



WR-42 20 dB Waveguide Crossguide Coupler, UG-595/U Square Cover Flange, 18 GHz to 26.5 GHz

TECHNICAL DATA SHEET

PEWCP1039

The PEWCP1039 is a WR-42 crossguide waveguide coupler that operates in the frequency range of 18 to 26.5 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-42 waveguide coupler uses standard UG-595/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
- 20 dB Nominal Coupling Level
- 18 GHz to 26.5 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	18		26.5	GHz
Directivity		30		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		20		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-42 20 dB Waveguide Crossguide Coupler, UG-595/U Square Cover Flange, 18 GHz to 26.5 GHz PEWCP1039](#)



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Configuration

Design
Size

Crossguide
WR-42

Description	Input Flange	Output Flange	Coupled Flange(s)
Flange Type	Square Cover	Square Cover	Square Cover
Flange Designation	UG-595/U	UG-595/U	UG-595/U
Material	Copper Alloy	Copper Alloy	Copper Alloy

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

RoHS Compliant

REACH Compliant

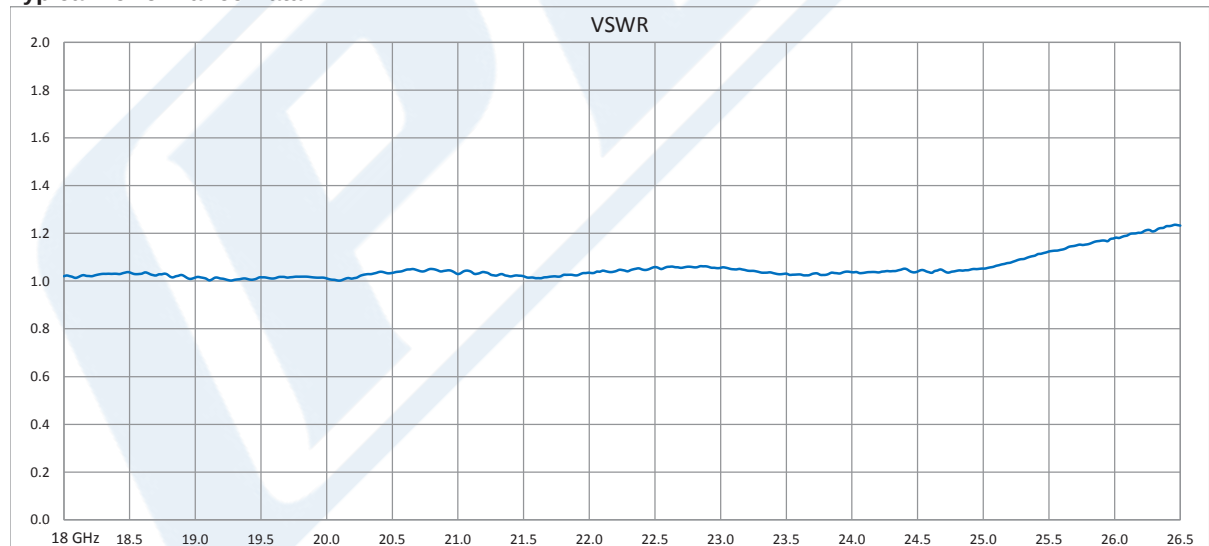
12/17/2015

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



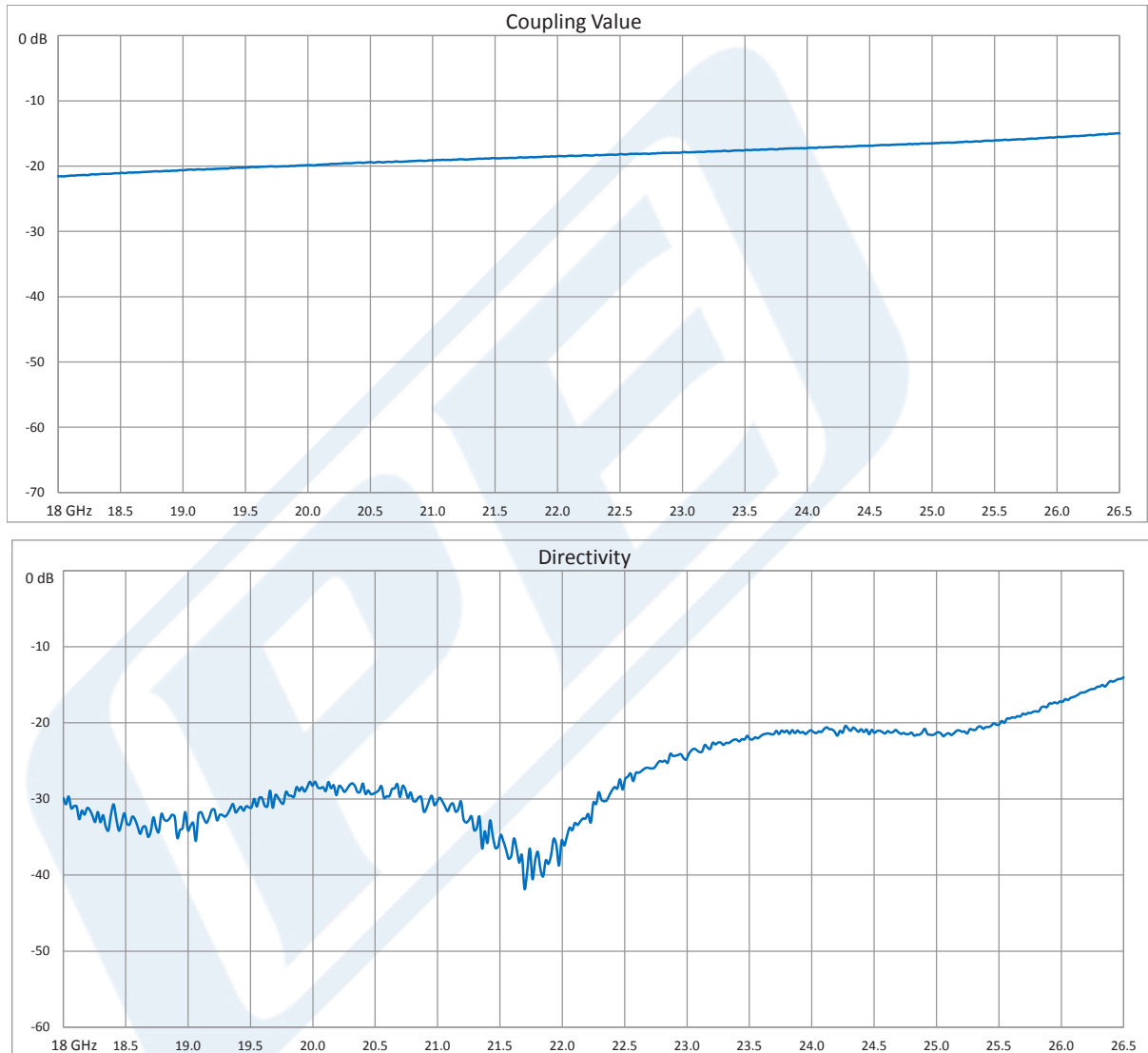
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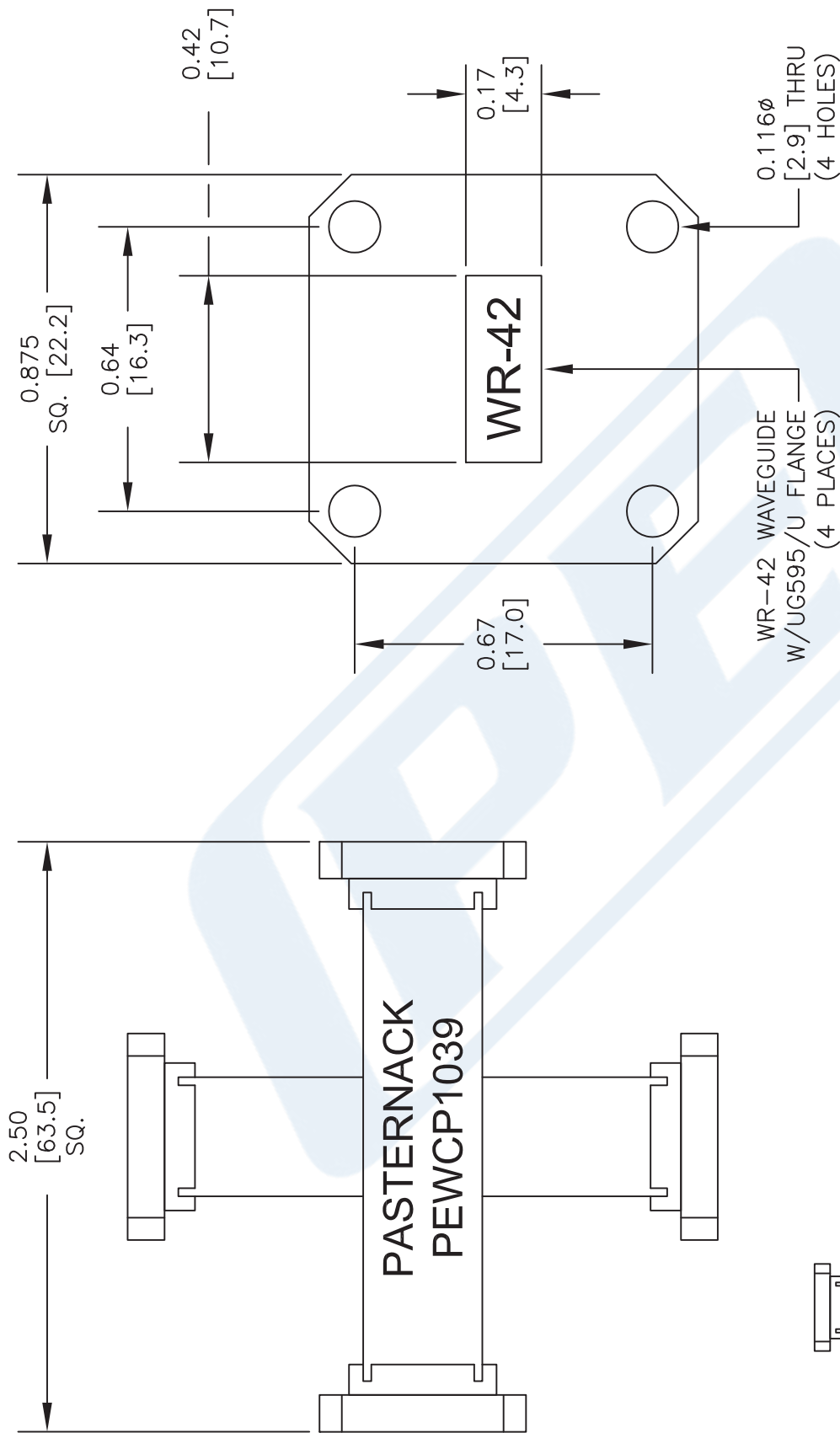


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PEWCP1039

PEWC1039 CAD Drawing

WR-42 20 dB Waveguide Crossguide Coupler, UG-595/U
Square Cover Flange, 18 GHz to 26.5 GHz



DWG TITLE

PEWC1039

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

SIZE A

2233

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