



Low PIM N Female to N Female Adapter Low VSWR

RF Adapters Technical Data Sheet

PE91035

Configuration

- N Female Connector 1
- N Female Connector 2
- 50 Ohms
- Low PIM Design
- Straight Body Geometry

Features

- Max Return Loss of -18 dB up to 12.4 GHz
- PIM levels lower than -165 dBc
- N Interface compliant with MIL-STD-348
- Silver Plated Beryllium Copper Contact
- 200 μ m min Silver Contact Plating

Applications

- General Purpose Test

Description

Pasternack's PE91035 Low PIM type N female to type N female adapter is part of our full line of RF components available for same-day shipping. Our type N to type N adapter has a female to female gender configuration in a Low PIM design. PE91035 type N female to type N female adapter operates to 12.4 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 | | 12.4 | GHz |
| Return Loss | | | -18 | dB |
| Passive Intermodulation | | | -165 | dBc |
| Dielectric Withstanding Voltage (AC) | | | 2,500 | Vrms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|------------------|---------|-----------|----|----|----|-------|
| Frequency Range | DC to 2 | 2 to 12.4 | | | | GHz |
| Return Loss, Max | -28 | -18 | | | | dB |

Electrical Specification Notes:
 Values at 25°C, sea level.

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 N Female Adapter Low VSWR PE91035](#)



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Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 1.75 in [44.45 mm] |
| Width | 0.66 in [16.76 mm] |
| Weight | 0.12 lbs [54.43 g] |

| Description | Connector 1 | Connector 2 |
|-------------------------|-------------|-------------|
| Type | N Female | N Female |
| Polarity | Standard | Standard |
| Interface Specification | MIL-STD-348 | MIL-STD-348 |
| Mating Cycles | 500 | 500 |

Material Specifications

| Description | Connector 1 | | Connector 2 | |
|-----------------|------------------|------------------------------|------------------|------------------------------|
| | Material | Plating | Material | Plating |
| Type | N Female | | N Female | |
| Contact | Beryllium Copper | Silver 200 µin minimum | Beryllium Copper | Silver 200 µin minimum |
| Insulation | PTFE | | PTFE | |
| Outer Conductor | Brass | Tri-Metal 100 µin minimum | Brass | Tri-Metal 100 µin minimum |

Environmental Specifications

Temperature

| | |
|-----------------|-------------------|
| Operating Range | -65 to +165 deg C |
|-----------------|-------------------|

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

Plotted and Other Data

Notes:

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Low PIM N Female to N Female Adapter Low VSWR 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.

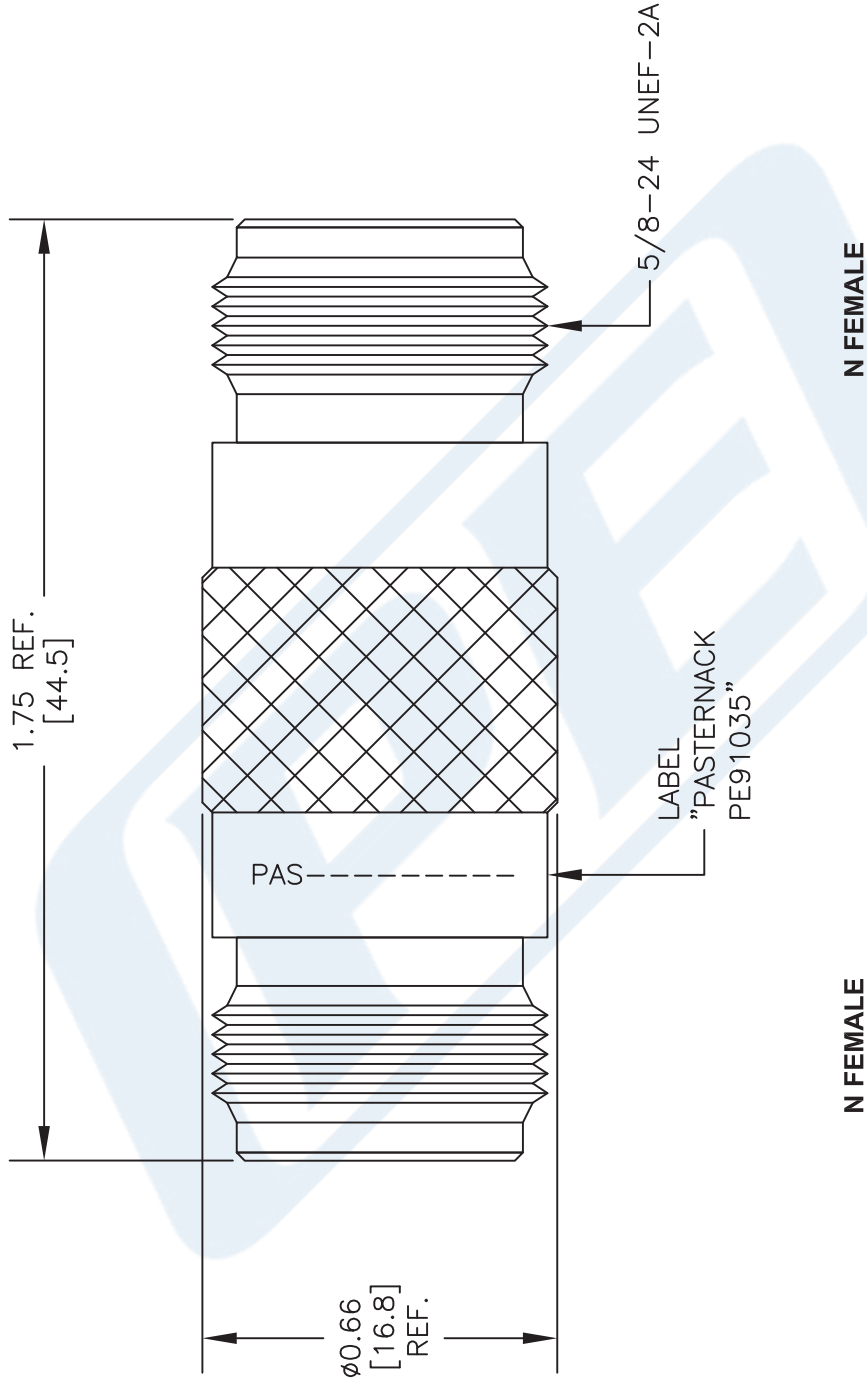
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM N Female to N Female Adapter Low VSWR PE91035](https://www.pasternack.com/n-female-n-female-straight-adapter-pe91035-p.aspx)

URL: <https://www.pasternack.com/n-female-n-female-straight-adapter-pe91035-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.

PE91035 CAD Drawing

Low PIM N Female to N Female Adapter Low VSWR



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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | | | |
|---|--|-----------------------------------|------------------|
| <p>NOTES:</p> <ol style="list-style-type: none"> 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]. | | <p>DWG TITLE</p> <h2>PE91035</h2> | |
| <p>FSCM NO. 53919</p> | | <p>CAD FILE 083016</p> | <p>SCALE N/A</p> |
| <p>© 2016 Pasternack Enterprises, Inc. P.O. Box 16759 Irvine CA 92623 Phone: (949) 261-1920 Fax: (949) 261-7451 Website: www.pasternack.com E-Mail: sales@pasternack.com</p> | | <p>SIZE A</p> | <p>41742</p> |