



WR-51 Waveguide 20 dB Crossguide Coupler, 3 Port, Square Cover Flange, 15 GHz to 22 GHz, Bronze

Waveguide Couplers Assemblies Technical Data

PEWCT1008

The PEWCT1008 is a 20 dB three port, terminated WR-51 crossguide waveguide coupler that operates in the frequency range of 15 to 22 GHz. The coupler has a typical VSWR of 1.05. These designs are made of Bronze with Brass 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
- 20 dB Nominal Coupling Level
- 15 GHz to 22 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	15		22	GHz
Coupler				
Nominal Coupling Level		20		dB
Directivity		20		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				
VSWR		1.02		
Input Power (CW)			1	Watts

Mechanical Specifications

Size		
Length		5.62 in [142.75 mm]
Width		2.5 in [63.5 mm]
Interface		
Waveguide Size		WR-51
Flange Type		Square Cover

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-51 Waveguide 20 dB Crossguide Coupler, 3 Port, Square Cover Flange, 15 GHz to 22 GHz, Bronze PEWCT1008](#)



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Flange Material and Plating

Brass

Coupler Body Material and Plating

Bronze

Termination Body Material and Plating

Bronze

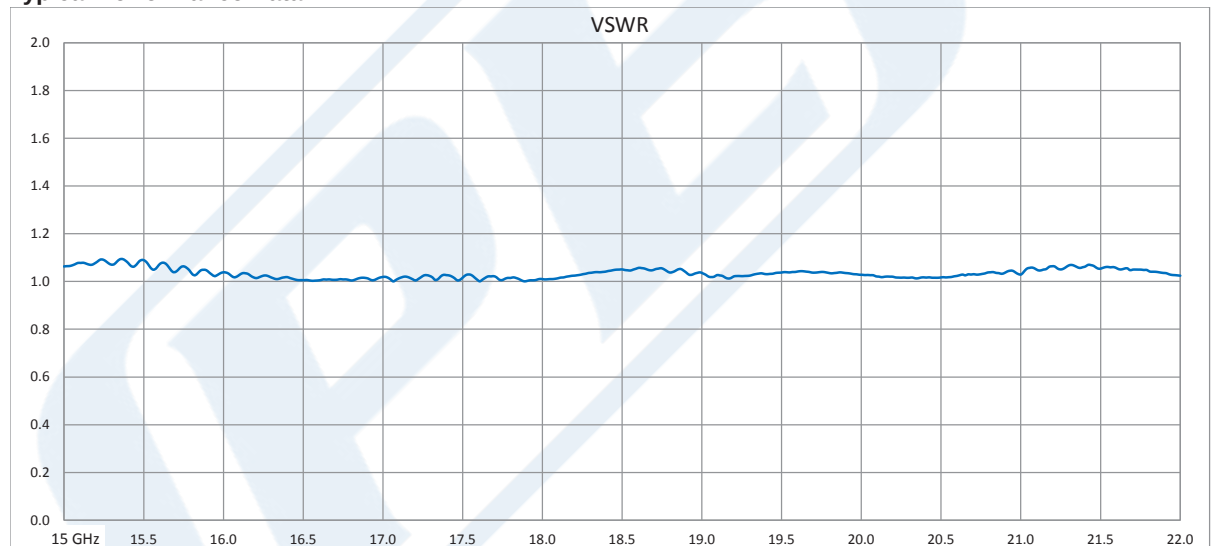
Environmental Specifications

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

Plotted and Other Data

Notes:

Typical Performance Data



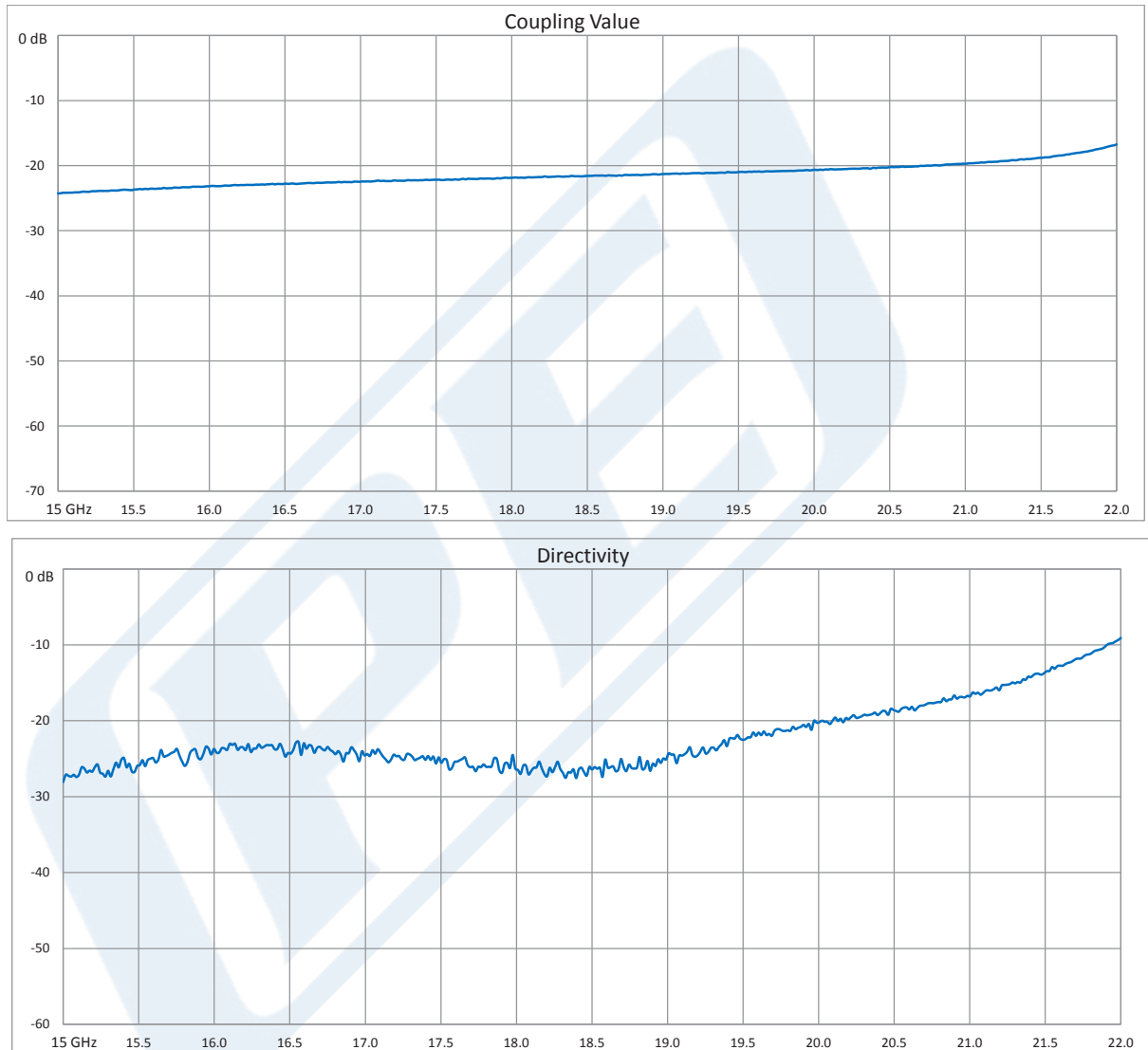
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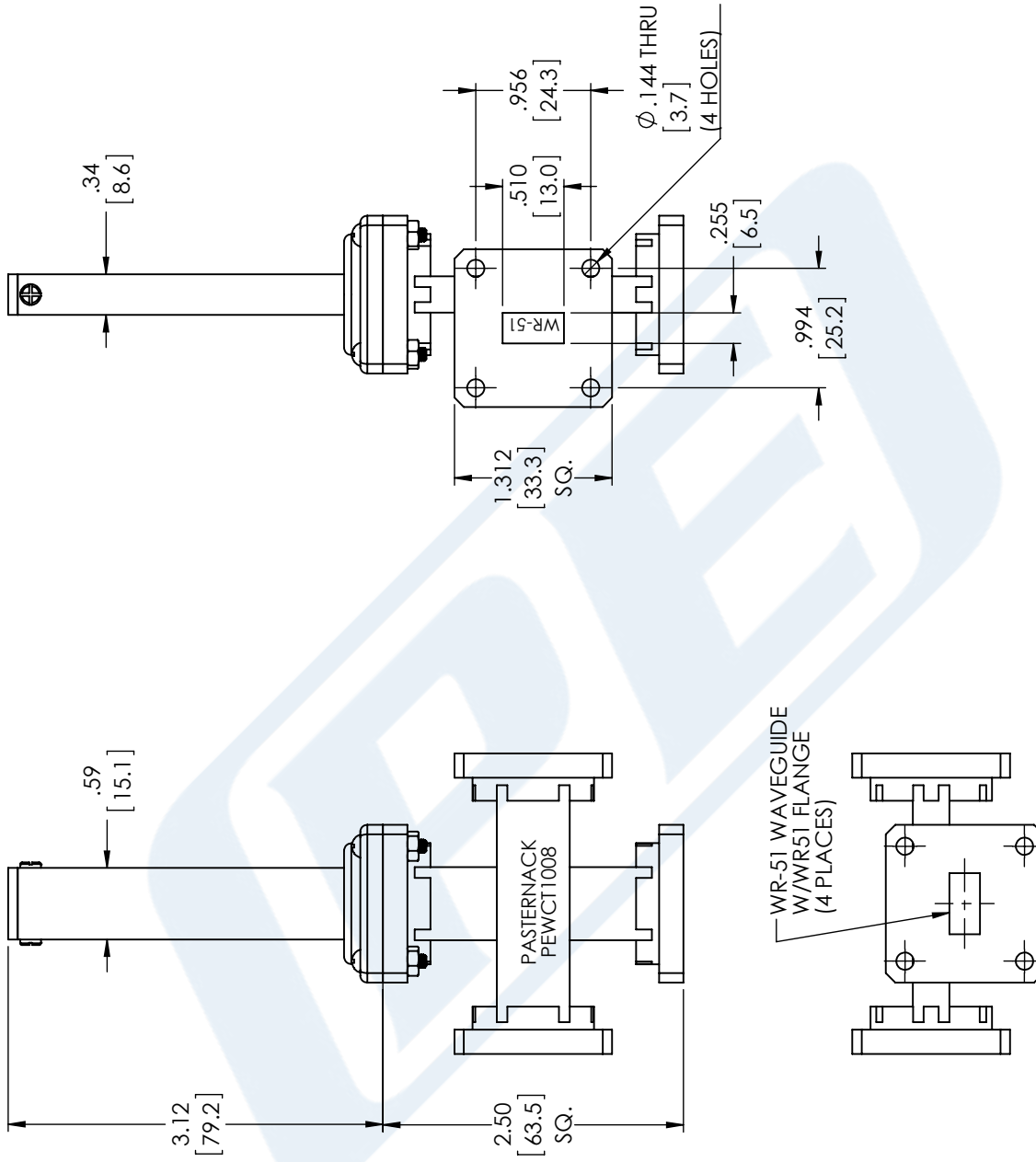
PEWCT1008



UL
REGISTERED FIRM
PASTERNAK ENTERPRISES, INC.
CERTIFICATE NO. 1028827-0001

PEWCT1008 CAD Drawing

WR-51 Waveguide 20 dB Crossguide Coupler, 3 Port, Square
Cover Flange, 15 GHz to 22 GHz, Bronze



STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PEWCT1008

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 050317

SCALE N/A

SIZE A

CN_0992