



## SMA Male to SMA Female Adapter

### RF Adapters Technical Data Sheet

PE9103

#### Configuration

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

#### Features

- Max VSWR of 1.25:1 up to 18 GHz
- SMA Interface compliant with MIL-STD-348
- Gold over Nickel Plated Beryllium Copper Contact
- Contact Plating per MIL-G-45204
- Epoxy captivation

#### Applications

- Connector Saver
- General Purpose Test

#### Description

Pasternack's PE9103 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. PE9103 SMA male to SMA female adapter operates to 18 GHz. The Pasternack RF adapter provides excellent VSWR of 1.25:1 maximum. The PE9103 Pasternack RF adapter can also be used as a connector saver to extend equipment life.

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			1.25:1	
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms

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

#### Mechanical Specifications

Size	
Length	0.71 in [18.03 mm]
Width	0.312 in [7.92 mm]
Weight	0.008 lbs [3.63 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 Adapter PE9103](#)



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Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348
Contact Captivation Method	Epoxy	Epoxy
Hex Size	5/16 in.	
Mating Torque	7 to 10 in-lbs [0.79 to 1.13 Nm]	

#### Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Male		SMA Female	
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PTFE		PTFE	
Outer Conductor			Passivated Stainless Steel	QQ-P-35
Body	Passivated Stainless Steel	QQ-P-35		
Coupling Nut	Passivated Stainless Steel	QQ-P-35		

#### 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 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.

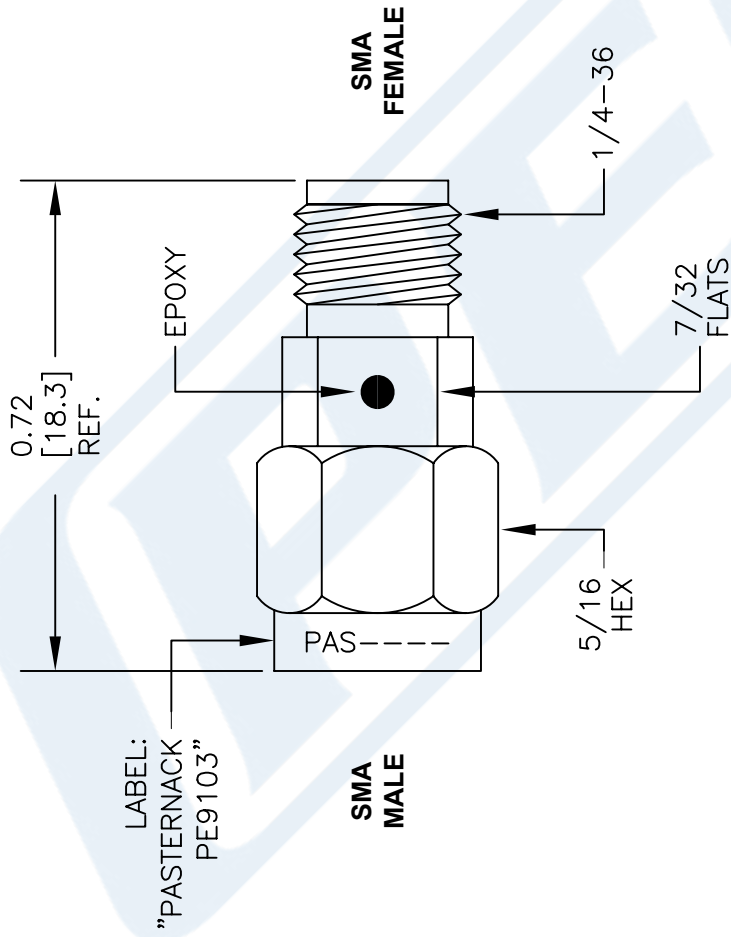
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Female Adapter PE9103](https://www.pasternack.com/sma-male-sma-female-straight-adapter-pe9103-p.aspx)

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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.

# PE9103 CAD Drawing

## SMA Male to SMA Female Adapter



### STANDARD TOLERANCES

DECIMAL ±0.02  
.XX ±0.005  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE

**PE9103**

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].

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SCALE N/A

SIZE A

3045