



**N Female Low PIM Connector Clamp/Non-Solder
Contact Attachment for PE-1/2FAC, 1/2 inch
Flexible, 1/2 inch Annular, IP67 Rated**

RF Connectors Technical Data Sheet

PE44737

Configuration

- N Female Connector
- IEC 60169-16
- 50 Ohms
- Straight Body Geometry
- PE-1/2FAC, 1/2 inch Flexible, 1/2 inch Annular Interface Type
- Clamp/Non-Solder Contact Attachment
- Low PIM Design

Features

- Max. Operating Frequency 3.6 GHz
- Excellent VSWR of 1.1:1
- PIM levels lower than -160 dBc
- Silver Plated Spring Copper Contact
- 5 µm minimum contact plating
- IP67 Rated

Applications

- General Purpose Test
- Custom Cable Assemblies
- Wireless Communications
- Low PIM Applications

Description

Pasternack's PE44737 type N female low PIM connector with clamp/non-solder contact attachment for PE-1/2FAC, 1/2 inch Flexible and 1/2 inch Annular 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 3.6 GHz and offers excellent VSWR of 1.1:1. The type N female connector also has low passive intermodulation of -160 dBc. The connector has an IP67 rating to protect against dust and temporary moisture protection under immersion conditions.

Our type N female connector PE44737 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		3.6	GHz
VSWR			1.1:1	
Passive Intermodulation using 2x20W tones			-160	dBc
Operating Voltage (DC)			1,700	Vdc
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Inner Conductor DC Resistance			0.8	mOhms
Outer Conductor DC Resistance			0.4	mOhms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Low PIM Connector Clamp/Non-Solder Contact Attachment for PE-1/2FAC, 1/2 inch Flexible, 1/2 inch Annular, IP67 Rated PE44737](#)



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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3					GHz
Insertion Loss, Max	0.1					dB

Mechanical Specifications

Size

Length	2.38 in [60.45 mm]
Width/Dia.	0.85 in [21.59 mm]
Weight	0.225 lbs [102.06 g]
Mating Cycles	500 Cycles

Material Specifications

Description	Material	Plating
Contact	Spring Copper	Silver 5 µm minimum
Insulation	PTFE	
Outer Conductor	Brass	Nickel 5 µm minimum
Body	Brass	Tri-Metal 2 µm minimum

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Ingress Protection (IP) Rating	IP67 Rated
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6-Fc
Thermal Shock	IEC 60068-2-14-Na

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

Plotted and Other Data

Notes:

N Female Low PIM Connector Clamp/Non-Solder Contact Attachment for PE-1/2FAC, 1/2 inch Flexible, 1/2 inch Annular, IP67 Rated 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.

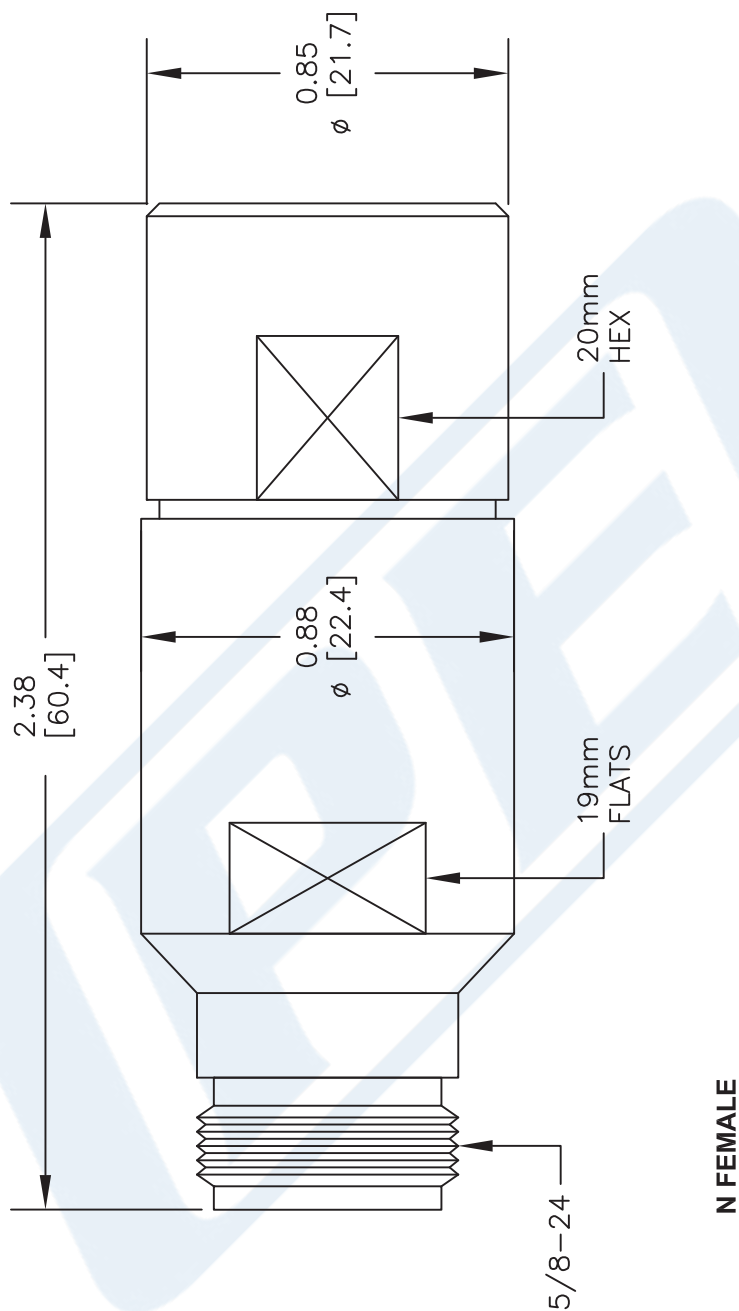
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URL: <https://www.pasternack.com/n-female-standard-1-2-inch-flexible-pe-1-2sfhc-connector-pe44737-p.aspx>

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.

PE44737 CAD Drawing

N Female Low PIM Connector Clamp/Non-Solder Contact Attachment
for PE-1/2FAC, 1/2 inch Flexible, 1/2 inch Annular, IP67 Rated



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].

DWG TITLE
PE44737

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