

WR-51 Waveguide E-Bend using UBR180 and PBR180 Flange with a 14.5 GHz to 22 GHz Frequency Range



FMW51B003

Features

- WR-51 Waveguide E-Plane Bend
- UBR180 Square Cover and PBR180 Square Grooved Flange
- 14.5 GHz to 22 GHz Frequency Ranges
- Comprehensive waveguide offerings also includes Waveguide Sections, Waveguide to Coax Adapters, Filters, Terminations, and more.

Applications

Description

FMW51B003 is a WR-51 waveguide bend that is an E-Plane Bend type with a UBR180 Square Cover and PBR180 Square Grooved flange. This WR-51 E-Bend waveguide with UBR180 Square Cover and PBR180 Square Grooved from Fairview Microwave is Instrumentation grade. Our WR-51 Instrumentation grade waveguide bend has a minimum frequency of 14.5 GHz and a maximum frequency of 22 GHz. WR-51 waveguide bend FMW51B003 is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave. This Instrumentation grade WR-51 E-Bend waveguide with UBR180 Square Cover and PBR180 Square Grooved flange can ship worldwide the same day as it is purchased as with our other available RF parts.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	14.5		22	GHz
VSWR			1.1:1	
Insertion Loss			0.2	dB

Mechanical Specifications

Waveguide Size WR-51

Description	Flange 1	Waveguide	Flange 2
Flange Type	Square Cover		Square Grooved
Flange Designation	UBR180	WR-51	PBR180
Material	Brass	Brass	Brass
Plating	Silver	Silver	Silver

Temperature

Operating Range -40 to +70 deg C
Storage Range -55 to +85 deg C

Size

Weight 0.0662 lbs [30.03 g]

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

Plotted and Other Data

Notes:

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WR-51 Waveguide E-Bend using UBR180 and PBR180 Flange with a 14.5 GHz to 22 GHz Frequency Range 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.

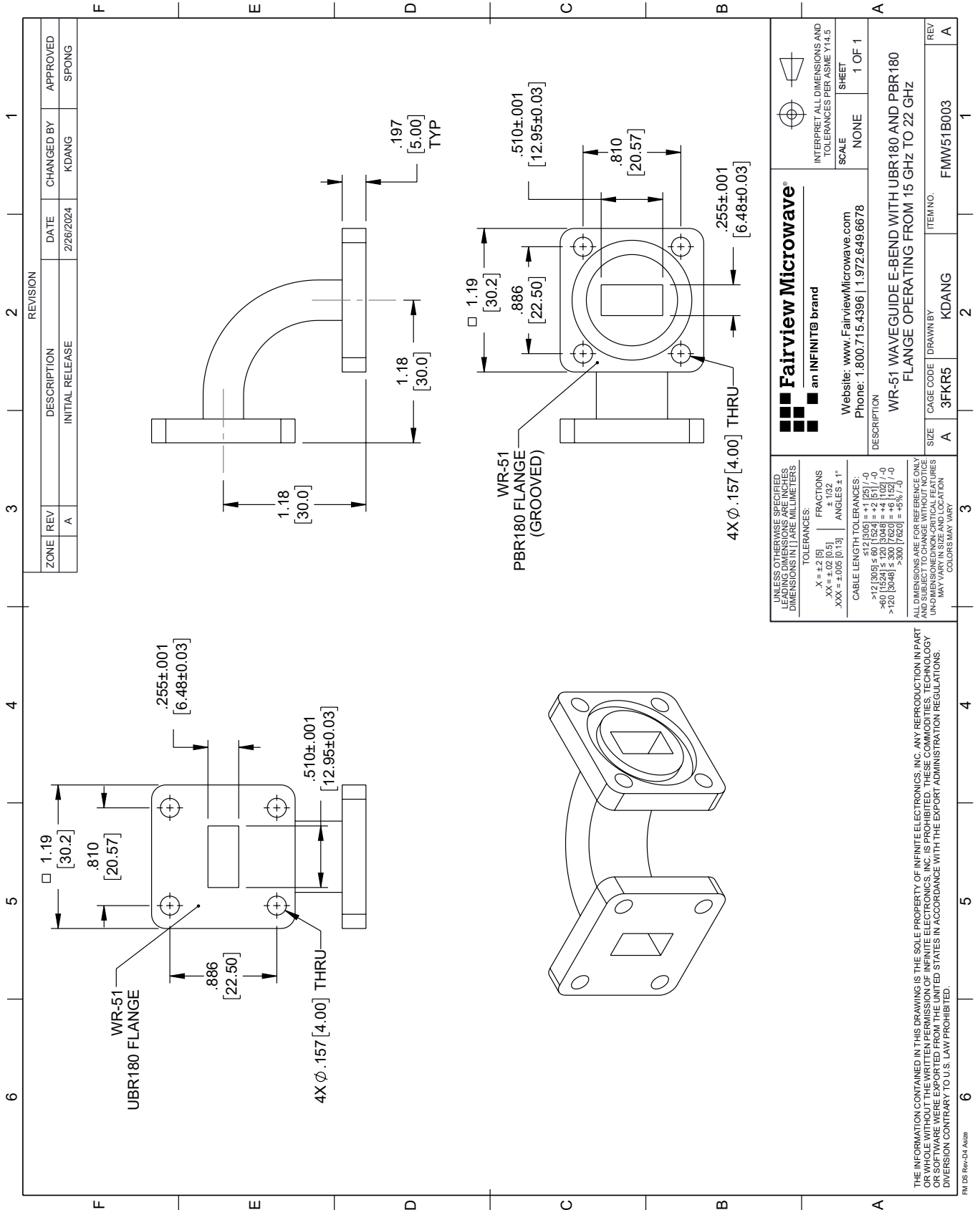
For additional information on this product, please click the following link: [WR-51 Waveguide E-Bend Using UBR180 and PBR180 Flange with a 14.5 GHz to 22 GHz Frequency Range FMW51B003](https://www.fairviewmicrowave.com/wr-51-waveguide-e-bend-ubr180-flange-14.5-22-ghz-fmw51b003-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-51-waveguide-e-bend-ubr180-flange-14.5-22-ghz-fmw51b003-p.aspx>

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FMW51B003 CAD Drawing

WR-51 Waveguide E-Bend using UBR180 and PBR180 Flange with a 14.5 GHz to 22 GHz Frequency Range



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A	A	INITIAL RELEASE	2/26/2024	KDANG	SPONG

Fairview Microwave®
an INFINITO® brand

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE: NONE
SHEET: 1 OF 1

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

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 >12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0
 >300 [7620] = ±.8 [20.3] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

DESCRIPTION: WR-51 WAVEGUIDE E-BEND WITH UBR180 AND PBR180 FLANGE OPERATING FROM 15 GHz TO 22 GHz

SIZE: A CAGE CODE: 3FKR5 DRAWN BY: KDANG ITEM NO.: FMW51B003

REV: A

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