

## Hermetically Sealed SMA Female to SMA Female Bulkhead Mount Adapter



### PE9184

#### Configuration

- SMA Female Connector 1
- SMA Female Connector 2
- 50 Ohms Impedance
- 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
- Contact plating according to MIL-G-45204
- Gold Plated Beryllium Copper Contact

#### 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
Impedance		50		Ohms
VSWR			1.4:1	

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

#### Mechanical Specifications

##### Size

Length	0.87 in [22.23 mm]
Width	0.50 in [12.70 mm]
Height	0.50 in [12.70 mm]
Weight	0.05 lbs [22.68 g]

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Description	Connector 1	Connector 2
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 °C

Hermetic Seal

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

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

### Plotted and Other Data

Hermetically Sealed SMA Female to 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: [Hermetically Sealed SMA Female to SMA Female Bulkhead Mount Adapter PE9184](#)

URL: <https://www.pasternack.com/sma-female-sma-female-straight-adapter-pe9184-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE9184 CAD Drawing

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