



## 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 Ohm, 75 Ohm
- Straight Body Geometry

#### Features

- SMA interface compliant with MIL-STD-348
- Type F interface compliant with MIL-C-39012
- Contact plating according to 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 2 GHz.

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		2	GHz
Operating Voltage (AC)			500	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	1.07 in [27.18 mm]
Width	0.375 in [9.53 mm]
Weight	0.0199 lbs [9.03 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]	

Mechanical Specification Notes:  
Not all "F" type connectors will mate with all "F" type connectors

#### 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		

#### 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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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 99.4% availability and are part of the broadest selection in the industry.

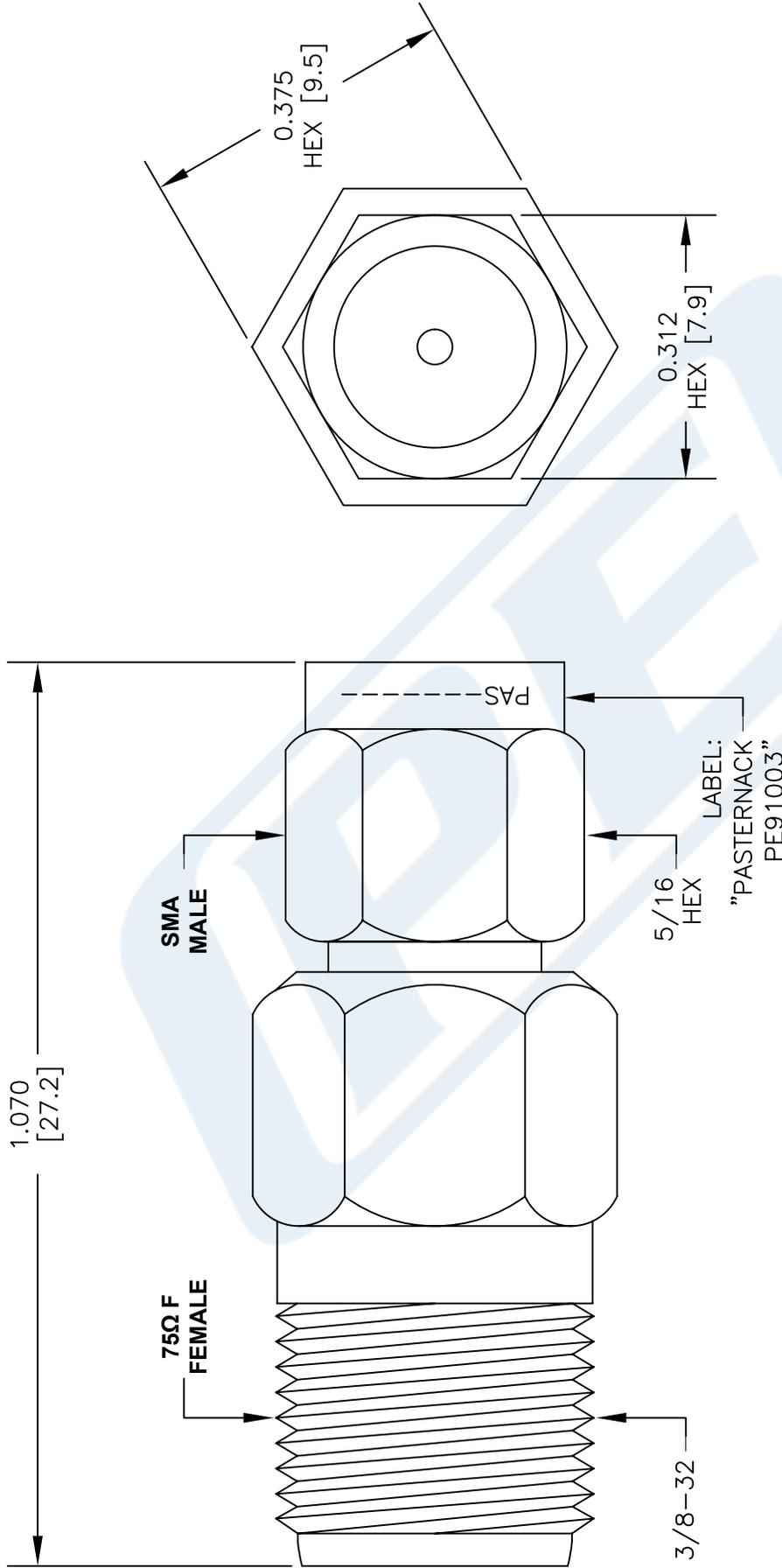
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm SMA Male to 75 Ohm F Female Adapter PE91003](#)

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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