

## WR-75 Waveguide 40 dB Crossguide Coupler, UG Cover Flange, N Female Coupled Port, 9.84 GHz to 15 GHz, Brass

### Waveguide Couplers Technical Data Sheet

### PEWCP1085N-40

The PEWCP1085N-40 is a 40 dB WR-75 three port crossguide coupler with integrated N Female connector for the coupled port. This coupler can be mounted directly into the waveguide signal path, connected via coax to allow signal sampling /monitoring. The coupler has a typical VSWR of 1.1:1 and are made of Brass with UG Cover flanges. The PEWCP1085N-40 is part of a family of cross guide couplers offered by Pasternack with coupling values ranging from 20 to 50 dB.

#### Features

- Three Port Crossguide Waveguide Coupler
- 40±1.5 dB Nominal Coupling Level
- Integrated N Female Connector for the coupled port
- 9.84 GHz to 15 GHz Frequency Range
- Low VSWR < 1.25:1

#### Applications

- Test Benches
- Radar
- Satellite
- Microwave Radio
- Attenuation Measurements
- Power Measurements
- Source Leveling

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	9.84		15	GHz
<b>Coupler</b>				
Nominal Coupling Level		40		dB
Coupling Accuracy			±1.5	dB
Directivity	18			dB
Insertion Loss		0.1		dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.25:1	
Input Power (CW)			500	Watts
Input Power, Peak			180	kWatts

#### Mechanical Specifications

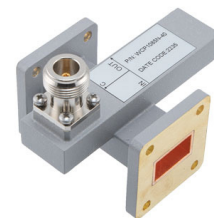
##### Size

Length	3.268 in [83.01 mm]
Width	2.362 in [59.99 mm]
Height	2.37 in [60.2 mm]
Weight	0.529 lbs [239.95 g]

##### Interface

Waveguide Size	WR-75
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-75 Waveguide 40 dB Crossguide Coupler, UG Cover Flange, N Female Coupled Port, 9.84 GHz to 15 GHz, Brass PEWCP1085N-40](#)



WR-75 Waveguide 40 dB Crossguide Coupler, UG Cover  
Flange, N Female Coupled Port, 9.84 GHz to 15 GHz, Brass

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**PEWCP1085N-40**

Flange Type  
RF Connector Type

UG Cover  
N Female

Coupler Body Material and Plating

Brass Copper, Passivated

### Environmental Specifications

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

### Plotted and Other Data

Notes:

WR-75 Waveguide 40 dB Crossguide Coupler, UG Cover Flange, N Female Coupled Port, 9.84 GHz to 15 GHz, Brass 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-75 Waveguide 40 dB Crossguide Coupler, UG Cover Flange, N Female Coupled Port, 9.84 GHz to 15 GHz, Brass PEWCP1085N-40](#)

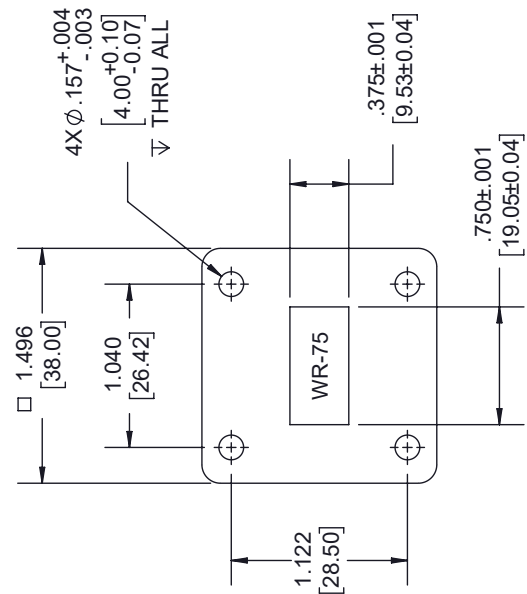
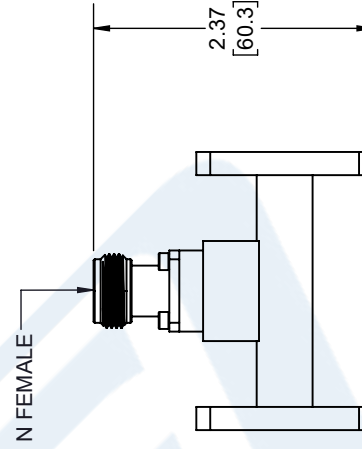
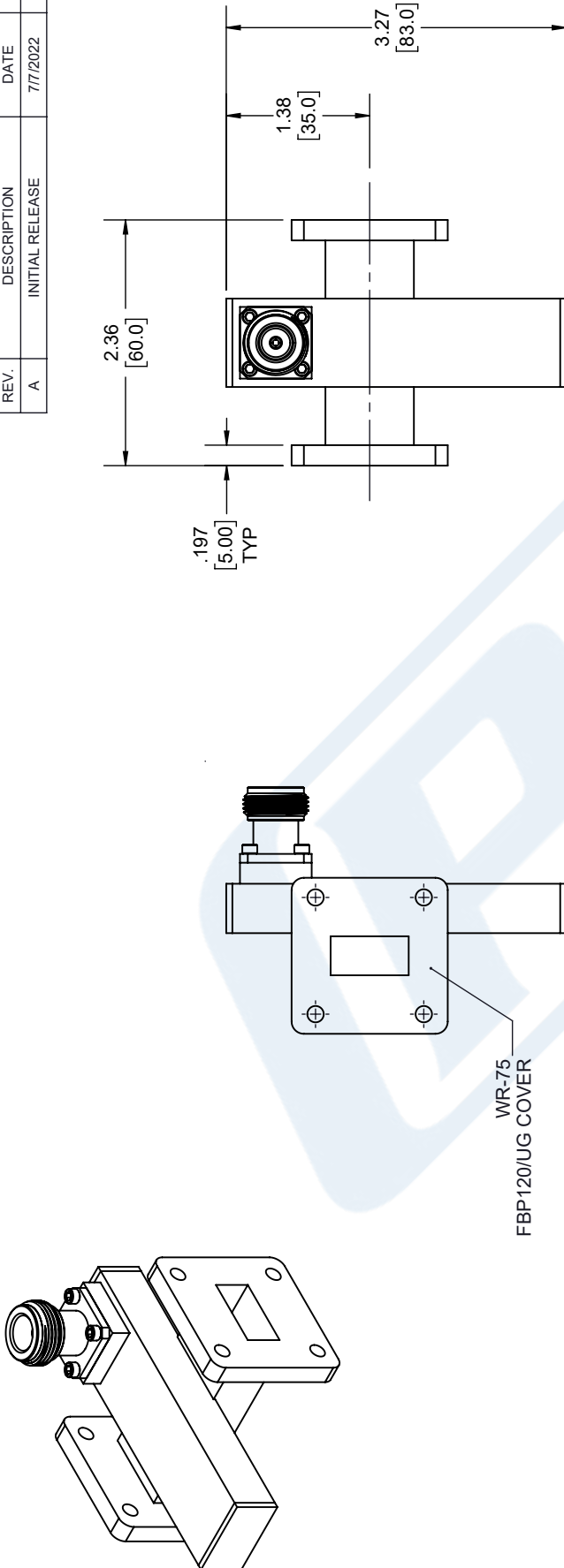
URL: <https://www.pasternack.com/20-db-wr-28-waveguide-crossguide-coupler-pewcp1089-20-p.aspx>

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.

# PEWCP1085N-40 CAD Drawing

WR-75 Waveguide 40 dB Crossguide Coupler, UG Cover Flange,  
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	7/7/2022	S. PONG



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

FRACTIONS	ANGLES
.X = ±.2 [5.08]	±.1/32
.XX = ±.02 [51]	ANGLES ± 1°
.XXX = ±.005 [13]	

CABLE LENGTH (L) TOLERANCES:

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% / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

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