



WR-34 50 dB Waveguide Crossguide Coupler, UG-1530/U Square Cover Flange, 22 GHz to 33 GHz

TECHNICAL DATA SHEET

PEWCP1038

The PEWCP1038 is a WR-34 crossguide waveguide coupler that operates in the frequency range of 22 to 33 GHz. This Waveguide component has a typical VSWR of 1.05:1. These designs are made of painted copper alloy and incorporate a cross wall configuration that result in a mid-band nominal coupling value of 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. This WR-34 waveguide coupler uses standard UG-1530/U square cover flanges. Pasternack offers a complete family of waveguide Crossguide and Top wall couplers that are in-stock and ship same day.

Features

- Crossguide Waveguide Coupler
- 50 dB Nominal Coupling Level
- 22 GHz to 33 GHz Frequency Range
- Body and Flanges made of Copper Alloy
- Low VSWR

Applications

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

Electrical Specifications (Values at 25°C, sea level)

Description	Minimum	Typical	Maximum	Units
Frequency Range	22		33	GHz
Directivity		10		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		50		dB

Mechanical Specifications

Size	
Length	2.5 in [63.5 mm]
Width/Dia.	2.5 in [63.5 mm]
Weight	0.25 lbs [113.4 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-34 50 dB Waveguide Crossguide Coupler, UG-1530/U Square Cover Flange, 22 GHz to 33 GHz PEWCP1038](#)



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Configuration

Design
Size

Crossguide
WR-34

Description	Input Flange	Output Flange	Coupled Flange(s)
Flange Type	Square Cover	Square Cover	Square Cover
Flange Designation	UG-1530/U	UG-1530/U	UG-1530/U
Material	Copper Alloy	Copper Alloy	Copper Alloy

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

REACH Compliant

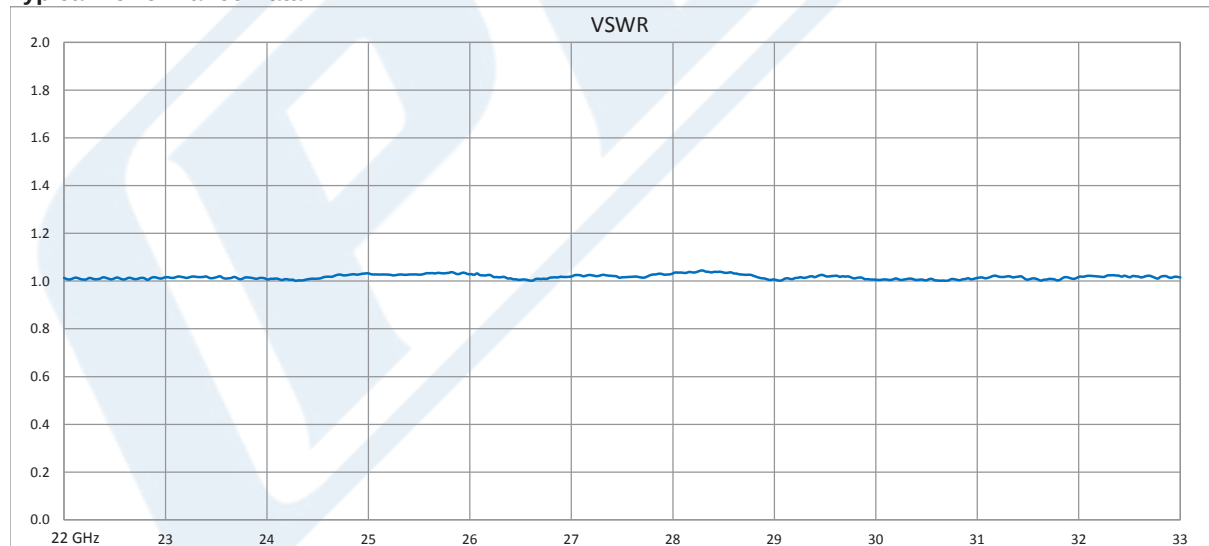
12/17/2015

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



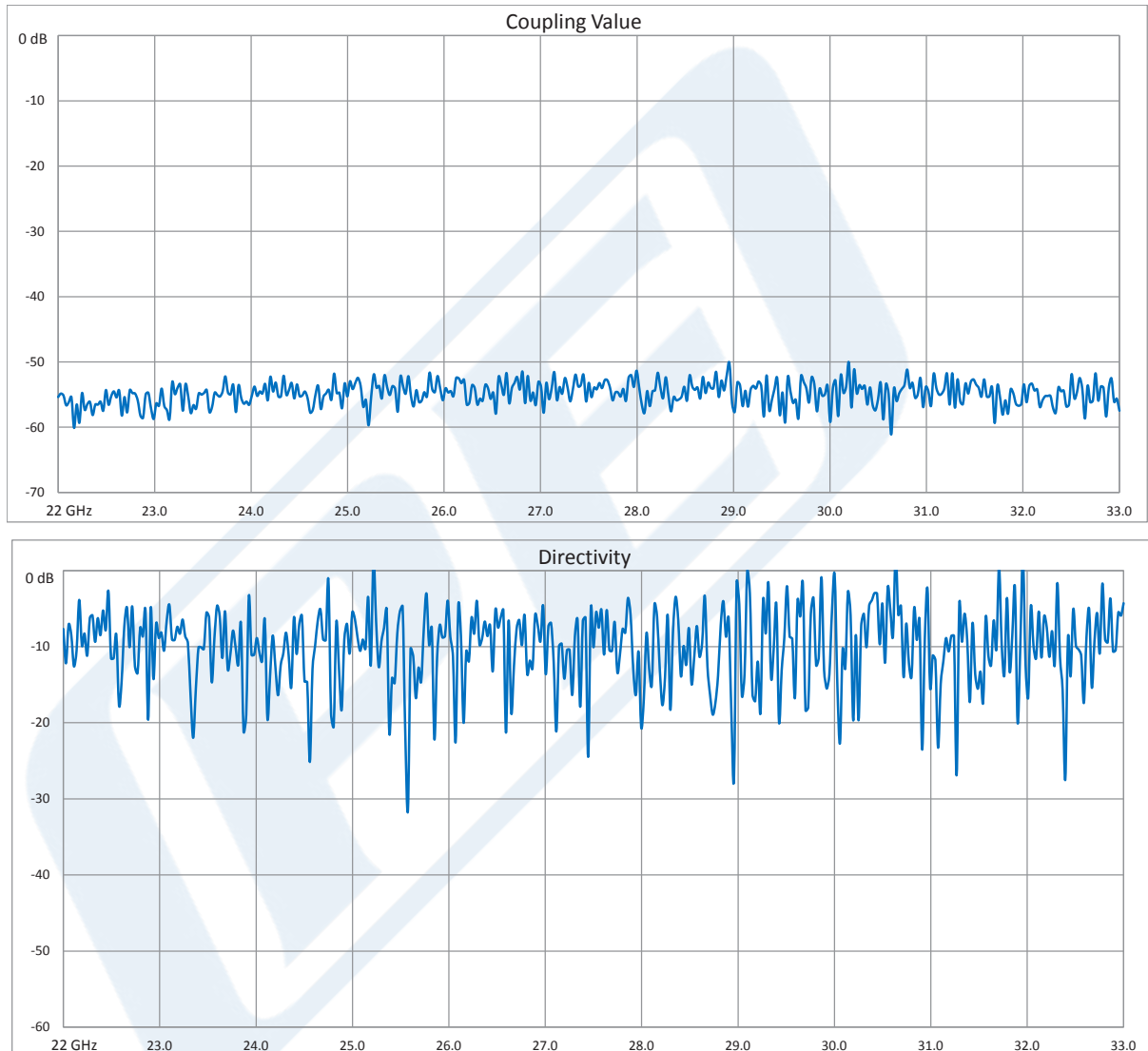
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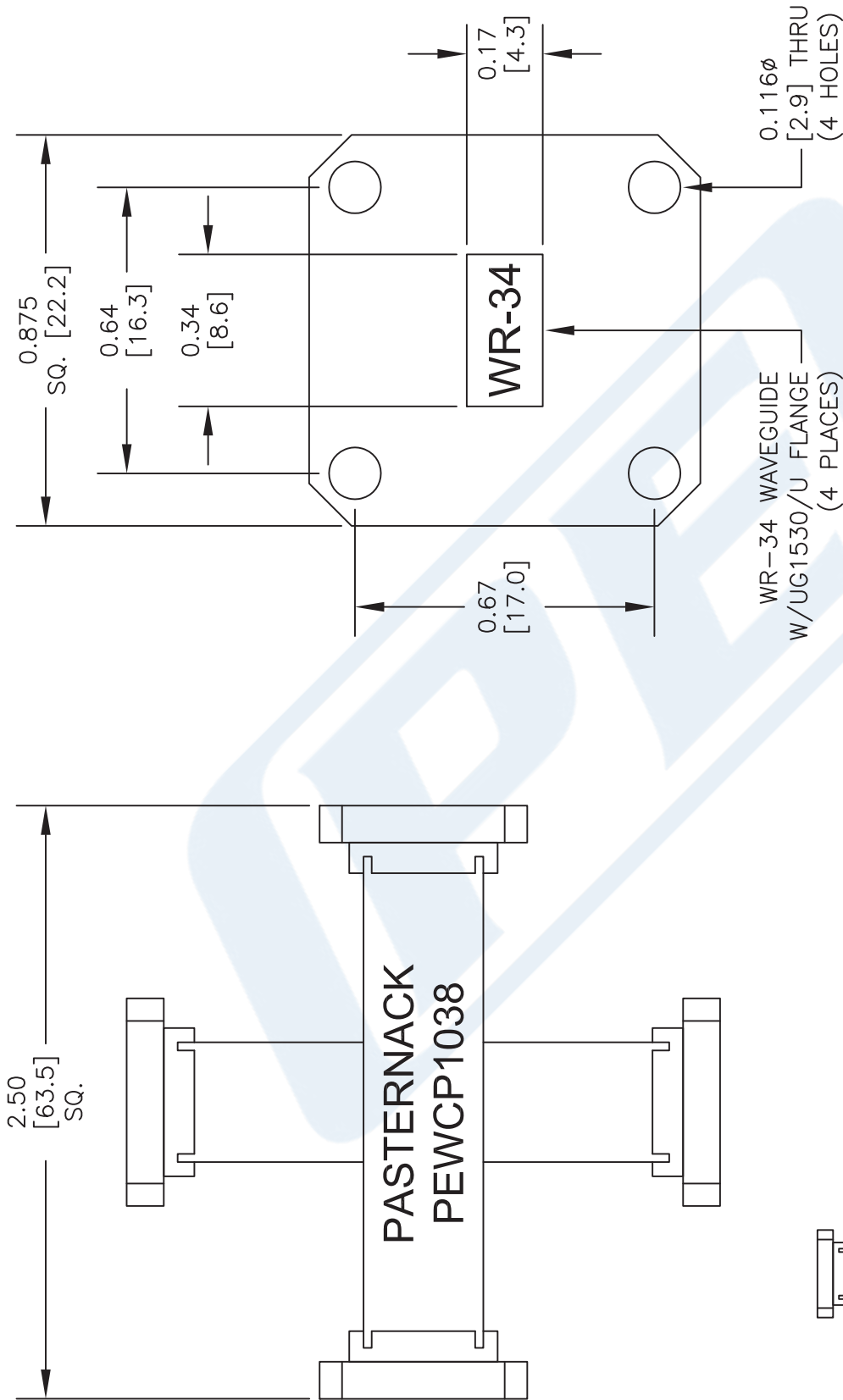


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PEWCP1038

PEWC1038 CAD Drawing

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Square Cover Flange, 22 GHz to 33 GHz



DWG TITLE

PEWC1038

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

FSCM NO. 53919

CAD FILE 042916

SCALE N/A

SIZE A

2233

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