

**WR-90 Waveguide Section 12 Inch Length Straight Using CPR-90G 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: 12 in [304.8 mm]

**Flange 1**

Interface: CPR-90G  
 Material: Copper Alloy  
 Plating: Paint

**Waveguide**

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

**Flange 2**

Interface: CPR-90G  
 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

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

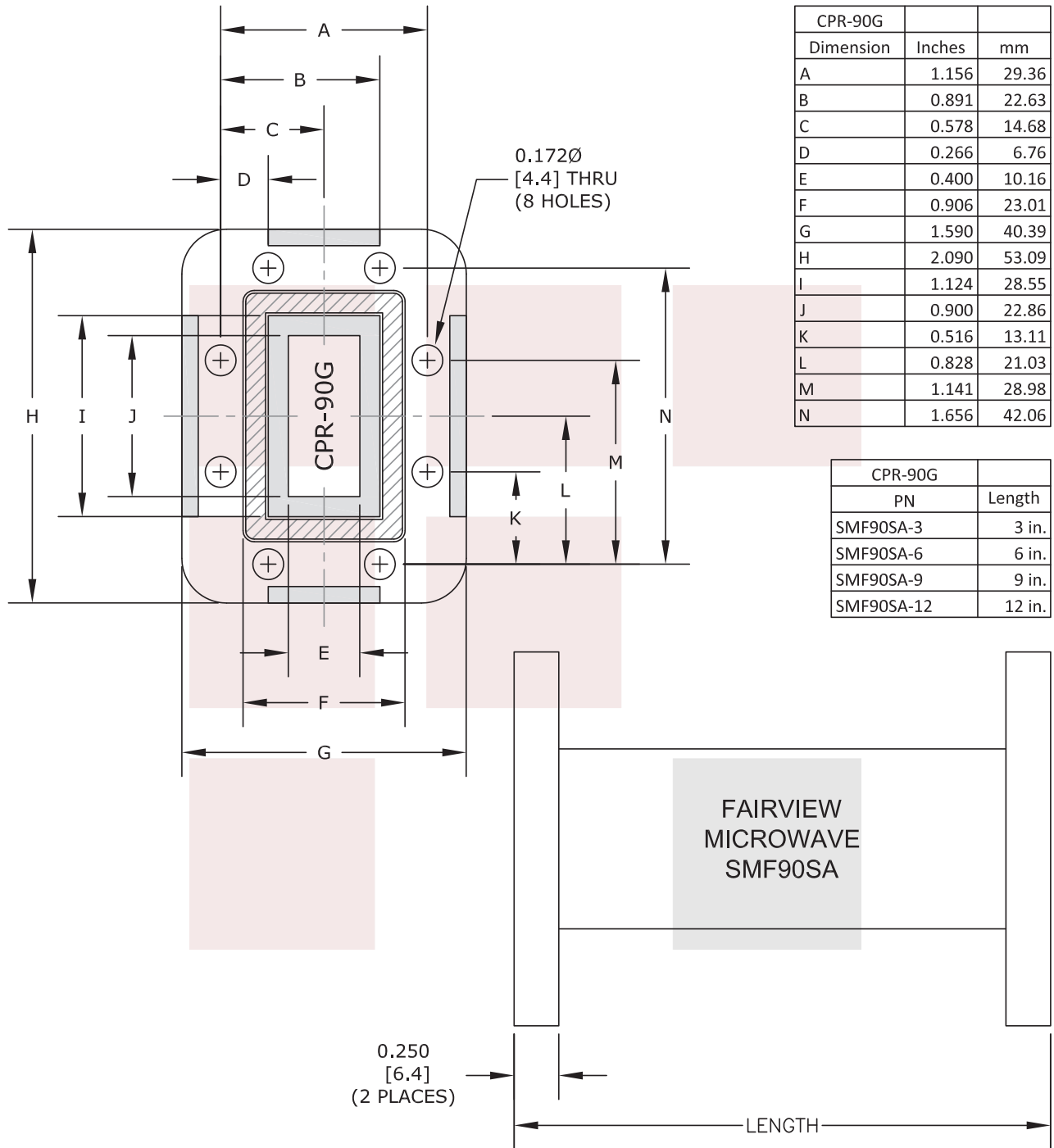
WR-90 Waveguide Section 12 Inch Length Straight Using CPR-90G Flange With a 8.2 GHz to 12.4 GHz Frequency Range in Commercial Grade from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-90 Waveguide Section 12 Inch Length Straight Using CPR-90G Flange With a 8.2 GHz to 12.4 GHz Frequency Range in Commercial Grade SMF90SA-12](#)

URL: <http://www.fairviewmicrowave.com/wr-90-waveguide-section-cpr-90g-flange-8.2-12.4-ghz-smf90sa-12-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.





CPR-90G		
Dimension	Inches	mm
A	1.156	29.36
B	0.891	22.63
C	0.578	14.68
D	0.266	6.76
E	0.400	10.16
F	0.906	23.01
G	1.590	40.39
H	2.090	53.09
I	1.124	28.55
J	0.900	22.86
K	0.516	13.11
L	0.828	21.03
M	1.141	28.98
N	1.656	42.06

CPR-90G	
PN	Length
SMF90SA-3	3 in.
SMF90SA-6	6 in.
SMF90SA-9	9 in.
SMF90SA-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 12 Inch Length Straight Using CPR-90G Flange With a 8.2 GHz to 12.4 GHz Frequency Range in Commercial Grade		DWG NO SMF90SA		CAGE CODE 3FKR5	
CAD FILE	062714	SHEET	SCALE	N/A	SIZE A 150