



Low PIM N Male to SMA Female Adapter

RF Adapters Technical Data Sheet

PE91177

Configuration

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

Features

- Max VSWR of 1.2:1 up to 6 GHz
- PIM levels lower than -160 dBc
- Silver Plated Beryllium Copper Contact
- 5µm min Silver Contact Plating

Applications

- Allows Connection Between Series
- General Purpose Test

Description

Pasternack's PE91177 Low PIM type N male to SMA female adapter is part of our full line of RF components available for same-day shipping. Our type N to SMA adapter has a male to female gender configuration in a Low PIM design. PE91177 type N male to SMA female adapter operates to 6 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		6	GHz
VSWR			1.2:1	
Insertion Loss			0.1	dB
Passive Intermodulation using 2x20W tones			-160	dBc
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms

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

Mechanical Specifications

Size

Length

1.24 in [31.5 mm]

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 SMA Female Adapter PE91177](#)



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Width 0.79 in [20.07 mm]
Weight 0.092 lbs [41.73 g]

Description	Connector 1	Connector 2
Type	N Male	SMA Female
Polarity	Standard	Standard
Hex Size	20 mm	

Material Specifications

Description	Material	Connector 1 Plating	Material	Connector 2 Plating
Type	N Male		SMA Female	
Contact	Beryllium Copper	Silver 5 µm minimum	Beryllium Copper	Silver 5 µm minimum
Insulation	PTFE		PTFE	
Outer Conductor			Brass	Tri-Metal 3µm minimum
Body	Brass	Tri-Metal 3µm minimum		
Coupling Nut	Brass	Tri-Metal 3µm minimum		

Environmental Specifications

Temperature

Operating Range -45 to +125 deg C

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

Plotted and Other Data

Notes:

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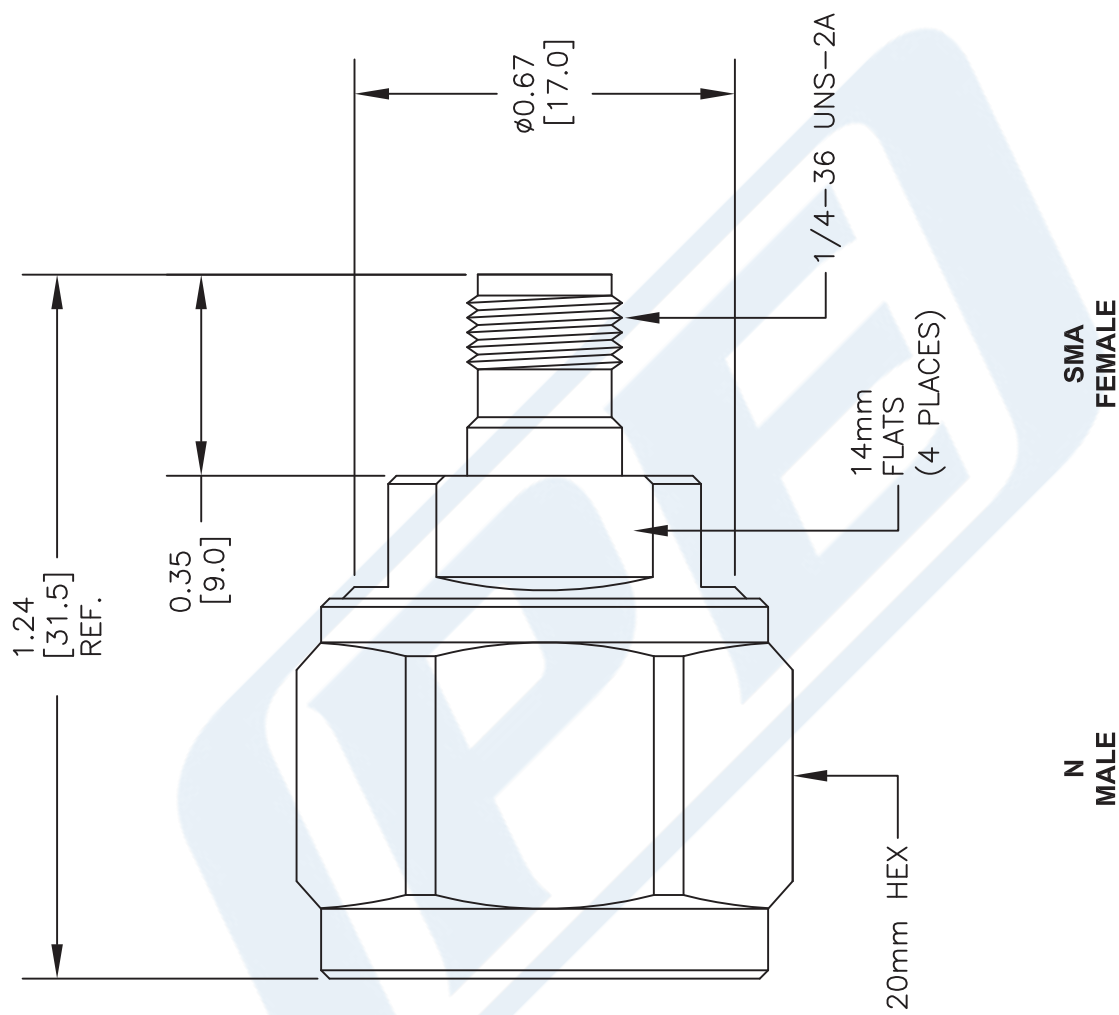
Low PIM N Male to SMA Female Adapter from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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 Male to SMA Female Adapter PE91177](https://www.pasternack.com/n-male-sma-female-adapter-pe91177-p.aspx)

URL: <https://www.pasternack.com/n-male-sma-female-adapter-pe91177-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.

PE91177 CAD Drawing
Low PIM N Male to SMA Female Adapter



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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

PE PASTERNAK® THE ENGINEER'S RF SOURCE 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	DWG TITLE PE91177		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 082616	SCALE N/A	SIZE A 41742