



WR-90 UG-135/U Square Cover Flange to Type N Female Waveguide to Coax Adapter, 8.2 GHz to 12.4 GHz, X Band, Aluminum, Paint

Waveguide to Coax Adapters Technical Data Sheet

PEWCA1031

Features

- X Band
- 8.2 to 12.4 GHz Frequency Range
- WR-90 Waveguide Interface
- UG-135/U Square Cover Flange
- N Female RF Interface
- Right Angle

Applications

- Test Benches
- Radar
- Satellite
- Microwave Radio Systems
- Military and Space
- Communication Systems

Description

The PEWCA1031 is a waveguide to coaxial adapter operating in the X Band with a 8.2 to 12.4 GHz frequency range. This adapter offers a WR-90 waveguide interface size using a standard UG-135/U Square Cover Flange. The PEWCA1031 is constructed of Aluminum Alloy and painted to ensure durability. The coaxial connector offered by this adapter uses a N Female Connector.

Configuration

Waveguide Size	WR-90
Flange	UG-135/U Square Cover
RF Connector	N Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
VSWR		1.25:1		

Mechanical Specifications

RF Connector	
Connector Type	N Female
Waveguide Interface	
Waveguide Type	WR-90
Flange Type	Square Cover
Flange Designation	UG-135/U
Body Material and Plating	Aluminum, Paint

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-90 UG-135/U Square Cover Flange to Type N Female Waveguide to Coax Adapter, 8.2 GHz to 12.4 GHz, X Band, Aluminum, Paint PEWCA1031](#)



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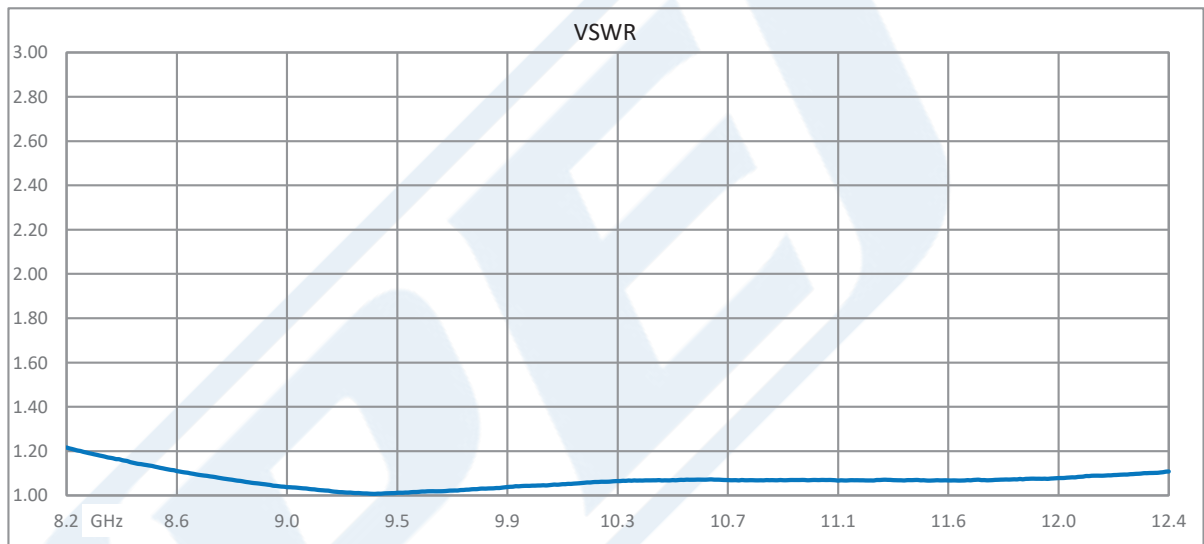
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at +25 °C, sea level unless stated otherwise

Typical Performance Data



WR-90 UG-135/U Square Cover Flange to Type N Female Waveguide to Coax Adapter, 8.2 GHz to 12.4 GHz, X Band, Aluminum, Paint 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.

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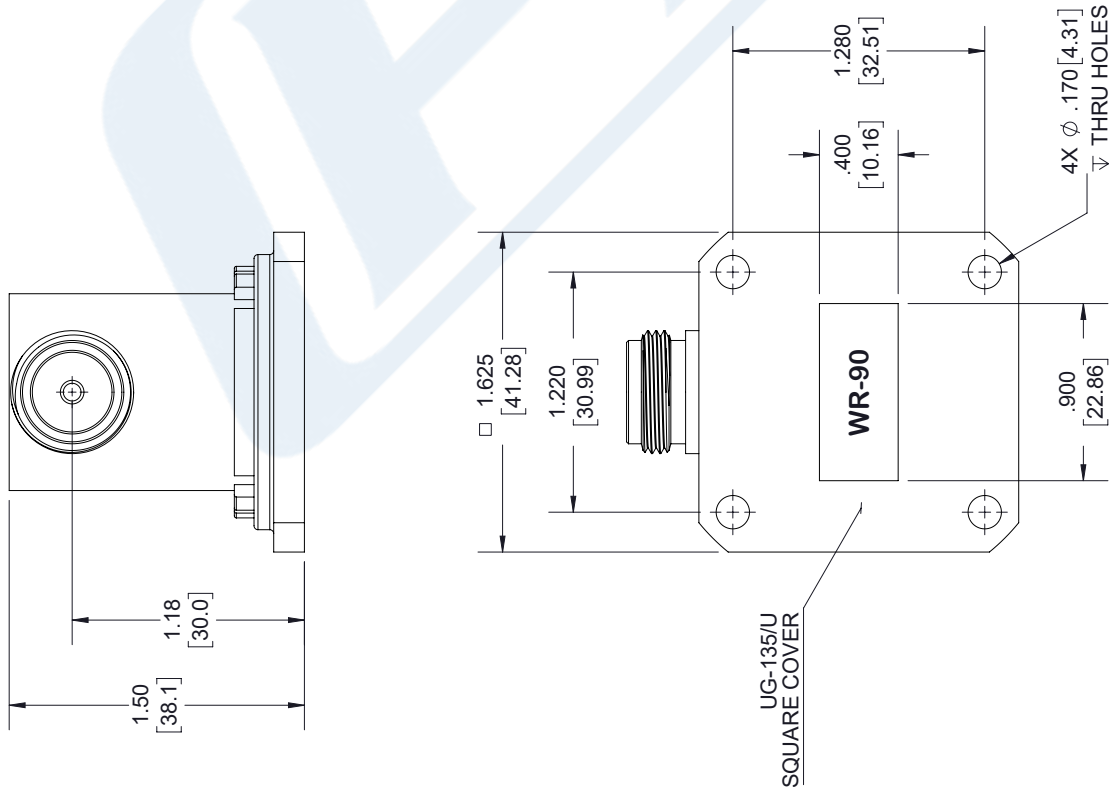
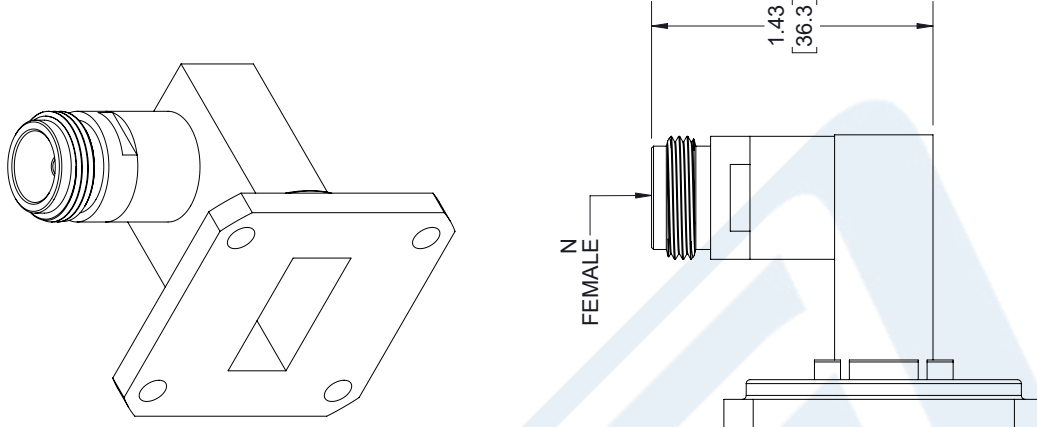
URL: <https://www.pasternack.com/wr90-ug135-square-flange-to-type-n-female-waveguide-coax-adapter-12.4ghz-pewca1031-p.aspx>

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.

PEWCA1031 CAD Drawing

WR-90 UG-135/U Square Cover Flange to Type N Female Waveguide to Coax Adapter, 8.2 GHz to 12.4 GHz, X Band, Aluminum, Paint

REVISIONS		
REV.	DESCRIPTION	DATE
A	PCR PEWCA1031	1/29/2020
		APPROVED
		S. PONG



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2</td> <td>[5.08]</td> <td>FRACTIONS</td> </tr> <tr> <td>.XX = ±.02</td> <td>[.51]</td> <td>± 1/32</td> </tr> <tr> <td>.XXX = ±.005</td> <td>[.13]</td> <td>ANGLES ± 1°</td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>L ≤ 12</td> <td>[305]</td> <td>= +1 [25] / -0</td> </tr> <tr> <td>12 [305] < L ≤ 60</td> <td>[1524]</td> <td>= +2 [51] / -0</td> </tr> <tr> <td>60 [1524] < L ≤ 120</td> <td>[3048]</td> <td>= +4 [102] / -0</td> </tr> <tr> <td>120 [3048] < L ≤ 300</td> <td>[7620]</td> <td>= +6 [152] / -0</td> </tr> <tr> <td>300 [7620] < L</td> <td></td> <td>= +5%L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	.X = ±.2	[5.08]	FRACTIONS	.XX = ±.02	[.51]	± 1/32	.XXX = ±.005	[.13]	ANGLES ± 1°	L ≤ 12	[305]	= +1 [25] / -0	12 [305] < L ≤ 60	[1524]	= +2 [51] / -0	60 [1524] < L ≤ 120	[3048]	= +4 [102] / -0	120 [3048] < L ≤ 300	[7620]	= +6 [152] / -0	300 [7620] < L		= +5%L / -0	<p>PE PASTERNAK an INFINIT® brand</p> <p>Pasternack Enterprises, Inc. P. O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
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<p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY K. DANG</p> <p>ITEM NO. PEWCA1031</p> <p>REV A</p>																										

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