



## Directional 35 dB N Coupler From 1 GHz to 11 GHz Rated to 600 Watts

### Couplers Technical Data Sheet

**PE2236-35**

#### Features

- High Power Directional Coupler
- 1 to 11 GHz Frequency Range
- Coupling 35±1.5 dB
- Directivity > 20 dB
- VSWR < 1.25:1
- Max Power 600 Watts (CW)

#### Applications

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

#### Description

Directional couplers are indispensable components for isolating, separating and combining signals. For example, they provide a simple way of sampling microwave signals. They also can make accurate attenuator measurements since reflections are eliminated. The PE2236-35 is a 35 dB high power directional coupler that operates from 1 to 11 GHz and can handle up to 600 Watts (CW) with 20 dB directivity minimum and 1.25:1 VSWR maximum. The package is REACH/RoHS compliant and uses N female and SMA female connectors.

The PE2236-35 is part of Pasternack's family of directional/dual-directional couplers that offer coupling ratios up to 50 dB with excellent performance featuring high directivity, low insertion loss and VSWR. They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling, VSWR measurements, power combining and distribution.

#### Electrical Specifications

| Description           | Minimum | Typical | Maximum | Units  |
|-----------------------|---------|---------|---------|--------|
| Frequency Range       | 1       |         | 11      | GHz    |
| Impedance             |         | 50      |         | Ohms   |
| Coupling              |         | 35 ±1.5 |         | dB     |
| Frequency Sensitivity |         | ±1.5    |         | dB     |
| Insertion Loss        |         | 0.2     |         | dB     |
| Directivity           | 20      |         |         | dB     |
| Main Line VSWR        |         |         | 1.25:1  |        |
| Input Power (CW)      |         |         | 600     | Watts  |
| Input Power (Peak)    |         |         | 10      | KWatts |

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: [Directional 35 dB N Coupler From 1 GHz to 11 GHz Rated to 600 Watts PE2236-35](#)



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### Mechanical Specifications

#### Size

|            |                      |
|------------|----------------------|
| Length     | 3.85 in [97.79 mm]   |
| Width/Dia. | 0.8 in [20.32 mm]    |
| Height     | 1.58 in [40.13 mm]   |
| Weight     | 0.495 lbs [224.53 g] |

#### Configuration

|                    |               |
|--------------------|---------------|
| Package Type       | Connectorized |
| Input Connector    | N Female      |
| Output Connector   | N Female      |
| Coupled Connectors | SMA Female    |

### Environmental Specifications

#### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +80 deg C |
|-----------------|------------------|

### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

|                 |            |
|-----------------|------------|
| RoHS Compliant  |            |
| REACH Compliant | 12/17/2015 |

### Plotted and Other Data

#### Notes:

Directional 35 dB N Coupler From 1 GHz to 11 GHz Rated to 600 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% 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: [Directional 35 dB N Coupler From 1 GHz to 11 GHz Rated to 600 Watts PE2236-35](http://www.pasternack.com/directional-35-db-n-coupler-1-11-ghz-600-watts-pe2236-35-p.aspx)

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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.

