

WR-51 Waveguide Section 6 Inch Length Straight Using UBR180 Flange With a 15 GHz to 22 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 ± 0.001 " and were constructed of a high grade oxygen free copper to ensure repeatable RF performance.

Electrical Specifications*

Description	Min	Тур	Мах	Units
Frequency Range	15		22	GHz
VSWR			1.06:1	
Insertion Loss			0.09 [0.3]	dB/ft [dB/m]

WR-51

* Values at 25°C, sea level

Mechanical Specifications

Waveguide Size Waveguide Design Section Length

Flange 1 Interface

Material Plating

Waveguide

Interface Material Plating

Flange 2

Interface Material Plating Instrumentation Grade 6 in [152.4 mm]

UBR180 Oxygen Free Hard Copper Hard Gold over Copper Flash

WR-51 Oxygen Free Hard Copper Hard Gold over Copper Flash

UBR180 Oxygen Free Hard Copper Hard Gold over Copper Flash

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

Plotted and Other Data

Notes:

• Values at 25 °C, sea level



SMF-51S001-06

DATA SHEET

Features:

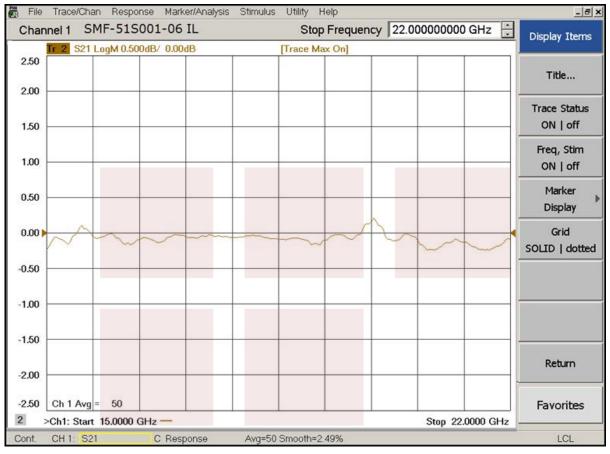
- Commercial grade and instrumentation grade sections and bends covering frequency ranges from 5.8 GHz to 90 GHz
- Wide variety of flange types, including grooved and non-grooved designs
- Custom lengths available
 upon request
- Precision waveguide mechanical tolerances as tight as ±0.001"
- Comprehensive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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Typical Performance Data



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File	Trace/Chan	Response	Marker/An	alysis Stimulus	Utility Help			X
	nel 1 SMF-			R	Stop Frequ	iency 22.0	000000000 GHz	Display Items
11.00	Tr 1 S11 SV	VR 1.000U/	1.00U					Title
10.00								
9.00						_		Trace Status ON off
8.00						_		Freq, Stim ON off
7.00								Marker Display
6.00								Grid SOLID dotted
5.00								
4.00						-		-
3.00		<u></u>				-		
2.00	,							Return
1.00	Ch 1 Avg = >Ch1: Start 1	under der seinen der Albert der					Stop 22.0000 GH	Favorites
Cont.	CH 1: Start 1: CH 1: S11		z	Ava=50	Smooth=3.48%		300p 22.0000 GF	LCL

WR-51 Waveguide Section 6 Inch Length Straight Using UBR180 Flange With a 15 GHz to 22 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-51 Waveguide Section 6 Inch Length Straight Using UBR180 Flange With a 15 GHz to 22 GHz Frequency Range in Instrumentation Grade SMF-51S001-06

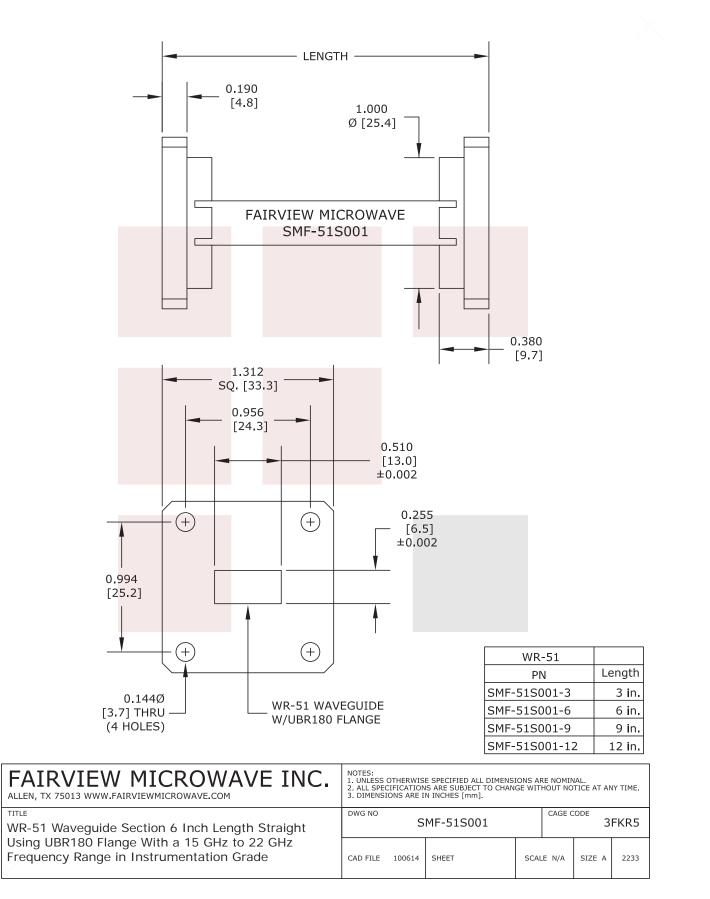
URL: http://www.fairviewmicrowave.com/wr-51-waveguide-section-ubr180-flange-15-22-ghz-smf-51s001-06-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

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