



WR-90 Waveguide 20 dB Crossguide Coupler, UG-39/U Square Cover Flange, N Female Coupled Port, 8.2 GHz to 12.4 GHz, Bronze

Waveguide Couplers Assemblies Technical Data

PEWCT1076

The PEWCT1076 is a 20 dB WR-90 four port crossguide coupler with one coupled port terminated (making it a three port coupler) and a coax adapter on the opposite coupled port. This coupler can be mounted directly into the waveguide signal path, connected via coax to allow signal sampling /monitoring. The coupler has a typical VSWR of 1.05:1 and are made of bronze with brass UG-39/U Square Cover flanges. The PEWCT1076 is part of a family of cross guide couplers offered by Pasternack with coupling values ranging from 20 to 50 dB. There is also a full family of top wall (broad wall) couplers. For the three port version of this coupler (terminated but no coax adapter) please see the PEWCT1020. For the four port version of this coupler (no termination, no coax adapter) please see the PEWCP1055.

Features

- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 20 dB Nominal Coupling Level
- N Female Coax Adapter
- 8.2 GHz to 12.4 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	8.2		12.4	GHz
Impedance		50		Ohms
Coupler				
Nominal Coupling Level		20		dB
Directivity		20		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				
Input Power (CW)			4	Watts
Waveguide to Coax Adapters				
VSWR		1.25:1		

Mechanical Specifications

Interface

Waveguide Size WR-90

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-90 Waveguide 20 dB Crossguide Coupler, UG-39/U Square Cover Flange, N Female Coupled Port, 8.2 GHz to 12.4 GHz, Bronze PEWCT1076](#)



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Flange Type	Square Cover
Flange Designation	UG-39/U
Flange Material and Plating	Brass
RF Connector Type	N Female
Coupler Body Material and Plating	Bronze
Termination Body Material and Plating	Bronze

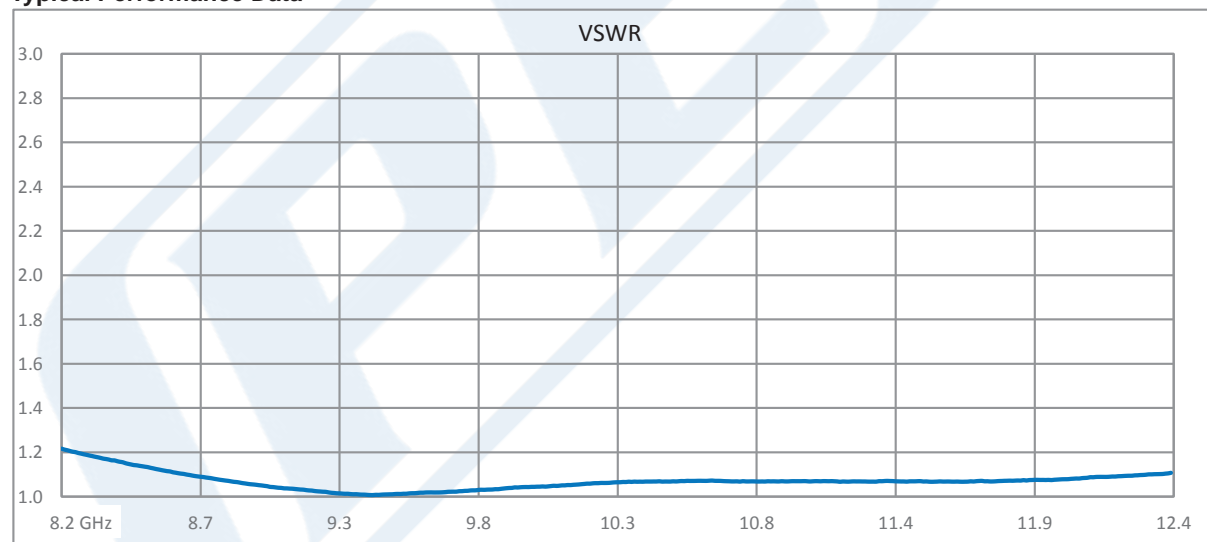
Environmental Specifications

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

Plotted and Other Data

Notes:

Typical Performance Data



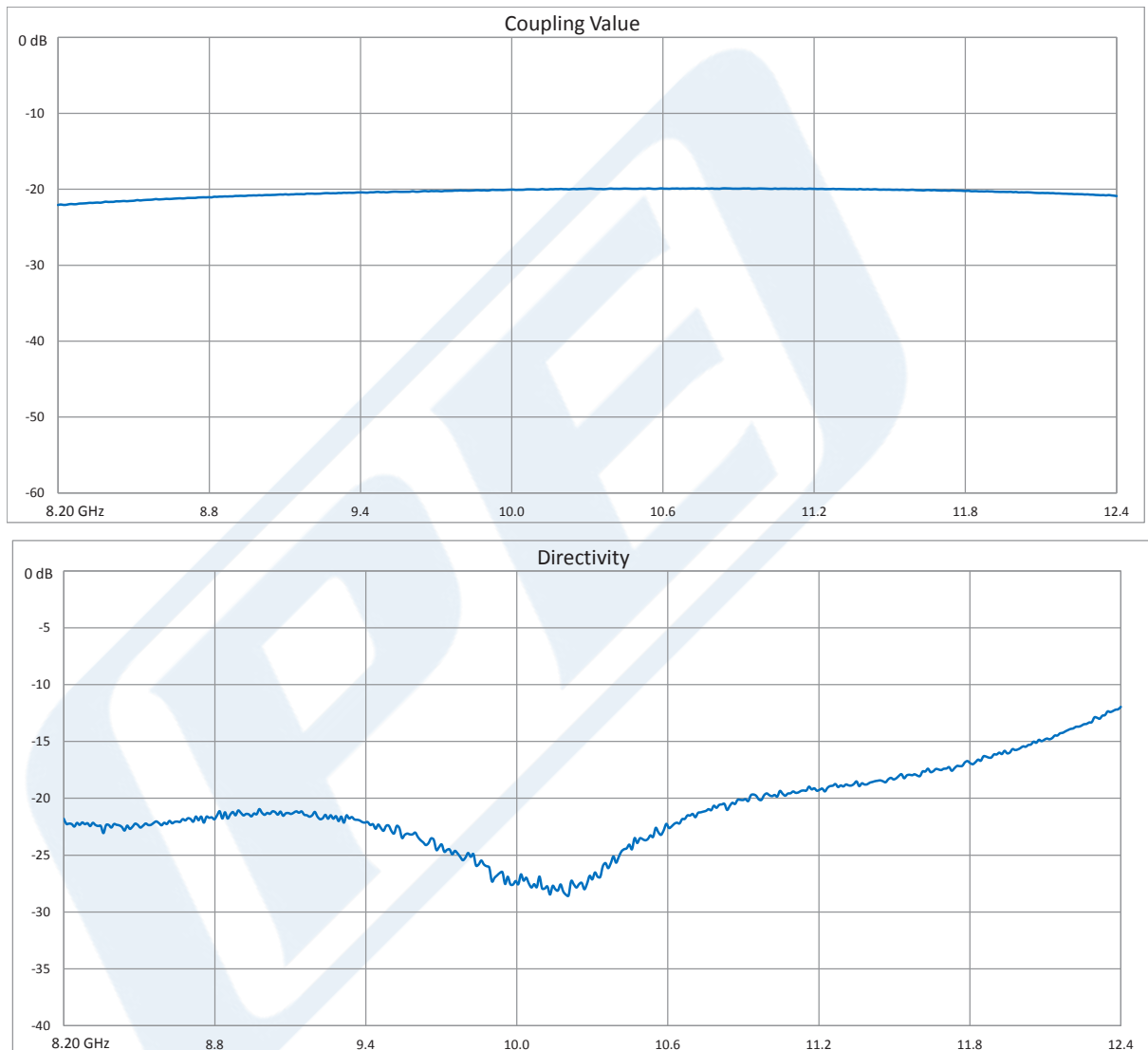
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WR-90 Waveguide 20 dB Crossguide Coupler, UG-39/U Square Cover Flange, N Female Coupled Port, 8.2 GHz to 12.4 GHz, Bronze from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

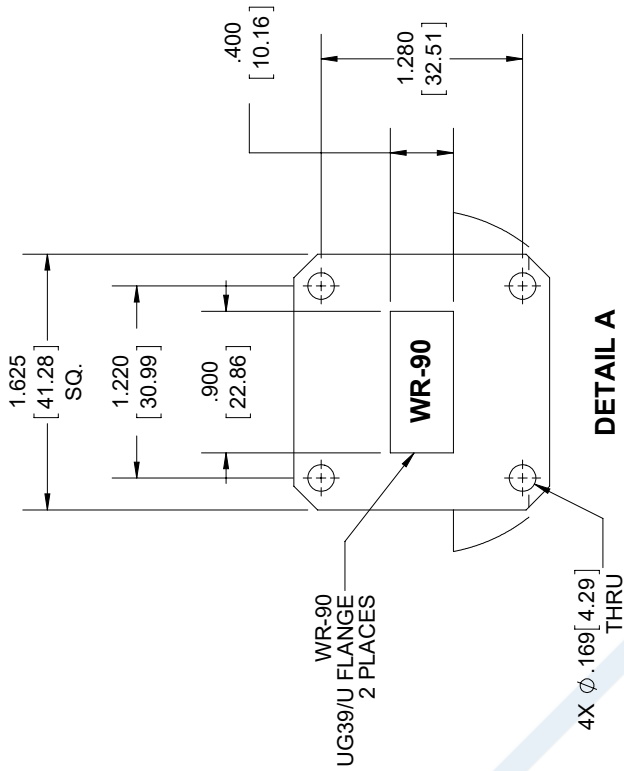
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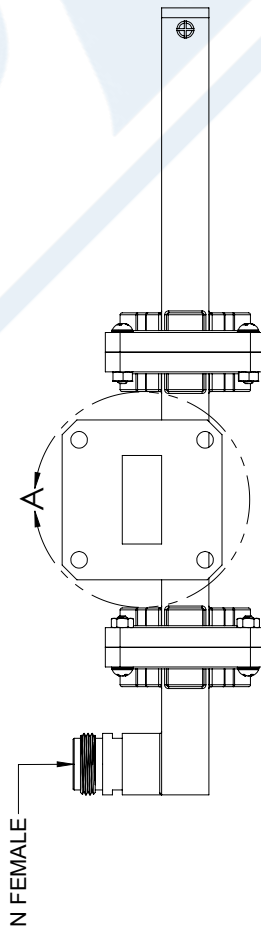
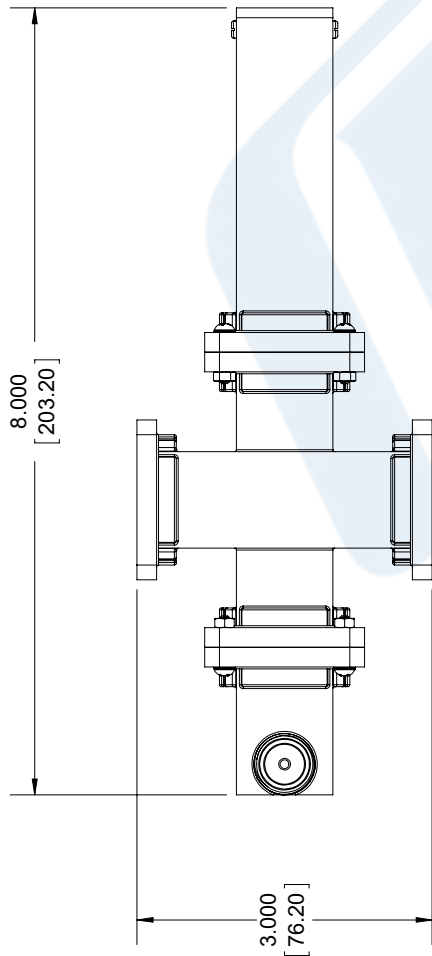
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PEWCT1076 CAD Drawing

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Flange, N Female Coupled Port, 8.2 GHz to 12.4 GHz, Bronze

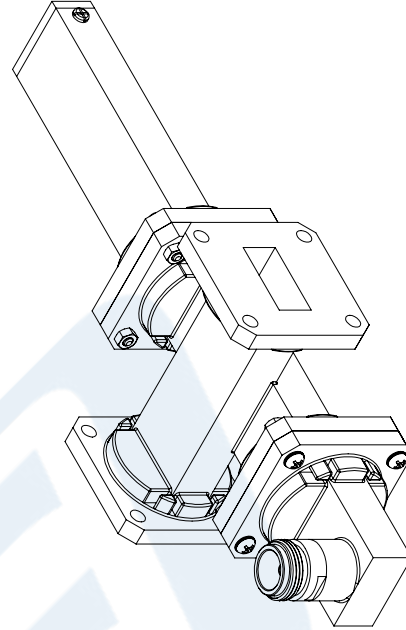


DETAIL A



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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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].

DWG TITLE

PEWCT1076

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CAGE CODE 53919

CAD FILE 062617

SCALE N/A

SIZE A

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