



## N Male Right Angle Precision Connector Clamp/ Solder Attachment for PE-P142LL

### RF Connectors Technical Data Sheet

PE44816

#### Configuration

- N Male Connector
- 50 Ohms
- Right Angle Body Geometry
- PE-P142LL Interface Type
- Clamp/Solder Attachment
- 3/4 inch Hex
- Precision Design

#### Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.16:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

#### Applications

- General Purpose Test
- Precision Test & Measurement
- Custom Cable Assemblies

#### Description

Pasternack's PE44816 type N male right angle connector with clamp/solder attachment for PE-P142LL is part of our full line of RF components available for same-day shipping. Our type N male connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.16:1. Its right angle body geometry allows for easier connections in tight spaces.

Our type N male right angle connector PE44816 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.16:1	
Insertion Loss			0.43	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
High Potential Voltage 5 to 7.5 MHz			500	Vrms
Corona Discharge at 70,000 ft			190	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	90			dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle Precision Connector Clamp/Solder Attachment for PE-P142LL PE44816](#)



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Electrical Specification Notes:  
 Insertion loss: 0.1 x sqrt(fGHz) dB max.  
 RF leakage: 90 dB min up to 1 GHz.

### Mechanical Specifications

**Size**

Length	1.2 in [30.48 mm]
Width/Dia.	1.14 in [28.96 mm]
Height	0.82 in [20.83 mm]
Weight	0.101 lbs [45.81 g]
Mating Cycles	500 Cycles
Mating Torque	12 to 15 in-lbs [1.36 to 1.70 Nm]

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PTFE	
Body	Passivated Stainless Steel	SAE-AMS-2700
Coupling Nut	Passivated Stainless Steel	SAE-AMS-2700

### Environmental Specifications

**Temperature**

Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method 106, No Vibration
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition D
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B (5%)

**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: [N Male Right Angle Precision Connector Clamp/Solder Attachment for PE-P142LL PE44816](#)

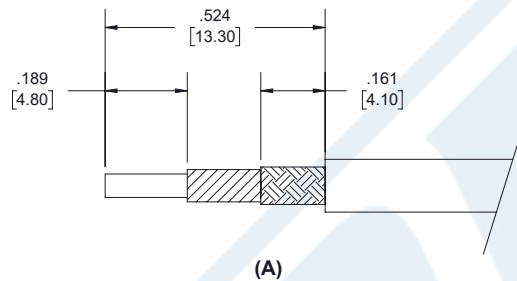


N Male Right Angle Precision Connector Clamp/  
Solder Attachment for PE-P142LL

RF Connectors  
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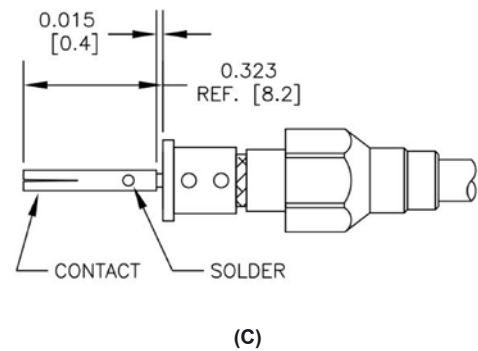
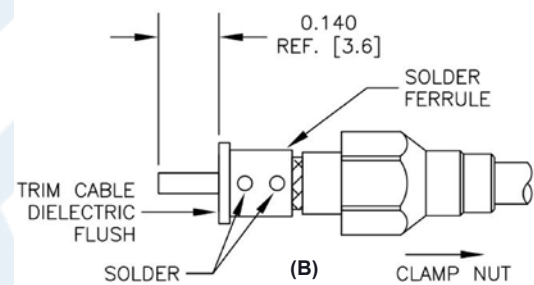
PE44816

Assembly Instruction



ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN (A). DO NOT NICK DIELECTRIC.
2. SLIDE CLAMP NUT OVER CABLE AS SHOWN (B). INSERT CABLE INTO SOLDER FERRULE UNTIL FWD BRAID SEATS THEN SOLDER BOTH CABLE BRAIDS WHERE SHOWN. TRIM CABLE DIELECTRIC FLUSH TO SOLDER FERRULE.
3. SOLDER CONTACT WITH GAP INDICATED AS SHOWN IN (C)
4. SCREW ASSEMBLY INTO BODY & TIGHTEN NUT.



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N Male Right Angle Precision Connector Clamp/Solder Attachment for PE-P142LL 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.

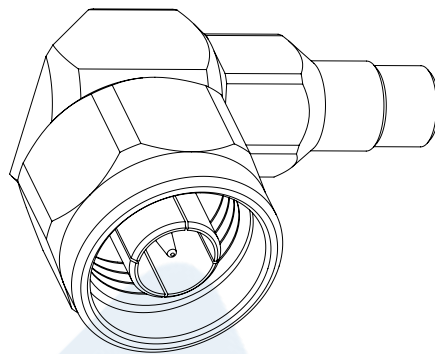
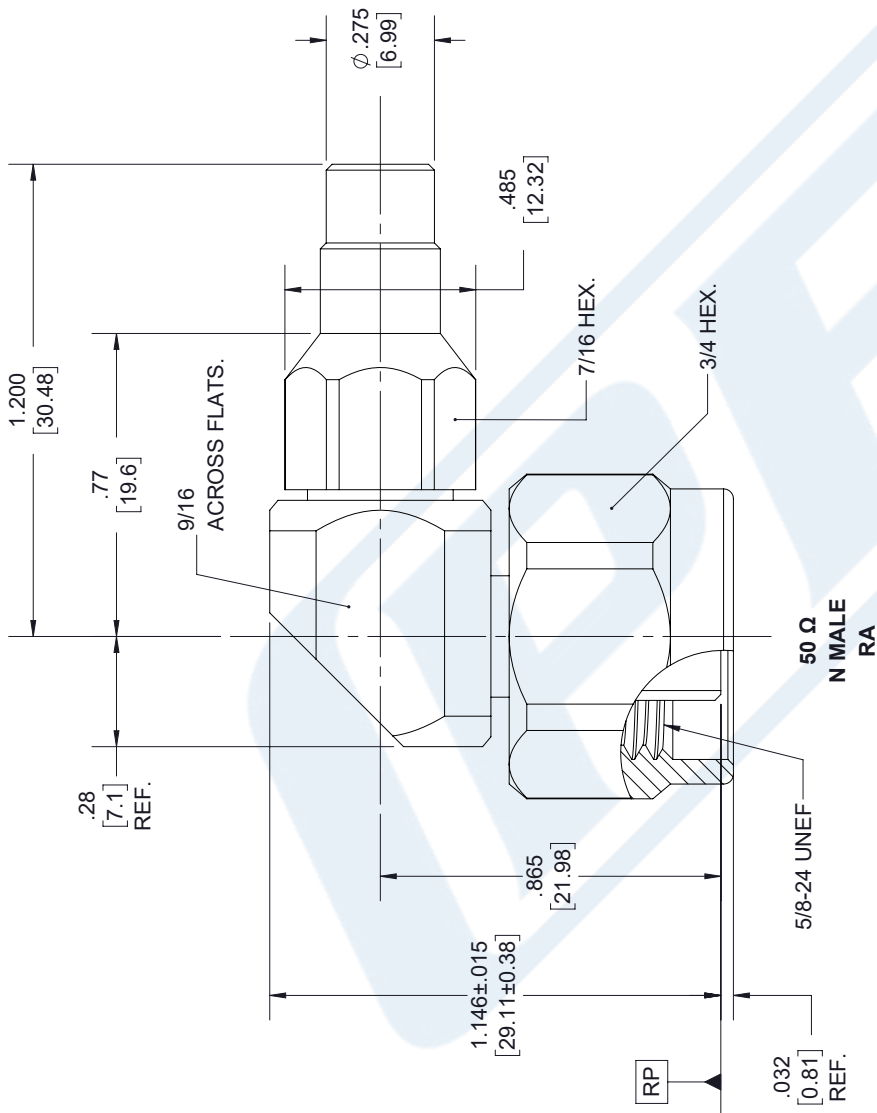
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle Precision Connector Clamp/Solder Attachment for PE-P142LL PE44816](https://www.pasternack.com/n-male-pe-p142ll-connector-pe44816-p.aspx)

URL: <https://www.pasternack.com/n-male-pe-p142ll-connector-pe44816-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.

# PE44816 CAD Drawing

N Male Right Angle Precision Connector Clamp/Solder Attachment for PE-P142LL



## STANDARD TOLERANCES

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE44816

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].

CAGE CODE 53919

CAD FILE 11/28/18

SCALE N/A

SIZE A

7361