

**WR-22 Waveguide Section 12 Inch Length Straight
Using UG-383/U Flange With a 33 GHz to 50 GHz
Frequency Range in Instrumentation Grade**

Fairview Microwave carries a wide variety of waveguide sections ranging from WR-12 to WR-137. These waveguide sections include grooved and non-grooved designs. Standard lengths of our waveguide sections include 3", 6", 9", and 12" (custom lengths available upon request). For ease of identification, our commercial grade waveguide sections are painted grey while our instrumentation grade waveguide sections are gold plated. Our instrumentation grade waveguide sections were designed with precision tolerances as tight as $\pm 0.001"$ and were constructed of a high grade oxygen free copper to ensure repeatable RF performance.

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	33		50	GHz
VSWR			1.06:1	
Insertion Loss			0.36 [1.18]	dB/ft [dB/m]

* Values at 25°C, sea level

Mechanical Specifications

Waveguide Size	WR-22
Waveguide Design	Instrumentation Grade
Section Length	12 in [304.8 mm]
Flange 1	
Interface	UG-383/U
Material	Oxygen Free Hard Copper
Plating	Hard Gold over Copper Flash
Waveguide	
Interface	WR-22
Material	Oxygen Free Hard Copper
Plating	Hard Gold over Copper Flash
Flange 2	
Interface	UG-383/U
Material	Oxygen Free Hard Copper
Plating	Hard Gold over Copper Flash

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant	Yes
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Plotted and Other Data

- Notes:
- Values at 25 °C, sea level



Features:

- Commercial grade and instrumentation grade sections and bends covering frequency ranges from 5.8 GHz to 90 GHz
- Wide variety of flange types, including grooved and non-grooved designs
- Custom lengths available upon request
- Precision waveguide mechanical tolerances as tight as $\pm 0.001"$
- Comprehensive waveguide offering also includes Bends, Filters, Terminations, and Waveguide to Coaxial Adapters

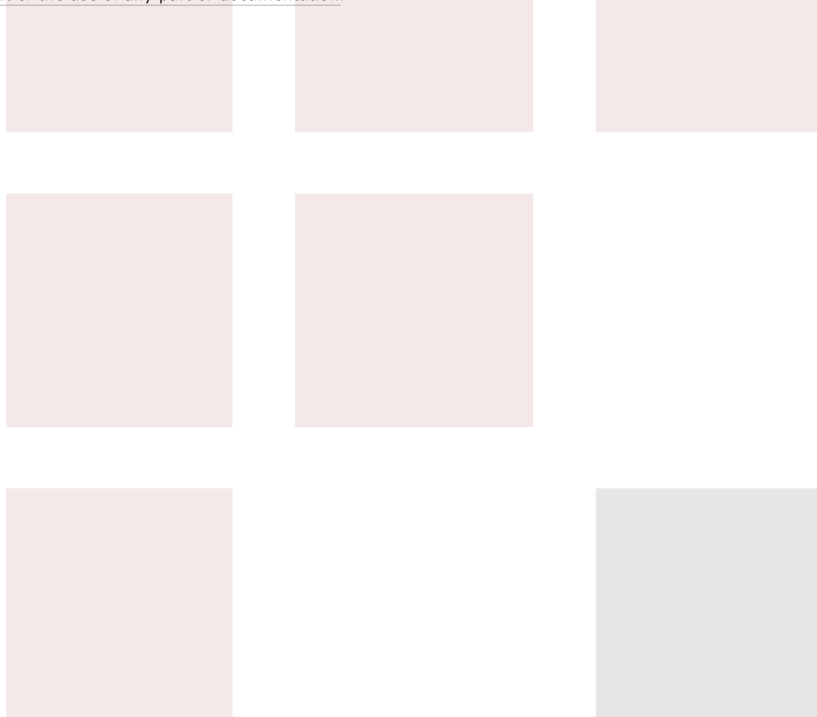
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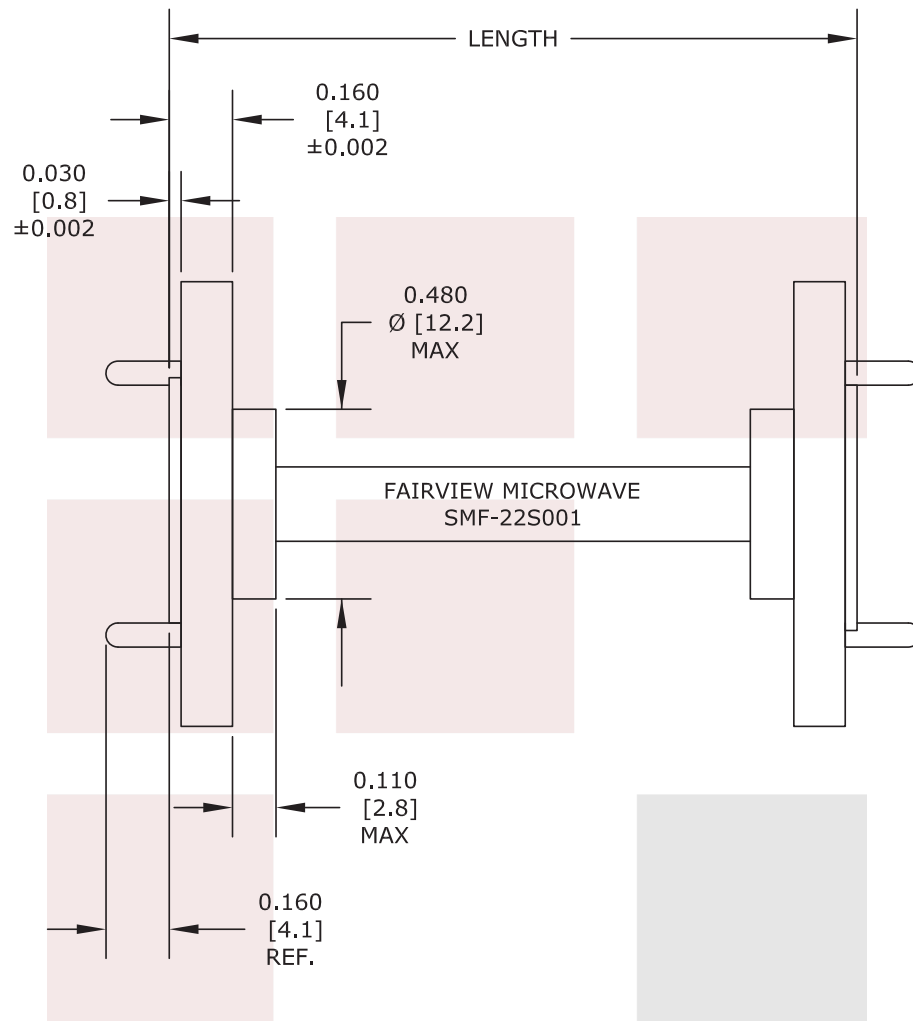
WR-22 Waveguide Section 12 Inch Length Straight Using UG-383/U Flange With a 33 GHz to 50 GHz Frequency Range in Instrumentation Grade from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-22 Waveguide Section 12 Inch Length Straight Using UG-383/U Flange With a 33 GHz to 50 GHz Frequency Range in Instrumentation Grade SMF-22S001-12](http://www.fairviewmicrowave.com/wr-22-waveguide-section-ug-383-flange-33-50-ghz-smf-22s001-12-p.aspx)

URL: <http://www.fairviewmicrowave.com/wr-22-waveguide-section-ug-383-flange-33-50-ghz-smf-22s001-12-p.aspx>

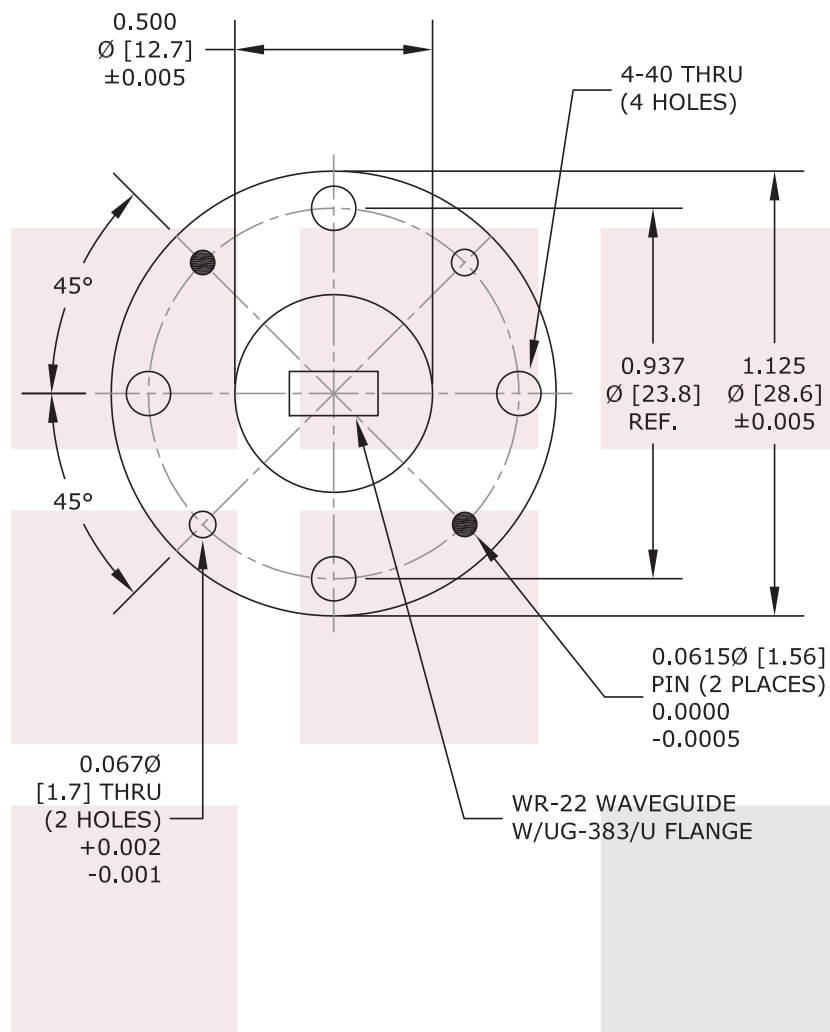
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WR-22	
PN	Length
SMF-22S001-3	3 in.
SMF-22S001-6	6 in.
SMF-22S001-9	9 in.
SMF-22S001-12	12 in.

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TITLE WR-22 Waveguide Section 12 Inch Length Straight Using UG-383/U Flange With a 33 GHz to 50 GHz Frequency Range in Instrumentation Grade		DWG NO SMF-22S001		CAGE CODE 3FKR5	
CAD FILE	100614	SHEET	SCALE	N/A	SIZE A 2233



WR-22	
PN	Length
SMF-22S001-3	3 in.
SMF-22S001-6	6 in.
SMF-22S001-9	9 in.
SMF-22S001-12	12 in.

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