



Hermetically Sealed SMA Female to SMA Female Bulkhead Adapter

RF Adapters Technical Data Sheet

PE9184

Configuration

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

Features

- Max VSWR of 1.4:1 up to 18 GHz
- Hermetically Sealed
- SMA Interface compliant with MIL-STD-348
- Gold Plated Beryllium Copper Contact
- Contact Plating per MIL-G-45204

Applications

- General Purpose Test
- Vacuum Test Environment
- Rack Mounted Equipment

Description

Pasternack's PE9184 hermetically sealed SMA female 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 female to female gender configuration. PE9184 SMA female to SMA female adapter operates to 18 GHz. The Pasternack RF adapter provides good VSWR of 1.4:1 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. This hermetic SMA to SMA adapter prevents the leakage of gases, making it suitable for high pressure or vacuum applications or whenever an airtight seal is required.

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 | | | 1.4:1 | |

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

Mechanical Specifications

| | |
|-------------|---------------------|
| Size | |
| Length | 0.875 in [22.23 mm] |
| Width | 0.5 in [12.7 mm] |
| Weight | 0.013 lbs [5.9 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Hermetically Sealed SMA Female to SMA Female Bulkhead Adapter PE9184](#)



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| Description | Connector 1 | Connector 2 |
|-------------------------|---------------------|---------------------|
| Type | SMA Female | SMA Female |
| Polarity | Standard | Standard |
| Interface Specification | MIL-STD-348 | MIL-STD-348 |
| Connector Option | Hermetically Sealed | Hermetically Sealed |

Material Specifications

| Description | Connector 1 | | Connector 2 | |
|-----------------|------------------|---------------------|------------------|---------------------|
| | Material | Plating | Material | Plating |
| Type | SMA Female | | SMA Female | |
| Contact | Beryllium Copper | Gold MIL-G-45204 | Beryllium Copper | Gold MIL-G-45204 |
| Insulation | PTFE | | PTFE | |
| Outer Conductor | Stainless Steel | Gold MIL-G-45204 | Stainless Steel | Gold MIL-G-45204 |

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

Hermetic Seal

Leak rate not to exceed 1×10^{-7} cc/sec of helium at 1 atm differential.

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

Plotted and Other Data

Notes:

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Hermetically Sealed SMA Female to SMA Female Bulkhead Adapter 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.

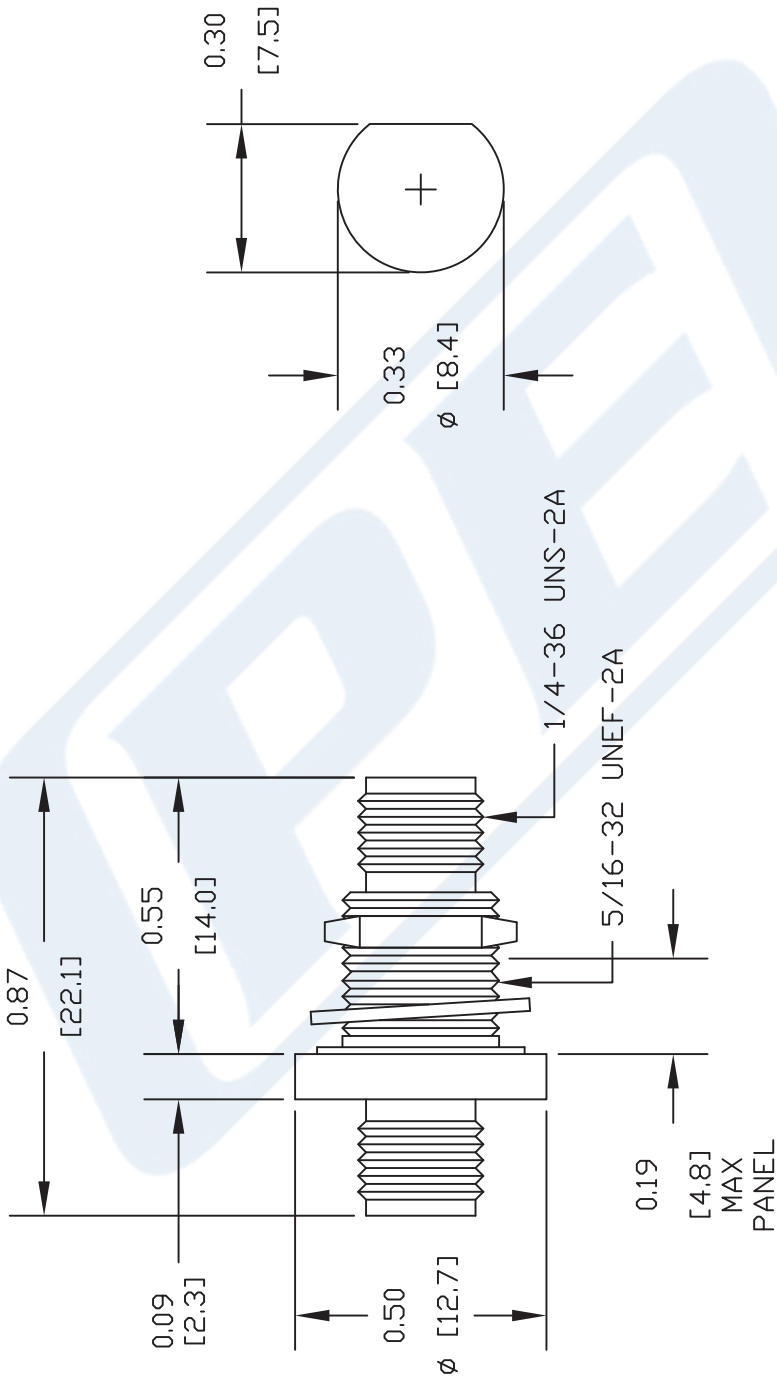
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE9184 CAD Drawing

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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
PE9184

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

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CAD FILE 062403

SCALE N/A

SIZE A

127