

Low PIM Directional 20 dB N Coupler To 2.7 GHz Rated to 200 Watts



Couplers Technical Data Sheet

PE2CP1069

Features

- Low PIM (-155 dBc)
- 200 Watt Rating
- 678 2,700 MHz

- 20 dB Coupling Factor
- VSWR 1.23 Maximum
- N Female Connector

Applications

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

- Low PIM
- Distributed Antenna Systems (DAS)

· Wireless Infrastructure

Description

The PE2CP1069 is a 20 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 0.31 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 | | 20 ±1.2 | | dB |
| Frequency Sensitivity | | | ±0.6 | dB |
| Main Line Loss | | | 0.31 | 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 20 dB N Coupler To 2.7 GHz Rated to 200 Watts PE2CP1069

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Mechanical Specifications

Size

 Length
 5.58 in [141.73 mm]

 Width/Dia.
 1 in [25.4 mm]

 Height
 2.45 in [62.23 mm]

 Weight
 1.665 lbs [755.23 g]

Configuration

Package Type Connectorized Input Connector N Female Output Connector N Female Coupled Connectors N Female

Environmental Specifications

Temperature

Operating Range -20 to +55 deg C

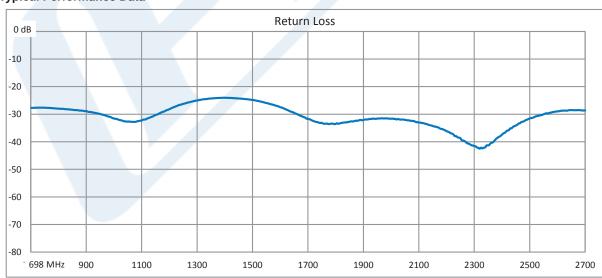
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

Typical Performance Data



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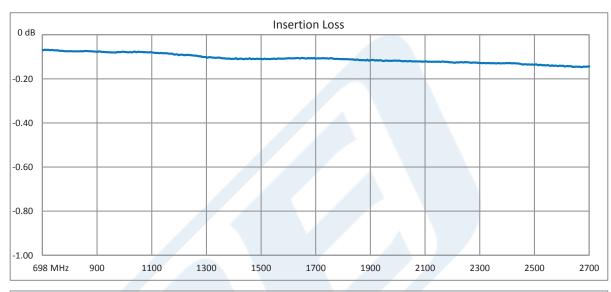


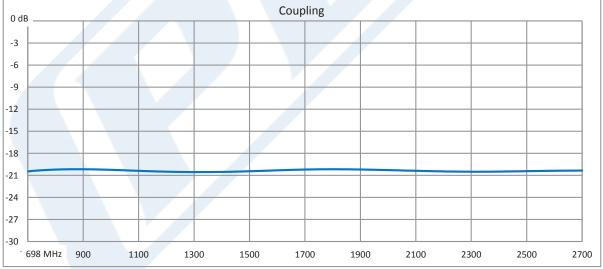
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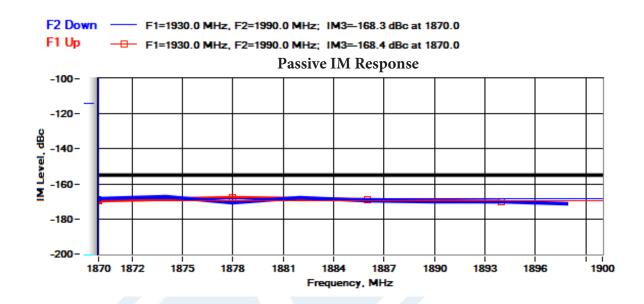


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URL: https://www.pasternack.com/directional-20-db-n-coupler-698-mhz-2.7-ghz-200-watts-pe2cp1069-p.aspx

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PE2CP1069 CAD Drawing

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