



## Precision N Female to TNC Male Adapter

### RF Adapters Technical Data Sheet

PE9447A

#### Configuration

- N Female Connector 1
- TNC Male Connector 2
- 50 Ohm
- Precision Design
- Straight Body Geometry

#### Features

- Max VSWR of 1.2:1 up to 18 GHz
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

#### Applications

- Allows Connection Between Series
- General Purpose Test
- Precision Test & Measurement

#### Description

Pasternack's PE9447A type N female to TNC male adapter is part of our full line of RF components available for same-day shipping. Our type N to TNC adapter has a female to male gender configuration in a precision design. PE9447A type N female to TNC male adapter operates to 18 GHz. The Pasternack RF adapter provides excellent VSWR of 1.2:1 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		18	GHz
VSWR			1.2:1	
Insertion Loss			0.22	dB

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 15	15 to 18				GHz
VSWR, Max	1.15:1	1.2:1				

Electrical Specification Notes:

Values at 25°C, sea level.

Insertion Loss (dB) =  $0.05 \cdot \sqrt{f(\text{GHz})}$ .

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Precision N Female to TNC Male Adapter PE9447A](#)



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#### Mechanical Specifications

##### Size

Length

1.85 in [46.99 mm]

Width

0.625 in [15.88 mm]

Description	Connector 1	Connector 2
Type	N Female	TNC Male
Polarity	Standard	Standard
Mating Cycles	500	500
Hex Size		9/16 in.

#### Material Specifications

Description	Material	Plating	Material	Plating
Type	N Female		TNC Male	
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PTFE		PTFE	
Outer Conductor	Passivated Stainless Steel	ASTM A380		
Body			Passivated Stainless Steel	ASTM A380
Coupling Nut			Passivated Stainless Steel	ASTM A380

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +100 deg C

Vibration

MIL-STD-202, Method 204, Cond. D (20G's)

Salt Spray

MIL-STD-202, Method 101, Cond. B, 5% salt solution

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

#### Plotted and Other Data

Notes:

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Precision N Female to TNC Male 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.

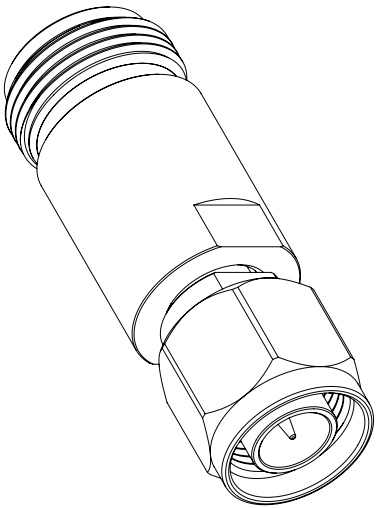
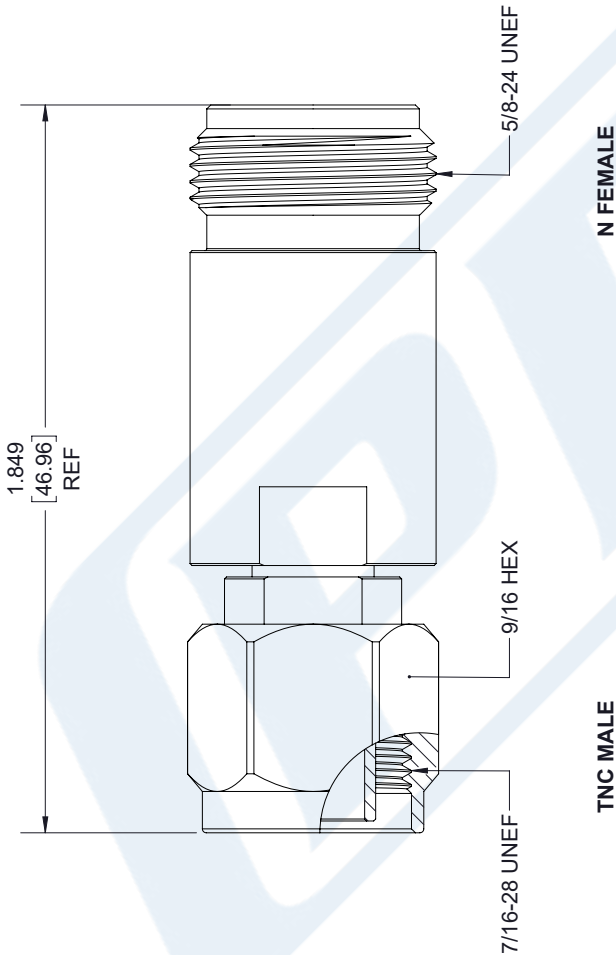
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Precision N Female to TNC Male Adapter PE9447A](#)

URL: <https://www.pasternack.com/n-female-tnc-male-straight-adapter-pe9447a-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.

PE9447A CAD Drawing  
Precision N Female to TNC Male Adapter

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/11/19	S.CRESPIN



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS			
TOLERANCES:			
X±.2	[5.08]	FRACTIONS	
XX±.01	[.25]		±.132
XXX±.005	[.13]	ANGLES ± 1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
THIRD-ANGLE PROJECTION			

<b>PE PASTERNAK</b> an INFINITI brand	
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SIZE	A
CAGE	53919
DRAWN BY	K.DANG
PART NUMBER	PE9447A
REV	A

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SCALE	N/A		

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