



Bulkhead Push-On SMA Male to SMA Female Adapter

RF Adapters Technical Data Sheet

PE91321

Configuration

- Push-On 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
- 30 µ-in min Gold Contact Plating

Applications

- General Purpose Test
- Rack Mounted Equipment

Description

Pasternack's PE91321 bulkhead push-on SMA male to SMA female 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. PE91321 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 bulkhead to SMA 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		1.15:1	1.23:1	
Insertion Loss		0.11	0.2	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Bulkhead Push-On SMA Male to SMA Female Adapter PE91321](#)



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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 18				GHz
VSWR, Max	1.12:1	1.23:1				
VSWR, Typ	1.07:1	1.2:1				

Mechanical Specifications

Size

Length	0.795 in [20.19 mm]
Width	0.377 in [9.58 mm]
Weight	0.015 lbs [6.8 g]

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348A	MIL-STD-348A
Mating Cycles	500	500

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	Push-On SMA Male		SMA Female	
Contact	Beryllium Copper	Gold 30 µ-in minimum	Beryllium Copper	Gold 30 µ-in minimum
Insulation	PTFE		PTFE	
Outer Conductor			Beryllium Copper	Gold 3 µ-in minimum
Body	Passivated Stainless Steel			
Coupling Nut	Passivated Stainless Steel			

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C
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Vibration
Salt Spray

MIL-STD-202, Method 204, Condition D
MIL-STD-202, Method 101, Condition B

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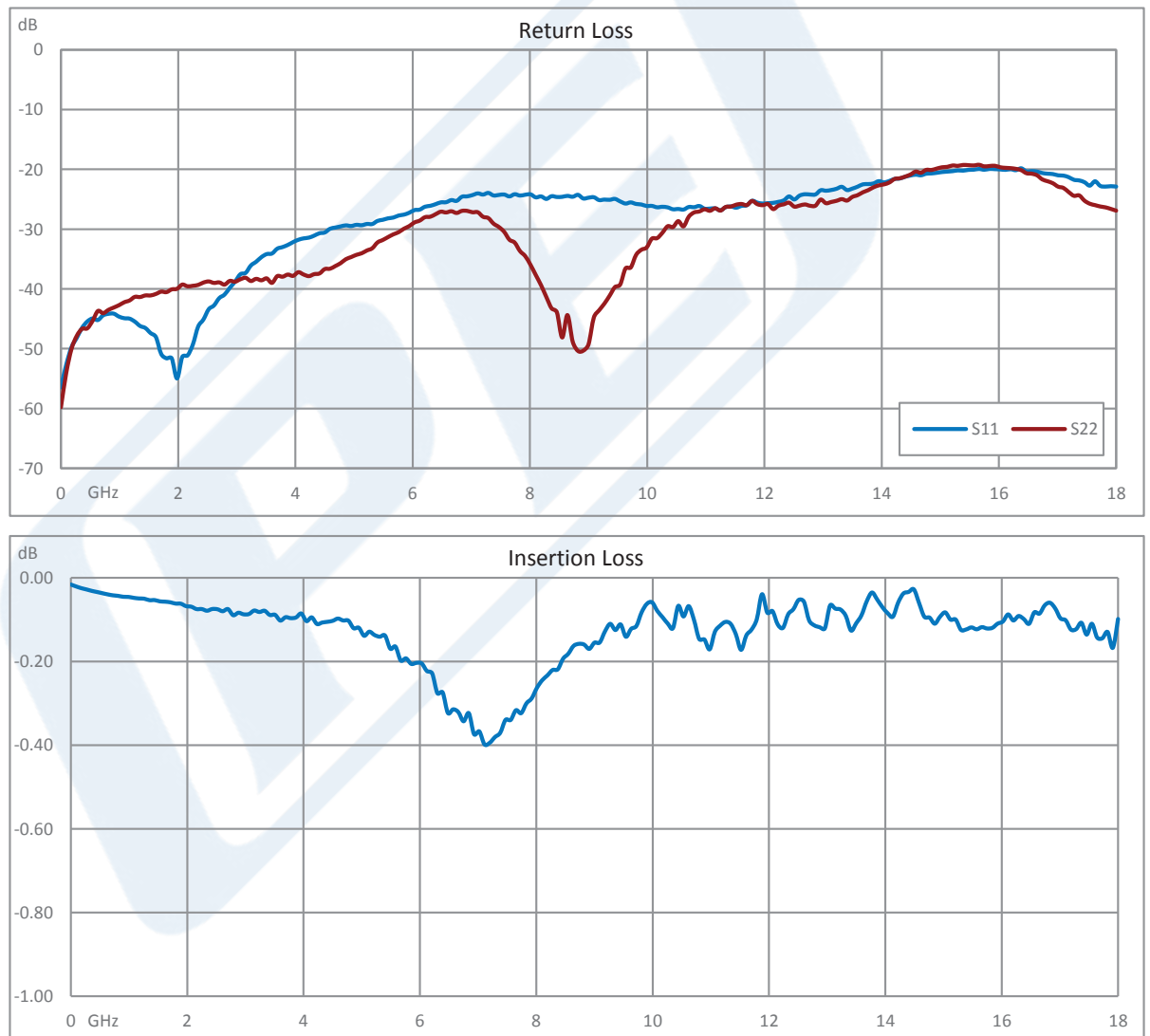
PE91321

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

Plotted and Other Data

Notes:

Typical Performance Data



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Bulkhead Push-On SMA Male to SMA Female 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.

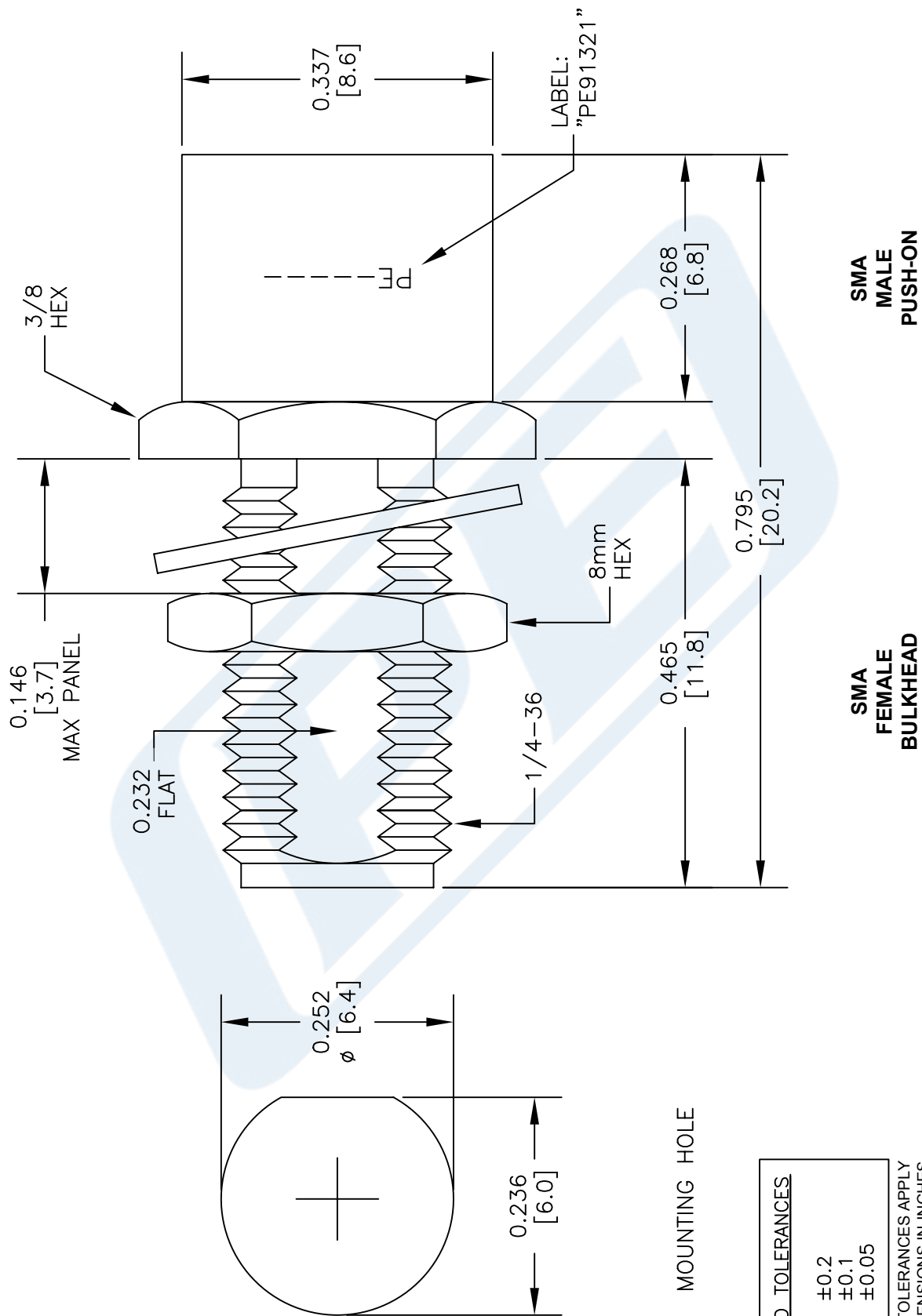
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Bulkhead Push-On SMA Male to SMA Female Adapter PE91321](https://www.pasternack.com/sma-male-sma-female-straight-adapter-pe91321-p.aspx)

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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.

PE91321 CAD Drawing

Bulkhead Push-On SMA Male to SMA Female Adapter



STANDARD TOLERANCES

.X ± 0.2
.XX ± 0.1
.XXX ± 0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

PE PASTERNAK®
THE ENGINEER'S RF SOURCE

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DWG TITLE

PE91321

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].

FSCM NO. 53919

CAD FILE 040116

SCALE N/A

SIZE A

3045