

Low PIM Directional 6 dB N Coupler To 2.7 GHz Rated to 200 Watts



Couplers Technical Data Sheet PE2CP1057

Features

- Low PIM (-155 dBc)
- 200 Watt Rating
- 678 2.700 MHz

Applications

- Indoor/Outdoor Use (IP67)
- Base Station
- 4G/AWS/PCS

 Low PIM Distributed Antenna Systems

(DAS)

6 dB Coupling Factor

VSWR 1.23 Maximum

N Female Connector

Wireless Infrastructure

Description

The PE2CP1057 is a 6 dB direction coupler with N Female connectors rated to 200 watts. Insertion loss is a low 0.25 dB. The total path loss (including accuracy, frequency variations, dissipative loss and theoretical loss due to coupling) is 1.90 dB.

Pasternack's family of Low PIM couplers are tapered designs that cover the 678 to 2,700 MHz frequency range. Offered in a broad range of coupling values to allow flexibility in the design of your low PIM system: 6, 10, 15, 20, and 30 dB. Especially designed and manufactured for the rigors of low PIM systems, this family of couplers is rated at an average power of 200 watts, and have PIM performance of -155 dBc or better. They can be used indoor or outdoor as they meet the moisture requirements of IP67. If higher power is needed please consider Pasternack's unequal tappers. All couplers are available in four different connector types: N, DIN 7-16, MiniDIN 4.3-10, and MiniDIN 4.1-9.5.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.698		2.7	GHz
Impedance		50		Ohms
Coupling		6 ±1		dB
Frequency Sensitivity			±0.4	dB
Main Line Loss			1.9	dB
Insertion Loss			0.25	dB
Directivity	20			dB
Main Line VSWR			1.23:1	
Secondary Line VSWR			1.29:1	
Passive Intermodulation 2x20W			-155	dBc
Input Power (CW)			200	Watts

Electrical Specification Notes: Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Low PIM Directional 6 dB N Coupler To 2.7 GHz Rated to 200 Watts PE2CP1057

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

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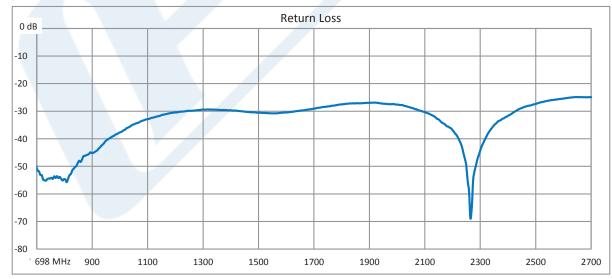
Mechanical Specifications Size			
Length Width/Dia.	5.58 in [141.73 mm] 1 in [25.4 mm]		
Height	2.45 in [62.23 mm]		
Weight	1.646 lbs [746.61 g]		
Configuration Package Type Input Connector Output Connector Coupled Connectors	Connectorized N Female N Female N Female		
Environmental Specifications Temperature			
Operating Range	-20 to +55 deg C		
Compliance Cartifications (as product page (

Compliance Certifications (see product page for current document)

Plotted and Other Data

- Notes:
- Values at 25°C, sea level.

Typical Performance Data



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Insertion Loss 0 dB -0.20 -0.40 -0.60 -0.80 -1.00 1100 1300 1700 1900 2100 698 MHz 900 1500 2300 2500 2700 Coupling 0 dB -1.50 -3.00 -4.50 -6.00 -7.50 -9.00 -10.50 -12.00 -13.50 -15.00 698 MHz 900 1100 1300 1500 1700 1900 2100 2300 2500 2700

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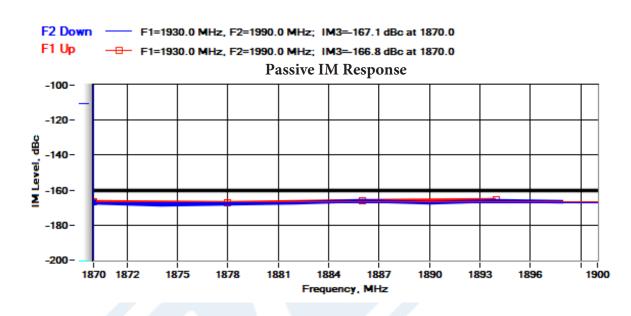




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Low PIM Directional 6 dB N Coupler To 2.7 GHz Rated to 200 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/directional-6-db-n-coupler-698-mhz-2.7-ghz-200-watts-pe2cp1057-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.

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PE2CP1057 CAD Drawing

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