



WR-28 Waveguide 30 dB Crossguide Coupler, UG Cover Flange, UG Cover Flange Coupled, 26.5 GHz to 40 GHz, Brass

Waveguide Couplers Technical Data Sheet

PEWCP1089-30

The PEWCP1089-30 is a 30 dB WR-28 three port crossguide coupler with integrated UG Cover Flange for the coupled port. This coupler can be mounted directly into the waveguide signal path, connected via waveguide 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 PEWCP1089-30 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
- 30±1.5 dB Nominal Coupling Level
- 26.5 GHz to 40 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	26.5		40	GHz
Coupler				
Nominal Coupling Level		30		dB
Coupling Accuracy			±1.5	dB
Directivity	15			dB
Insertion Loss		0.2		dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.5:1	
Input Power (CW)			200	Watts
Input Power, Peak			20	kWatts

Mechanical Specifications

Size

Length	1.969 in [50.01 mm]
Width	1.654 in [42.01 mm]
Height	0.95 in [24.13 mm]
Weight	0.11 lbs [49.9 g]

Interface

Waveguide Size	WR-28
Flange Type	UG Cover
Coupler Body Material and Plating	Brass 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-28 Waveguide 30 dB Crossguide Coupler, UG Cover Flange, UG Cover Flange Coupled, 26.5 GHz to 40 GHz, Brass PEWCP1089-30](#)



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PEWC1089-30

Environmental Specifications

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

Plotted and Other Data

Notes:

WR-28 Waveguide 30 dB Crossguide Coupler, UG Cover Flange, UG Cover Flange Coupled, 26.5 GHz to 40 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.

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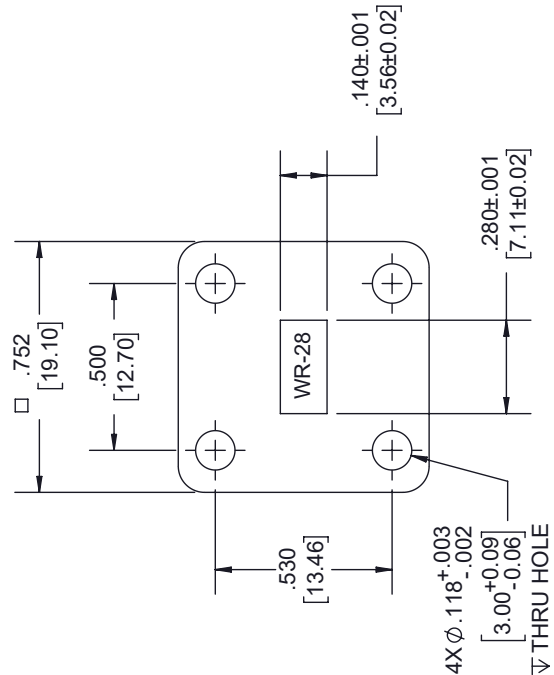
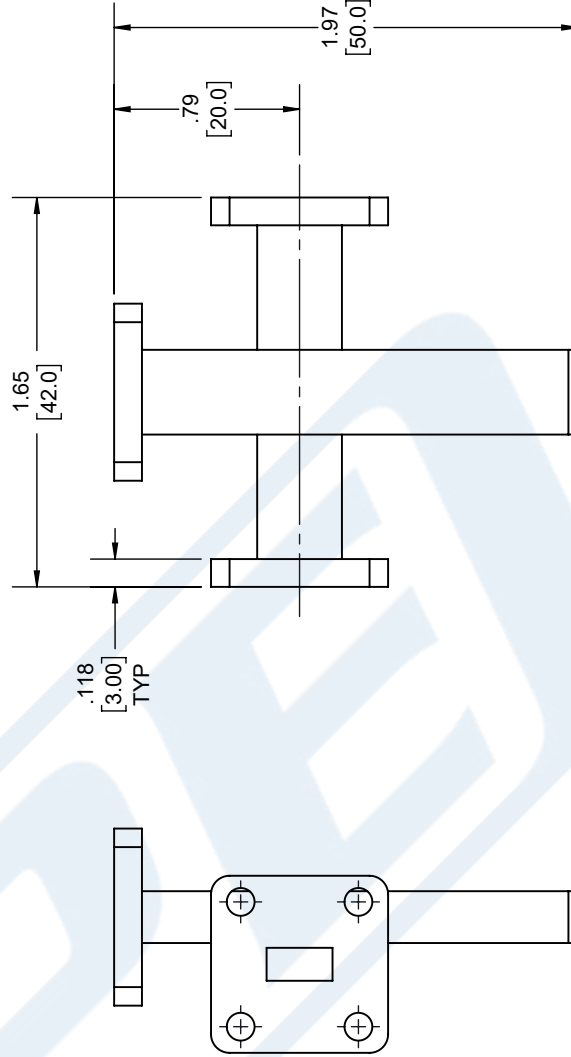
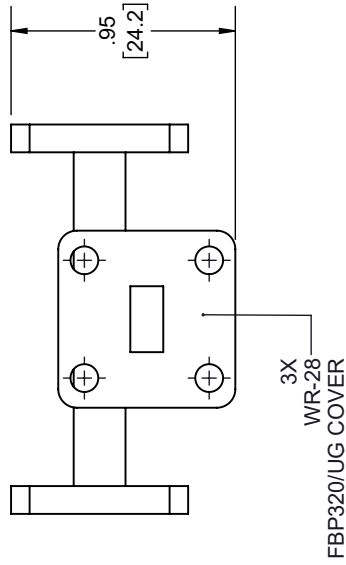
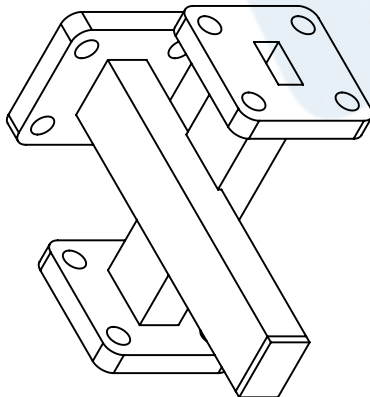
URL: <https://www.pasternack.com/30-db-wr-28-waveguide-crossguide-coupler-fmwcp1089-30-p.aspx>

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.

PEWCP1089-30 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	7/7/2022	S. PONG



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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: .X = ±.2 [5.08] FRACTIONS .XX = ±.02 [.51] ± 1/32 .XXX = ±.005 [.13] ANGLES ± 1° 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.	SIZE A CAGE CODE 53919 DRAWN BY K.DANG ITEM NO. PEWCP1089-30 REV A		