



WR-112 Waveguide 40 dB Crossguide Coupler, 3 Port, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz, Bronze

Waveguide Couplers Assemblies Technical Data

PEWCT1030

The PEWCT1030 is a 40 dB three port, terminated WR-112 crossguide waveguide coupler that operates in the frequency range of 7.05 to 10 GHz. The coupler has a typical VSWR of 1.05. These designs are made of Bronze with Brass UG-51/U Square Cover Flanges. Pasternack offers a complete family of crossguide couplers in both three port (terminated) and four port (unterminated) configurations that are in stock and ship on the same day. Top wall couplers are also available.

Features

- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 40 dB Nominal Coupling Level
- 7.05 GHz to 10 GHz Frequency Range
- Waveguide Body made of Bronze with Brass Flanges
- Low VSWR

Applications

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.05		10	GHz
Coupler				
Nominal Coupling Level		40		dB
Directivity		20		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				
VSWR		1.02		
Input Power (CW)			5	Watts

Mechanical Specifications

Size

Length 8.75 in [222.25 mm]
 Width 4 in [101.6 mm]

Interface

Waveguide Size WR-112
 Flange Type Square Cover
 Flange Designation UG-51/U

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-112 Waveguide 40 dB Crossguide Coupler, 3 Port, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz, Bronze PEWCT1030](#)



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Flange Material and Plating	Brass
Coupler Body Material and Plating	Bronze
Termination Body Material and Plating	Bronze

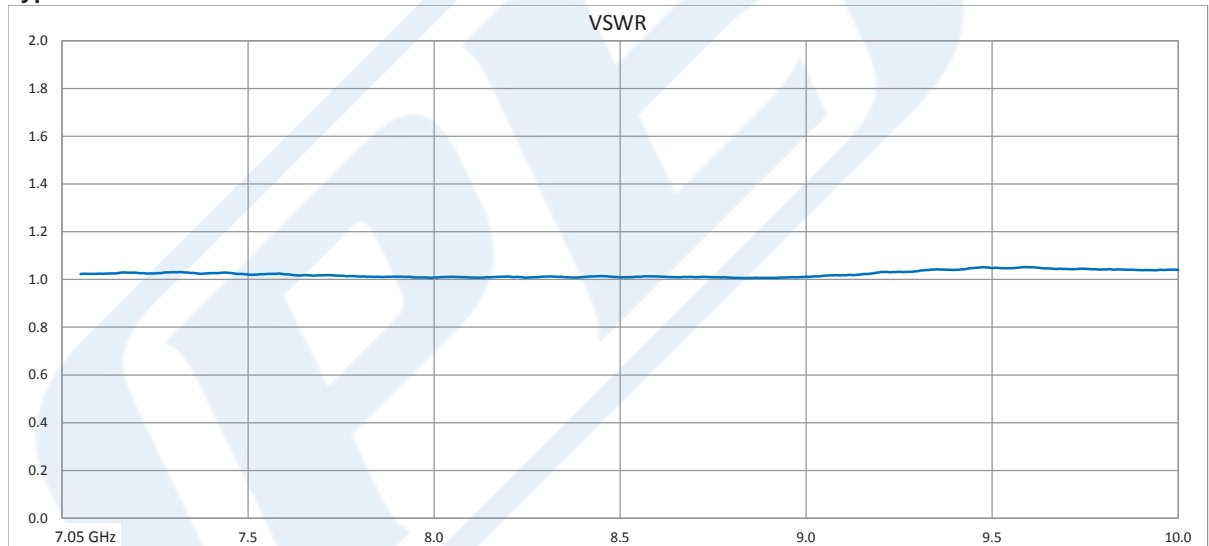
Environmental Specifications

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

Plotted and Other Data

Notes:

Typical Performance Data



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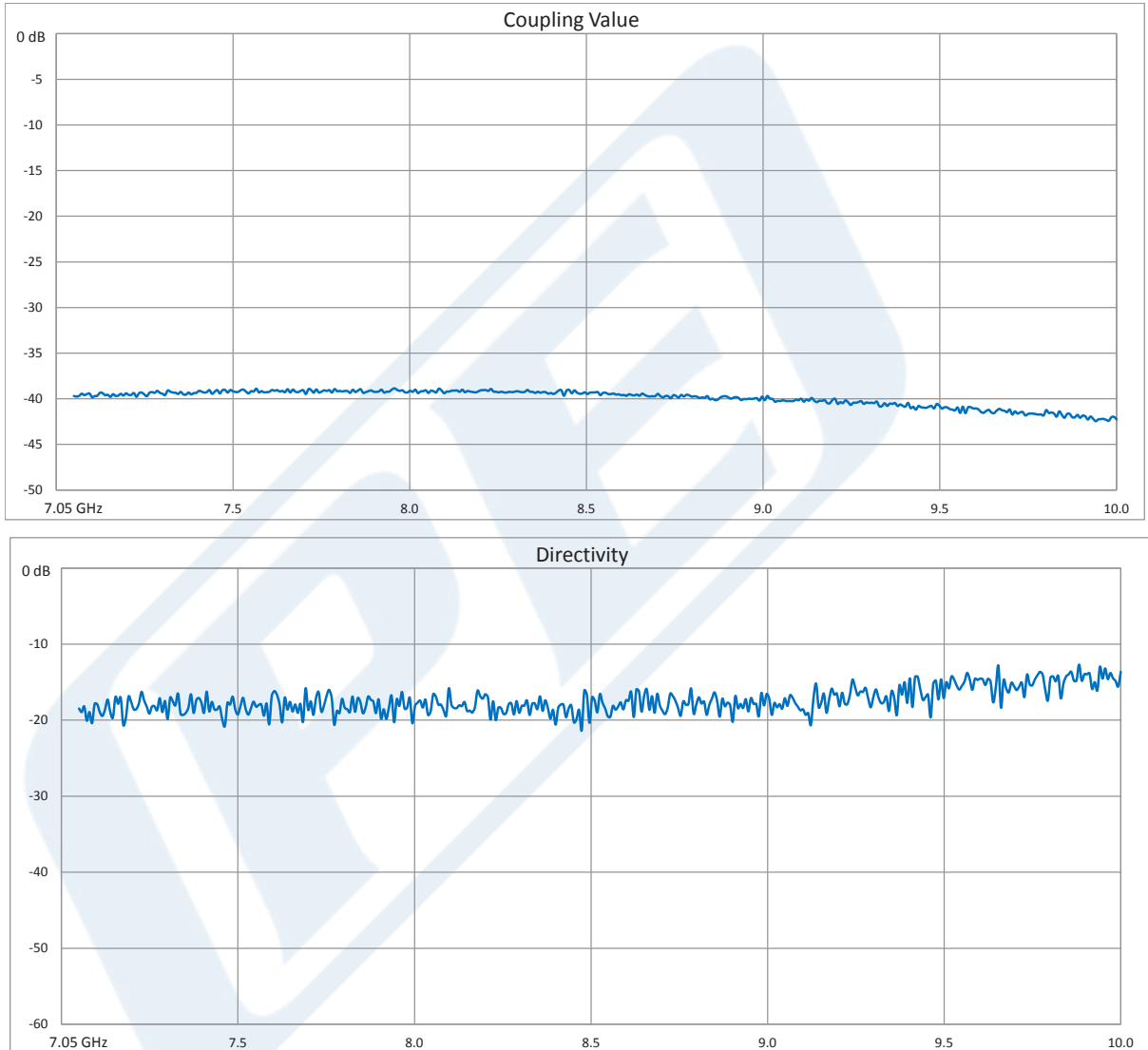




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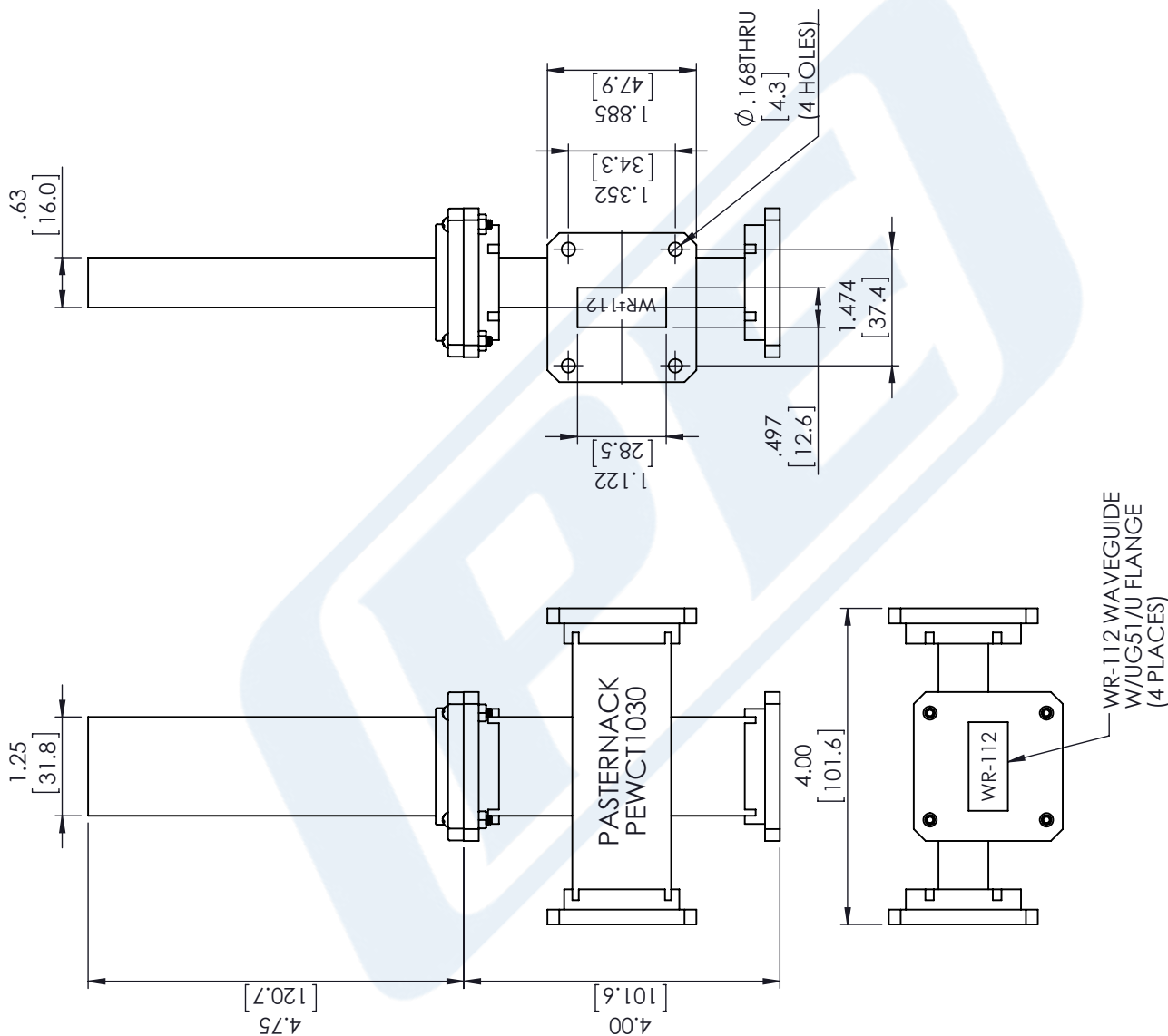


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PEWCT1030 CAD Drawing

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STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE
PEWCT1030

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].

CAGE CODE **53919**

CAD FILE 042617
SCALE N/A
SIZE A 0157