



WR-22 Waveguide 40 dB Broadwall Coupler, UG
Cover Flange, 33 GHz to 50 GHz, Copper

Waveguide Couplers Technical Data Sheet

PEW22CP010-40

The PEW22CP010-40 is a WR-22 Directional Broadwall waveguide coupler with WR-22 coupled port that operates in the frequency range of 33 to 50 GHz. This Waveguide component has a maximum VSWR of 1.25:1. These designs are made of 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±1 dB Nominal Coupling Level
- 33 GHz to 50 GHz Frequency Range
- Main Line VSWR < 1.1:1
- Max Power 70W (CW)

Applications

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	33		50	GHz
Coupler				
Nominal Coupling Level		40		dB
Directivity	25			dB
Insertion Loss			0.4	dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.25:1	
Coupling Flatness			±1	dB
Input Power (CW)			70	Watts
Input Power, Peak			10	kWatts

Mechanical Specifications

Size

Length	3.94 in [100.08 mm]
Width	1.13 in [28.7 mm]
Height	1.13 in [28.7 mm]
Weight	0.455 lbs [206.38 g]
Flange Type	UG Cover
Flange Material and Plating	Copper, Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-22 Waveguide 40 dB Broadwall Coupler, UG Cover Flange, 33 GHz to 50 GHz, Copper PEW22CP010-40](#)



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Coupler Body Material and Plating

Copper, Gold

Environmental Specifications

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

Plotted and Other Data

Notes:

WR-22 Waveguide 40 dB Broadwall Coupler, UG Cover Flange, 33 GHz to 50 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.

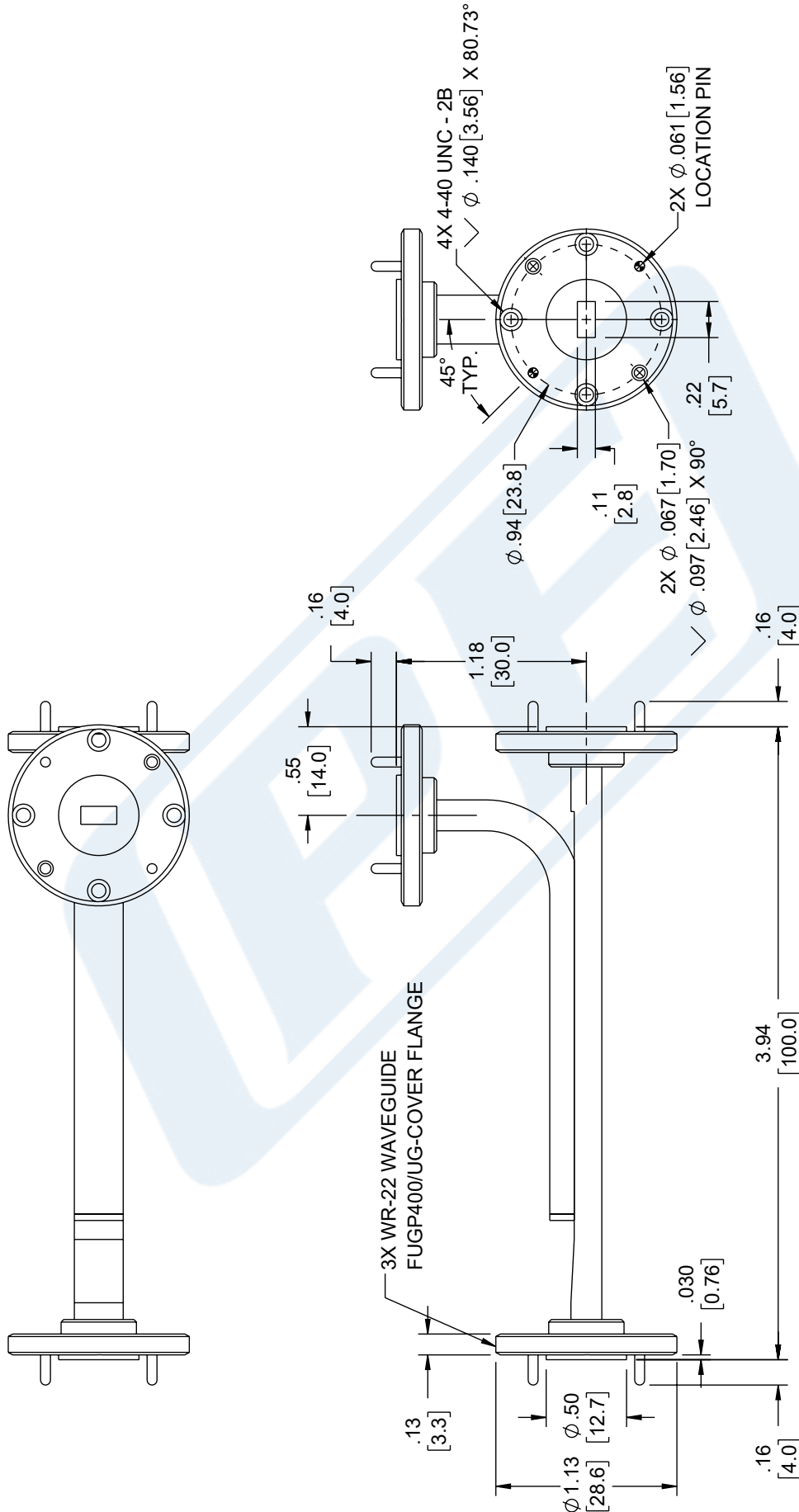
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URL: <https://www.pasternack.com/wr22-waveguide-40db-broadwall-coupler-ug-50mhz-pew22cp010-40-p.aspx>

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.

PEW22CP010-40 CAD Drawing

WR-22 Waveguide 40 dB Broadwall Coupler, UG Cover
Flange, 33 GHz to 50 GHz, Copper



PE PASTERNAK an INFINITO brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION: WR-22 Waveguide broadwall coupler, 40dB
SIZE: A	CAGE CODE: 53919	DRAWN BY: HBAKKE
ITEM NO.: PEW22CP010-40	REV: A	REV: A

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

TOLERANCES:

X = ±.2	[.5]	FRACTIONS
.XX = ±.02	[.5]	±.1/32
.XXX = ±.005	[.13]	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤12 [305]	±.1 [25]	/ -0
>12 [305]	±.60 [1524]	±.2 [51] / -0
>60 [1524]	±1.20 [3048]	±.4 [102] / -0
>120 [3048]	±3.00 [7620]	±.6 [152] / -0
>300 [7620]	±5.00 [127]	±.5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
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