

WR-62 Waveguide 40 dB Broadwall Coupler, UG Cover Flange, N-Type Female Coupled Port, 11.9 GHz to 18 GHz, Copper



Waveguide Couplers Technical Data Sheet

PEW62CP001-40

The PEW62CP001-40 is a WR-62 Directional Broadwall waveguide coupler with N female coupled port that operates in the frequency range of 11.9 to 18 GHz. This Waveguide component has a maximum VSWR of 1.25:1. These designs are made of painted copper alloy and incorporate a broad wall configuration that result in a mid-band nominal coupling value of 10, 20, 30, 40 or 50 dB. Common applications for this component would be where power measurements are required within a system for measuring/sampling power or frequency monitoring with minimal signal loss to the main transmission line. Pasternack offers a complete family of waveguide Crossguide and Broadwall couplers that are in-stock and ship same day.

Features

- · Three Port Broadwall Waveguide Coupler
- 40±0.7 dB Nominal Coupling Level
- Integrated N Female Connector coupled port
- 11.9 GHz to 18 GHz Frequency Range

Source Leveling

- Main Line VSWR < 1.1:1
- Max Power 200W (CW)

Applications

- Test Benches
- Radar
- Satellite

- Microwave Radio
- · Attenuation Measurements
- · Power Measurements

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	11.9		18	GHz
Coupler				
Nominal Coupling Level		40		dB
Directivity	25			dB
Insertion Loss			0.15	dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.25:1	
Coupling Flatness			±0.7	dB
Input Power (CW)			200	Watts
Input Power, Peak			120	kWatts

Mechanical Specifications

Size

 Length
 7.87 in [199.9 mm]

 Width
 1.31 in [33.27 mm]

 Height
 1.31 in [33.27 mm]

 Weight
 0.565 lbs [256.28 g]

 Flange Type
 UG Cover

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-62 Waveguide 40 dB Broadwall Coupler, UG Cover Flange, N-Type Female Coupled Port, 11.9 GHz to 18 GHz, Copper PEW62CP001-40

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Flange Material and Plating RF Connector Type

N Female

Coupler Body Material and Plating

Copper, Passivated

Copper, Passivated

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

WR-62 Waveguide 40 dB Broadwall Coupler, UG Cover Flange, N-Type Female Coupled Port, 11.9 GHz to 18 GHz, Copper 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/wr62-waveguide-40db-broadwall-coupler-ug-18mhz-pew62cp001-40-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.

PEW62CP001-40 CAD Drawing WR-62 Waveguide 40 dB Broadwall Coupler, UG Cover Flange, N-Type Female Coupled Port, 11.9 GHz to 18 GHz, Copper ш INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 **APPROVED** WR-62 Waveguide broadwall coupler, 40dB with N-type female SPONG 1 P SHEET PEW62CP001-40 4X Ø.16 [4.0] [33.3] 1.3 1.3 NONE CHANGED BY HBAKKE 24.3 .99 [25.3] PASTERNACK ITEM NO Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 05/31/2023 connector DATE an INFINIT® brand HBAKKE 33.3 REVISION 1.31 DRAWN BY INITIAL RELEASE [15.8] DESCRIPTION CAGE CODE 4X R.12 [3.0] [7.9] SIZE ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. <12 [305] = +1 [25] /-0 >12 [305] ≤ 60 [1524] = +2 [51] /-0 >60 [1524] ≤ 120 [3048] = +4 [102] /-0 >120 [3048] ≤ 300 [7620] = +6 [152] /-0 ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS FRACTIONS CABLE LENGTH TOLERANCES: >300 [7620] = +5% / -0 က TOLERANCES: ÆV ⋖ $X = \pm .2$ [5] $X = \pm .02$ [.5] $X = \pm .02$ [.5] $X = \pm .005$ [.13] ZONE CONNECTOR N FEMALE THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PRAT OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO US. LAW PROHIBITED. 0 FBP140/UG-COVER FLANGE [200.0]7.87 2X WR-62 WAVEGUIDE LC. .20 5.0 \approx

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