



50 Ohm SMA Male to 75 Ohm F Female Adapter

RF Adapters Technical Data Sheet

PE91003

Configuration

- SMA Male Connector 1
- F Female Connector 2
- 50 Ohms, 75 Ohms
- Straight Body Geometry

Features

- Max VSWR of 1.5:1 up to 500 MHz
- SMA Interface compliant with MIL-STD-348
- F Interface compliant with MIL-C-39012
- Gold over Nickel Plated Contact
- Contact Plating per MIL-G-45204

Applications

- Allows Connection Between Series
- General Purpose Test

Description

Pasternack's PE91003 50 ohm SMA male to 75 ohm type F 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 type F adapter has a male to female gender configuration. PE91003 SMA male to type F female adapter operates to 500 MHz. The Pasternack RF adapter provides good VSWR of 1.5:1 maximum.

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		500	MHz
VSWR			1.5:1	

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

Mechanical Specifications

Size	
Length	1.07 in [27.18 mm]
Width	0.375 in [9.53 mm]
Weight	0.017 lbs [7.71 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm SMA Male to 75 Ohm F Female Adapter PE91003](#)



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Description	Connector 1	Connector 2
Type	SMA Male	F Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-C-39012
Hex Size	5/16 in.	
Mating Torque	3 to 5 in-lbs [0.34 to 0.57 Nm]	

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Male		F Female	
Contact	Brass	Gold over Nickel MIL-G-45204	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PTFE		PTFE	
Outer Conductor			Brass	Nickel QQ-N-290
Body	Brass	Nickel QQ-N-290		
Coupling Nut	Brass	Nickel QQ-N-290		

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

50 Ohm SMA Male to 75 Ohm F 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.

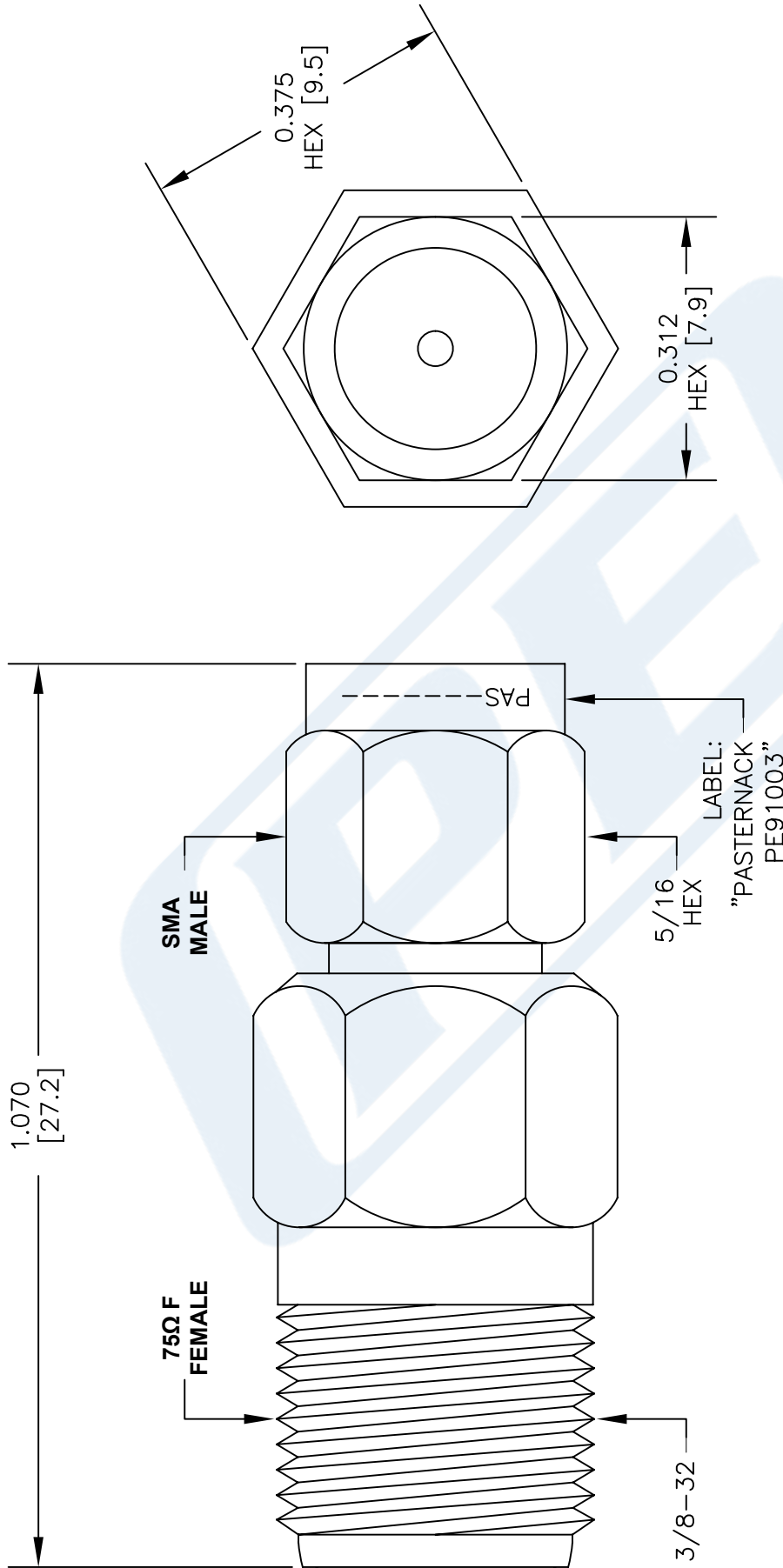
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URL: <https://www.pasternack.com/sma-male-f-female-straight-adapter-pe91003-p.aspx>

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.

PE91003 CAD Drawing

50 Ohm SMA Male to 75 Ohm F Female Adapter



STANDARD TOLERANCES	
DECIMAL	±0.02
.XX	±0.005
.XXX	±0.0005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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
PE91003

FSCM NO. **53919**

CAD FILE 061116 SCALE N/A SIZE A 3045

PE PASTERNAK
 THE ENGINEER'S RF SOURCE

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