

WR-42 Waveguide Section 4 Inch Length Using UG Square Cover and Grooved Flange from 17.6 GHz to 26.7 GHz in Brass

Fairview Microwave's FMW42S001-4 is a 4 inch WR-42 straight waveguide section that operates from 17.6 GHz to 26.7 GHz. This straight waveguide section offers a maximum 1.05:1 VSWR. The input of this straight waveguide section has a UG Cover and Grooved Flange. FMW42S001-4 is part of over 40,000 RF, microwave and millimeter wave components. WR-42 straight waveguide section will ship worldwide the same day it is purchased along with our other RF components.

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	17.6		26.7	GHz
VSWR			1.05:1	
Insertion Loss Max			0.2	dB

* Values at 25°C, sea level

Mechanical Specifications

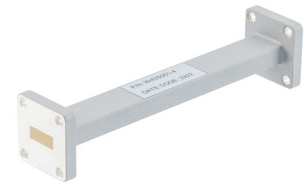
Waveguide Size	WR-42
Section Length	3.94 in [100.08 mm]
Flange 1	
Flange Type	UG Cover
Material	Brass
Waveguide	
Interface	WR-42
Material	Brass
Plating	Silver
Flange 2	
Flange Type	UG Grooved
Material	Brass
Size	
Weight	0.11 lbs [49.9 g]

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25 °C, sea level



Features:

- WR-42 Waveguide Section
- UG Grooved and Cover Flanges
- Frequency Range 17.6 GHz to 26.7 GHz
- 4 inch length
- Maximum VSWR 1.05:1
- Metrology grade for VNA calibration

Applications:

- Transmission Systems
- Test and Laboratory Setups
- VNA Calibration

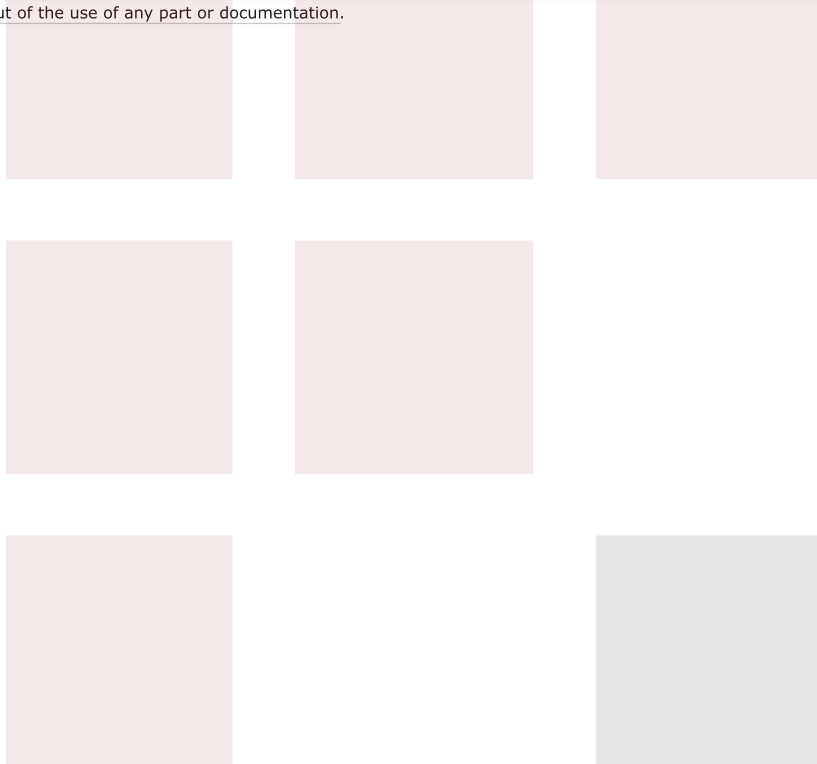
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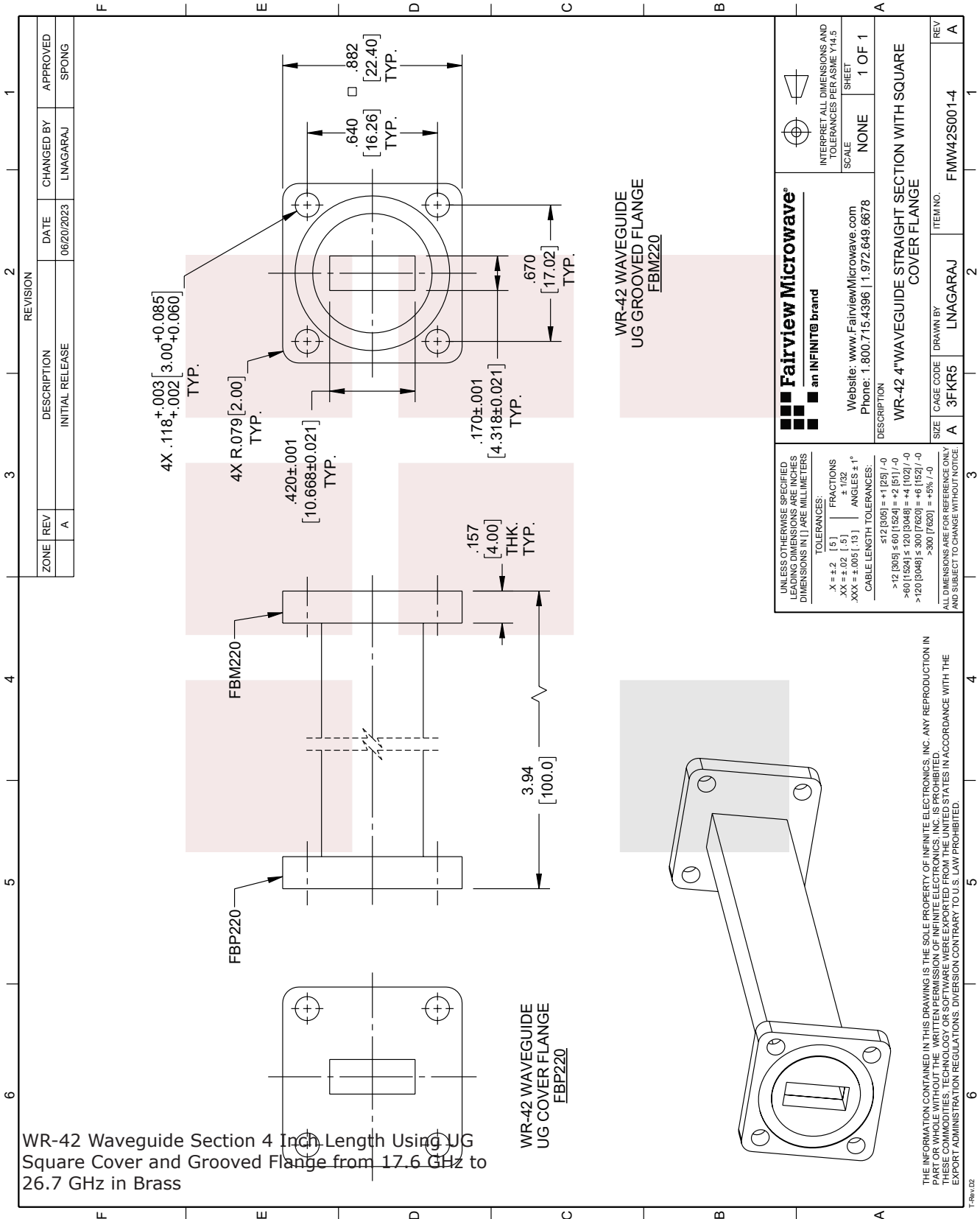
WR-42 Waveguide Section 4 Inch Length Using UG Square Cover and Grooved Flange from 17.6 GHz to 26.7 GHz in Brass from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-42 Waveguide Section 4 Inch Length Using UG Square Cover and Grooved Flange from 17.6 GHz to 26.7 GHz in Brass FMW42S001-4](#)

URL: <https://www.fairviewmicrowave.com/wr-42-waveguide-section-straight-ug-fmw42s001-4-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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<p>Fairview Microwave an INFINIT[®] brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>	<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>												
<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES UNLESS INDICATED OTHERWISE. DIMENSIONS IN LARGE MILLIMETERS.</p> <p>TOLERANCES:</p> <p>X = ±.2 [5] FRACTIONS .XX = ±.02 [.5] ANGLES ± 1° .XXX = ±.005 [.13]</p> <p>CABLE LENGTH TOLERANCES:</p> <p>≤ 12 [305] = +1 [25] / -0 > 12 [305] ≤ 60 [1524] = +2 [51] / -0 > 60 [1524] ≤ 120 [3048] = +4 [102] / -0 > 120 [3048] ≤ 300 [7620] = +6 [152] / -0 > 300 [7620] = +5% / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.</p>	<p>DESCRIPTION: WR-42 4" WAVEGUIDE STRAIGHT SECTION WITH SQUARE COVER FLANGE</p> <p>ITEM NO.: FMW42S001-4</p>												
<p>REVISION</p> <table border="1"> <tr> <th>ZONE</th> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>CHANGED BY</th> <th>APPROVED</th> </tr> <tr> <td></td> <td>A</td> <td>INITIAL RELEASE</td> <td>06/20/2023</td> <td>LNAGARAJ</td> <td>SPONG</td> </tr> </table>	ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED		A	INITIAL RELEASE	06/20/2023	LNAGARAJ	SPONG	<p>SIZE: A</p> <p>CAGE CODE: 3FKR5</p> <p>DRAWN BY: LNAGARAJ</p>
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