



## SMA Female to BNC Female Bulkhead Adapter

### RF Adapters Technical Data Sheet

PE9185

#### Configuration

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

#### Features

- SMA Interface compliant with MIL-STD-348
- BNC Interface compliant with MIL-STD-348
- Gold Plated Beryllium Copper Contact
- 30 µin min Gold Contact Plating

#### Applications

- Allows Connection Between Series
- General Purpose Test
- Rack Mounted Equipment

#### Description

Pasternack's PE9185 SMA female to BNC 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 BNC adapter has a female to female gender configuration. PE9185 SMA female to BNC female adapter operates to 4 GHz. This RF SMA to BNC 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		4	GHz
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms

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

#### Mechanical Specifications

Size	
Length	1.32 in [33.53 mm]
Width	0.69 in [17.53 mm]
Weight	0.046 lbs [20.87 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to BNC Female Bulkhead Adapter PE9185](#)



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Description	Connector 1	Connector 2
Type	SMA Female	BNC Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348

#### Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Female		BNC Female	
Contact	Beryllium Copper	Gold 30 µin minimum	Beryllium Copper	Gold 30 µin minimum
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Nickel 150 µin minimum	Brass	Nickel 150 µin 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 Female to BNC 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.

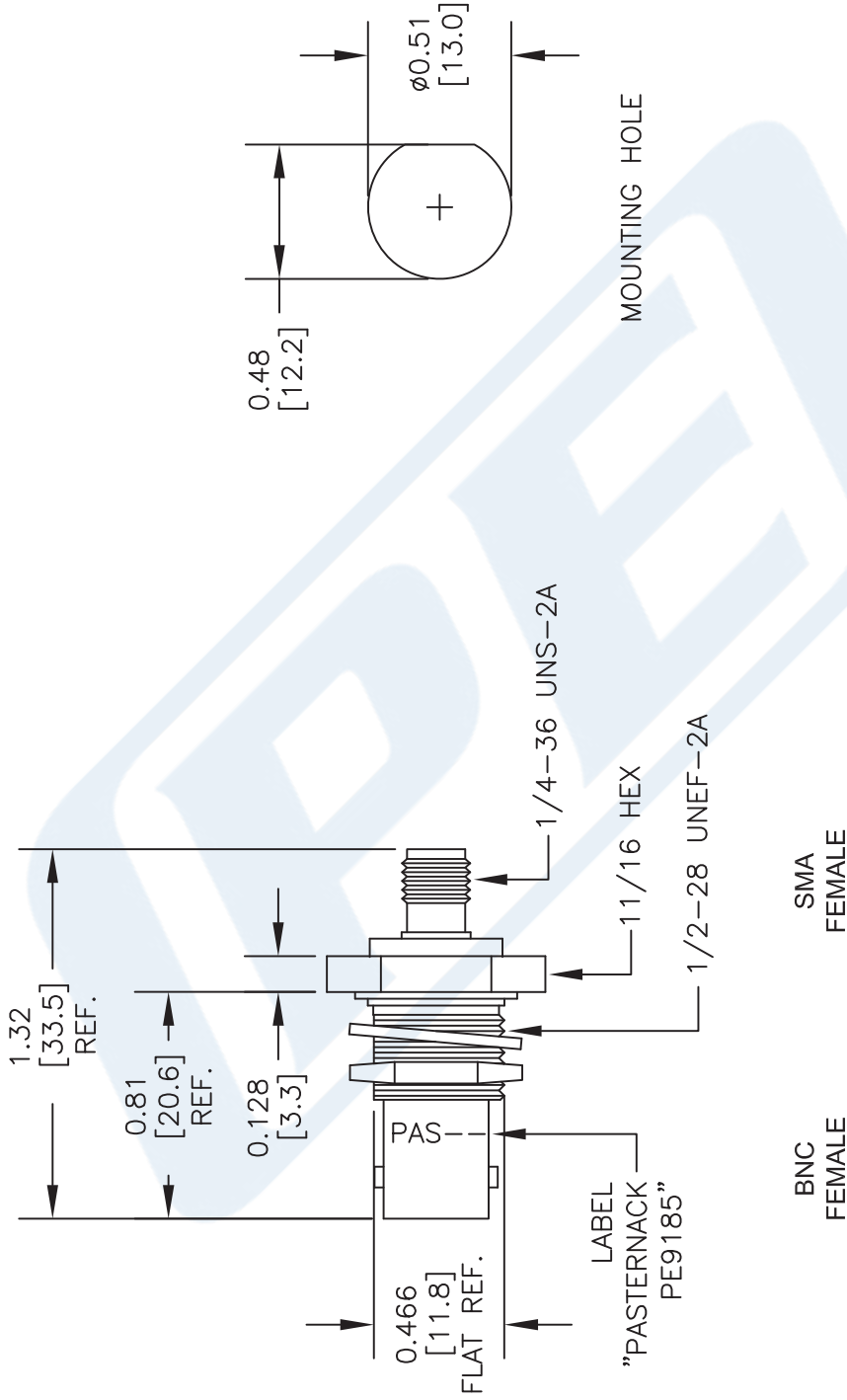
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to BNC Female Bulkhead Adapter PE9185](https://www.pasternack.com/sma-female-bnc-female-straight-adapter-pe9185-p.aspx)

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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.

# PE9185 CAD Drawing

## SMA Female to BNC Female Bulkhead Adapter



**STANDARD TOLERANCES**

.X ±0.2  
 .XX ±0.1  
 .XXX ±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

**PE9185**

FSCM NO. 53919

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).

41742

SIZE A

SCALE N/A

CAD FILE 083116