



## Low PIM N Female to QN Male Adapter, IP68 0.3 bar (interface only)

### RF Adapters Technical Data Sheet

PE9788

#### Configuration

- N Female Connector 1
- QN Male Connector 2
- 50 Ohm
- Low PIM Design
- Straight Body Geometry

#### Features

- PIM levels lower than -160 dBc
- Type N interface compliant with MIL-PRF-39012
- Rated IP68 0.3 bar (interface only)
- Gold Plated Contact

#### Applications

- Allows Connection Between Series
- General Purpose Test
- Low PIM Applications

#### Description

Pasternack's PE9788 low PIM type N female to QN male adapter is part of our full line of RF components available for same-day shipping. Our type N to QN adapter has a female to male gender configuration in a low PIM design. PE9788 type N female to QN male adapter operates to 11 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      |         | 11      | GHz   |
| Insertion Loss                               |         |         | 0.17    | dB    |
| Passive Intermodulation<br>using 2x20W tones |         |         | -160    | dBc   |
| Operating Voltage (AC)                       |         |         | 1,000   | Vrms  |
| Dielectric Withstanding Voltage (AC)         |         |         | 2,500   | Vrms  |
| Inner Conductor DC Resistance                |         |         | 1.5     | mOhms |
| Outer Conductor DC Resistance                |         |         | 1.5     | mOhms |
| Insulation Resistance                        | 5,000   |         |         | MOhms |
| Input Power (CW)<br>(at 2.5 GHz)             |         |         | 300     | Watts |

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 QN Male Adapter, IP68 0.3 bar \(interface only\) PE9788](#)



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### Performance by Frequency

| Description      | F1      | F2     | F3 | F4 | F5 | Units |
|------------------|---------|--------|----|----|----|-------|
| Frequency Range  | DC to 3 | 3 to 6 |    |    |    | GHz   |
| Return Loss, Max | -30     | -25    |    |    |    | dB    |

Electrical Specification Notes:  
 Values at 25°C, sea level.  
 Insertion loss (dB) = 0.05 x sqrt(FGHz) max.  
 RF leakage -90 dB max, 100 MHz to 3 GHz.

### Mechanical Specifications

#### Size

|        |                    |
|--------|--------------------|
| Length | 1.48 in [37.59 mm] |
| Width  | 0.75 in [19.05 mm] |
| Weight | 0.08 lbs [36.29 g] |

| Description             | Connector 1   | Connector 2 |
|-------------------------|---------------|-------------|
| Type                    | N Female      | QN Male     |
| Polarity                | Standard      | Standard    |
| Interface Specification | MIL-PRF-39012 |             |

### Material Specifications

| Description     | Connector 1      |           | Connector 2      |           |
|-----------------|------------------|-----------|------------------|-----------|
|                 | Material         | Plating   | Material         | Plating   |
| Type            | N Female         |           | QN Male          |           |
| Contact         | Beryllium Copper | Gold      | Beryllium Copper | Gold      |
| Insulation      | PTFE             |           | PTFE             |           |
| Outer Conductor | Brass            | Tri-Metal |                  |           |
| Body            |                  |           | Brass            | Tri-Metal |

### Environmental Specifications

#### Temperature

Operating Range -40 to +125 deg C

|                                |  |
|--------------------------------|--|
| Ingress Protection (IP) Rating | IP68 0.3 bar (interface only)          |
| Humidity                       | MIL-STD-202, Method 106 F              |
| Shock                          | MIL-STD-202, Method 213, Condition I   |
| Vibration                      | MIL-STD-202, Method 204 D, Condition A |
| Thermal Shock                  | MIL-STD-202, Method 107 D, Condition B |

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Salt Spray

MIL-STD-202, Method 101 D, Condition B

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

**Plotted and Other Data**

Notes:

Low PIM N Female to QN Male Adapter, IP68 0.3 bar (interface only) 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.

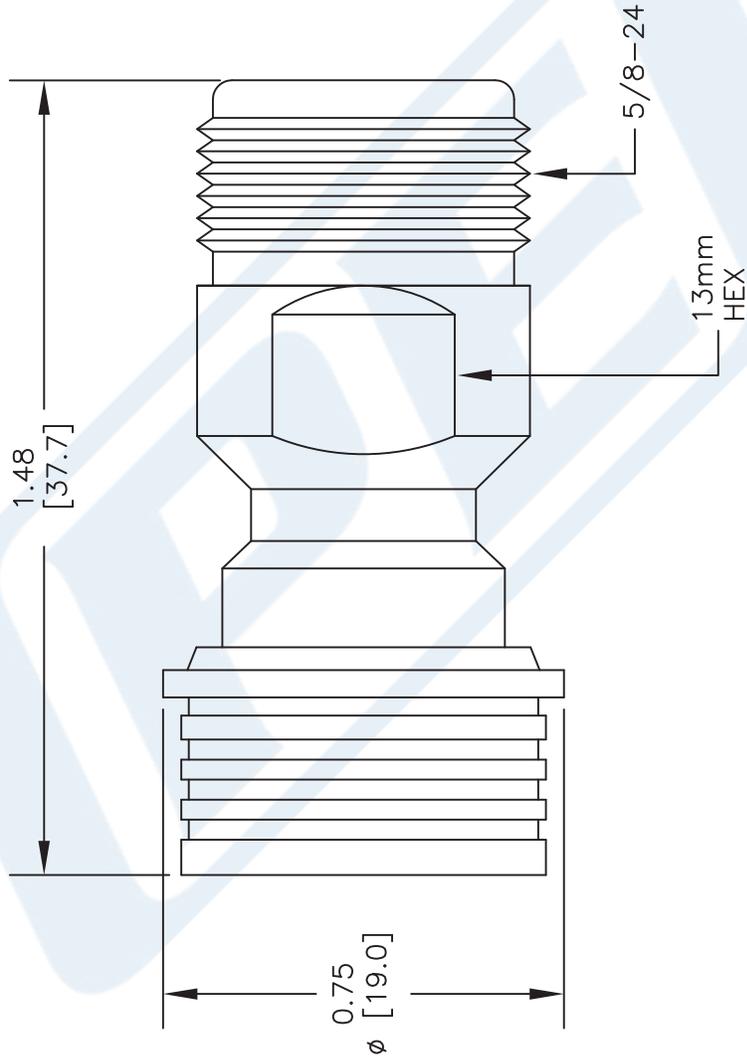
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URL: <https://www.pasternack.com/n-female-qn-male-straight-adapter-pe9788-p.aspx>

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.

# PE9788 CAD Drawing

Low PIM N Female to QN Male Adapter, IP68 0.3 bar (interface only)



DWG TITLE

**PE9788**

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].

FSCM NO. 53919

CAD FILE 081808

SCALE N/A

SIZE A

2233



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