



Hermetically Sealed 50 Ohm 2.92mm Female to 2.92mm Female  
Bulkhead Mount Adapter, 40GHz VSWR1.35, MIL-STD-348B

## RF Adapters Technical Data Sheet

**PE1201**

### Configuration

- 2.92mm Female Connector 1
- 2.92mm Female Connector 2
- Straight Body Geometry
- Bulkhead Mount Method

### Features

- Hermetically Sealed
- 2.92mm interface compliant with MIL-STD-348B
- Gold Plated Beryllium Copper Contact

### Applications

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

### Description

Pasternack's PE1201 hermetically sealed 50 ohm 2.92mm female to 2.92mm female bulkhead adapter is part of our full line of RF components available for same-day shipping. The 2.92mm connector mates mechanically with commercially available SMA and 3.5mm connectors. Our 2.92mm to 2.92mm adapter has a female to female gender configuration built of durable stainless steel. PE1201 2.92mm female to 2.92mm female adapter operates to 40 GHz. This RF 2.92mm to 2.92mm 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 2.92mm to 2.92mm 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		40	GHz
VSWR		1.35:1		
Insertion Loss		0.505		dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage			100	dB

### Mechanical Specifications

#### Size

Length 0.89 in [22.61 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 50 Ohm 2.92mm Female to 2.92mm Female Bulkhead Mount Adapter, 40GHz VSWR1.35, MIL-STD-348B PE1201](#)



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Width	0.56 in [14.22 mm]
Height	0.56 in [14.22 mm]
Weight	0.02 lbs [9.07 g]

Description	Connector 1	Connector 2
Type	2.92mm Female	2.92mm Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348B	MIL-STD-348B
Connector Option	Hermetically Sealed	Hermetically Sealed
Mating Cycles, Min	500	500
Mating Torque		11.47 in-lbs 1.30 Nm min
Contact Captivation Axial Force, Min	4.9 lbs [2.22 kg]	4.9 lbs [2.22 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	2.92mm Female		2.92mm Female	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Outer Conductor	Stainless Steel	Passivated	Stainless Steel	Passivated
Body	Stainless Steel	Passivated	Stainless Steel	Passivated

### Environmental Specifications

#### Temperature

Operating Range -10 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\*10-8 cc/sec of helium at 1atm

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

### Plotted and Other Data

Notes:

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Hermetically Sealed 50 Ohm 2.92mm Female to 2.92mm Female Bulkhead Mount Adapter, 40GHz 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 50 Ohm 2.92mm Female to 2.92mm Female Bulkhead Mount Adapter, 40GHz VSWR1.35, MIL-STD-348B PE1201](https://www.pasternack.com/hermetically-sealed-50-ohm-2.92mm-female-to-2.92mm-female-bulkhead-mount-adapter-40ghz-vswr1.35-mil-std-348b-pe1201-p.aspx)

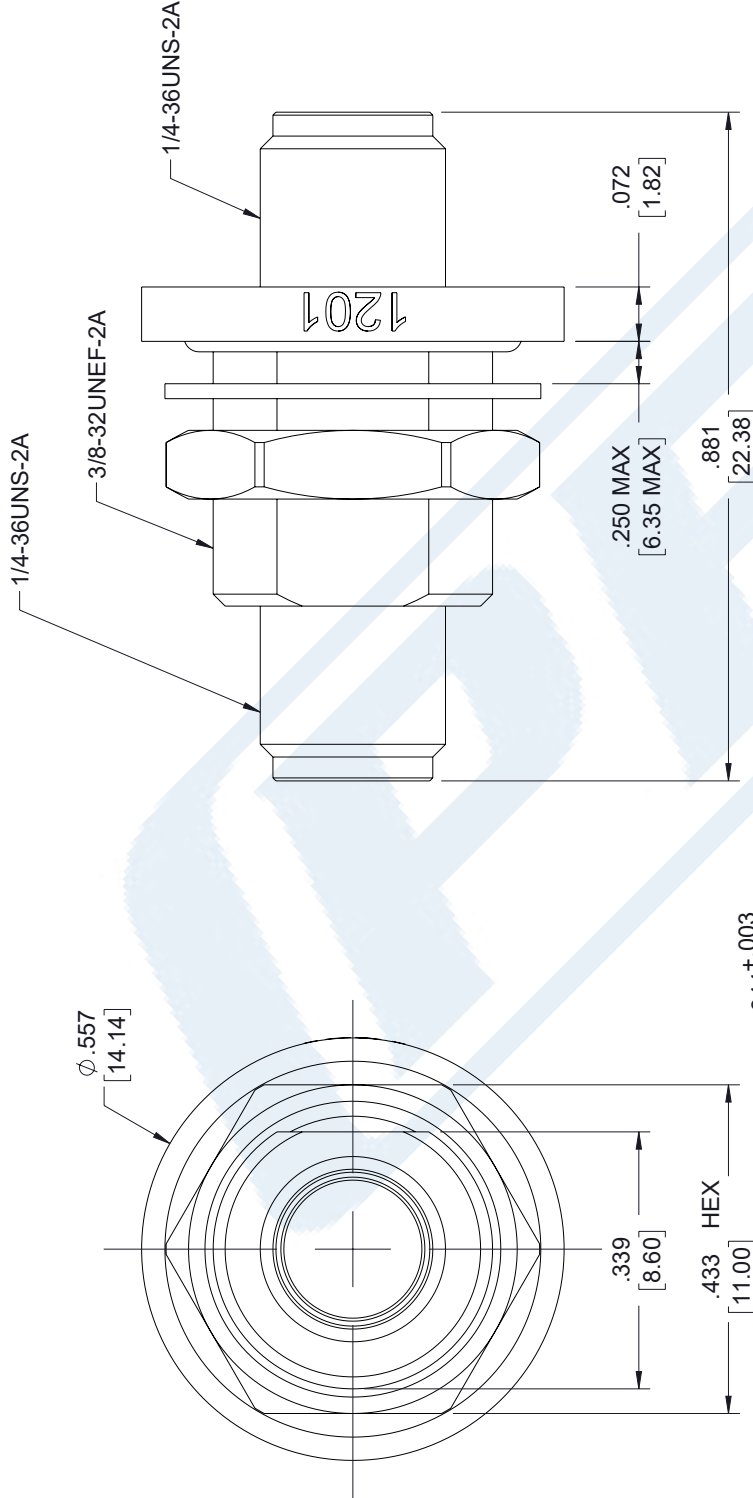
URL: <https://www.pasternack.com/hermetically-sealed-50-ohm-2.92mm-female-to-2.92mm-female-bulkhead-mount-adapter-40ghz-vswr1.35-mil-std-348b-pe1201-p.aspx>

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.

# PE1201 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12/09/2022	AGANWANI



<b>PE PASTERNAK</b> an INFINITI® brand 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		THIRD-ANGLE PROJECTION  THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1 SCALE N/A	
SIZE A	CAGE CODE 53919	DRAWN BY HBAKKE	ITEM NO. PE1201
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS TOLERANCES: .X = ± .2 [5.08] .XX = ± .02 [.51] .XXX = ± .005 [.13] CABLE LENGTH (L) TOLERANCES: L ≤ 12 [305] = ± .125 [-0 12 [305] < L ≤ 60 [1524] = ± .25 [-0 60 [1524] < L ≤ 120 [3048] = ± .5 [1.27] / -0 120 [3048] < L ≤ 300 [7620] = ± .75 [1.92] / -0 300 [7620] < L = +5% / -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		REV A	

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