



Low PIM N Male to QN Female Adapter

RF Adapters Technical Data Sheet

PE91485

Configuration

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

Features

- Max VSWR of 1.2:1 up to 8.5 GHz
- PIM levels lower than -160 dBc
- Silver Plated Beryllium Copper Contact

Applications

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

Description

Pasternack's PE91485 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. PE91485 type N male to QN female adapter operates to 8.5 GHz. The Pasternack RF adapter provides excellent VSWR of 1.2:1 maximum and passive intermodulation of -160 dBc maximum.

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		8.5	GHz
VSWR			1.2:1	
Return Loss			20.83	dB
Passive Intermodulation			-160	dBc
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
VSWR, Max	1.15:1	1.2:1				

Electrical Specification Notes:

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 PE91485](#)



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Values at 25°C, sea level.

Mechanical Specifications

Size

Length	1.58 in [40.13 mm]
Width	0.846 in [21.49 mm]
Height	0.846 in [21.49 mm]
Weight	0.5 lbs [226.8 g]

Description	Connector 1	Connector 2
Type	N Male	QN Female
Polarity	Standard	Standard
Hex Size	20 mm	
Contact Captivation Axial Force, Min	6.07 lbs [2.75 kg]	6.07 lbs [2.75 kg]

Material Specifications

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

Environmental Specifications

Temperature

Operating Range	-40 to +155 °C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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Low PIM N Male to QN Female Adapter from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

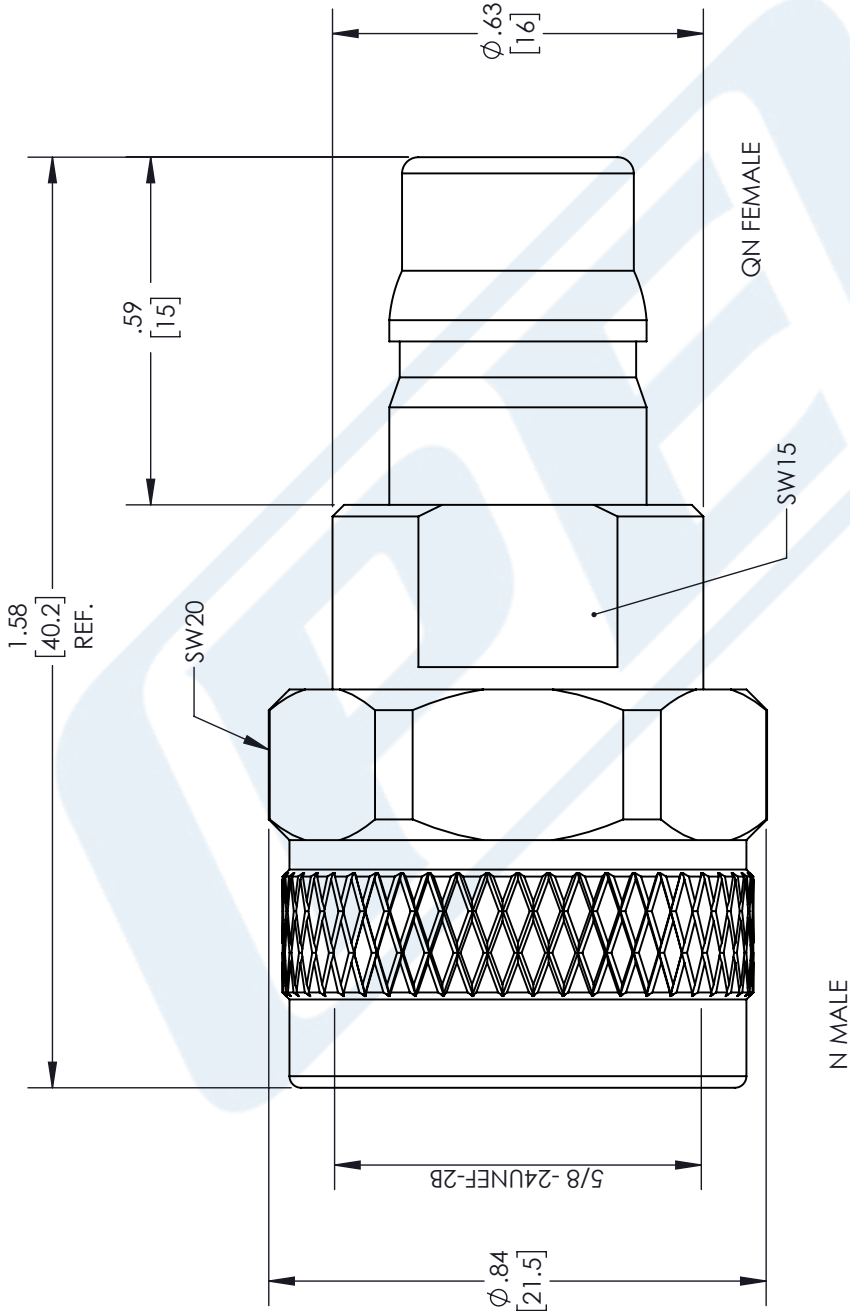
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM N Male to QN Female Adapter PE91485](https://www.pasternack.com/low-pim-n-male-to-qn-female-adapter-pe91485-p.aspx)

URL: <https://www.pasternack.com/low-pim-n-male-to-qn-female-adapter-pe91485-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.

PE91485 CAD Drawing
Low PIM N Male to QN Female Adapter

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/24/2022	AGANWANI



PE PASTERNAK an INFINITI® brand		THIRD-ANGLE PROJECTION	
Pastermack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pastermack.com E-mail: sales@pastermack.com		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.	
SHEET 1 OF 1		SCALE N/A	
SIZE A		REV A	
CAGE CODE 53919		ITEM NO. VTHANGARAJ	
DRAWN BY		PE91485	

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ± .2 [.008] FRACTIONS
.XX = ± .02 [.51] ANGLES ± 1°
.XXX = ± .005 [.13]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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