



High Temperature Adapter 2.92mm Female to 2.4mm Female, 40GHz VSWR1.15, MIL-STD 348B

RF Adapters Technical Data Sheet

PE91649

Configuration

- 2.92mm Female Connector 1
- 2.4mm Female Connector 2
- 50 Ohm
- High Temperature Adapter Design
- Straight Body Geometry

Features

- Max VSWR of 1.15:1 up to 40 GHz
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- Allows Connection Between Series
- General Purpose Test

Description

Pasternack's PE91649 2.92mm female to 2.4mm female 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. The 2.4mm connector mates mechanically with commercially available 1.85mm (V) connectors. Our 2.92mm to 2.4mm adapter has a female to female gender configuration built of stainless steel in a high temperature adapter design. PE91649 2.92mm female to 2.4mm female adapter operates to 40 GHz. The Pasternack RF adapter provides excellent VSWR of 1.15:1 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 | | 40 | GHz |
| VSWR | | | 1.15:1 | |
| Insertion Loss | | | 0.32 | dB |
| Operating Voltage (AC) | | | 100 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 500 | Vrms |
| Insulation Resistance | 5,000 | | | MOhms |
| RF Leakage | | | 100 | dB |

Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 0.81 in [20.57 mm] |
| Width | 0.28 in [7.11 mm] |
| Height | 0.28 in [7.11 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [High Temperature Adapter 2.92mm Female to 2.4mm Female, 40GHz VSWR1.15, MIL-STD 348B PE91649](#)



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Weight 0.01 lbs [3.63 g]

| Description | Connector 1 | Connector 2 |
|--------------------------------------|----------------------------|-------------------------------------|
| Type | 2.92mm Female | 2.4mm Female |
| Polarity | Standard | Standard |
| Mating Cycles, Min | 500 | 500 |
| Mating Torque | 11.47 in-lbs [1.30 Nm] min | 7.08 to 9.74 in-lbs 0.80 to 1.10 Nm |
| Contact Captivation Axial Force, Min | 4.9 lbs [2.22 kg] | 4.5 lbs [2.04 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 | | 2.4mm Female | |
| Contact | Beryllium Copper | Gold over Nickel | Beryllium Copper | Gold over Nickel |
| Insulation | PEI | | PEI | |
| Body | Stainless Steel | Passivated | Stainless Steel | Passivated |

Environmental Specifications

Temperature

Operating Range -50 to +170 °C

Humidity

MIL-STD-202, Method 206

Thermal Shock

MIL-STD-202, Method 107, Condition B

Salt Spray

MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

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High Temperature Adapter 2.92mm Female to 2.4mm Female, 40GHz VSWR1.15, 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.

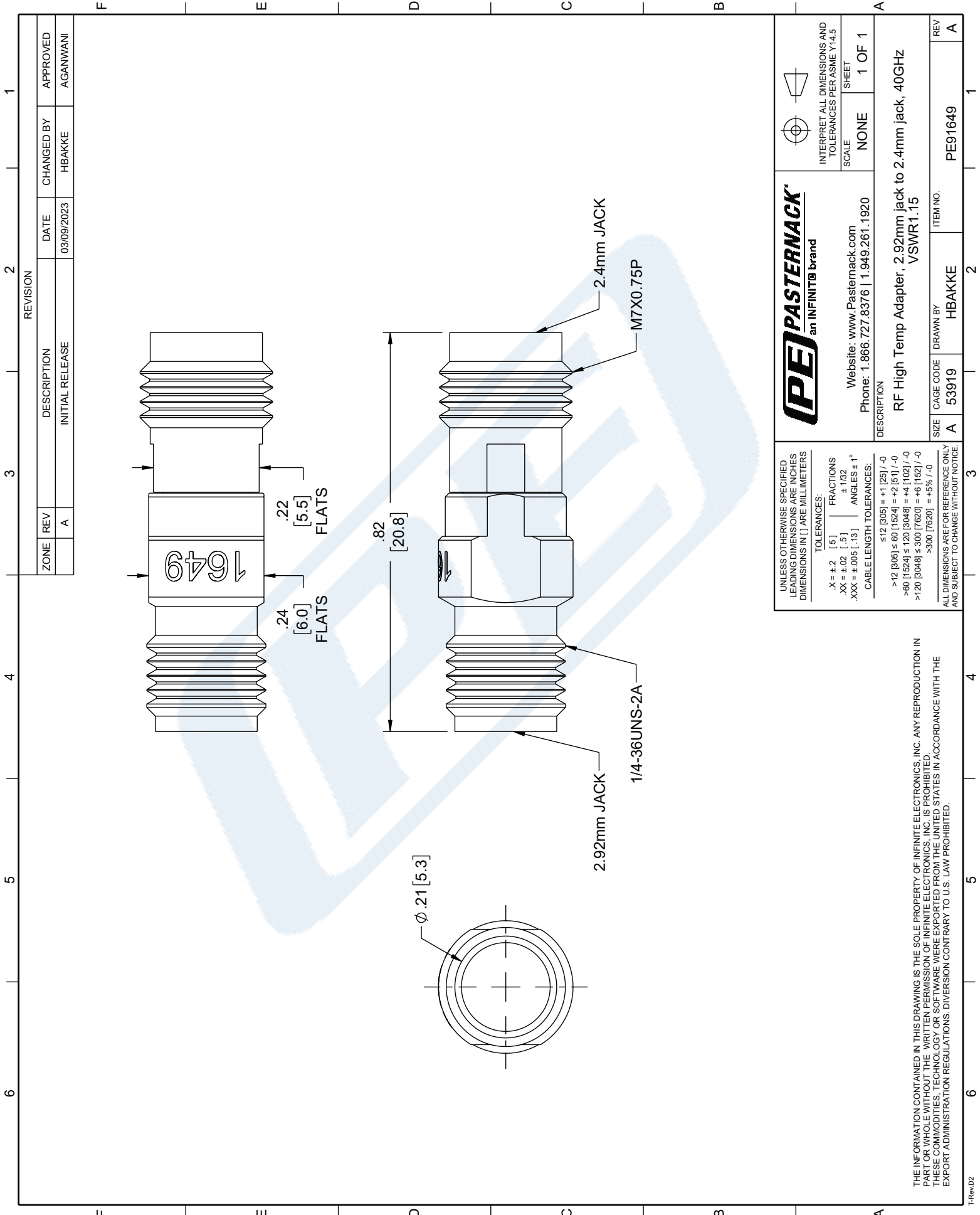
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [High Temperature Adapter 2.92mm Female to 2.4mm Female, 40GHz VSWR1.15, MIL-STD 348B PE91649](https://www.pasternack.com/high-temperature-adapter-2.92mm-female-to-2.4mm-female-adapter-40ghz-vswr1.15-mil-std-348b-pe91649-p.aspx)

URL: <https://www.pasternack.com/high-temperature-adapter-2.92mm-female-to-2.4mm-female-adapter-40ghz-vswr1.15-mil-std-348b-pe91649-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.

PE91649 CAD Drawing

High Temperature Adapter 2.92mm Female to 2.4mm
Female, 40GHz VSWR1.15, MIL-STD 348B



| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
| | A | INITIAL RELEASE | 03/09/2023 | HBAKKE | AGANWANI |

PE PASTERNAK
an INFINIT® brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION: RF High Temp Adapter, 2.92mm jack to 2.4mm jack, 40GHz VSWR1.15

SCALE: NONE SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

| | | | |
|------|-----------|----------|----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 53919 | HBAKKE | PE91649 |

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

TOLERANCES:
 X = ±.2 [5] | FRACTIONS ±.1032
 .XX = ±.02 [.5] | ANGLES ± 1°
 .XXX = ±.005 [.13]

CABLE LENGTH TOLERANCES:
 ≤12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

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