



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

### RF Connectors Technical Data Sheet

PE44825

#### Configuration

- N Male Connector
- 50 Ohms
- Straight 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 PE44825 type N male 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.

Our type N male connector PE44825 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			0.22	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
High Potential Voltage 5 to 7.5 MHz			670	Vrms
Corona Discharge at 70,000 ft			250	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 Precision Connector Clamp/Solder Attachment for PE-P142LL PE44825](#)



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Electrical Specification Notes:  
Insertion loss:  $0.05 \times \sqrt{f(\text{GHz})}$  dB max.  
RF leakage: 90 dB min up to 1 GHz.

#### Mechanical Specifications

<b>Size</b>	
Length	1.26 in [32 mm]
Width/Dia.	0.822 in [20.88 mm]
Weight	0.056 lbs [25.4 g]
Mating Cycles	500 Cycles
Mating Torque	19 to 21 in-lbs [2.15 to 2.37 Nm]

#### Material Specifications

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

#### Environmental Specifications

<b>Temperature</b>	
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:

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

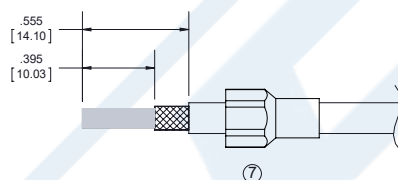
### RF Connectors Technical Data Sheet

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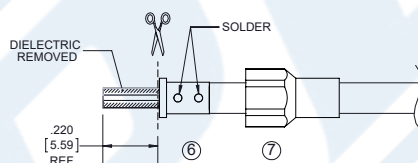
#### Assembly Instruction

#### ASSEMBLY PROCEDURES

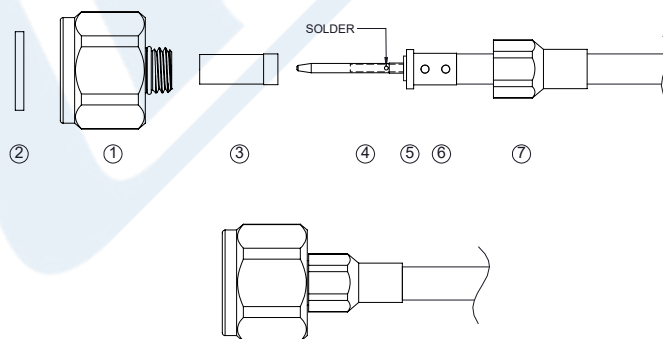
1. SLIDE CLAMP NUT (7) OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET.



2. INSERT CABLE INTO SOLDER FERRULE (6) UNTIL CABLE STOP THEN SOLDER BOTH CABLE BRAIDS WHERE SHOWN. USING BLADES TO CUT DIELECTRIC FLUSH WITH FACE OF FERRULE. DO NOT NICK CENTER CONDUCTOR.



3. INSERT SPACER (5) AND CONTACT (4) INTO CALBE ASSEMBLY UNTIL STOP AND SOLDER CONTACT (4) TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. SLIDE INSULATOR (3) OVER CONTACT THEN INSERT CABLE ASSEMBLY INTO BODY (1) & TIGHTEN. INSERT RUBBER GASKER (2) INTO BODY COUPLING (1).



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Precision Connector Clamp/Solder Attachment for PE-P142LL PE44825](#)



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N Male 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 Precision Connector Clamp/Solder Attachment for PE-P142LL PE44825](#)

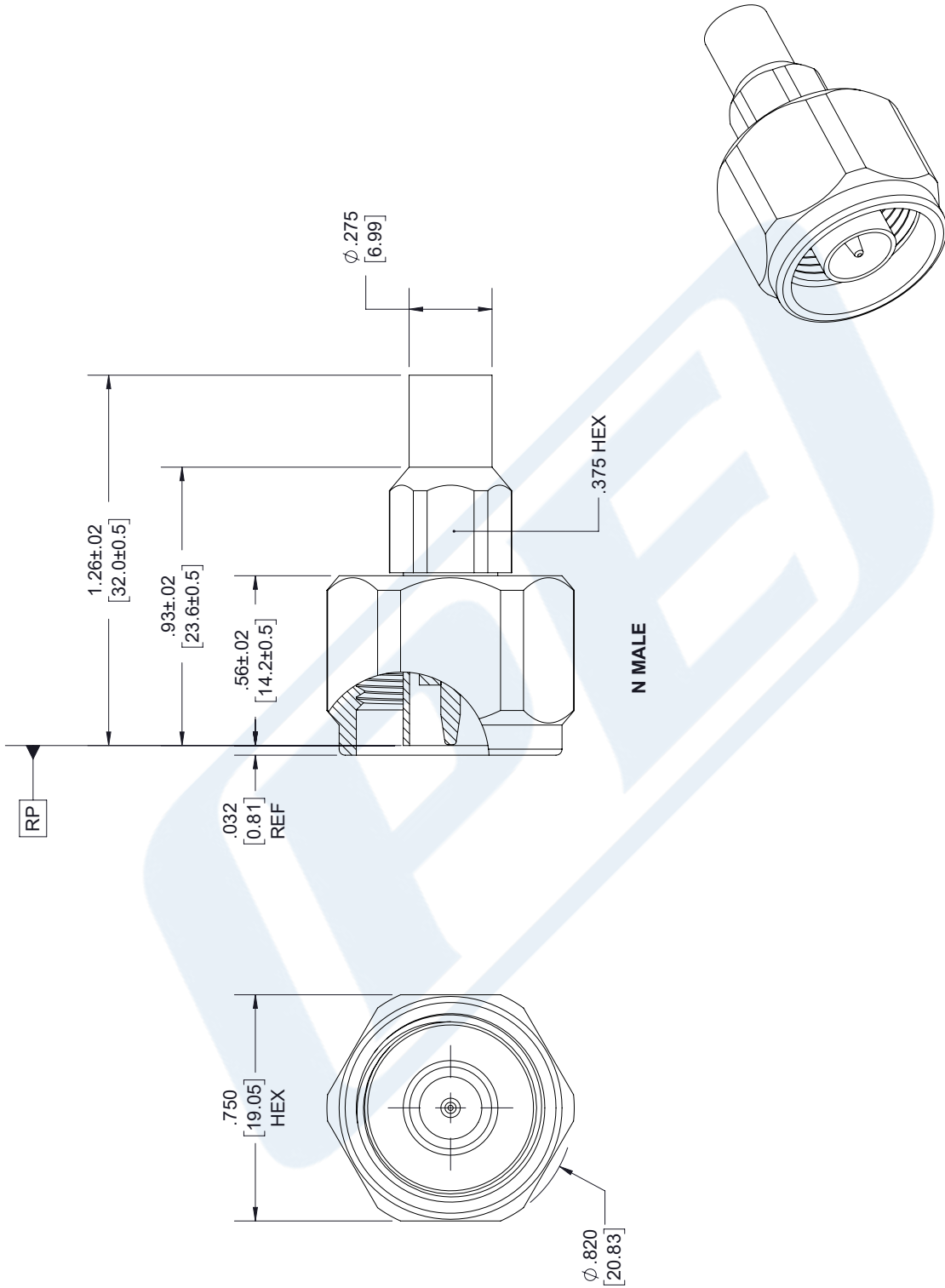
URL: <https://www.pasternack.com/n-male-pe-p142ll-connector-pe44825-p.aspx>

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.

# PE44825 CAD Drawing

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

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1.4	PCR PE44825 20190307	03/15/19	J.GARCIA



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE IN MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
.XX±.01 [.25]	±.132
.XXX±.005 [.13]	±.132
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	



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SHEET 1 OF 2

SCALE N/A

REV 1.4

SIZE A CAGE 53919 DRAWN BY K.DANG PART NUMBER PE44825

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