



## Hermetically Sealed TNC Female to TNC Female Bulkhead Mount Adapter, operating to 11 GHz

### RF Adapters Technical Data Sheet

PE91430

#### Configuration

- TNC Female Connector 1
- TNC Female Connector 2
- 50 Ohm
- Straight Body Geometry
- Bulkhead Mount Method

#### Features

- Max VSWR of 1.35:1 up to 12 GHz
- Hermetically Sealed
- TNC interface compliant with MIL-STD-348
- Contact plating according to MIL-G-45204
- Gold Plated Beryllium Copper Contact

#### Applications

- General Purpose Test
- Vacuum Test Environment
- Rack Mounted Equipment

#### Description

Pasternack's PE91430 hermetically sealed TNC female to TNC female bulkhead adapter is part of our full line of RF components available for same-day shipping. Our TNC to TNC adapter has a female to female gender configuration. PE91430 TNC female to TNC female adapter operates to 12 GHz. The Pasternack RF adapter provides good VSWR of 1.35:1 maximum. This RF TNC to TNC bulkhead adapter allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. This hermetic TNC to TNC adapter prevents the leakage of gases, making it suitable for high pressure or vacuum applications or whenever an airtight seal is required.

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		12	GHz
VSWR			1.35:1	
Operating Voltage (AC)			500	Vrms

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

#### Mechanical Specifications

##### Size

Length

1.4 in [35.56 mm]

Weight

0.0516 lbs [23.41 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Hermetically Sealed TNC Female to TNC Female Bulkhead Mount Adapter, operating to 11 GHz PE91430](#)



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Bulkhead Mount Adapter, operating to 11 GHz

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Description	Connector 1	Connector 2
Type	TNC Female	TNC Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348
Connector Option	Hermetically Sealed	Hermetically Sealed
Mating Cycles	500	500

**Material Specifications**

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	TNC Female		TNC Female	
Contact	Beryllium Copper	Gold MIL-G-45204	Beryllium Copper	Gold MIL-G-45204
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Nickel QQ-N-290	Brass	Nickel QQ-N-290
Body	Brass	Nickel QQ-N-290	Brass	Nickel QQ-N-290
Gasket	Silicone Rubber		Silicone Rubber	
Washer			Steel	Nickel QQ-N-290
Coupling Nut			Brass	Silver ASTM B700

**Environmental Specifications**

**Temperature**

Operating Range -65 to +125 °C

Hermetic Seal  $1 \times 10^{-8}$  cc/sec

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

**Plotted and Other Data**

Notes:

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## Hermetically Sealed TNC Female to TNC Female Bulkhead Mount Adapter, operating to 11 GHz

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Hermetically Sealed TNC Female to TNC Female Bulkhead Mount Adapter, operating to 11 GHz 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: [Hermetically Sealed TNC Female to TNC Female Bulkhead Mount Adapter, operating to 11 GHz PE91430](https://www.pasternack.com/tnc-female-tnc-female-straight-adapter-pe91430-p.aspx)

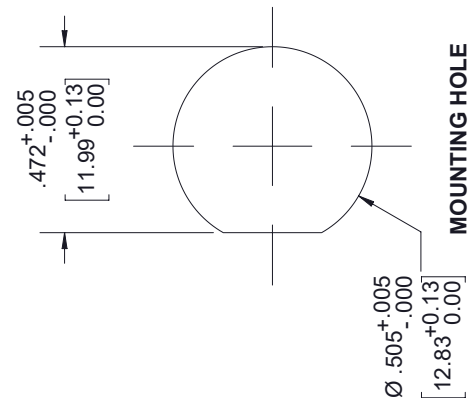
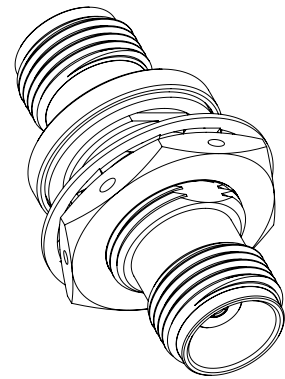
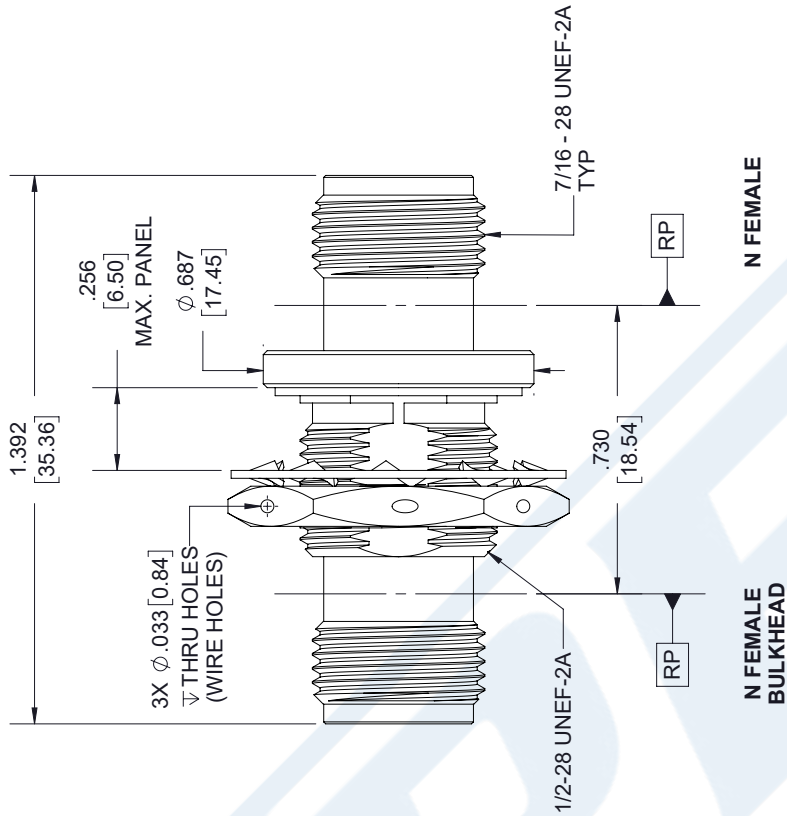
URL: <https://www.pasternack.com/tnc-female-tnc-female-straight-adapter-pe91430-p.aspx>

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.

# PE91430 CAD Drawing

Hermetically Sealed TNC Female to TNC Female Bulkhead  
Mount Adapter, operating to 11 GHz

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12/04/19	SELLIS



THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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

TOLERANCES:

	FRACTIONS	ANGLES
.X = ±.2	[.08]	± 1/32
.XX = ±.02	[.51]	± 1°
.XXX = ±.005	[.13]	

CABLE LENGTH (L) TOLERANCES:

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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE A

CAGE CODE 53919

DRAWN BY K.DANG

PART NUMBER PE91430

REV A

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