



Low PIM Directional 20 dB N Coupler From 380 MHz to 4 GHz Rated to 200 Watts

Couplers Technical Data Sheet

PE2CP1069A

Features

- Low PIM (-155 dBc)
- 200 Watt Rating
- 380 – 4,000 MHz
- 20 dB Coupling Factor
- VSWR 1.29 Maximum
- N Female Connector

Applications

- Indoor/Outdoor Use (IP67)
- Base Station
- 4G/AWS/PCS
- Low PIM
- Distributed Antenna Systems (DAS)
- Wireless Infrastructure

Description

The PE2CP1069A is a 20 dB direction coupler with N Female connectors rated to 200 watts. Insertion loss is a low 0.3 dB. The total path loss (including accuracy, frequency variations, dissipative loss and theoretical loss due to coupling) is 0.3 dB.

Pasternack's family of Low PIM couplers are tapered designs that cover the 380 to 4,000 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	0.38		4	GHz
Impedance		50		Ohms
Coupling		20 ±1.2		dB
Frequency Sensitivity		±0.6		dB
Main Line Loss			0.3	dB
Insertion Loss			0.3	dB
Directivity	17			dB
Main Line VSWR			1.22:1	
Secondary Line VSWR			1.29:1	
Passive Intermodulation 2x20W			-155	dBc
Input Power (CW)			200	Watts

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 20 dB N Coupler From 380 MHz to 4 GHz Rated to 200 Watts PE2CP1069A](#)



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Mechanical Specifications

Size

Length	5.93 in [150.62 mm]
Width/Dia.	1 in [25.4 mm]
Height	2.4 in [60.96 mm]
Weight	1.72 lbs [780.18 g]
Housing Material and Plating	Aluminum, Brass

Configuration

Input Connector	N Female
Output Connector	N Female
Coupled Connectors	N Female

Environmental Specifications

Temperature

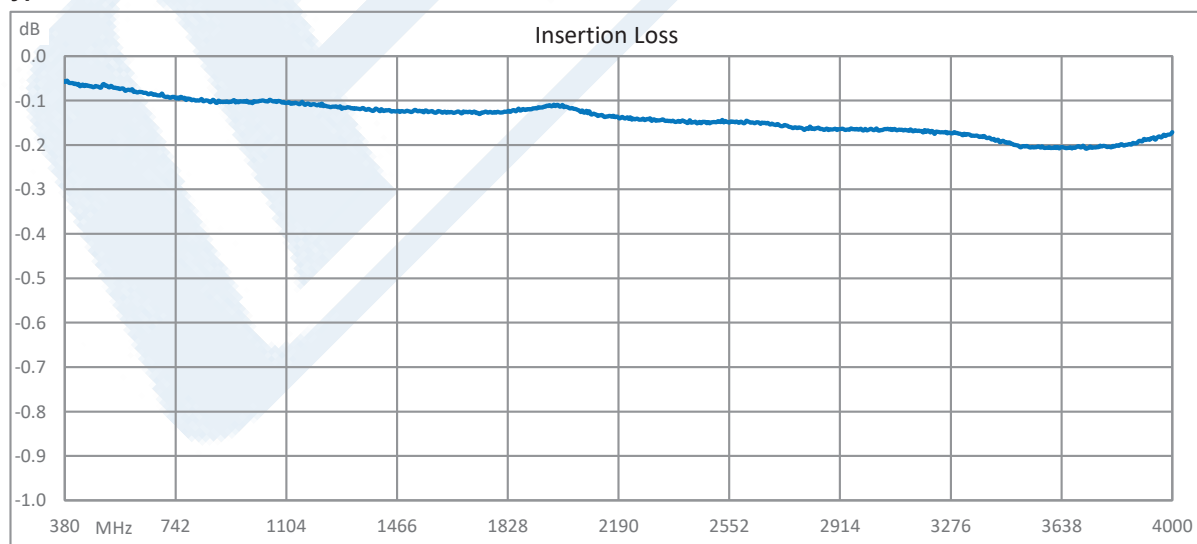
Operating Range	-20 to +55 deg C
Ingress Protection (IP) Rating	IP67

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

Plotted and Other Data

Notes:

Typical Performance Data



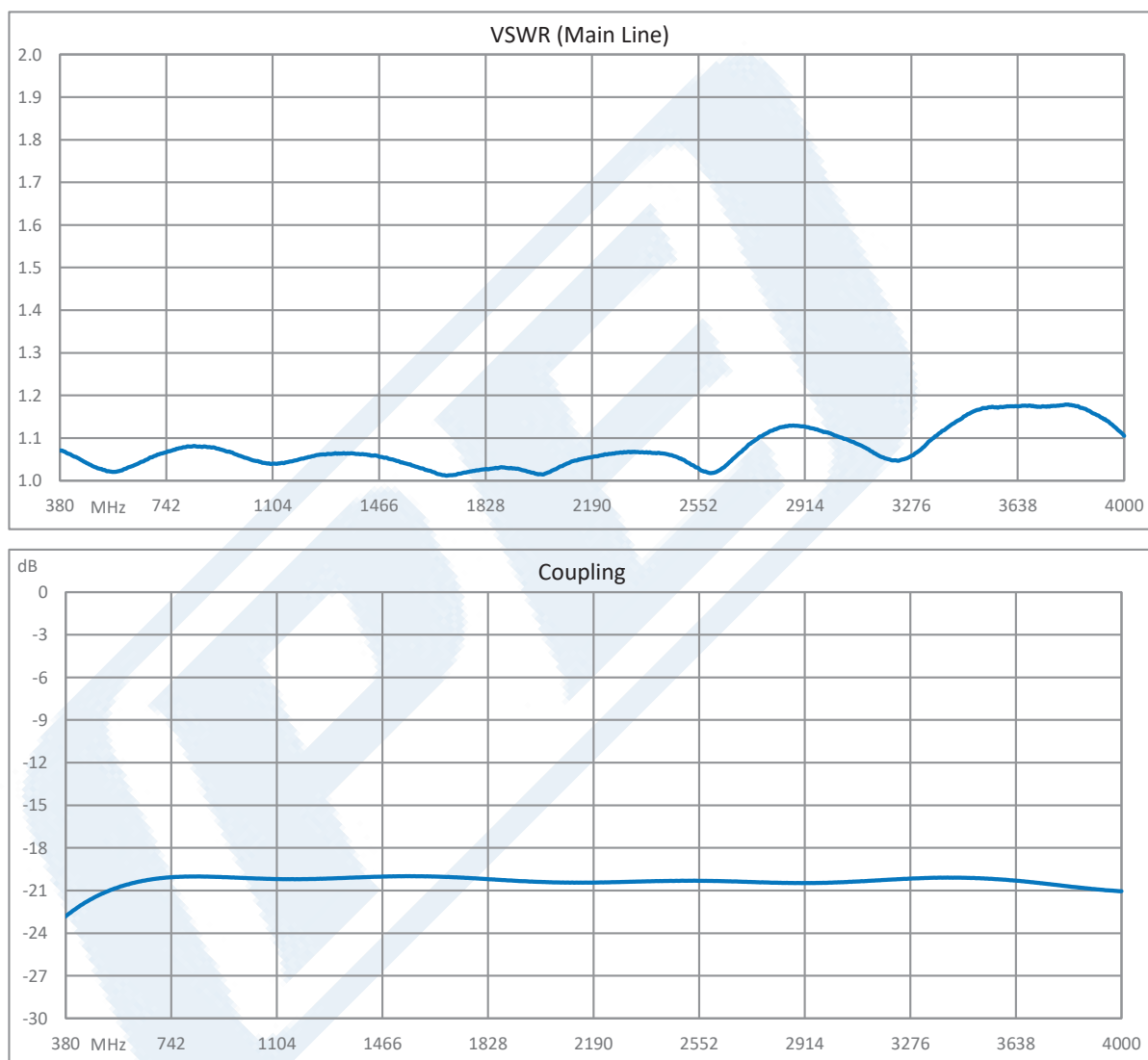
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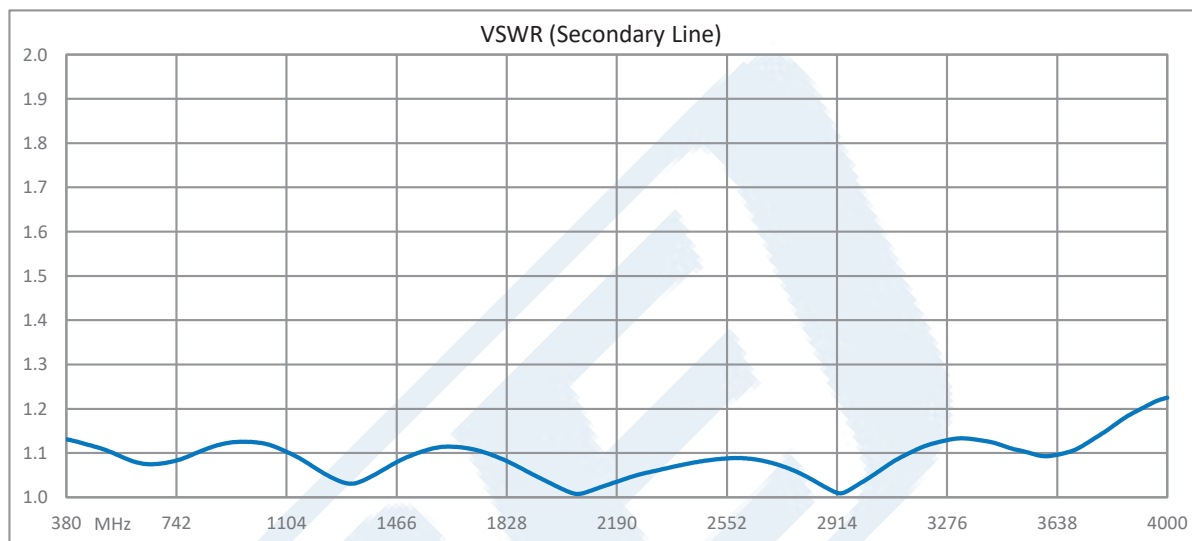
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM Directional 20 dB N Coupler From 380 MHz to 4 GHz Rated to 200 Watts PE2C-P1069A](#)



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Low PIM Directional 20 dB N Coupler From 380 MHz to 4 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.

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 20 dB N Coupler From 380 MHz to 4 GHz Rated to 200 Watts PE2CP1069A](https://www.pasternack.com/directional-20-db-n-coupler-698-mhz-2.7-ghz-200-watts-pe2cp1069a-p.aspx)

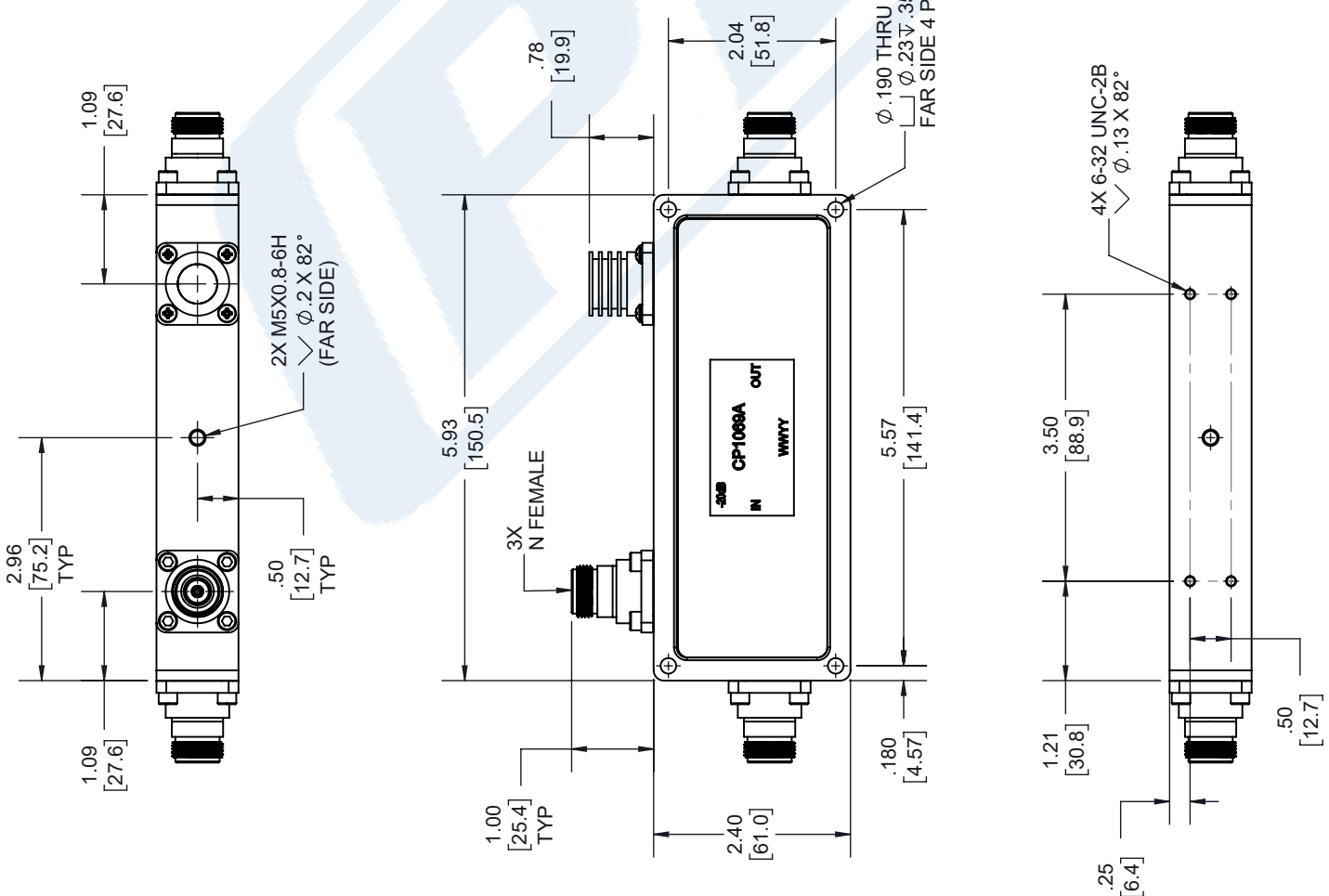
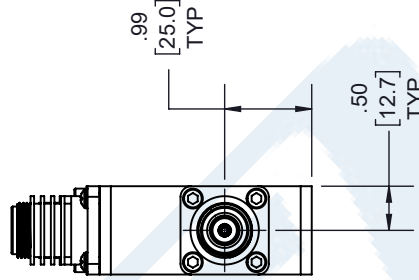
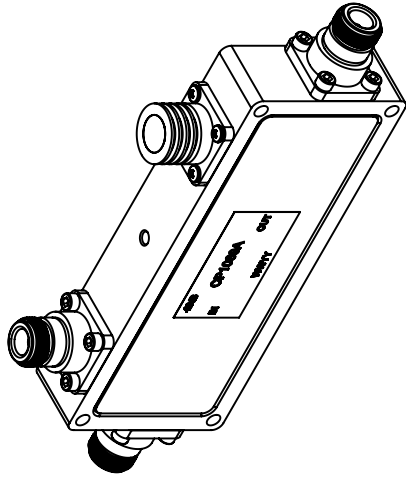
URL: <https://www.pasternack.com/directional-20-db-n-coupler-698-mhz-2.7-ghz-200-watts-pe2cp1069a-p.aspx>

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PE2CP1069A CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/13/2022	S. PONG



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°
CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5% / -0
ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.



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SHEET 1 OF 1

SCALE N/A

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