

**WR-90 Waveguide Section 9 Inch Length Straight Using UG-39/U Flange With a 8.2 GHz to 12.4 GHz Frequency Range in Commercial Grade**

**Electrical Specifications\***

Description	Min	Typ	Max	Units
Frequency Range	8.2		12.4	GHz
VSWR			1.03:1	
Insertion Loss			0.1 [0.33]	dB/ft [dB/m]

\* Values at 25°C, sea level

**Mechanical Specifications**

Waveguide Size: WR-90  
 Waveguide Design: Commercial Grade  
 Section Length: 9 in [228.6 mm]

**Flange 1**

Interface: UG-39/U  
 Material: Copper Alloy  
 Plating: Paint

**Waveguide**

Interface: WR-90  
 Material: Copper Alloy  
 Plating: Paint

**Flange 2**

Interface: UG-39/U  
 Material: Copper Alloy  
 Plating: Paint

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

**Plotted and Other Data**

Notes:  
 • Values at 25 °C, sea level



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WR-90 Waveguide Section 9 Inch Length Straight Using UG-39/U Flange With a 8.2 GHz to 12.4 GHz Frequency Range in Commercial 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.

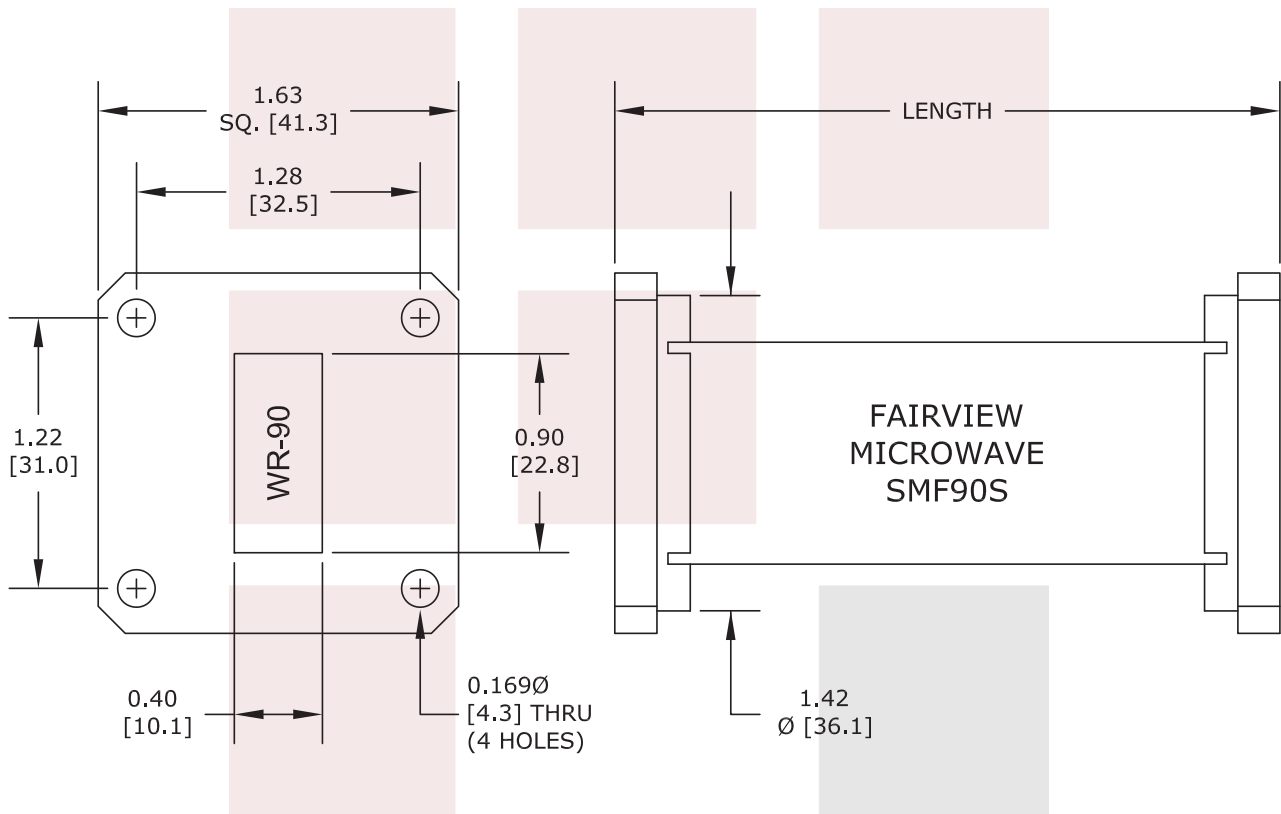
For additional information on this product, please click the following link: [WR-90 Waveguide Section 9 Inch Length Straight Using UG-39/U Flange With a 8.2 GHz to 12.4 GHz Frequency Range in Commercial Grade SMF90S-09](#)

URL: <http://www.fairviewmicrowave.com/wr-90-waveguide-section-ug-39-flange-8.2-12.4-ghz-smf90s-09-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.



WR-90	
PN	Length
SMF90S-3	3 in.
SMF90S-6	6 in.
SMF90S-9	9 in.
SMF90S-12	12 in.



<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-90 Waveguide Section 9 Inch Length Straight Using UG-39/U Flange With a 8.2 GHz to 12.4 GHz Frequency Range in Commercial Grade		DWG NO SMF90S		CAGE CODE 3FKR5	
CAD FILE	062414	SHEET	SCALE	N/A	SIZE A 2233