

90 Degree SMA Hybrid Coupler From 12 GHz to 18 GHz Rated to 40 Watts



Hybrids Technical Data Sheet

PE2057

Features

- High Power 90° Hybrid Coupler
- 12 to 18 GHz Frequency Range

- Isolation > 15 dB
- Max Power 40 Watts (CW)

Applications

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

Description

The PE2057 is a high power 90 degree hybrid coupler that operates from 12 to 18 GHz and can handle up to 40 Watts (CW) with 15 dB isolation minimum and 1.5:1 VSWR maximum. The package interface uses SMA female connectors, and is REACH and RoHS compliant.

The PE2057 is part of Pasternack's family of 90 degree hybrid couplers in connectorized packages. These quadrature hybrids are excellent for any situation to either equally split an input signal into two paths with a 90 degree phase shift between them or to combine signals while maintaining high isolation between them.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------------|---------|---------|---------|---------|
| Frequency Range | 12 | | 18 | GHz |
| Impedance | | 50 | | Ohms |
| Phase Difference | | 90 | | Degrees |
| Coupling | | 3.4 ±1 | | dB |
| Isolation | 15 | | | dB |
| VSWR | | | 1.5:1 | |
| Frequency Sensitivity | | ±0.7 | | dB |
| Phase Balance | | 8 | | Degrees |
| Input Power (CW) | | | 40 | Watts |
| Input Power (Peak) | | | 1 | KWatts |

Electrical Specification Notes:

Coupling includes frequency sensitvity.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 90 Degree SMA Hybrid Coupler From 12 GHz to 18 GHz Rated to 40 Watts PE2057

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Mechanical Specifications

Size

 Length
 1 in [25.4 mm]

 Width
 0.58 in [14.73 mm]

 Height
 0.38 in [9.65 mm]

 Weight
 0.041 lbs [18.6 g]

Configuration

RF Connector Type SMA Female

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

90 Degree SMA Hybrid Coupler From 12 GHz to 18 GHz Rated to 40 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/hybrid-directional-3-db-sma-coupler-12-18-ghz-40-watts-pe2057-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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PE2057 CAD Drawing
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