



WR-90 Commercial Grade Waveguide E-Bend with CPR-90G Flange Operating from 8.2 GHz to 12.4 GHz

TECHNICAL DATA SHEET

PE-W90B003A

Pasternack's instrumentation grade waveguide bends are constructed of a high quality oxygen free hard copper with high precision mechanical tolerances as tight as ± 0.001 " that ensures repeatable and consistent RF performance. Our commercial and instrumentation grade waveguide bends range in size from WR-12 to WR-137 and include grooved and non-grooved flange designs. Pasternack waveguide bends are offered in E-Bend and H-Bend configurations, and each waveguide bend is labeled for easy identification. Our commercial grade waveguide bends are painted blue and our instrumentation grade versions are hard gold plated over a copper flash.

- WR-12 to WR-137 Waveguide Bends
- Grooved and Non-Grooved Flange Designs
- Available for frequency ranges between 5.8 GHz to 90 GHz
- Comprehensive waveguide offering also includes Waveguide Sections, Waveguide to Coax Adapters, Filters, Terminations, and more
- High Precision Tolerance

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
VSWR			1.08:1	
Insertion Loss		0.15		dB

Mechanical Specifications

Waveguide Size: WR-90
Waveguide Design: Commercial Grade

Description	Flange 1	Waveguide	Flange 2
Flange Type	CPR-90G		CPR-90G
Flange Designation	None	WR-90	None
Material	Copper Alloy	Copper Alloy	Copper Alloy
Plating	Paint	Paint	Paint

Size: 0.534 lbs [242.22 g]
Weight:

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-90 Commercial Grade Waveguide E-Bend with CPR-90G Flange Operating from 8.2 GHz to 12.4 GHz PE-W90B003A



WR-90 Commercial Grade Waveguide E-Bend with CPR-90G Flange Operating from 8.2 GHz to 12.4 GHz

TECHNICAL DATA SHEET

PE-W90B003A

WR-90 Commercial Grade Waveguide E-Bend with CPR-90G Flange Operating from 8.2 GHz to 12.4 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-90 Commercial Grade Waveguide E-Bend with CPR-90G Flange Operating from 8.2 GHz to 12.4 GHz PE-W90B003A](https://www.pasternack.com/wr-90-waveguide-e-bend-none-flange-8.2-12.4-ghz-pe-w90b003a-p.aspx)

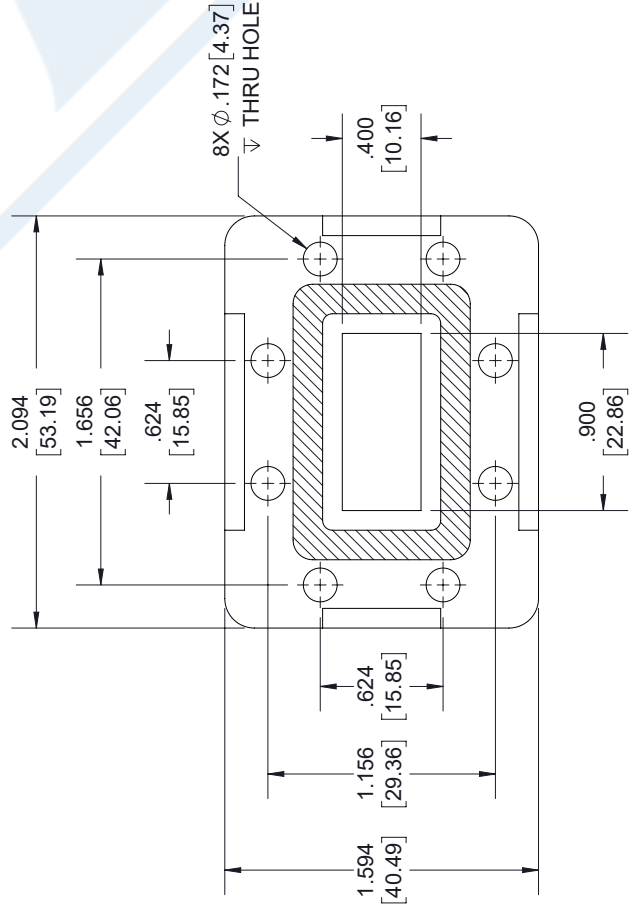
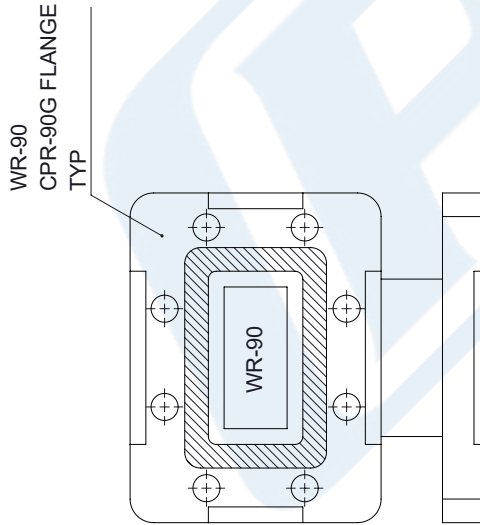
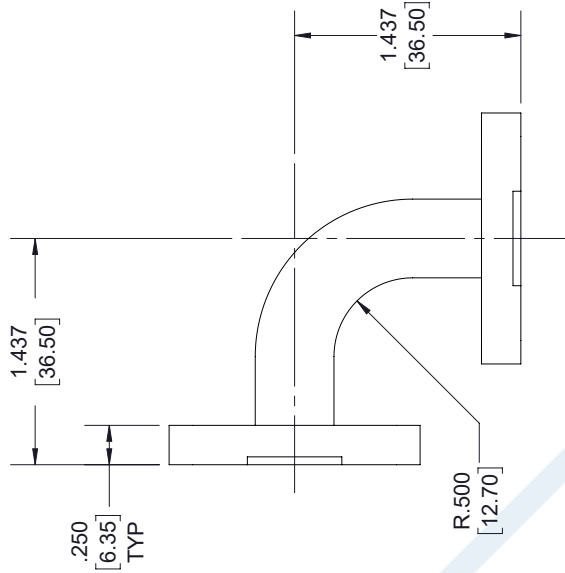
URL: <https://www.pasternack.com/wr-90-waveguide-e-bend-none-flange-8.2-12.4-ghz-pe-w90b003a-p.aspx>

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

PE-W90B003A CAD Drawing

WR-90 Commercial Grade Waveguide E-Bend with CPR-90G Flange Operating from 8.2 GHz to 12.4 GHz

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	07/16/19	S. PONG



FLANGE DETAIL

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE IN MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
XX±.01 [.25]	±.005
XXX±.005 [.13]	±.001
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

PE PASTERNAK an INFINITI brand	
Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com e-mail: sales@pasternack.com	
SIZE	SCALE
A	N/A
DRAWN BY	PART NUMBER
K.DANG	PE-W90B003A
REV	A

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.	
SHEET	OF
1	1

LABEL:

