



N Female Bulkhead Mount Precision Connector Clamp/Solder Attachment for PE-P142LL

RF Connectors Technical Data Sheet

PE44813

Configuration

- N Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- PE-P142LL Interface Type
- Clamp/Solder Attachment
- Bulkhead
- Precision Design

Features

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

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Precision Test & Measurement
- Custom Cable Assemblies

Description

Pasternack's PE44813 type N female bulkhead precision 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 female connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.16:1. This type N bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our type N female bulkhead connector PE44813 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	
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 Female Bulkhead Mount Precision Connector Clamp/Solder Attachment for PE-P142LL PE44813](#)



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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 12.4	12.4 to 18				GHz
VSWR, Max	1.14:1	1.16:1				

Electrical Specification Notes:
Insertion loss: $0.04 \times \sqrt{f(\text{GHz})}$ dB max.

Mechanical Specifications

Size

Length	1.62 in [41.15 mm]
Width/Dia.	0.875 in [22.23 mm]
Weight	0.092 lbs [41.73 g]
Mating Cycles	500 Cycles
Mating Torque	20 to 25 in-lbs [2.26 to 2.83 Nm]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PEI	
Body	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%)

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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

N Female Bulkhead Mount 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% availability and are part of the broadest selection in the industry.

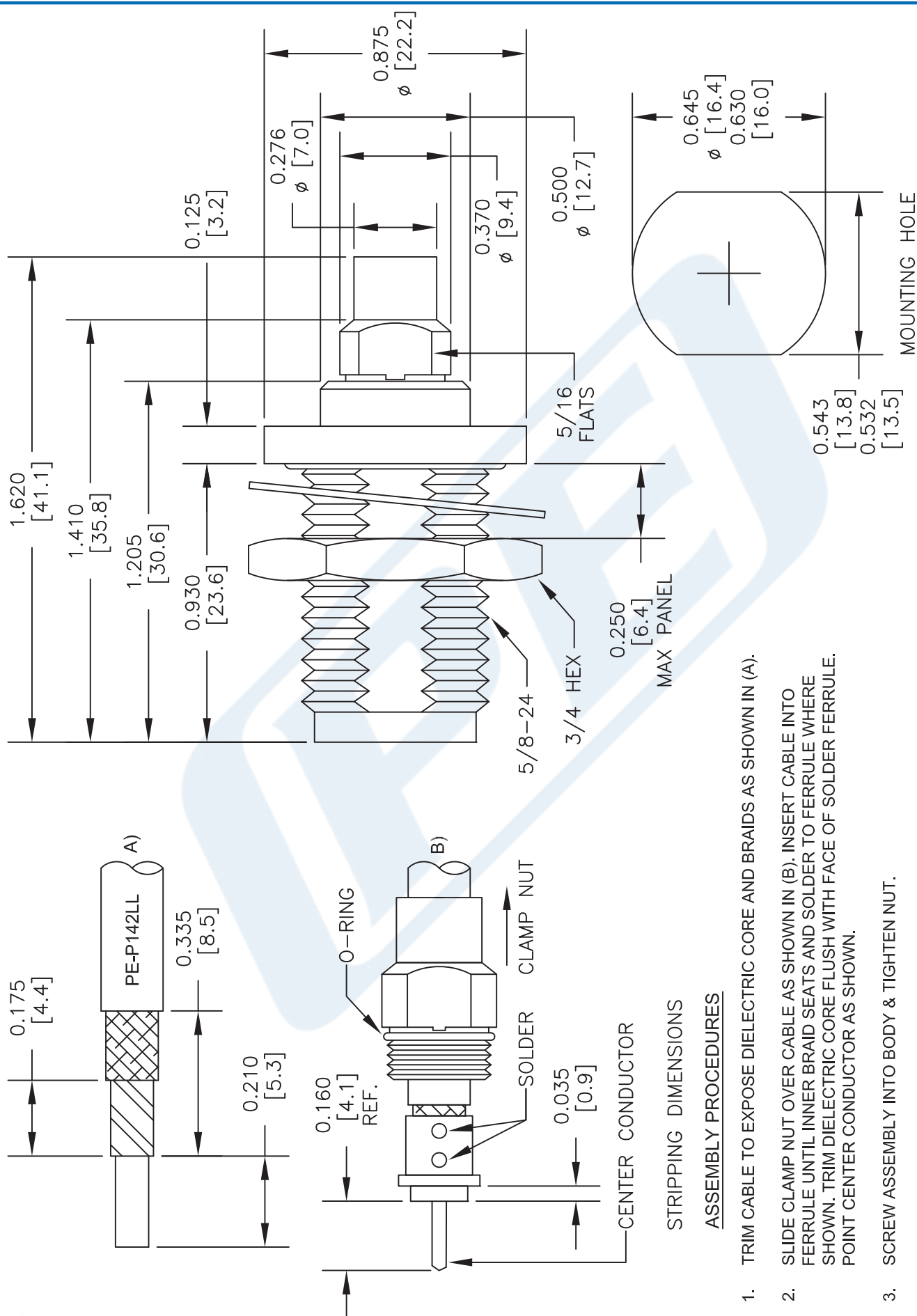
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead Mount Precision Connector Clamp/Solder Attachment for PE-P142LL PE44813](#)

URL: <https://www.pasternack.com/n-female-pe-p142ll-connector-pe44813-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.

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1. TRIM CABLE TO EXPOSE DIELECTRIC CORE AND BRAIDS AS SHOWN IN (A).
2. SLIDE CLAMP NUT OVER CABLE AS SHOWN IN (B). INSERT CABLE INTO FERRULE UNTIL INNER BRAID SEATS AND SOLDER TO FERRULE WHERE SHOWN. TRIM DIELECTRIC CORE FLUSH WITH FACE OF SOLDER FERRULE. POINT CENTER CONDUCTOR AS SHOWN.
3. SCREW ASSEMBLY INTO BODY & TIGHTEN NUT.

DWG TITLE

PE44813

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].

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SCALE N/A

SIZE A

2233