



SMA Male to SMA Female Bulkhead Adapter 18 GHz

RF Adapters Technical Data Sheet

PE9014

Configuration

- SMA Male Connector 1
- SMA Female Connector 2
- 50 Ohms
- Straight Body Geometry
- Bulkhead Mount Method

Features

- Max VSWR of 1.23:1 up to 18 GHz
- SMA Interface compliant with MIL-STD-348A
- Gold Plated Beryllium Copper Contact
- 50µ in min Gold Contact Plating

Applications

- General Purpose Test
- Rack Mounted Equipment

Description

Pasternack's PE9014 SMA male to SMA female bulkhead adapter is part of our full line of RF components available for same-day shipping. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. Our SMA to SMA adapter has a male to female gender configuration. PE9014 SMA male to SMA female adapter operates to 18 GHz. The Pasternack RF adapter provides excellent VSWR of 1.23:1 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 | | | 1.23:1 | |
| Operating Voltage (AC) | | | 500 | Vrms |

Mechanical Specifications

| | |
|-------------|--------------------|
| Size | |
| Length | 0.92 in [23.37 mm] |
| Width | 0.375 in [9.53 mm] |
| Weight | 0.01 lbs [4.54 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Female Bulkhead Adapter 18 GHz PE9014](#)



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| Description | Connector 1 | Connector 2 |
|-------------------------|---------------------------------|--------------|
| Type | SMA Male | SMA Female |
| Polarity | Standard | Standard |
| Interface Specification | MIL-STD-348A | MIL-STD-348A |
| Hex Size | 5/16 in | |
| Mating Torque | 3 to 5 in-lbs [0.34 to 0.57 Nm] | |

Material Specifications

| Description | Connector 1 | | Connector 2 | |
|-----------------|------------------|----------------------------|------------------|----------------------------|
| | Material | Plating | Material | Plating |
| Type | SMA Male | | SMA Female | |
| Contact | Beryllium Copper | Gold 50µ in. minimum | Beryllium Copper | Gold 50µ in. minimum |
| Insulation | PTFE | | PTFE | |
| Outer Conductor | | | Brass | Nickel 100µ in. minimum |
| Body | Brass | Nickel 100µ in. minimum | | |
| Gasket | Silicone | | | |
| Coupling Nut | Brass | Nickel 100µ in. minimum | | |

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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SMA Male to SMA Female Bulkhead Adapter 18 GHz 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.

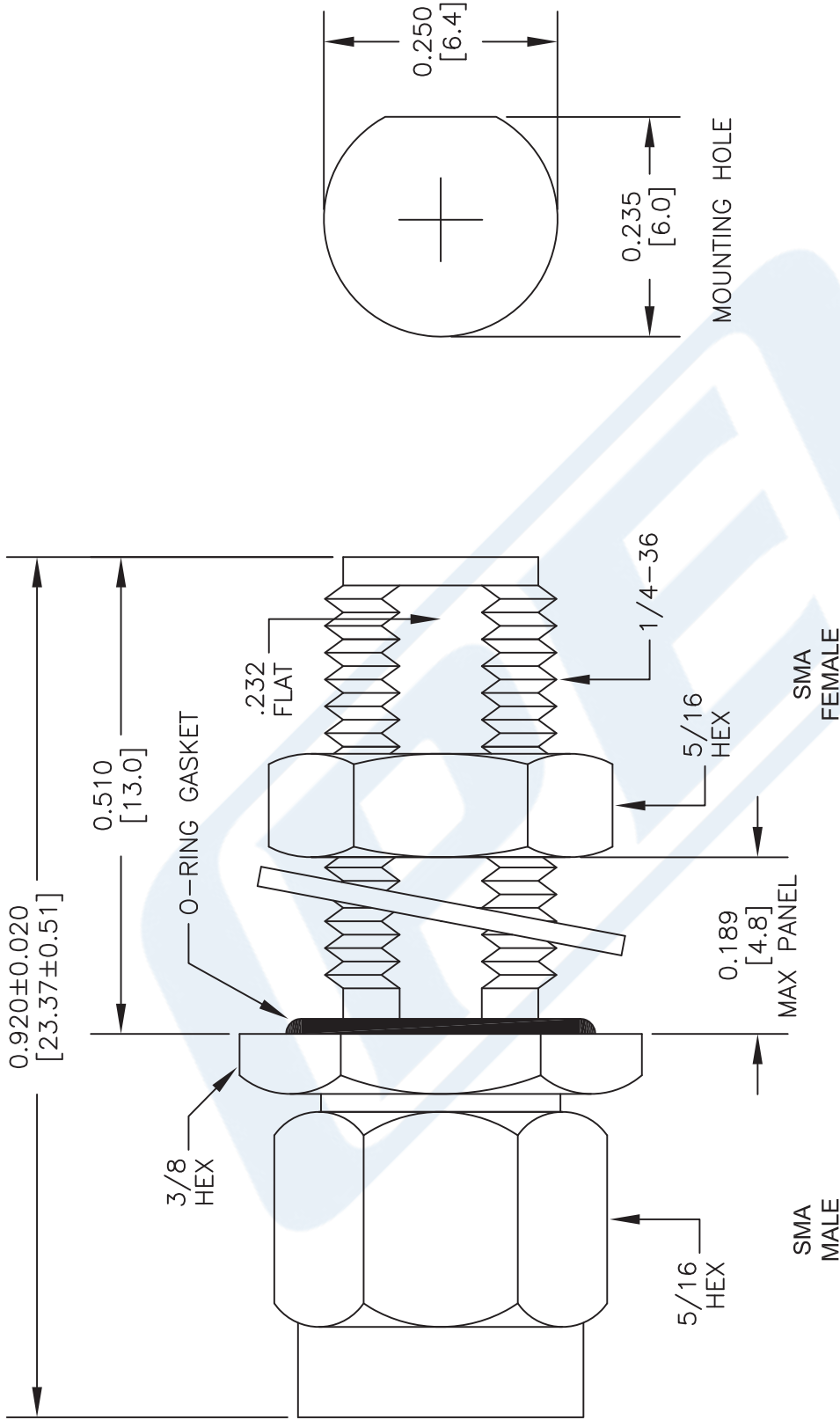
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Female Bulkhead Adapter 18 GHz PE9014](https://www.pasternack.com/sma-male-sma-female-straight-adapter-pe9014-p.aspx)

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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.

PE9014 CAD Drawing

SMA Male to SMA Female Bulkhead Adapter 18 GHz



| STANDARD TOLERANCES | |
|---------------------|-------|
| .X | ±0.2 |
| .XX | ±0.1 |
| .XXX | ±0.05 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | |
|---|------------------------|
| <p>NOTES:</p> <ol style="list-style-type: none"> 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]. | |
| <p>DWG TITLE</p> <h2>PE9014</h2> | |
| <p>FSCM NO. 53919</p> | <p>CAD FILE 071416</p> |
| <p>SCALE N/A</p> | <p>SIZE A</p> |
| <p>2233</p> | |

PE PASTERNAK
 THE ENGINEER'S RF SOURCE
 Pasternack Enterprises, Inc.
 P.O. Box 16759 | Irvine | CA | 92623
 Phone: (949) 261-1920 | Fax: (949) 261-7451
 Website: www.pasternack.com | E-Mail: sales@pasternack.com