



WR-112 Waveguide 40 dB Crossguide Coupler, 3 Port, CPR-112G Flange, 7.05 GHz to 10 GHz, Bronze

Waveguide Couplers Assemblies Technical Data

PEWCT1034

The PEWCT1034 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 CPR-112G 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
- Grooved CPR

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	CPR-112G

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, CPR-112G Flange, 7.05 GHz to 10 GHz, Bronze PEWCT1034](#)



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

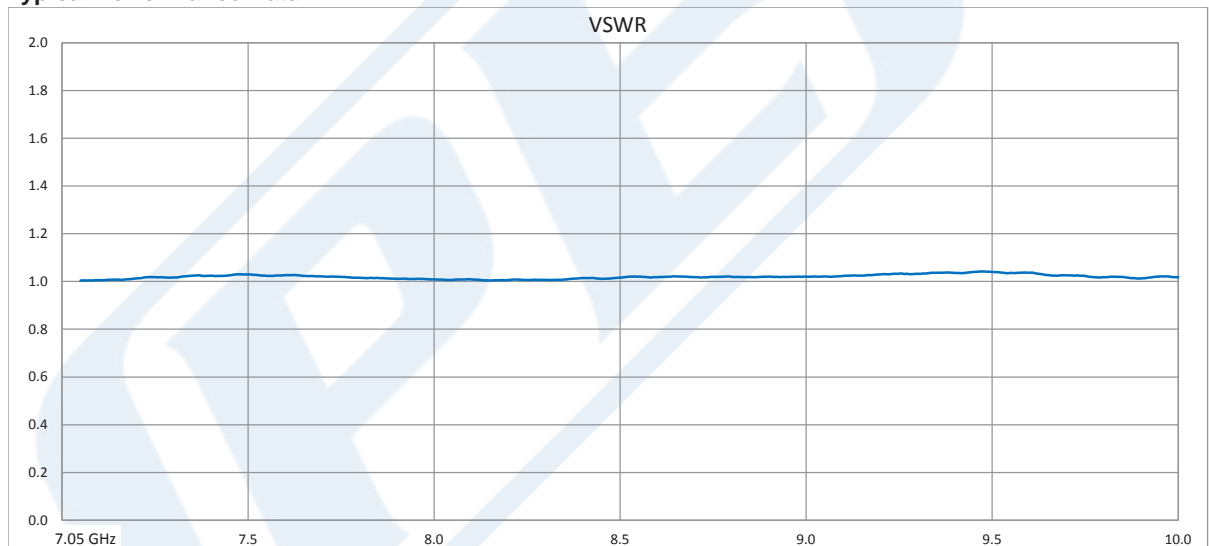
Environmental Specifications

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

Plotted and Other Data

Notes:

Typical Performance Data



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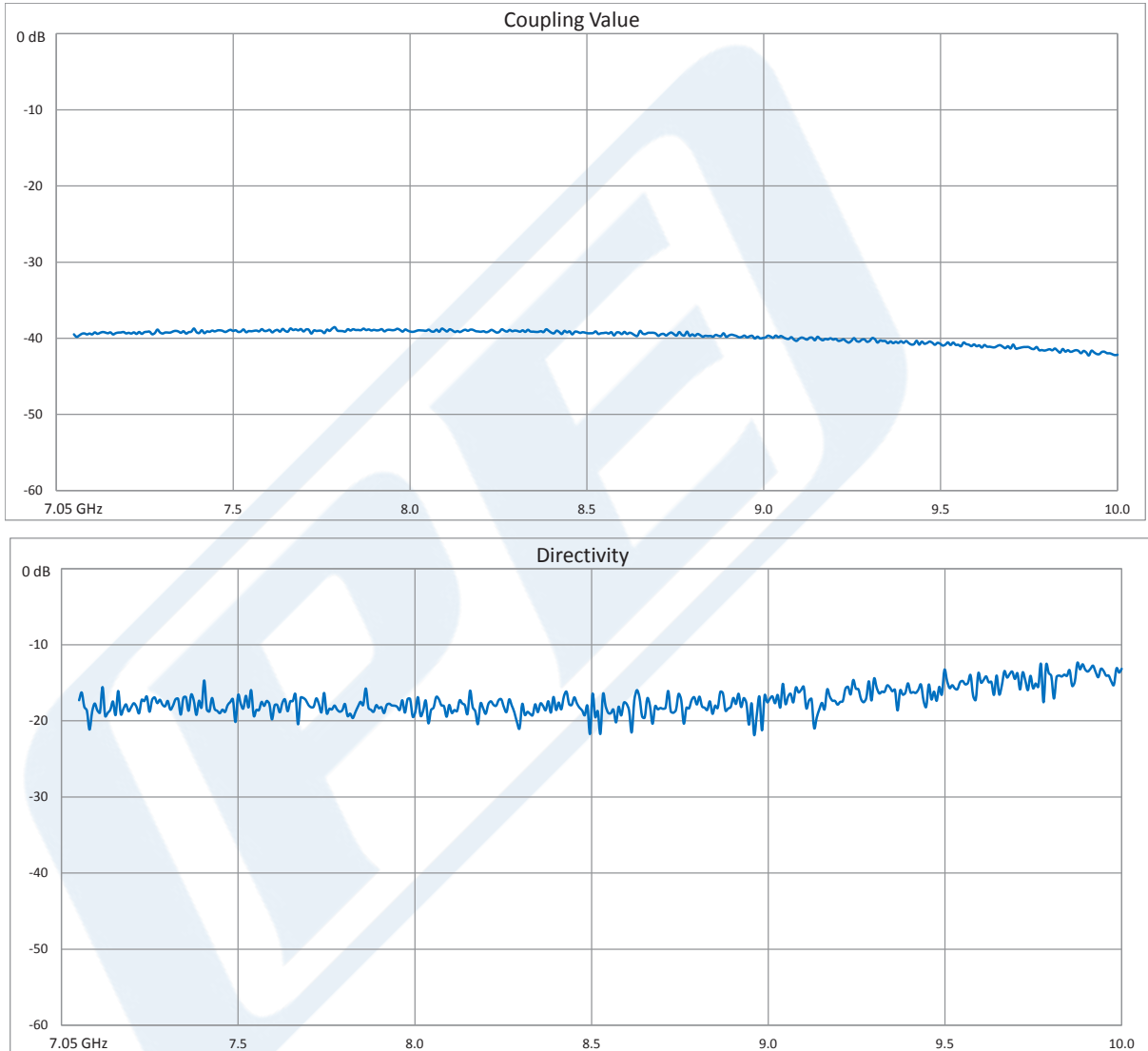




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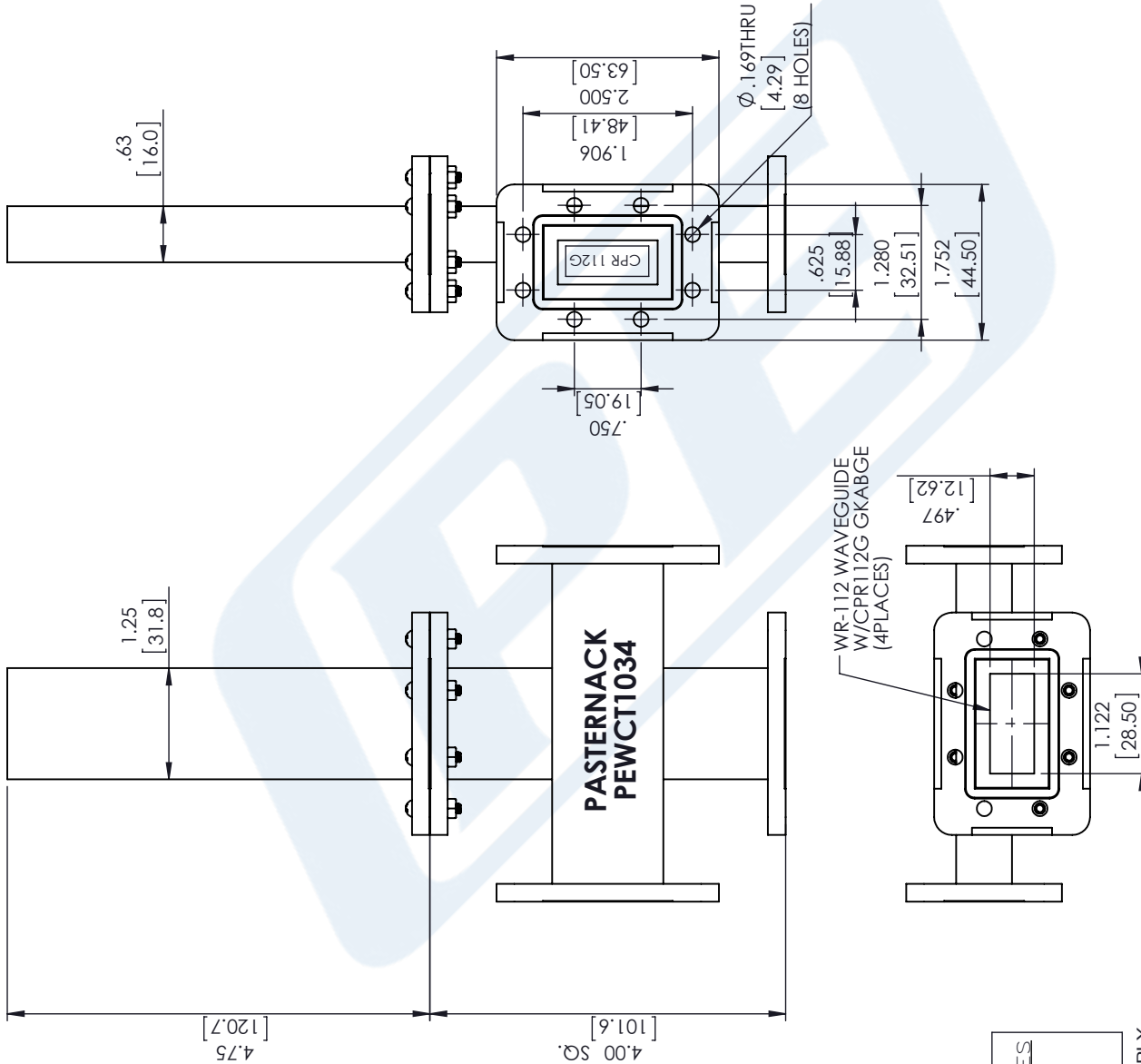


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PEWCT1034 CAD Drawing

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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



THE ENGINEER'S RF SOURCE

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DWG TITLE

PEWCT1034

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 050417

SCALE N/A

SIZE A

0157