

WR-42 Waveguide Section 1.5 Inch Length Using UG-595/U Flange from 18 GHz to 26.5 GHz in Aluminum



FMW42S001-1.5

Features

- WR-42 Waveguide Section
- UG-595/U Square Cover Flanges
- Frequency Range 18 GHz to 26.5 GHz
- 1.5 Inch Length
- Maximum VSWR 1.1:1

Applications

- Transmission Systems
- Test and Laboratory Setups

Description

Fairview Microwave's FMW42S001-1.5 is a 1.5 inch WR-42 straight waveguide section that operates from 18 GHz to 26.5 GHz. This straight waveguide section offers a maximum 1.1:1 VSWR. The input and output of this straight waveguide section is a UG-595/U Square Cover Flanges. FMW42S001-1.5 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	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	GHz
VSWR			1.1:1	
Insertion Loss Max		0.2		dB

Mechanical Specifications

Waveguide Size	WR-42
Waveguide Design	Standard
Section Length	1.5 in [38.1 mm]

Description	Flange 1	Waveguide	Flange 2
Flange Type	UG Cover		UG Cover
Flange Designation	UG-595/U	WR-42	UG-595/U
Material	Aluminum	Aluminum	Aluminum

Size

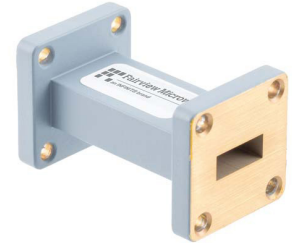
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at +25 °C, sea level

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WR-42 Waveguide Section 1.5 Inch Length Using UG-595/U Flange from 18 GHz to 26.5 GHz in Aluminum 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.

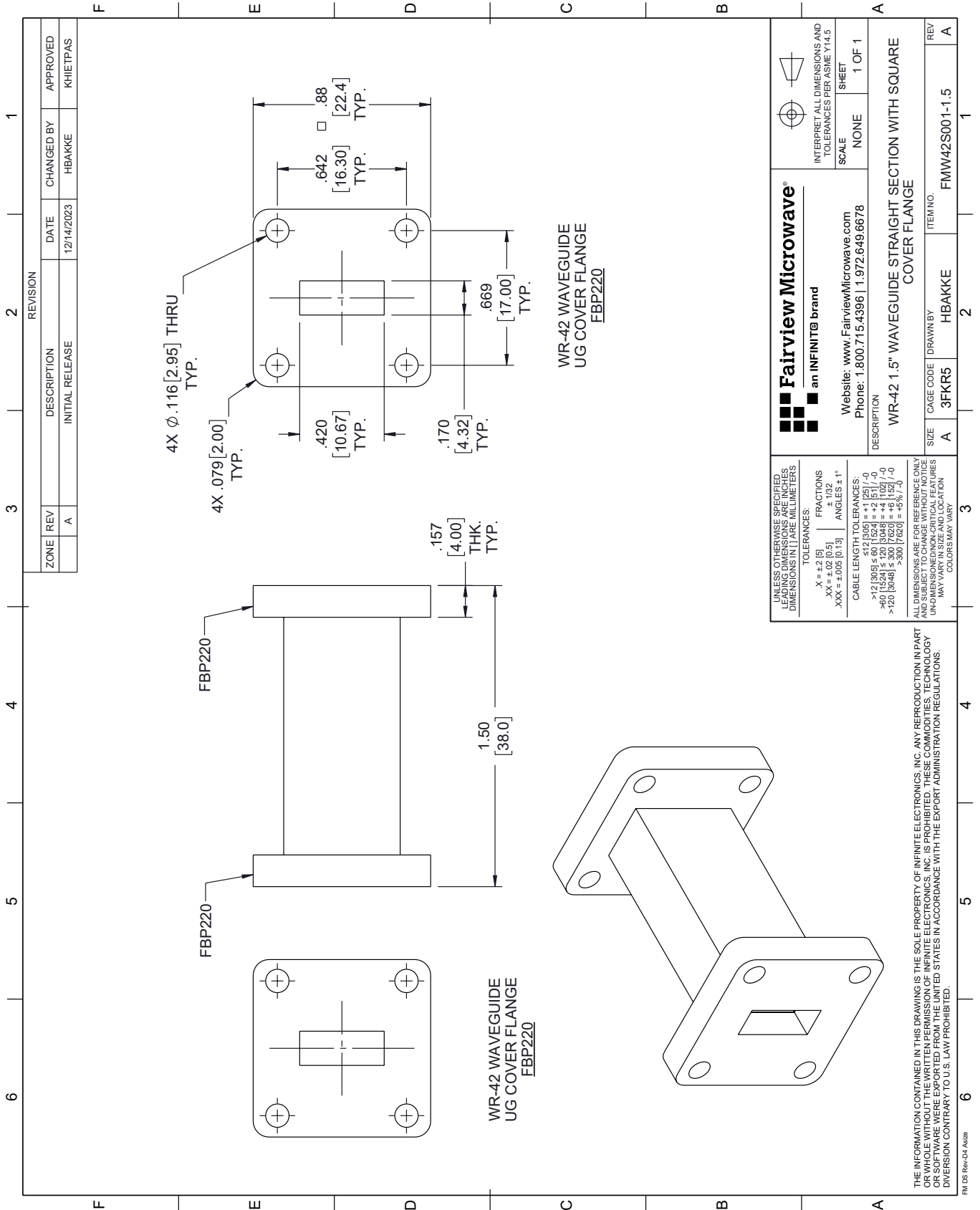
For additional information on this product, please click the following link: [WR-42 Waveguide Section 1.5 Inch Length Using UG-595/U Flange from 18 GHz to 26.5 GHz in Aluminum FMW42S001-1.5](https://www.fairviewmicrowave.com/wr-42-waveguide-section-straight-ug595-ug-standard-fmw42s001-1.5-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-42-waveguide-section-straight-ug595-ug-standard-fmw42s001-1.5-p.aspx>

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FMW42S001-1.5 CAD Drawing

WR-42 Waveguide Section 1.5 Inch Length Using UG-595/U Flange from 18 GHz to 26.5 GHz in Aluminum



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	12/14/2023	HBAKKE	KHIETPAS

Fairview Microwave
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: WR-42 1.5" WAVEGUIDE STRAIGHT SECTION WITH SQUARE COVER FLANGE

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: HBAKKE
ITEM NO.: FMW42S001-1.5

REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] ± .60 [15.24] = +.2 [5] / -0
 > 12 [305] ≤ 60 [1524] = +.4 [10.2] / -0
 > 60 [1524] ≤ 120 [3048] = +.4 [10.2] / -0
 > 120 [3048] ≤ 300 [7620] = +.6 [15.2] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS. COLORS MAY VARY.

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FM DS Rev-D4 Alt26