



## Hermetically Sealed TNC Female to TNC Female Bulkhead Mount Adapter, 18GHz VSWR1.35, MIL-STD 348B

### RF Adapters Technical Data Sheet

**PE1353**

#### 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 18 GHz
- Hermetically Sealed
- Gold Plated Beryllium Copper Contact

#### Applications

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

#### Description

Pasternack's PE1353 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. PE1353 TNC female to TNC female adapter operates to 18 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		18	GHz
VSWR			1.35:1	
Insertion Loss			0.21	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms

#### Mechanical Specifications

##### Size

Length	1.39 in [35.31 mm]
Width	0.63 in [16.00 mm]

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, 18GHz VSWR1.35, MIL-STD 348B PE1353](#)



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Mount Adapter, 18GHz VSWR1.35, MIL-STD 348B

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Height 0.63 in [16.00 mm]  
Weight 0.02 lbs [9.07 g]

Description	Connector 1	Connector 2
Type	TNC Female	TNC Female
Polarity	Standard	Standard
Connector Option	Hermetically Sealed	Hermetically Sealed
Mating Cycles, Min	500	500
Mating Torque	4.1 to 6.1 in-lbs [0.46 to 0.69 Nm]	4.1 to 6.1 in-lbs 0.46 to 0.69 Nm
Contact Captivation Axial Force, Min	6.1 lbs [2.77 kg]	6.1 lbs [2.77 kg]
Coupling Proof Torque	15 in-lbs [1.7 Nm]	15 in-lbs [1.7 Nm]

### Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	TNC Female		TNC Female	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Insulation	PEI		PEI	
Outer Conductor	Brass	Tri-Metal	Brass	Tri-Metal
Body	Brass	Tri-Metal	Brass	Tri-Metal

### Environmental Specifications

#### Temperature

Operating Range -65 to +165 °C

Humidity

Thermal Shock

Salt Spray

Hermetic Seal

MIL-STD-202, Method 206

MIL-STD-202, Method 107, Condition B

MIL-STD-202, Method 101, Condition B

1\*10<sup>-8</sup> cc/sec of HELIUM at 1 ATM

**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, 18GHz VSWR1.35, MIL-STD 348B 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, 18GHz VSWR1.35, MIL-STD 348B PE1353](https://www.pasternack.com/hermetically-sealed-tnc-female-to-tnc-female-bulkhead-mount-adapter-18ghz-vswr1.35-mil-std-348b-pe1353-p.aspx)

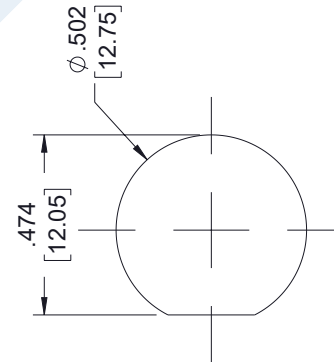
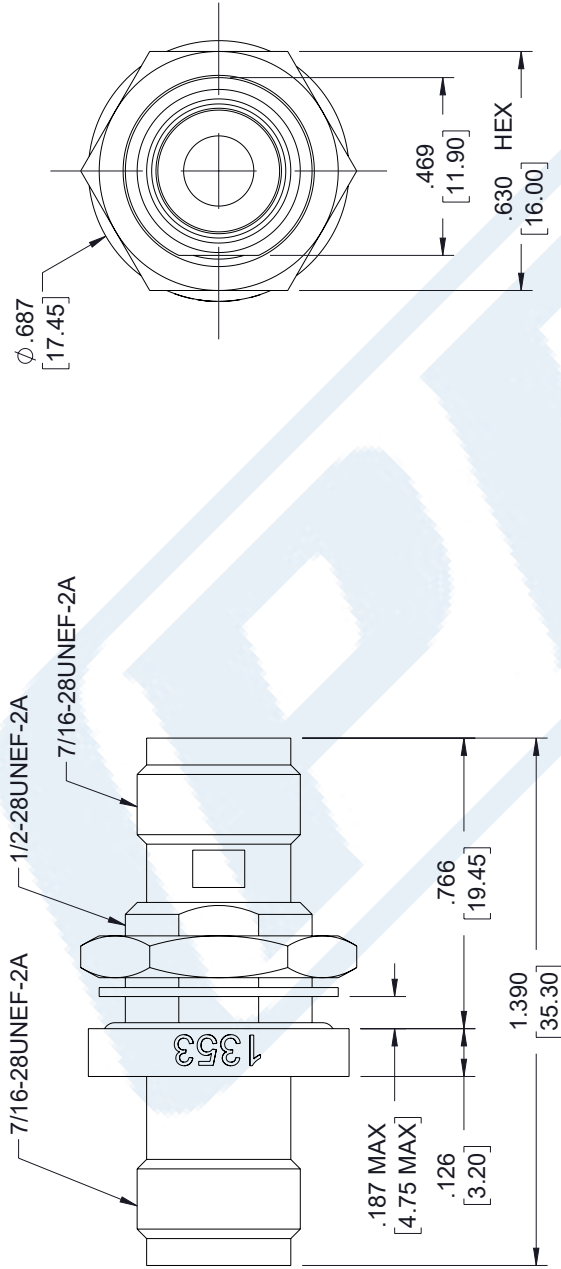
URL: <https://www.pasternack.com/hermetically-sealed-tnc-female-to-tnc-female-bulkhead-mount-adapter-18ghz-vswr1.35-mil-std-348b-pe1353-p.aspx>

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.

# PE1353 CAD Drawing

Hermetically Sealed TNC Female to TNC Female Bulkhead  
Mount Adapter, 18GHz VSWR1.35, MIL-STD 348B

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12/12/2022	AGANWANI



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>X = ± .02</td> <td>[ .51 ]</td> <td>FRACTIONS</td> </tr> <tr> <td>.XX = ± .02</td> <td>[ .51 ]</td> <td>± 1/32</td> </tr> <tr> <td>.XXX = ± .005</td> <td>[ .13 ]</td> <td>ANGLES ± 1°</td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>L ≤ 12 [305]</td> <td>± .125 / -0</td> </tr> <tr> <td>12 [305] &lt; L ≤ 60 [1524]</td> <td>± .25 [51] / -0</td> </tr> <tr> <td>60 [1524] &lt; L ≤ 120 [3048]</td> <td>± .50 [102] / -0</td> </tr> <tr> <td>120 [3048] &lt; L ≤ 300 [7620]</td> <td>± 1.0 [254] / -0</td> </tr> <tr> <td>300 [7620] &lt; L</td> <td>± 5% L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>		X = ± .02	[ .51 ]	FRACTIONS	.XX = ± .02	[ .51 ]	± 1/32	.XXX = ± .005	[ .13 ]	ANGLES ± 1°	L ≤ 12 [305]	± .125 / -0	12 [305] < L ≤ 60 [1524]	± .25 [51] / -0	60 [1524] < L ≤ 120 [3048]	± .50 [102] / -0	120 [3048] < L ≤ 300 [7620]	± 1.0 [254] / -0	300 [7620] < L	± 5% L / -0	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>	
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<p><b>PE PASTERNAK</b> an INFINITI® brand</p> <p>Pasternack 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.pasternack.com E-mail: sales@pasternack.com</p>		<p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY HBAKKE</p> <p>ITEM NO. PE1353</p> <p>REV A</p>																				

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