



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

RF Adapters Technical Data Sheet

PE9789

Configuration

- N Male Connector 1
- QN Female 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 PE9789 low PIM type N male to QN female adapter is part of our full line of RF components available for same-day shipping. Our type N to QN adapter has a male to female gender configuration in a low PIM design. PE9789 type N male to QN female 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 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) (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 Male to QN Female Adapter, IP68 0.3 bar \(interface only\) PE9789](#)



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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	1.33 in [33.78 mm]
Width	0.83 in [21.08 mm]
Weight	0.116 lbs [52.62 g]

Description	Connector 1	Connector 2
Type	N Male	QN Female
Polarity	Standard	Standard
Interface Specification	MIL-PRF-39012	
Mating Cycles	500	100
Hex Size	18 mm	
Mating Torque	12 to 15 in-lbs [1.36 to 1.70 Nm]	

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	N Male		QN Female	
Contact	Spring Bronze	Gold	Spring Bronze	Gold
Insulation	PTFE		PTFE	
Outer Conductor			Brass	Tri-Metal
Body	Brass	Tri-Metal		
Coupling Nut	Brass	Tri-Metal		

Environmental Specifications

Temperature

Operating Range	-40 to +125 deg C
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Ingress Protection (IP) Rating
Humidity
Shock
Vibration
Thermal Shock
Salt Spray

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MIL-STD-202, Method 106 F
MIL-STD-202, Method 213, Condition I
MIL-STD-202, Method 204 D, Condition A
MIL-STD-202, Method 107 D, Condition B
MIL-STD-202, Method 101 D, Condition B

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

Plotted and Other Data

Notes:

Low PIM N Male to QN Female 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.

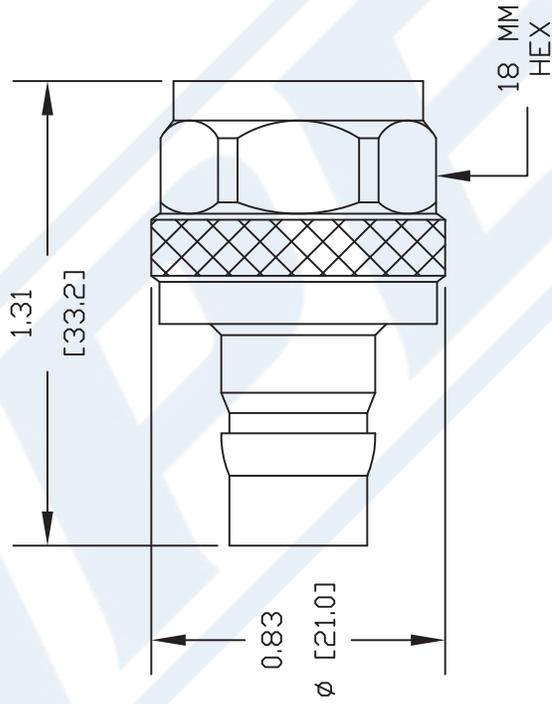
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URL: <https://www.pasternack.com/n-male-qn-female-straight-adapter-pe9789-p.aspx>

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.

PE9789 CAD Drawing

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



DWG TITLE

PE9789

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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COAXIAL & FIBER OPTICS



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SIZE A

SCALE N/A

CAD FILE 010509

FSCM NO. 53919

REV. A