



## Low PIM N Female to 7/16 DIN Male Adapter Low VSWR

### RF Adapters Technical Data Sheet

PE91031

#### Configuration

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

#### Features

- Max Return Loss of -20 dB up to 8 GHz
- PIM levels lower than -168 dBc
- N Interface compliant with MIL-STD-348
- 7/16 DIN Interface compliant with IEC 169-4
- Silver Plated Contact
- 200 µin min Silver Contact Plating

#### Applications

- Allows Connection Between Series
- General Purpose Test

#### Description

Pasternack's PE91031 Low PIM type N female to 7/16 DIN male adapter is part of our full line of RF components available for same-day shipping. Our type N to 7/16 DIN adapter has a female to male gender configuration in a Low PIM design. PE91031 type N female to 7/16 DIN male 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			-20	dB
Passive Intermodulation			-168	dBc
Dielectric Withstanding Voltage (AC)			1,000	Vrms

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1	1 to 4	4 to 8			GHz
Return Loss, Max	-36	-25	-20			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 N Female to 7/16 DIN Male Adapter Low VSWR PE91031](#)



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### Mechanical Specifications

**Size**

Length	2.27 in [57.66 mm]
Width	1.25 in [31.75 mm]
Weight	0.31 lbs [140.61 g]

Description	Connector 1	Connector 2
Type	N Female	7/16 DIN Male
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	IEC 169-4 (0.232 dia. Enhancement)
Mating Cycles	500	500
Hex Size		1 1/2 in.
Mating Torque		221 to 265 in-lbs [24.97 to 29.95 Nm]

### Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	N Female		7/16 DIN Male	
Contact	Beryllium Copper	Silver 200 µin minimum	Brass	Silver 200 µin minimum
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Tri-Metal 100 µin minimum		
Body			Brass	Tri-Metal 100 µin minimum
Coupling Nut			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:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM N Female to 7/16 DIN Male Adapter Low VSWR PE91031](#)





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Low PIM N Female to 7/16 DIN Male 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.

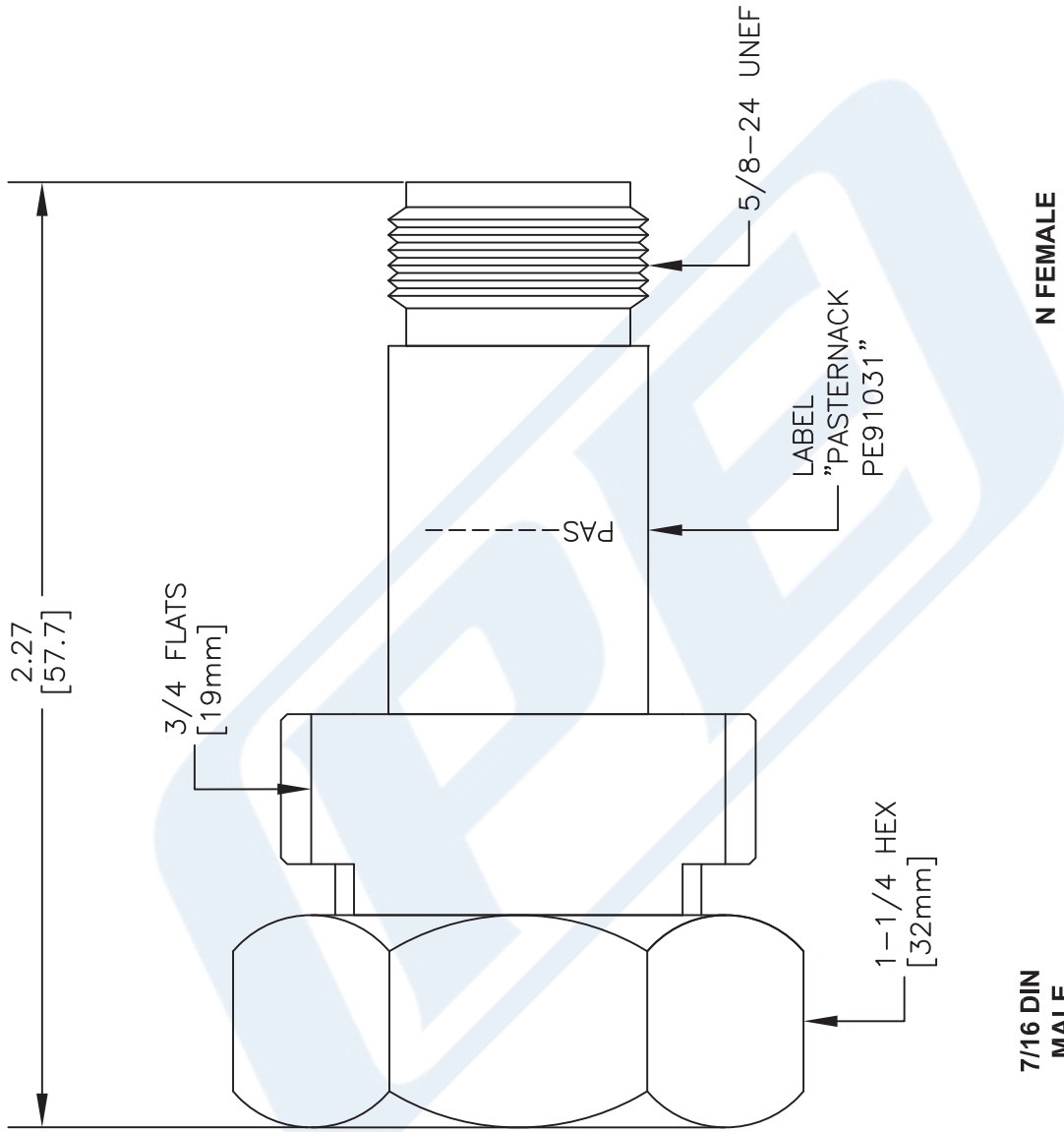
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM N Female to 7/16 DIN Male Adapter Low VSWR PE91031](https://www.pasternack.com/n-female-7-16-male-straight-adapter-pe91031-p.aspx)

URL: <https://www.pasternack.com/n-female-7-16-male-straight-adapter-pe91031-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.

# PE91031 CAD Drawing

Low PIM N Female to 7/16 DIN Male Adapter Low VSWR



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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 THE ENGINEER'S RF SOURCE  
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DWG TITLE  
**PE91031**  
 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