

## SMF-12S001-03 DATA SHEET

## WR-12 Waveguide Section 3 Inch Length Straight Using UG-387/U Flange With a 60 GHz to 90 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.



Description	Min	Тур	Max	Units
Frequency Range	60		90	GHz
VSWR			1.06:1	
Insertion Loss			0.25 [0.82]	dB/ft [dB/m]

<sup>\*</sup> Values at 25°C, sea level

**Mechanical Specifications** 

Waveguide Size WR-12

Waveguide Design Instrumentation Grade

Section Length 3 in [76.2 mm]

Flange 1

Interface UG-387/U

Material Oxygen Free Hard Copper Plating Hard Gold over Copper Flash

Waveguide

Interface WR-12

Material Oxygen Free Hard Copper
Plating Hard Gold over Copper Flash

Flange 2

Interface UG-387/U

Material Oxygen Free Hard Copper Plating 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



## 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





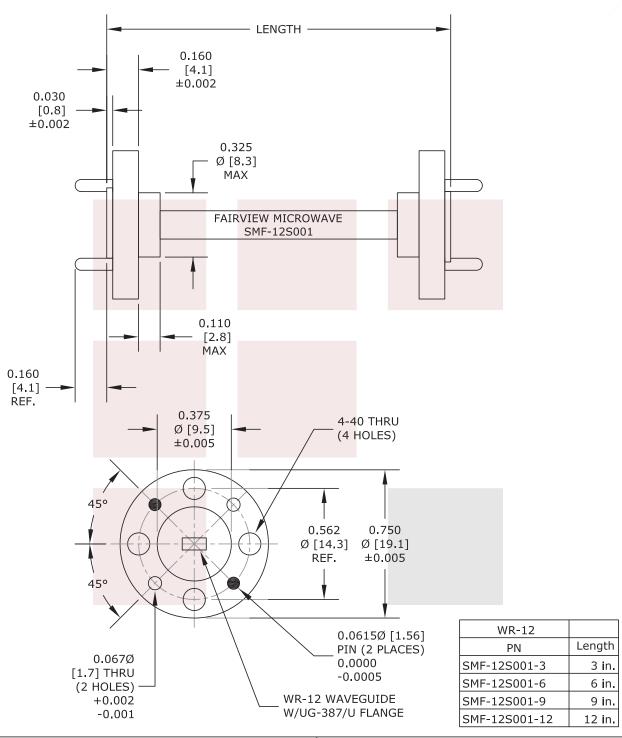
WR-12 Waveguide Section 3 Inch Length Straight Using UG-387/U Flange With a 60 GHz to 90 GHz Frequency Range in Instrumentation Grade from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-12 Waveguide Section 3 Inch Length Straight Using UG-387/U Flange With a 60 GHz to 90 GHz Frequency Range in Instrumentation Grade SMF-12S001-03

URL: http://www.fairviewmicrowave.com/wr-12-waveguide-section-ug-387-flange-60-90-ghz-smf-12s001-03-p.aspx







FAIRVIEW MICROWAVE INC. 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].						
WR-12 Waveguide Section 3 Inch Length Straight Using UG-387/U Flange With a 60 GHz to 90 GHz Frequency Range in Instrumentation Grade	DWG NO SMF-12S001			CAGE CODE 3FKR5			
	CAD FILE 100614	SHEET	SCALI	E N/A	SIZE A	2233	