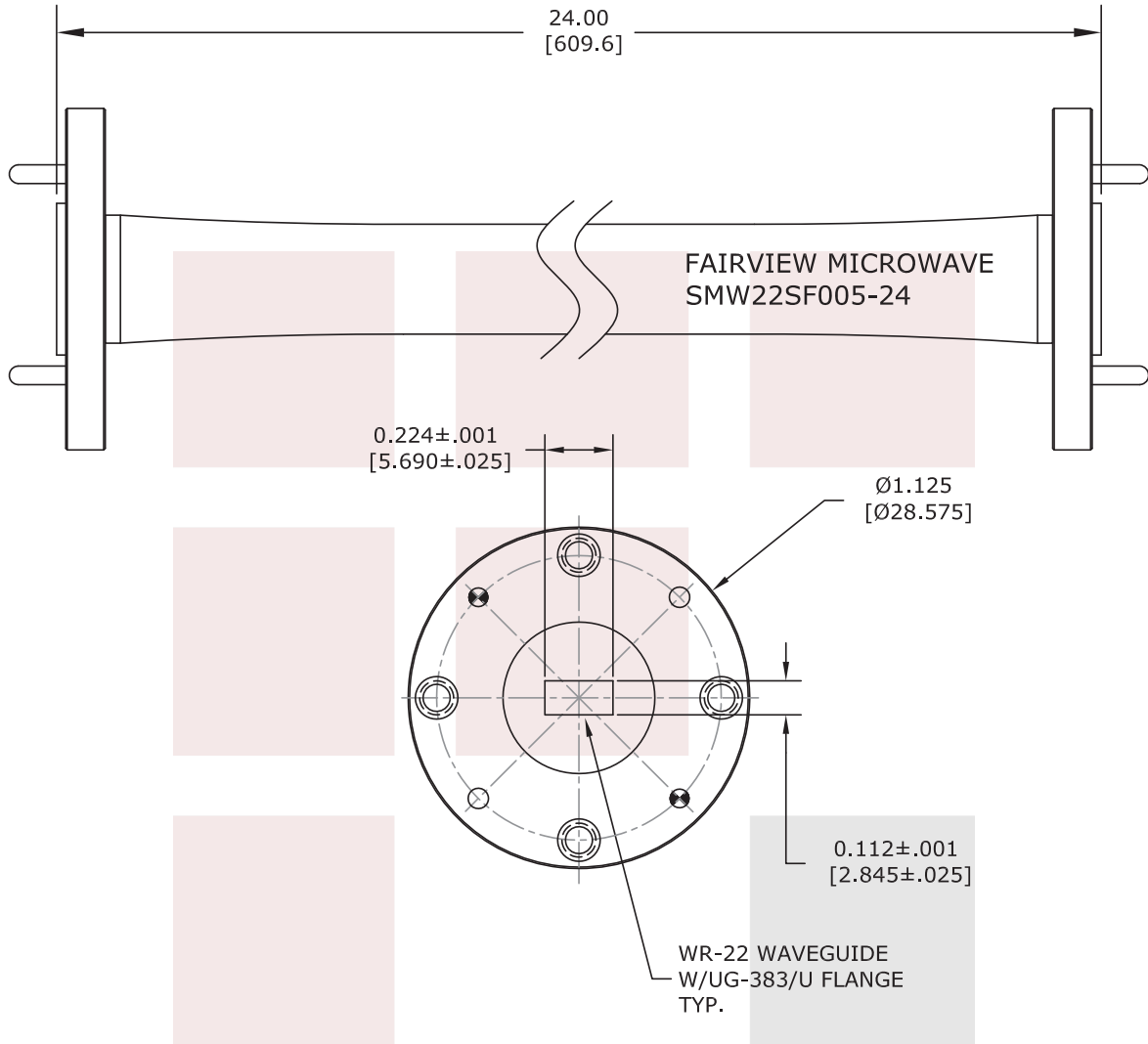


WR-22 Seamless Flexible Waveguide in 24 Inch Using UG-383/U Round Cover Flange With a 33 GHz to 50 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-22 Seamless Flexible Waveguide in 24 Inch Using UG-383/U Round Cover Flange With a 33 GHz to 50 GHz Frequency Range SMW22SF005-24](https://www.fairviewmicrowave.com/wr-22-seamless-flexible-waveguide-ug383-round-33-50-ghz-smw22sf005-24-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-22-seamless-flexible-waveguide-ug383-round-33-50-ghz-smw22sf005-24-p.aspx>

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UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN: Inches [mm]  
 TOLERANCES ARE:

DECIMALS	ANGLES	FRACTIONS
.X ±.030	±1/2°DEG.	± 1/32
.XX ±.015		
.XXX ±.005		

\* THESE DIMENSIONS AND TOLERANCES  
 SUPERSEDE NOTE #1 ON TITLE BLOCK.

<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-22 Seamless Flexible Waveguide in 24 Inch Using UG-383/U Round Cover Flange With a 33 GHz to 50 GHz Frequency Range	DWG NO SMW22SF005-24	CAGE CODE 3FKR5			
CAD FILE 012017	SHEET	SCALE N/A	SIZE A	2233	