



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

### RF Adapters Technical Data Sheet

PE9180

#### Configuration

- N Female Connector 1
- 7/16 DIN Female 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 -165 dBc
- N Interface compliant with MIL-STD-348
- 7/16 DIN Interface compliant with IEC 169-4
- Gold over Nickel Plated Beryllium Copper Contact
- 30 µin min Gold over Nickel Contact Plating

#### Applications

- Allows Connection Between Series
- General Purpose Test

#### Description

Pasternack's PE9180 Low PIM type N female to 7/16 DIN female 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 female gender configuration in a Low PIM design. PE9180 type N 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			-20	dB
Passive Intermodulation			-165	dBc
Operating Voltage (AC)			1,000	Vrms
Dielectric Withstanding Voltage (AC)			2,500	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:

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 Female Adapter PE9180](#)



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Values at 25°C, sea level.

#### Mechanical Specifications

##### Size

Length	1.95 in [49.53 mm]
Width	1.14 in [28.96 mm]
Weight	0.233 lbs [105.69 g]

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

#### Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	N Female		7/16 DIN Female	
Contact	Beryllium Copper	Gold over Nickel 30 µin minimum	Beryllium Copper	Gold over Nickel 30 µin minimum
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Nickel 150 µin minimum	Brass	Nickel 150 µin minimum

#### Environmental Specifications

##### Temperature

Operating Range	-40 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 N Female to 7/16 DIN 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.

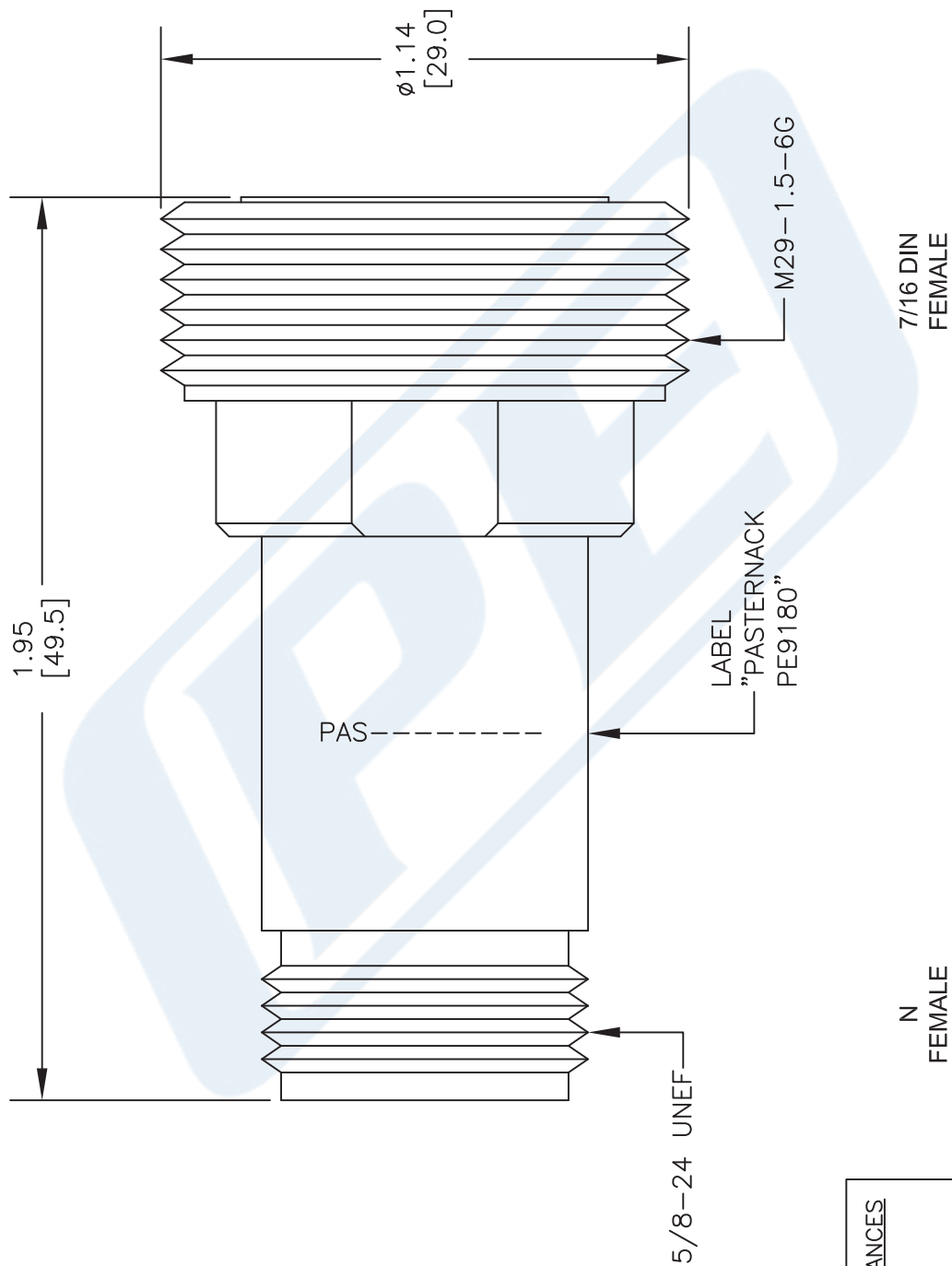
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM N Female to 7/16 DIN Female Adapter PE9180](https://www.pasternack.com/n-female-7-16-din-female-straight-adapter-pe9180-p.aspx)

URL: <https://www.pasternack.com/n-female-7-16-din-female-straight-adapter-pe9180-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.

PE9180 CAD Drawing

Low PIM N Female to 7/16 DIN Female Adapter



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

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE9180

FSCM NO. 53919

CAD FILE 083016

SCALE N/A

SIZE A

41742

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].