



Waveguide Couplers Assemblies Technical Data

PEWCT1079

The PEWCT1079 is a 50 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 PEWCT1079 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 PEWCT1023. For the four port version of this coupler (no termination, no coax adapter) please see the PEWCP1058.

Features

- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 50 dB Nominal Coupling Level

Applications

- Test Benches
- Radar
- Satellite

Microwave Radio

Attenuation Measurements Power Measurements Source Leveling

Waveguide Body made of Bronze with Brass Flanges

N Female Coax Adapter

Low VSWR

8.2 GHz to 12.4 GHz Frequency Range

Electrical Specifications

Description	Minimum	Typical	Maximum	Units	
requency Range	8.2		12.4	GHz	
mpedance		50		Ohms	
Coupler					
Nominal Coupling Level		50		dB	
Directivity		10		dB	
Insertion Loss		0.1		dB	
Main Line VSWR		1.05:1			
Fermination					
Input Power (CW)			4	Watts	
Vaveguide to Coax Adapters		1.25:1			

Mechanical Specifications

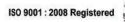
Interface Waveguide Size

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 50 dB Crossguide Coupler, UG-39/U Square Cover Flange, N Female Coupled Port, 8.2 GHz to 12.4 GHz, Bronze PEWCT1079

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com







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Flange Type Flange Designation Flange Material and Plating RF Connector Type

Coupler Body Material and Plating Termination Body Material and Plating Square Cover UG-39/U Brass N Female

Bronze Bronze

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

VSWR											
3											
1			1								
2											
3											
õ											
1											
2											
8.2 GHz	8.7	9.3	9.8	10	.3 1	0.8	11.4	11.9	12		

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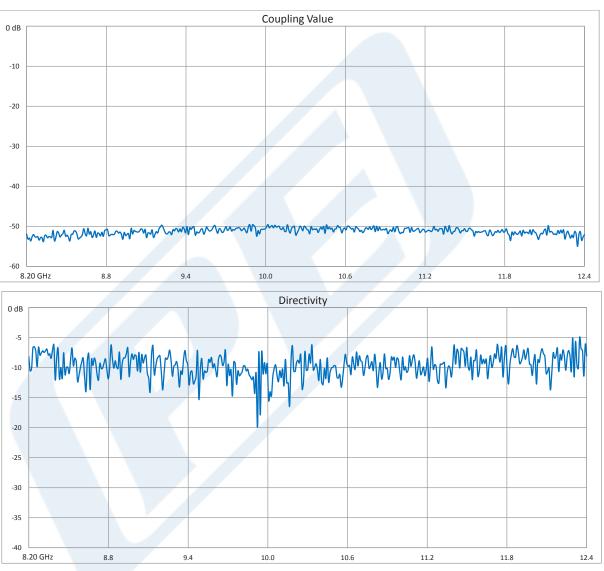






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WR-90 Waveguide 50 dB Crossguide Coupler, UG-39/U Square Cover Flange, N Female Coupled Port, 8.2 GHz to 12.4 GHz, Bronze from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr90-waveguide-50db-crossguide-coupler-ug-39-square-n-12.4-ghz-pewct1079-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.



PEWCT1079 CAD Drawing

WR-90 Waveguide 50 dB Crossguide Coupler, UG-39/U Square Cover Flange, N Female Coupled Port, 8.2 GHz to 12.4 GHz, Bronze

