

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



PEWCK1007

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

PEWCK1007 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 PEWCK1007 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 Pasternack.

Configuration

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

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WR-430 Calibration Kit Components

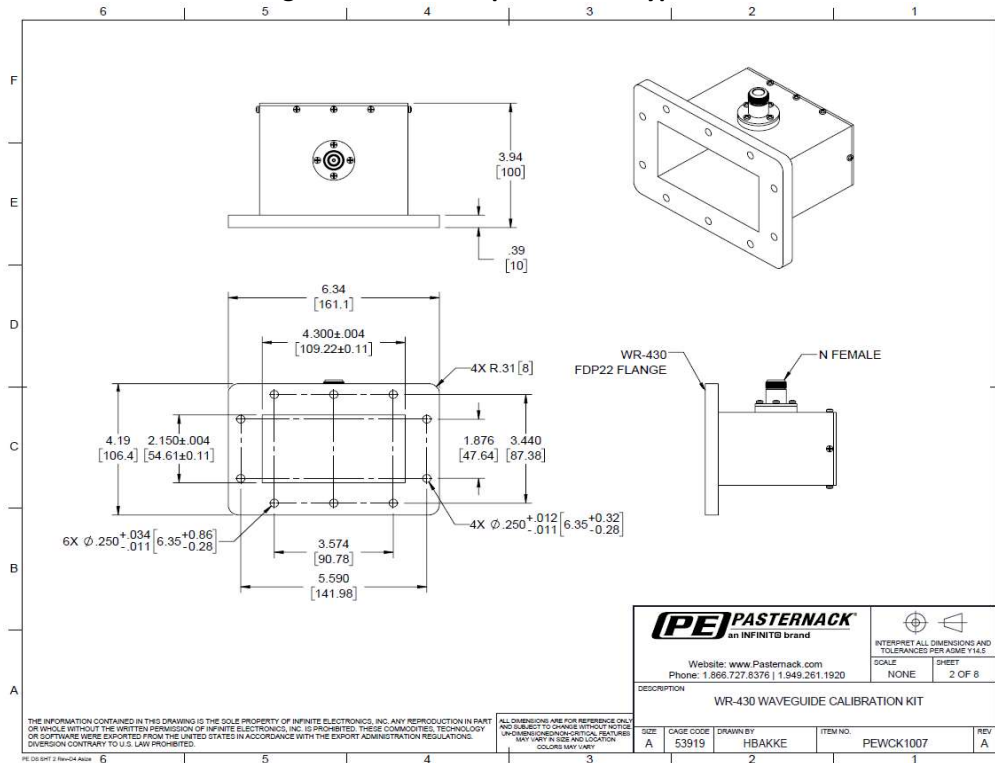
Components	Frequency (GHz)	Quantity
WR-430 Waveguide to Coax Adapter with N-Type Female Connector	1.72 to 2.61 GHz	1
WR-430 Waveguide to Coax Adapter with N-Type Male Connector	1.72 to 2.61 GHz	1
WR-430 Waveguide Termination	1.72 to 2.61 GHz	1
WR-430 Waveguide Short	1.72 to 2.61 GHz	2
WR-430 Waveguide 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

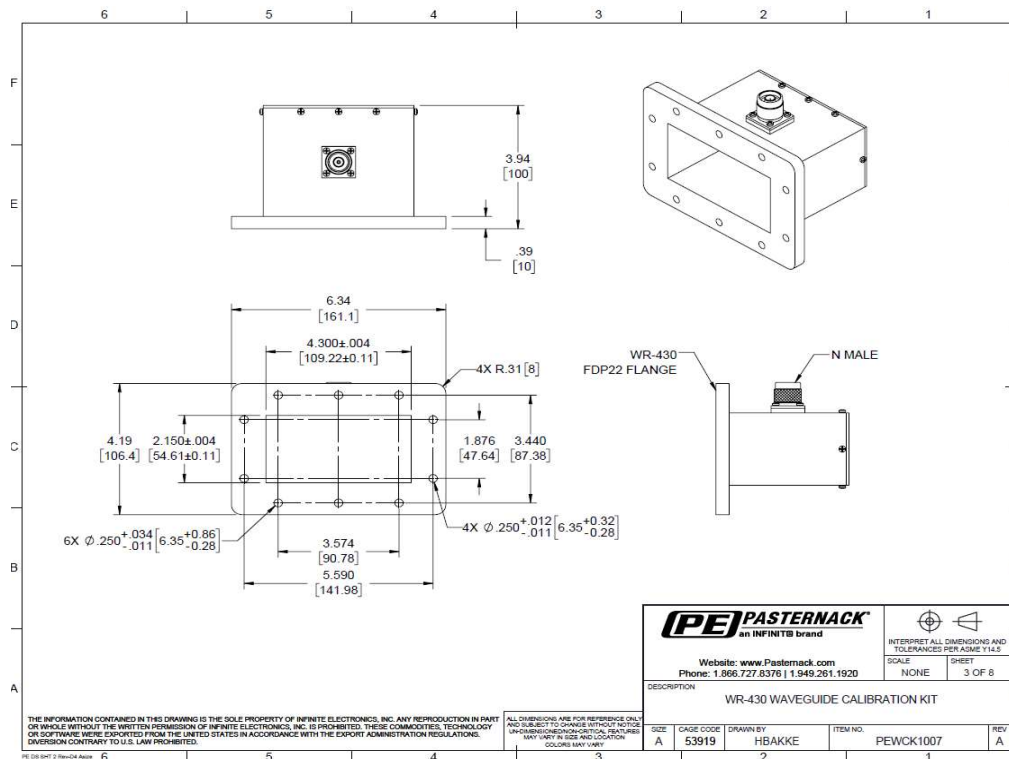
Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
RF Connector Type and Gender	N-Type Female	
Body	Right Angle	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions	3.94 [100 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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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

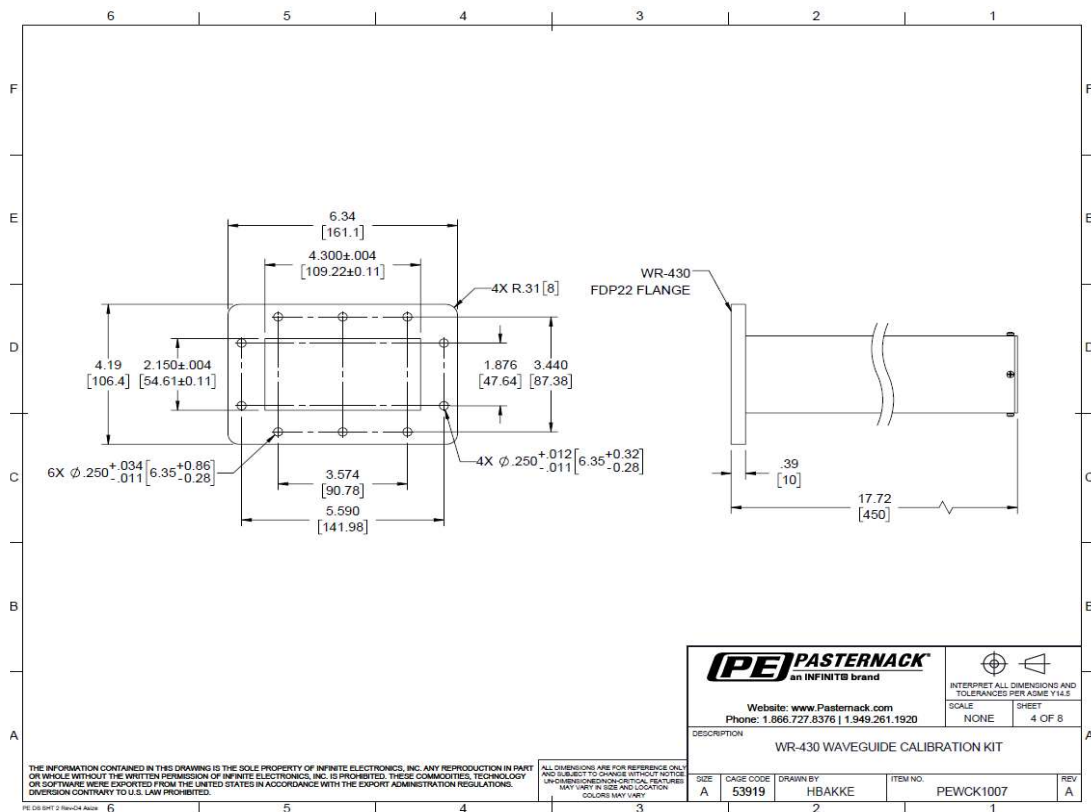
Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
RF Connector Type and Gender	N-Type Male	
Body	Right Angle	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions	3.94 [100 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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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

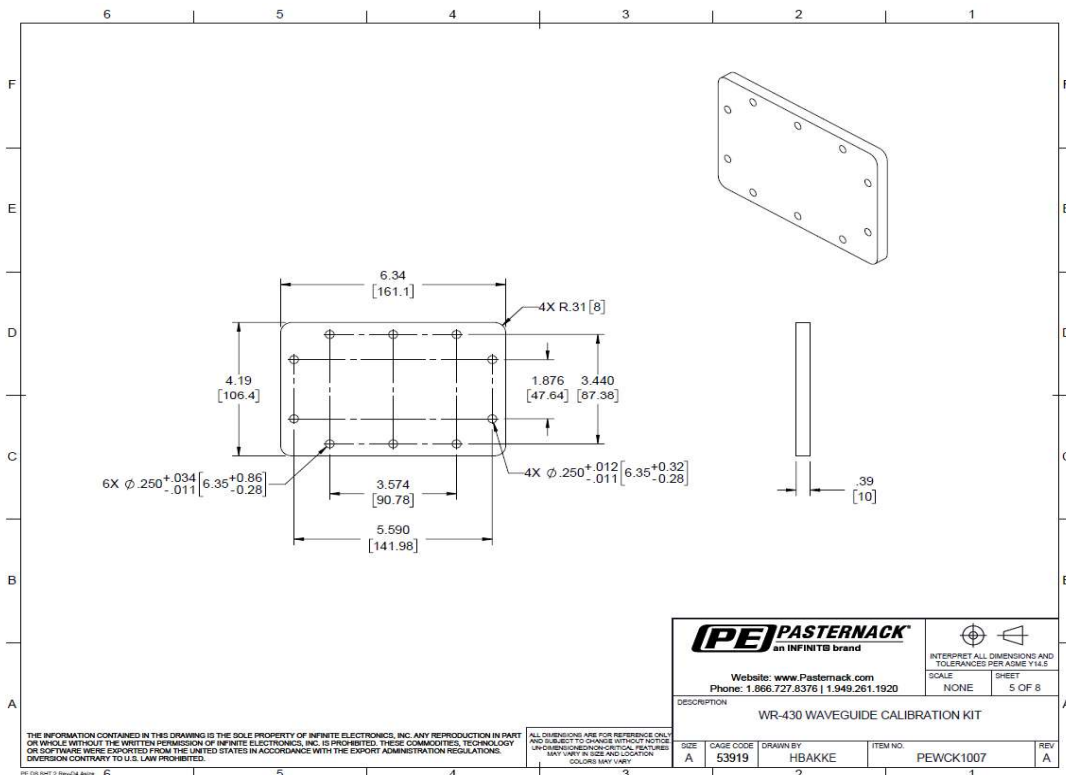
Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions	17.72 [450 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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WR-430 Waveguide Short



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.72		2.61	GHz
VSWR	60:1			

Mechanical Specifications

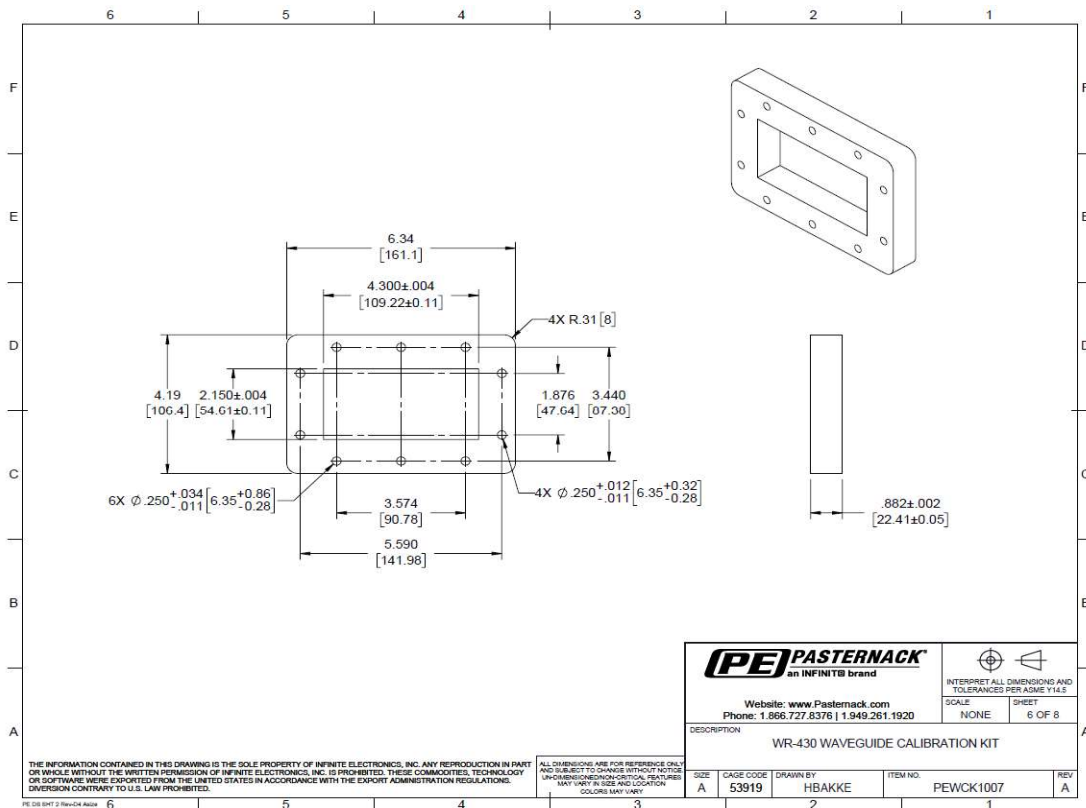
Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions	0.39 [10 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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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

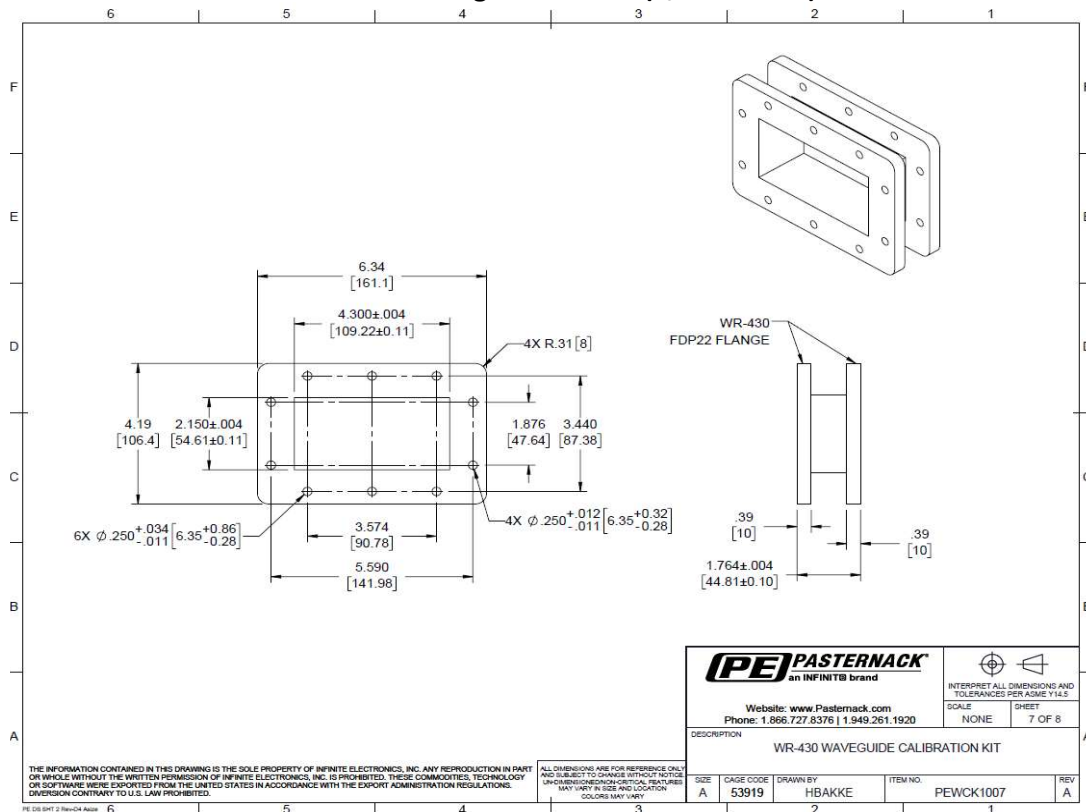
Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
Wavelength Offset	1/8λ Section	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions (L, H, W)	1.76 [44.81 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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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

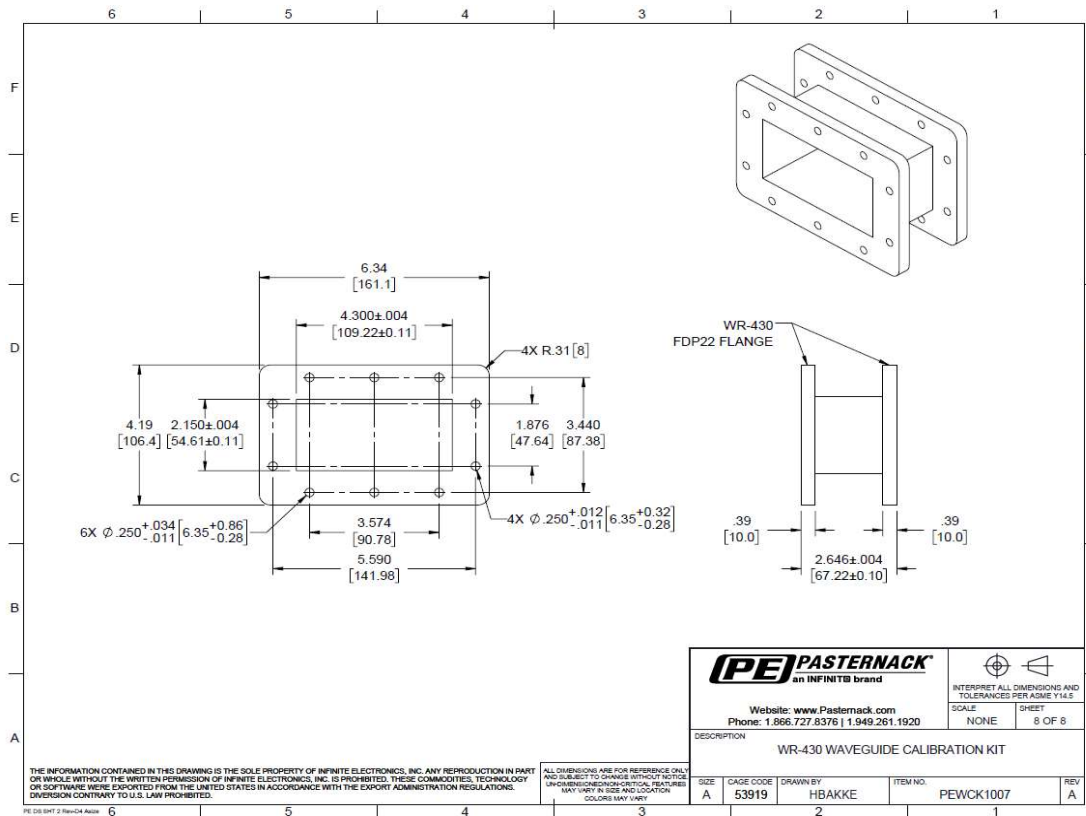
Item	Description	Units
Waveguide Size	WR-430	
Flange Type	CPR-430F	
Wavelength Offset	1/4λ Section	
Body Material and Plating	Aluminum Chromate	
Housing	Black Paint	
Dimensions (L, H, W)	1.76 [44.81 mm] L, 4.19 [106.4 mm] H, 6.34 [161.1 mm] W	inches

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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

WR-430 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 1.72 to 2.61 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-430 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 1.72 to 2.61 GHz PEWCK1007](#)

URL: <https://www.pasternack.com/wr-430-adapter-short-load-offset-2.61-ghz-pewck1007-p.aspx-p.aspx>

The information contained within 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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PEWCK1007 CAD Drawing

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