



## 90 Degree SMA Hybrid From 6 GHz to 12.4 GHz Rated To 100 Watts

### TECHNICAL DATA SHEET

PE2055

#### 90 Degree SMA Hybrid From 6 GHz to 12.4 GHz Rated To 100 Watts

##### Configuration

|             |                   |
|-------------|-------------------|
| Connector 1 | SMA Female        |
| Connector 2 | SMA Female        |
| Connector 3 | SMA Female        |
| Connector 4 | SMA Female        |
| Design      | 90 Degrees Hybrid |

##### Electrical Specifications

|                            |           |
|----------------------------|-----------|
| Frequency Range, GHz       | 6 to 12.4 |
| Phase Difference, Degrees  | 90        |
| Impedance, Ohms            | 50        |
| Isolation, dB              | 17        |
| Maximum Insertion Loss, dB | 3.4       |
| Maximum Input Power, Watts | 100       |
| Maximum Input VSWR         | 1.4:1     |
| Phase Balance, Degrees     | 6         |
| Flatness, dB               | 1.4       |
| Coupling Value, dB         | 3         |
| Coupled Loss, dB           | 0.4       |
| Frequency Sensitivity, dB  | 0.5       |

##### Mechanical Specifications

###### Size

|                 |              |
|-----------------|--------------|
| Length, in [mm] | 1 [25.4]     |
| Width, in [mm]  | 0.38 [9.65]  |
| Height, in [mm] | 0.88 [22.35] |

###### Connector 1

|      |            |
|------|------------|
| Type | SMA Female |
|------|------------|

###### Connector 2

|      |            |
|------|------------|
| Type | SMA Female |
|------|------------|

###### Connector 3

|      |            |
|------|------------|
| Type | SMA Female |
|------|------------|

###### Connector 4

|      |            |
|------|------------|
| Type | SMA Female |
|------|------------|

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

|                |     |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

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 From 6 GHz to 12.4 GHz Rated To 100 Watts PE2055](#)

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.





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**Plotted and Other Data**

Notes:

Values at 25 °C, sea level

90 Degree SMA Hybrid From 6 GHz to 12.4 GHz Rated To 100 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

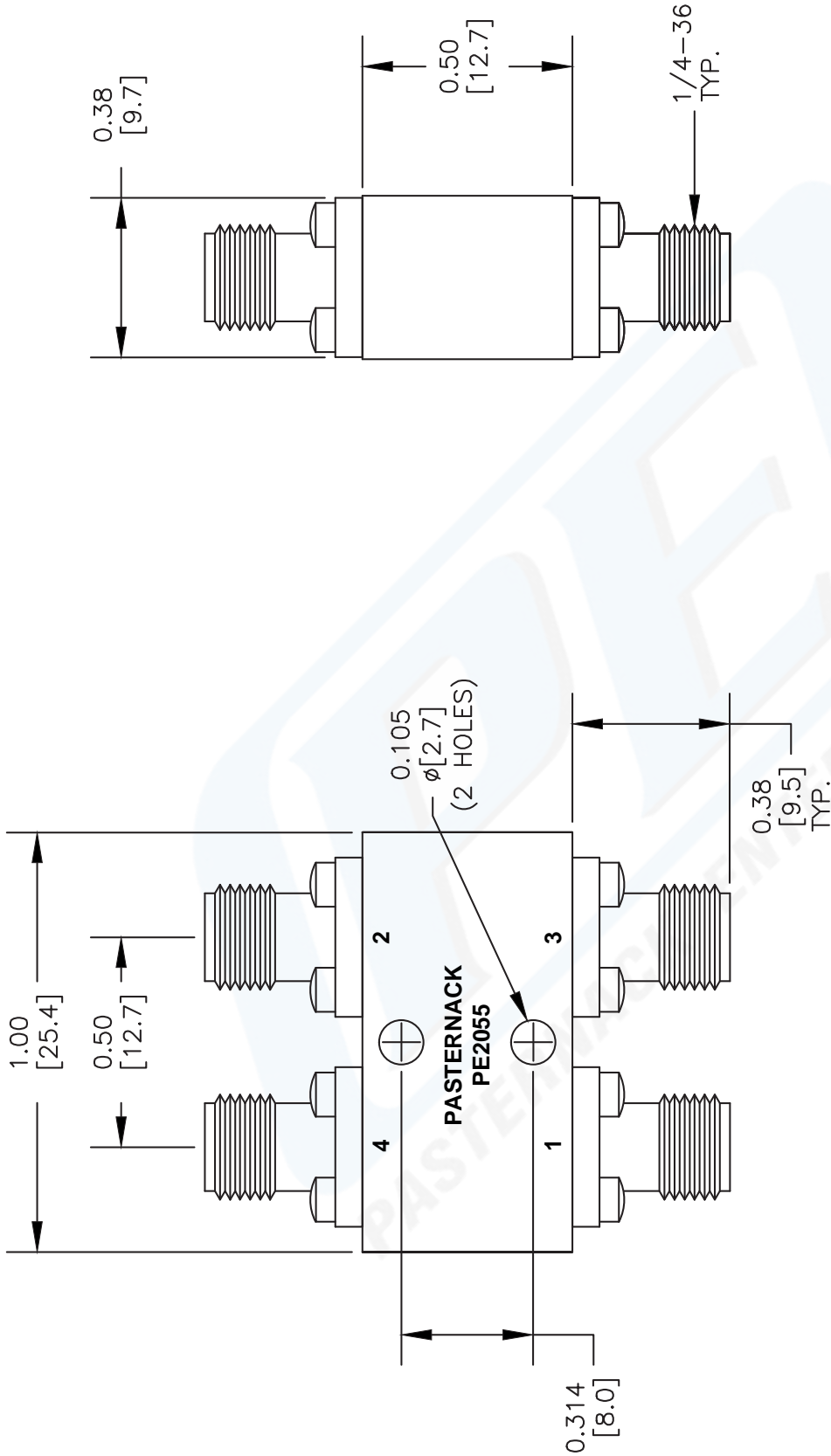
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [90 Degree SMA Hybrid From 6 GHz to 12.4 GHz Rated To 100 Watts PE2055](http://www.pasternack.com/hybrid-directional-3-db-sma-coupler-6-12.4-ghz-50-watts-pe2055-p.aspx)

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# PE2055 CAD Drawing

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| PORT CONFIGURATION |            |           |          |
|--------------------|------------|-----------|----------|
| INPUT              | 90° OUTPUT | 0° OUTPUT | ISOLATED |
| 1                  | 4          | 2         | 3        |

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE  
**PE2055**

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REV. A  
**FSCM NO. 53919**

CAD FILE 092607-A  
 SCALE N/A  
 SIZE A  
 XXXX