

Hermetically Sealed 2.92mm Female to
2.92mm Female 4 Hole Flange Mount Adapter,
40GHz VSWR1.25, MIL-STD-348B



PE1346

Configuration

- 2.92mm Female Connector 1
- 2.92mm Female Connector 2
- 50 Ohm
- Straight Body Geometry
- 4 Hole Flange Mount Method

Features

- Max VSWR of 1.25:1 up to 40 GHz
- 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 PE1346 hermetically sealed 2.92mm female to 2.92mm female 4 hole flange 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. PE1346 2.92mm female to 2.92mm female adapter operates to 40 GHz. The Pasternack RF adapter provides excellent VSWR of 1.25:1 maximum. This RF 2.92mm to 2.92mm 4 hole flange 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 |
| Impedance | | 50 Ohm | | |
| VSWR | | | 1.25:1 | |
| Insertion Loss | | | 0.5 | 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 0.81 in [20.57 mm]
- Width 0.50 in [12.70 mm]
- Height 0.50 in [12.70 mm]

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| Weight | 0.08 lbs [36.29 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 | 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 |
| Insulation | PEI | | PEI | |
| Outer Conductor | Stainless Steel | Passivated | Stainless Steel | Passivated |
| Body | Stainless Steel | Passivated | Stainless Steel | Passivated |

Environmental Specifications

Temperature

Operating Range

Humidity

Thermal Shock

Salt Spray

Hermetic Seal

-40 to +165 °C

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 1 ATM

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

Plotted and Other Data

Hermetically Sealed 2.92mm Female to 2.92mm Female 4 Hole Flange Mount Adapter, 40GHz VSWR1.25, 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.

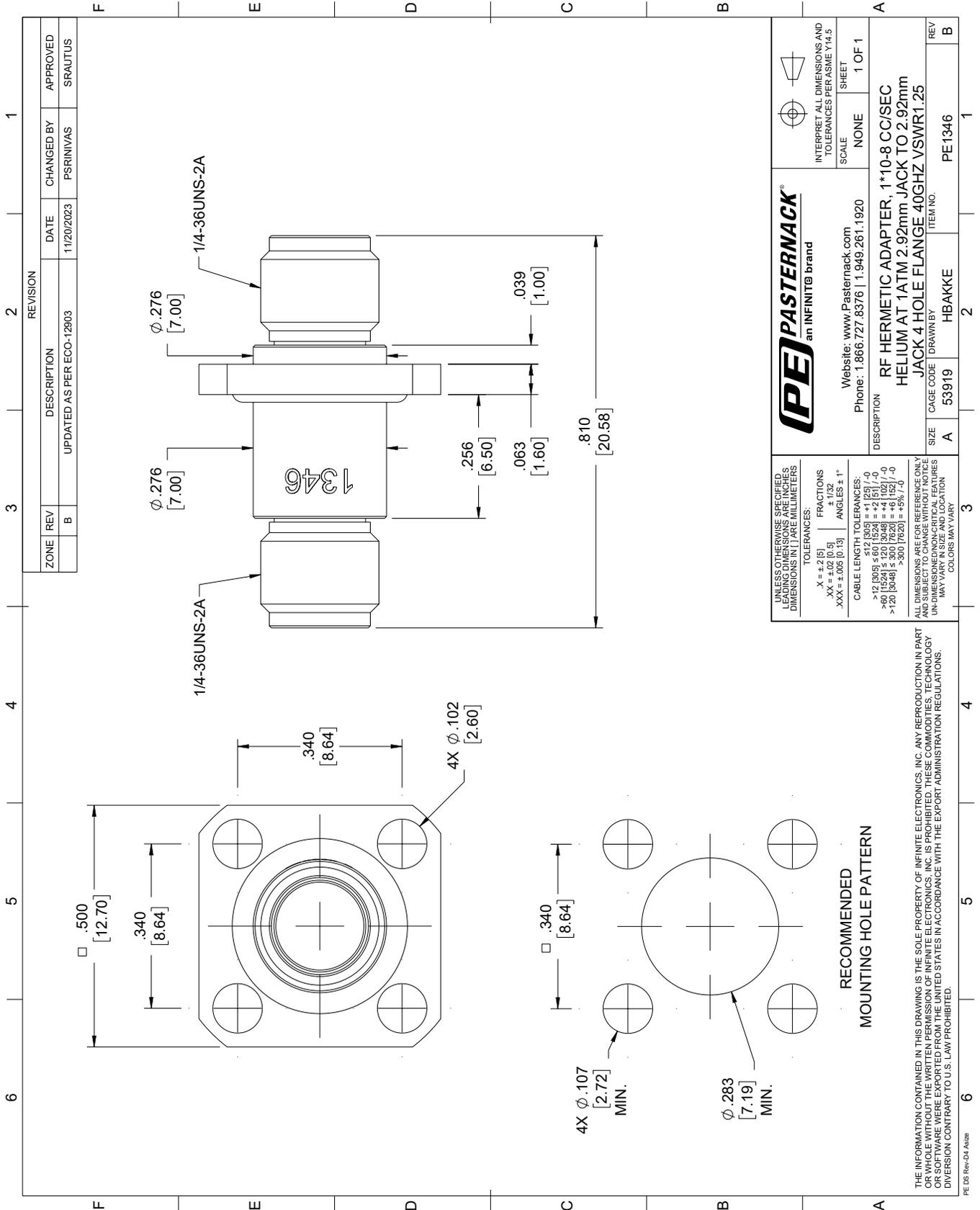
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Hermetically Sealed 2.92mm Female to 2.92mm Female 4 Hole Flange Mount Adapter, 40GHz VSWR1.25, MIL-STD-348B PE1346](#)

URL: <https://www.pasternack.com/hermetically-sealed-2.92mm-female-to-2.92mm-female-4-hole-flange-mount-adapter-40ghz-vswr1.25-mil-std-348b-pe1346-p.aspx>

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PE1346 CAD Drawing

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| REVISION | | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|----------|-----|--------------------------|------------|------------|----------|
| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
| | B | UPDATED AS PER ECO-12903 | 11/20/2023 | PSRINIVAS | SRAUTUS |

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

DESCRIPTION: RF HERMETIC ADAPTER, 1*10-8 CC/SEC HELIUM AT 1ATM 2.92mm JACK TO 2.92mm JACK 4 HOLE FLANGE 40GHZ VSWR1.25

SIZE: A CAGE CODE: 53919 DRAWN BY: HBAKKE ITEM NO.: PE1346

REV: B

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE DECIMAL DIMENSIONS IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
X = ±.2(5) FRACTIONS ± 1/32
XX = ±.02 [0.5] ANGLES ± 1°
XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
12 [305] ≤ L ≤ 60 [1524] = ±.031 [-0.001]
>60 [1524] ≤ L ≤ 120 [3048] = ±.063 [-0.001]
>120 [3048] ≤ L ≤ 300 [7620] = ±.126 [-0.001]
>300 [7620] = ±.252 [-0.001]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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PE DS Rev-D4 As28