



## Low PIM SMA Female to 7/16 DIN Female Adapter Low VSWR

### RF Adapters Technical Data Sheet

PE91042

#### Configuration

- SMA Female Connector 1
- 7/16 DIN Female Connector 2
- 50 Ohms
- Low PIM Design
- Straight Body Geometry

#### Features

- Max Return Loss of -18 dB up to 8 GHz
- PIM levels lower than -170 dBc
- SMA Interface compliant with MIL-STD-348
- 7/16 DIN Interface compliant with IEC 169-4
- Gold Plated Beryllium Copper Contact
- 30 µin min Gold Contact Plating

#### Applications

- Allows Connection Between Series
- General Purpose Test

#### Description

Pasternack's PE91042 Low PIM SMA female to 7/16 DIN 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 7/16 DIN adapter has a female to female gender configuration in a Low PIM design. PE91042 SMA female to 7/16 DIN female adapter operates to 8 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		8	GHz
Return Loss			-18	dB
Passive Intermodulation			-170	dBc
Dielectric Withstanding Voltage (AC)			1,000	Vrms

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 5	5 to 8			GHz
Return Loss, Max	-32	-20	-18			dB

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM SMA Female to 7/16 DIN Female Adapter Low VSWR PE91042](#)



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**Mechanical Specifications**

**Size**

Length	1.32 in [33.53 mm]
Width	1.142 in [29.01 mm]
Weight	0.17 lbs [77.11 g]

Description	Connector 1	Connector 2
Type	SMA Female	7/16 DIN Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	IEC 169-4 (0.232 dia. Enhancement)
Mating Cycles	100	500

**Material Specifications**

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Female		7/16 DIN Female	
Contact	Beryllium Copper	Gold 30 µin minimum	Beryllium Copper	Gold 30 µin minimum
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Tri-Metal 100 µin minimum	Brass	Tri-Metal 100 µin minimum

**Environmental Specifications**

**Temperature**

Operating Range	-55 to +155 deg C
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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

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Low PIM SMA Female to 7/16 DIN Female Adapter Low VSWR 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.

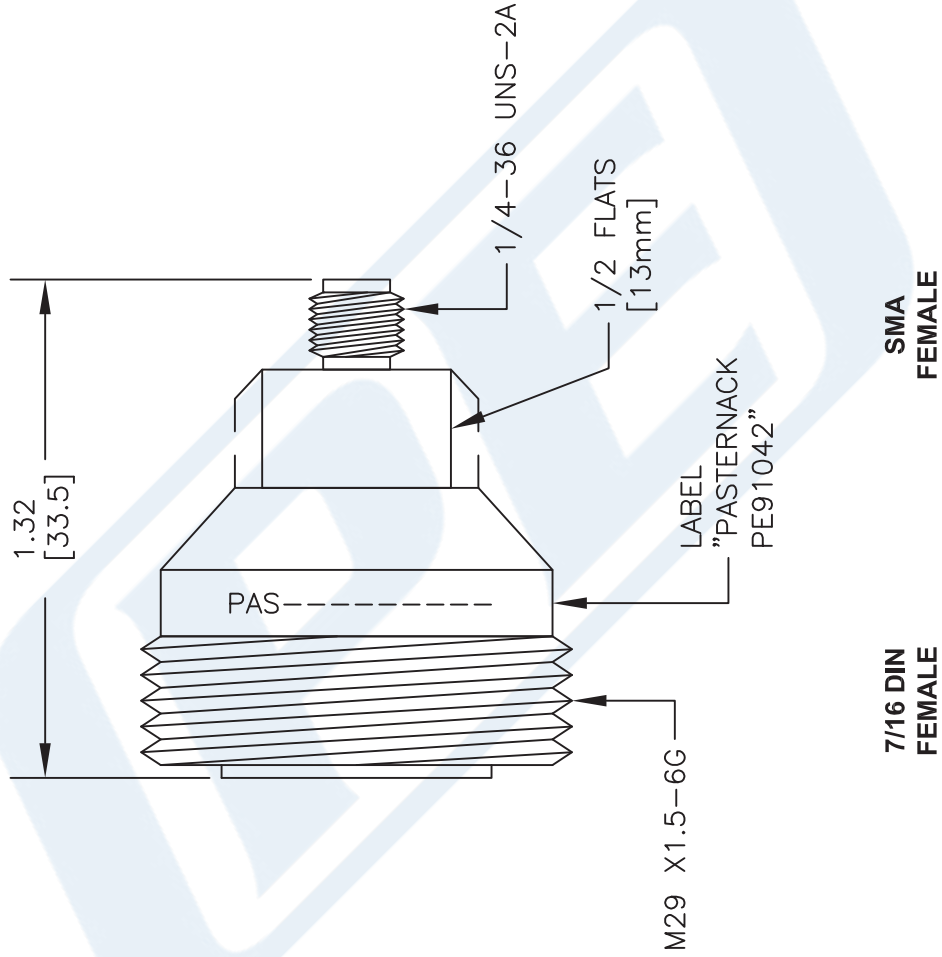
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM SMA Female to 7/16 DIN Female Adapter Low VSWR PE91042](#)

URL: <https://www.pasternack.com/sma-female-7-16-female-straight-adapter-pe91042-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.

# PE91042 CAD Drawing

Low PIM SMA Female to 7/16 DIN Female Adapter Low VSWR



### STANDARD TOLERANCES

.X ±0.2  
.XX ±0.1  
.XXX ±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

DWG TITLE

**PE91042**

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].

CAD FILE 083016

SCALE N/A

SIZE A

41742