

WR-187 Waveguide Section 8 Inch Straight Length, UG Cover and Grooved Flanges from 3.94 GHz to 5.99 GHz



FMW187S001-8

Features

- WR-187 Waveguide Section
- UG Cover and Grooved Flanges
- Frequency Range 3.94 GHz to 5.99 GHz
- 8 Inch Length
- Maximum VSWR 1.05:1

Applications

- Satellite Communications
- Radar Systems
- Test and Laboratory Setups

Description

Fairview Microwave's FMW187S001-8 is a 8 inch WR-187 straight waveguide section that operates from 3.94 GHz to 5.99 GHz. This straight waveguide section offers a maximum 1.05:1 VSWR. The input and output of this straight waveguide section is a UG Cover and UG Grooved Flanges. FMW187S001-8 is part of over 40,000 RF, microwave and millimeter wave components. WR-187 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	3.94		5.99	GHz
VSWR			1.05:1	
Insertion Loss		0.2		dB

Mechanical Specifications

Waveguide Size	WR-187
Waveguide Design	Standard
Section Length	8 in [203.2 mm]

Description	Flange 1	Waveguide	Flange 2
Flange Type	UG Cover		UG Grooved
Flange Designation		WR-187	
Material	Aluminum	Aluminum	Aluminum
Plating	Chromate Conversion	Chromate Conversion	Chromate Conversion
Color	Gray	Gray	Gray

Temperature

Temperature Operating Range -40 to +70 deg C

Size

Weight 0.71 lbs [322.05 g]

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

Plotted and Other Data

Notes:

- Values at +25 °C, sea level

WR-187 Waveguide Section 8 Inch Straight Length, UG Cover and Grooved Flanges from 3.94 GHz to 5.99 GHz 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.

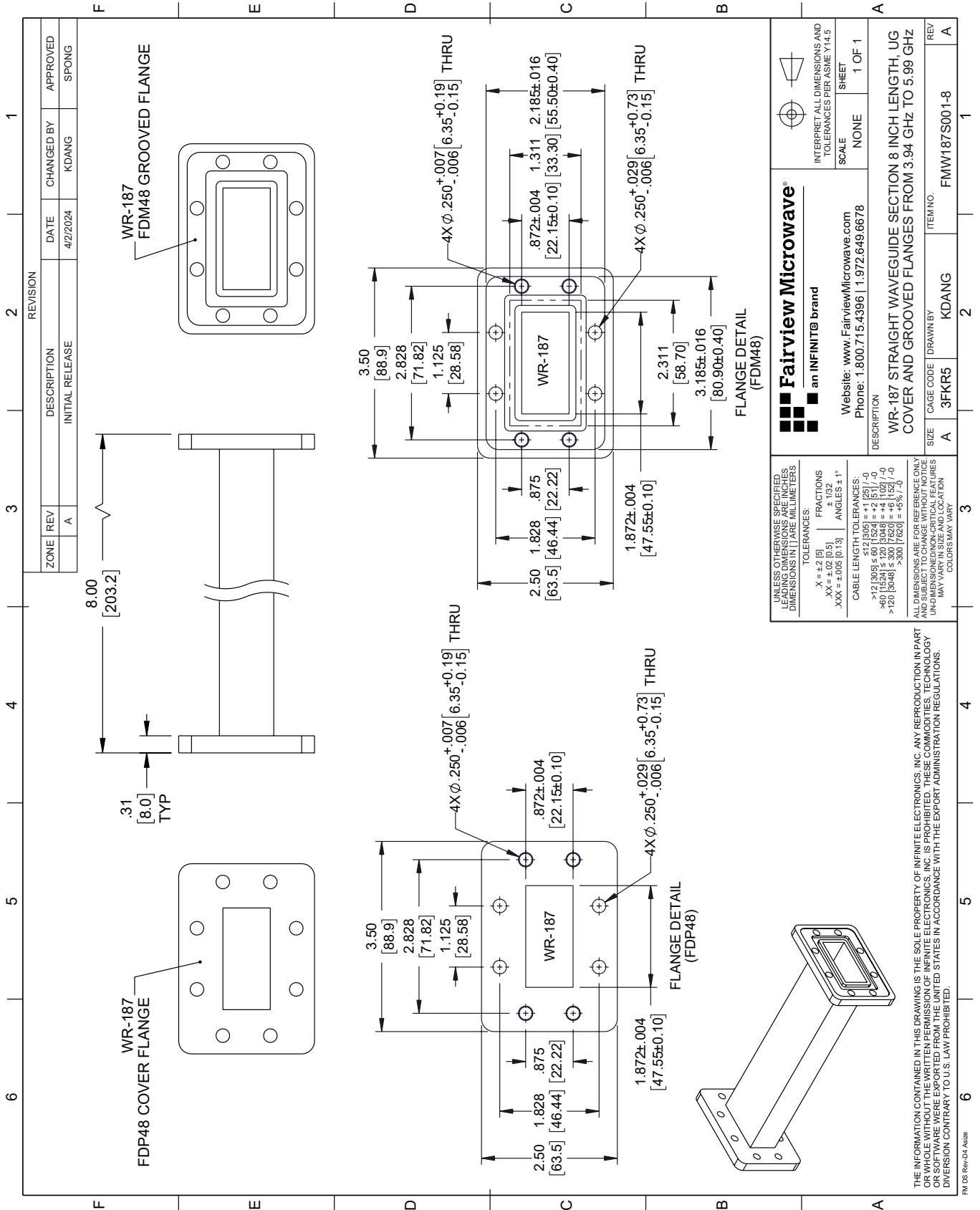
For additional information on this product, please click the following link: [WR-187 Waveguide Section 8 Inch Straight Length, UG Cover and Grooved Flanges from 3.94 GHz to 5.99 GHz FMW187S001-8](#)

URL: <https://www.fairviewmicrowave.com/wr-187-waveguide-section-straight-ug-standard-fmw187s001-8-p.aspx>

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FMW187S001-8 CAD Drawing

WR-187 Waveguide Section 8 Inch Straight Length, UG Cover and Grooved Flanges from 3.94 GHz to 5.99 GHz



REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	4/2/2024	KDANG	SPONG

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

DESCRIPTION: WR-187 STRAIGHT WAVEGUIDE SECTION 8 INCH LENGTH, UG COVER AND GROOVED FLANGES FROM 3.94 GHz TO 5.99 GHz

SIZE: A CAGE CODE: 3FKR5 DRAWN BY: KDANG ITEM NO.: FMW187S001-8

REV: A

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

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ±.132
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 >12 [3048] ≤ 60 [1524] = +.2 [5] / -0
 >60 [1524] ≤ 120 [3048] = +.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +.6 [15] / -0

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

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