



## RP-SMA Female to RP-SMA Female Bulkhead Mount Adapter

### RF Adapters Technical Data Sheet

PE9593

#### Configuration

- SMA Female Reverse Polarity Connector 1
- SMA Female Reverse Polarity Connector 2
- 50 Ohm
- Straight Body Geometry
- Bulkhead Mount Method

#### Features

- Max VSWR of 1.25:1 up to 18 GHz
- SMA interface compliant with MIL-STD-348
- Epoxy captivation
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

#### Applications

- General Purpose Test
- Rack Mounted Equipment

#### Description

Pasternack's PE9593 RP SMA female to RP SMA female bulkhead adapter is part of our full line of RF components available for same-day shipping. Our reverse polarity SMA to reverse polarity SMA adapter has a female to female gender configuration. PE9593 reverse polarity SMA female to reverse polarity SMA female adapter operates to 18 GHz. The Pasternack RF adapter provides excellent VSWR of 1.25:1 maximum. This RF SMA to SMA bulkhead adapter allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

RF adapters are often used to enable connections between two connector types that would otherwise not mate. Certain adapter configurations can also be used to protect connectors on expensive equipment where the number of connect/disconnect cycles is high. An RF, microwave or millimeter wave adapter is connected to the equipment, and the commonly changed connection is made with the adapter which can be easily replaced when it wears out after high usage; such adapters are referred to as connector savers. Pasternack also offers bulkhead, panel mount, hermetically sealed, reverse polarity, and isolated ground adapter varieties to serve all of your RF, microwave and millimeter wave needs.

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 18      | GHz   |
| VSWR                                 |         |         | 1.25:1  |       |
| Operating Voltage (AC)               |         |         | 500     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,500   | Vrms  |
| Insulation Resistance                | 5,000   |         |         | MOhms |

Electrical Specification Notes:  
Values at 25°C, sea level

#### Mechanical Specifications

##### Size

|        |                     |
|--------|---------------------|
| Length | 0.875 in [22.23 mm] |
| Width  | 0.375 in [9.53 mm]  |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP-SMA Female to RP-SMA Female Bulkhead Mount Adapter PE9593](#)



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Weight 0.011 lbs [4.99 g]

| Description                | Connector 1      | Connector 2      |
|----------------------------|------------------|------------------|
| Type                       | SMA Female       | SMA Female       |
| Polarity                   | Reverse Polarity | Reverse Polarity |
| Interface Specification    | MIL-STD-348      | MIL-STD-348      |
| Contact Captivation Method | Epoxy            | Epoxy            |

#### Material Specifications

| Description     | Connector 1                 |                                 | Connector 2                 |                                 |
|-----------------|-----------------------------|---------------------------------|-----------------------------|---------------------------------|
|                 | Material                    | Plating                         | Material                    | Plating                         |
| Type            | SMA Female Reverse Polarity |                                 | SMA Female Reverse Polarity |                                 |
| Contact         | Beryllium Copper            | Gold over Nickel<br>MIL-G-45204 | Beryllium Copper            | Gold over Nickel<br>MIL-G-45204 |
| Insulation      | PTFE                        |                                 | PTFE                        |                                 |
| Outer Conductor | Passivated Stainless Steel  |                                 | Passivated Stainless Steel  |                                 |
|                 | QQ-P-35                     |                                 | QQ-P-35                     |                                 |

#### Environmental Specifications

##### Temperature

Operating Range -65 to +165 deg C

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

#### Plotted and Other Data

Notes:

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RP-SMA Female to RP-SMA Female Bulkhead Mount Adapter 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.

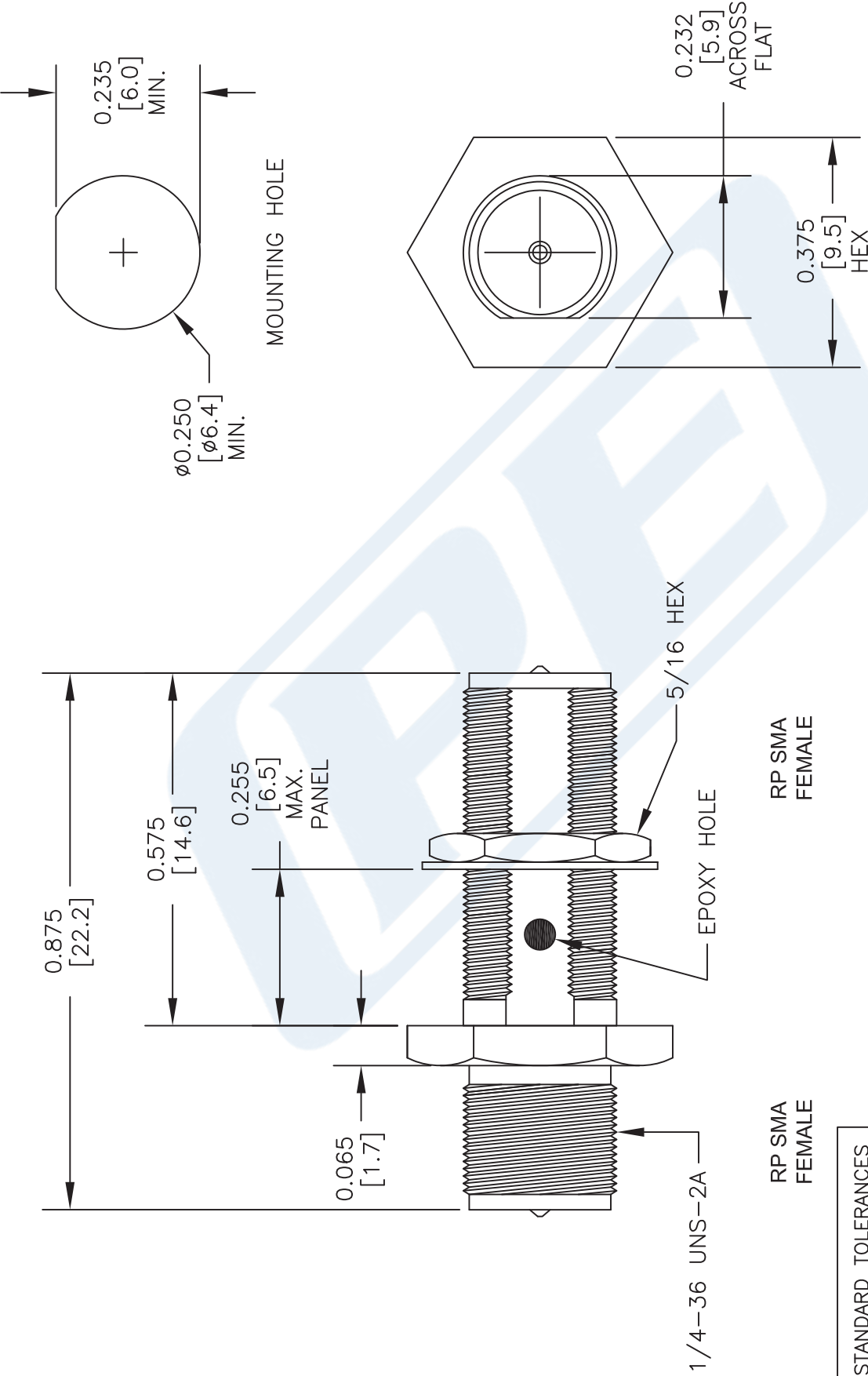
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP-SMA Female to RP-SMA Female Bulkhead Mount Adapter PE9593](https://www.pasternack.com/sma-female-sma-female-straight-adapter-pe9593-p.aspx)

URL: <https://www.pasternack.com/sma-female-sma-female-straight-adapter-pe9593-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.

PE9593 CAD Drawing

RP-SMA Female to RP-SMA Female Bulkhead Mount Adapter



DWG TITLE

PE9593

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].

**PE PASTERNAK**  
THE ENGINEER'S RF SOURCE

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