

Calibration Kit WR-430 Operating From 1.72 to 2.61 GHz Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components



FMWCK1007

Features

- WR-430 waveguide size
- Frequency range from 8.2 to 12.5 GHz
- Precision fabricated and manufactured
- Compatible with standard TRL & SSLT calibration techniques
- Additional waveguide test standards available upon request

Applications

- Test & Measurement
- Lab Equipment Accessories
- Engineering Test and Evaluation
- General Purpose Test and Evaluation

Description

FMWCK1007 is a precision WR-430 calibration kit assembled to support standard TRL (Thru-Reflect-Line) and SSLT (Short-Short-Load-Thru) calibrations on industry standard vector network analyzers (VNA). The WR-430 calibration kit comes with two fixed flush waveguide shorts, 1/8 wavelength, 1/4 wavelength and 3/8 wavelength waveguide offsets, one matched waveguide fixed termination and two precision WR-430 waveguide-to-coax adapters. Additional WR-430 precision waveguide straight sections are available for purchase separately. Precision waveguide components in FMWCK1007 are designed to work in full WR-430 band from 1.72 to 2.61 GHz. PEWCK1007 is one of the many calibration kits and T&M components which are readily available in stock and for same-day shipment at Fairview Microwave.

Configuration

Waveguide Size	WR-430
Connector	N
Frequency Range	1.72 to 2.61 GHz

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WR-430 Calibration Kit Components

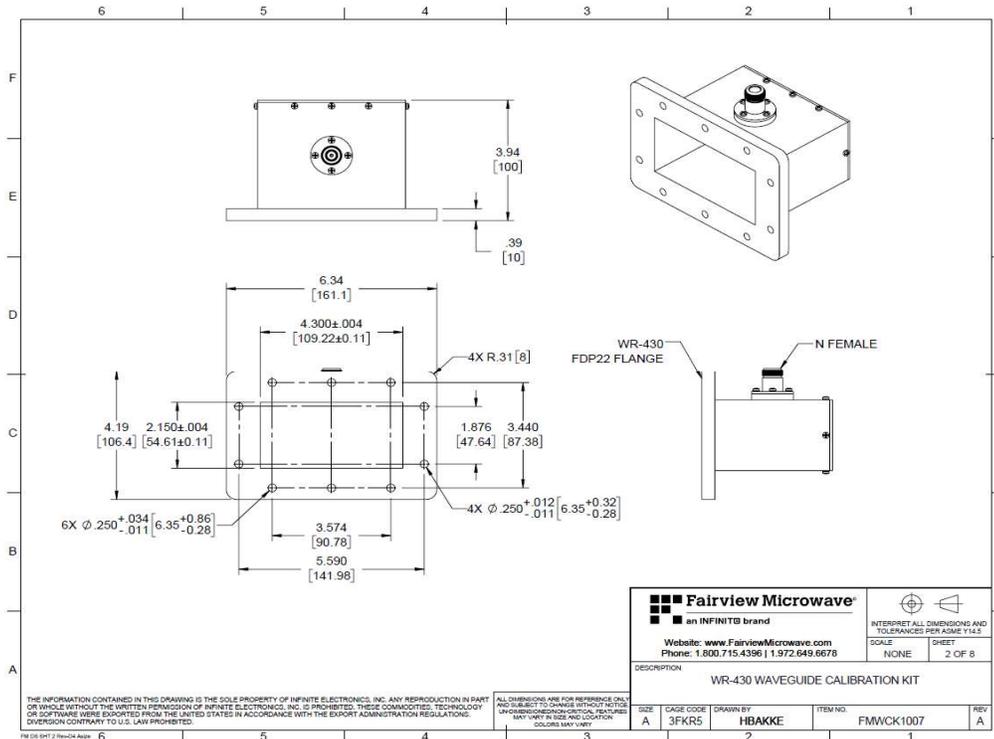
Components	Frequency (GHz)	Quantity
WR-430 Waveguide to Coax Adapter with N-Type Female Connector	1.72 to 2.61 GHz	1
WR-430 Waveguide to Coax Adapter with N-Type Male Connector	1.72 to 2.61 GHz	1
WR-430 Waveguide Termination	1.72 to 2.61 GHz	1
WR-430 Waveguide Short	1.72 to 2.61 GHz	2
WR-430 Waveguide Offset 1/8λ Section	1.72 to 2.61 GHz	1
WR-430 Waveguide Offset 1/4λ Section	1.72 to 2.61 GHz	1
WR-430 Waveguide Offset 3/8λ Section	1.72 to 2.61 GHz	1
Washer 6 (GB/T 93-1987)	N/A	30
Washer 6 (GB/T 97.1-2002)	N/A	30
Nut M6	N/A	30
Bolt M6X55	N/A	20
Bolt M6X30	N/A	18
Location Bolt	N/A	12

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WR-430 Waveguide to Coax Adapter with N-Type Female Connector



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.72		2.61	GHz
VSWR			1.2:1	
Insertion Loss			0.2	dB

Mechanical Specifications

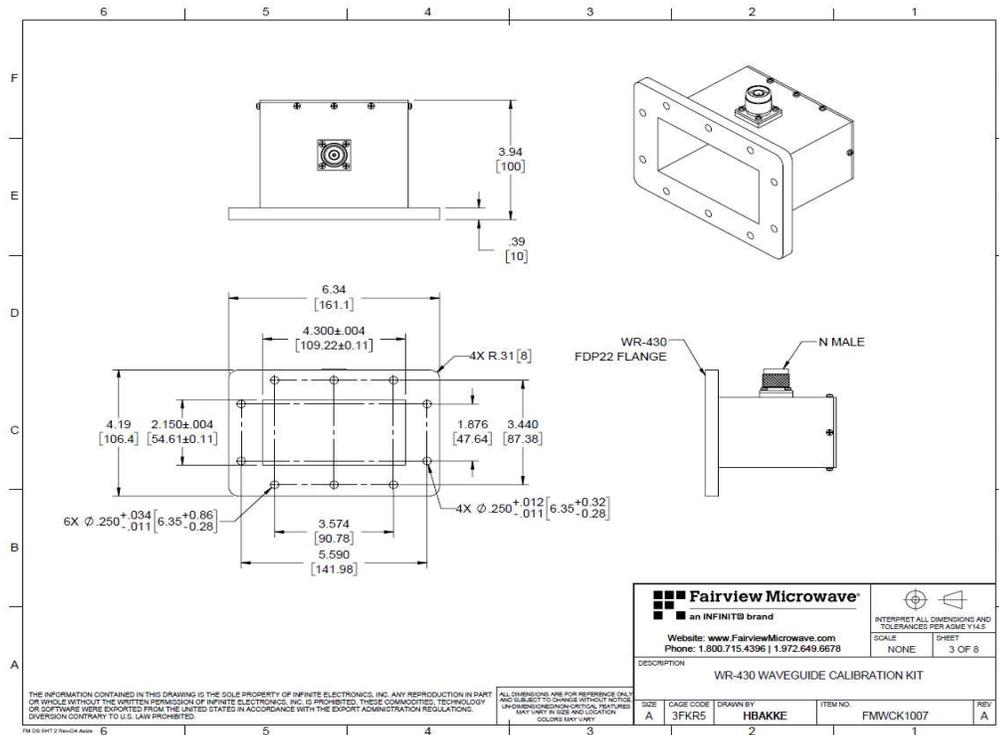
Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
RF Connector Type and Gender	N-Type Female	
Body	Right Angle	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions	3.94 [100 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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WR-430 Waveguide to Coax Adapter with N-Type Male Connector



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.72		2.61	GHz
VSWR			1.2:1	
Insertion Loss			0.2	dB

Mechanical Specifications

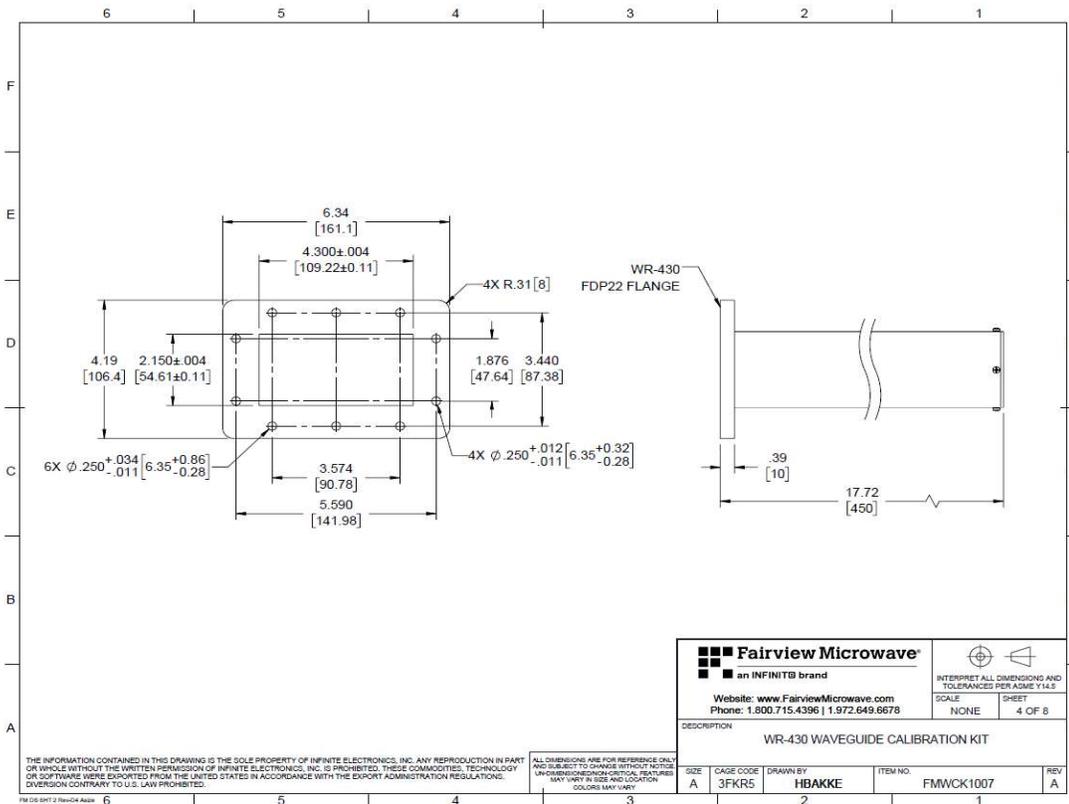
Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
RF Connector Type and Gender	N-Type Male	
Body	Right Angle	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions	3.94 [100 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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WR-430 Waveguide Termination



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.72		2.61	GHz
VSWR			1.03:1	

Mechanical Specifications

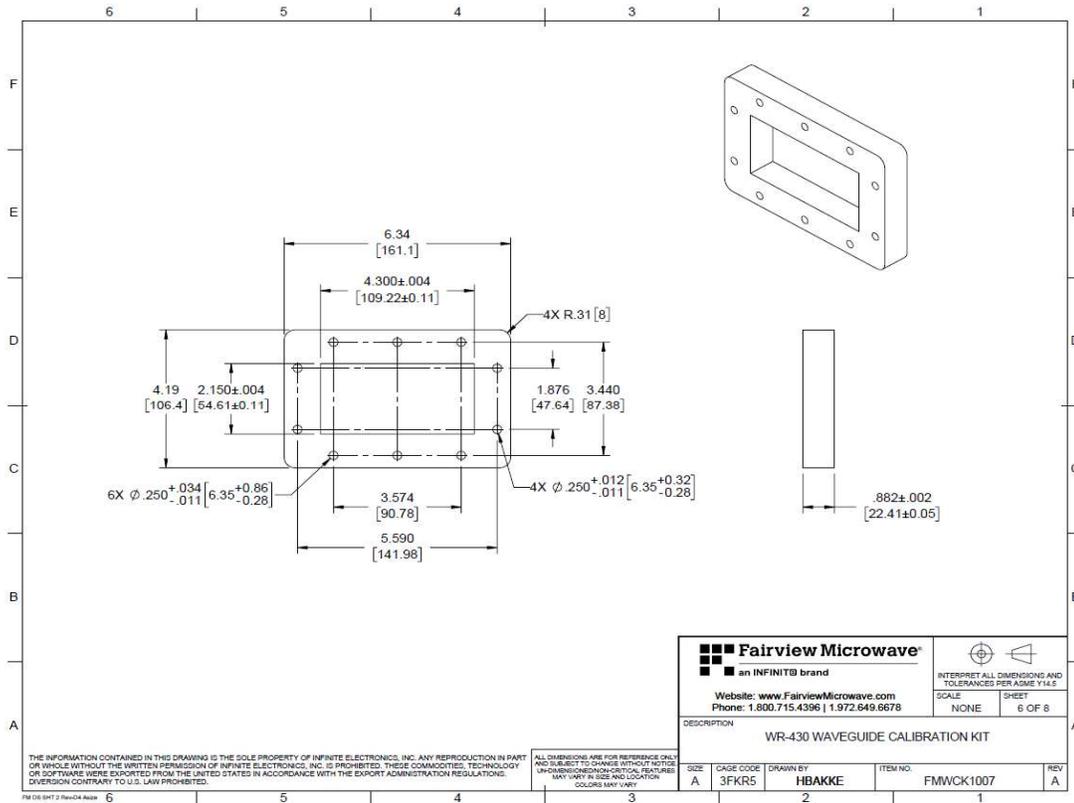
Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions	17.72 [450 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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WR-430 Waveguide Offsets (1/8λ Section)



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.72		2.61	GHz

Mechanical Specifications

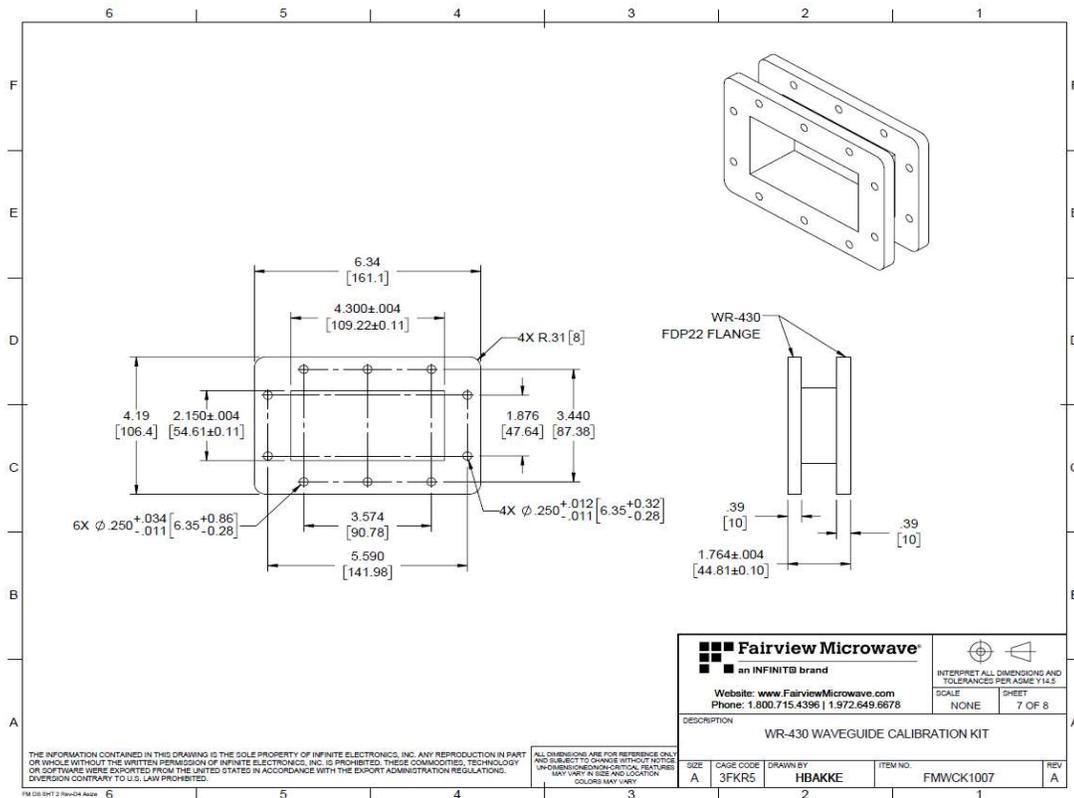
Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
Wavelength Offset	1/8λ Section	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions (L, H, W)	1.76 [44.81 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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WR-430 Waveguide Offsets (1/4λ Section)



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.72		2.61	GHz

Mechanical Specifications

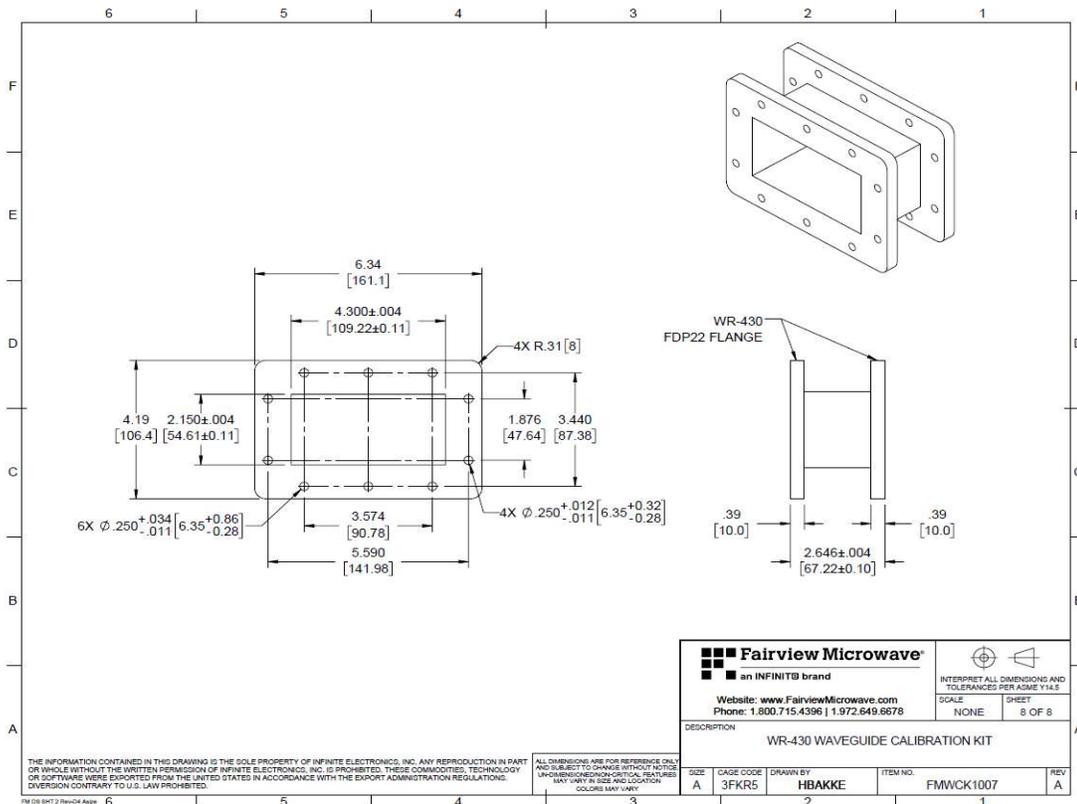
Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
Wavelength Offset	1/4λ Section	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions (L, H, W)	1.76 [44.81 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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WR-430 Waveguide Offsets (3/8λ Section)



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.72		2.61	GHz

Mechanical Specifications

Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
Wavelength Offset	3/8λ Section	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions (L, H, W)	1.76 [44.81 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Calibration Kit WR-430 Operating From 1.72 to 2.61 GHz Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components 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.

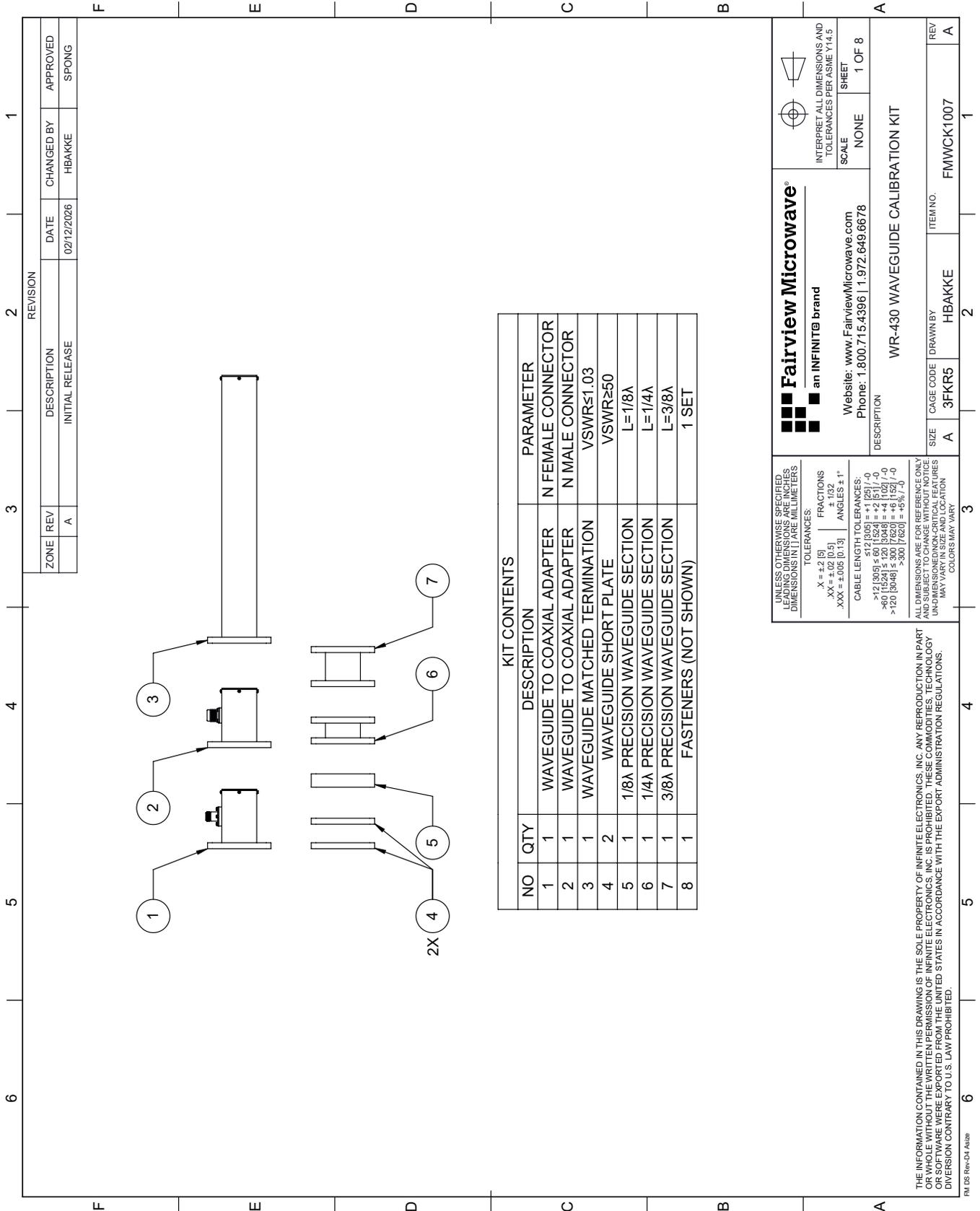
For additional information on this product, please click the following link: [Calibration Kit WR-430 Operating From 1.72 to 2.61 GHz Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components FMWCK1007](#)

URL: <https://www.fairviewmicrowave.com/open-short-load-calibration-kit-type-n-2.61-ghz-fmck1007-p.aspx>

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FMWCK1007 CAD Drawing

Calibration Kit WR-430 Operating From 1.72 to 2.61 GHz Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	02/12/2026	HBAKKE	SPONG
DESCRIPTION				
INITIAL RELEASE				

Fairview Microwave®
an INFINIT® brand

Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

SCALE: NONE
SHEET: 1 OF 8

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION: WR-430 WAVEGUIDE CALIBRATION KIT

ITEM NO. FMWCK1007

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: HBAKKE

UNLESS OTHERWISE SPECIFIED, 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 [305] ≤.60 [1524] = +.1 [25] / -0
>12 [305] ≤.60 [1524] = +.2 [51] / -0
>.60 [1524] ≤.120 [3048] = +.4 [102] / -0
>.120 [3048] ≤.300 [7620] = +.8 [203] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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