



## Low PIM N Female to SMA Male Adapter

### RF Adapters Technical Data Sheet

PE91178

#### Configuration

- N Female Connector 1
- SMA Male Connector 2
- 50 Ohm
- 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

#### Applications

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

#### Description

Pasternack's PE91178 low PIM type N female to SMA male adapter is part of our full line of RF components available for same-day shipping. Our type N to SMA adapter has a female to male gender configuration in a low PIM design. PE91178 type N female to SMA male 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 two 20W tones			-160	dBc

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

#### Mechanical Specifications

<b>Size</b>	
Length	1.2 in [30.48 mm]
Weight	0.125 lbs [56.7 g]

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 SMA Male Adapter PE91178](#)



## Low PIM N Female to SMA Male Adapter

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Description	Connector 1	Connector 2
Type	N Female	SMA Male
Polarity	Standard	Standard
Hex Size		8 mm

#### Material Specifications

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

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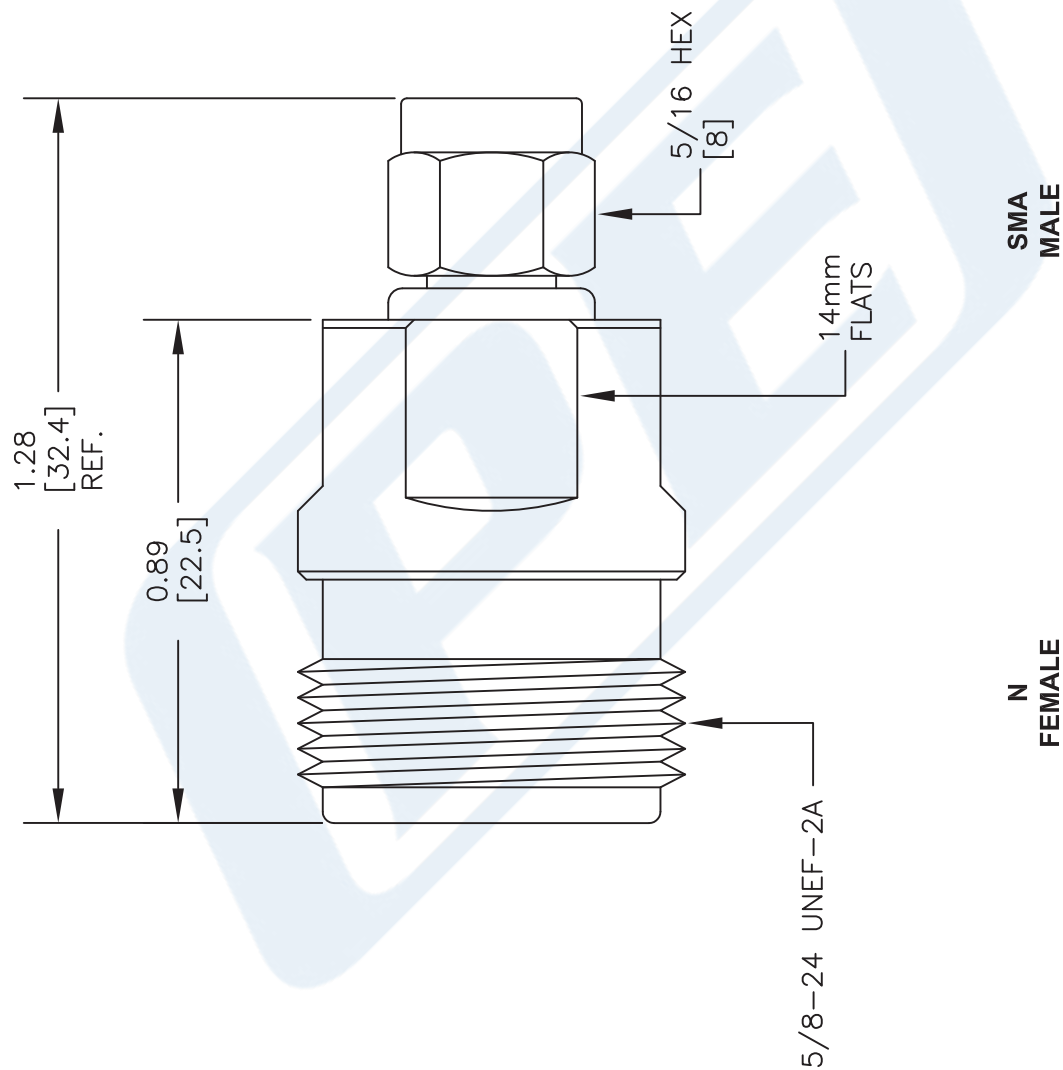
Low PIM N Female to SMA Male Adapter from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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 Female to SMA Male Adapter PE91178](#)

URL: <https://www.pasternack.com/n-female-sma-male-straight-adapter-pe91178-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.

PE91178 CAD Drawing  
Low PIM N Female to SMA Male Adapter



STANDARD TOLERANCES

.X ±0.2  
.XX ±0.1  
.XXX ±0.05

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE91178

FSCM NO. 53919

CAD FILE 082616

SCALE N/A

SIZE A

41742

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].