



2.4mm Male to 2.4mm Male Adapter, Stainless Steel, Engineering Grade

RF Adapters Technical Data Sheet

PE91605

Configuration

- 2.4mm Male Connector 1
- 2.4mm Male Connector 2
- 50 Ohm
- Engineering Grade Design
- Straight Body Geometry

Features

- Gold Plated Beryllium Copper Contact
- Max VSWR of 1.3:1 up to 50 GHz

Applications

- General Purpose Test

Description

Pasternack's PE91605 2.4mm male to 2.4mm male adapter is part of our full line of RF components available for same-day shipping. The 2.4mm connector mates mechanically with commercially available 1.85mm (V) connectors. Our 2.4mm to 2.4mm adapter has a male to male gender configuration built of durable stainless steel in an engineering grade design. PE91605 2.4mm male to 2.4mm male adapter operates to 50 GHz.

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 | | 50 | GHz |
| VSWR | | 1.3:1 | | |
| Dielectric Withstanding Voltage (AC) | | | 500 | Vrms |
| Insulation Resistance | 5,000 | | | MOhms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---------------------|---------|--------|---------|----------|----------|-------|
| Frequency Range | DC to 4 | 4 to 8 | 8 to 10 | 10 to 25 | 25 to 50 | GHz |
| Insertion Loss, Max | 0.1 | 0.141 | 0.158 | 0.25 | 0.354 | dB |

Electrical Specification Notes:
Values at sea level

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male to 2.4mm Male Adapter, Stainless Steel, Engineering Grade PE91605](#)



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Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 1.04 in [26.30 mm] |
| Width | 0.31 in [7.90 mm] |
| Height | 0.31 in [7.90 mm] |
| Weight | 0.01 lbs [4.54 g] |

| Description | Connector 1 | Connector 2 |
|--------------------------------------|---------------------------------------|-------------------------------------|
| Type | 2.4mm Male | 2.4mm Male |
| Polarity | Standard | Standard |
| Mating Cycles, Min | 500 | 500 |
| Mating Torque | 7.08 to 9.74 in-lbs [0.80 to 1.10 Nm] | 7.08 to 9.74 in-lbs 0.80 to 1.10 Nm |
| Contact Retention Force, Min | 60.7 lbs [27.53 kg] | 60.7 lbs [27.53 kg] |
| Contact Captivation Axial Force, Min | 4.5 lbs [2.04 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 | 2.4mm Male | | 2.4mm Male | |
| Contact | Beryllium Copper | Gold | Beryllium Copper | Gold |
| Insulation | PPO | | PPO | |
| Body | Stainless Steel | Passivated Stainless Steel | Stainless Steel | Passivated Stainless Steel |
| Coupling Nut | Beryllium Copper | Gold | Beryllium Copper | Gold |

Environmental Specifications

Temperature

Operating Range -55 to +105 °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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2.4mm Male to 2.4mm Male Adapter, Stainless Steel, Engineering Grade 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.

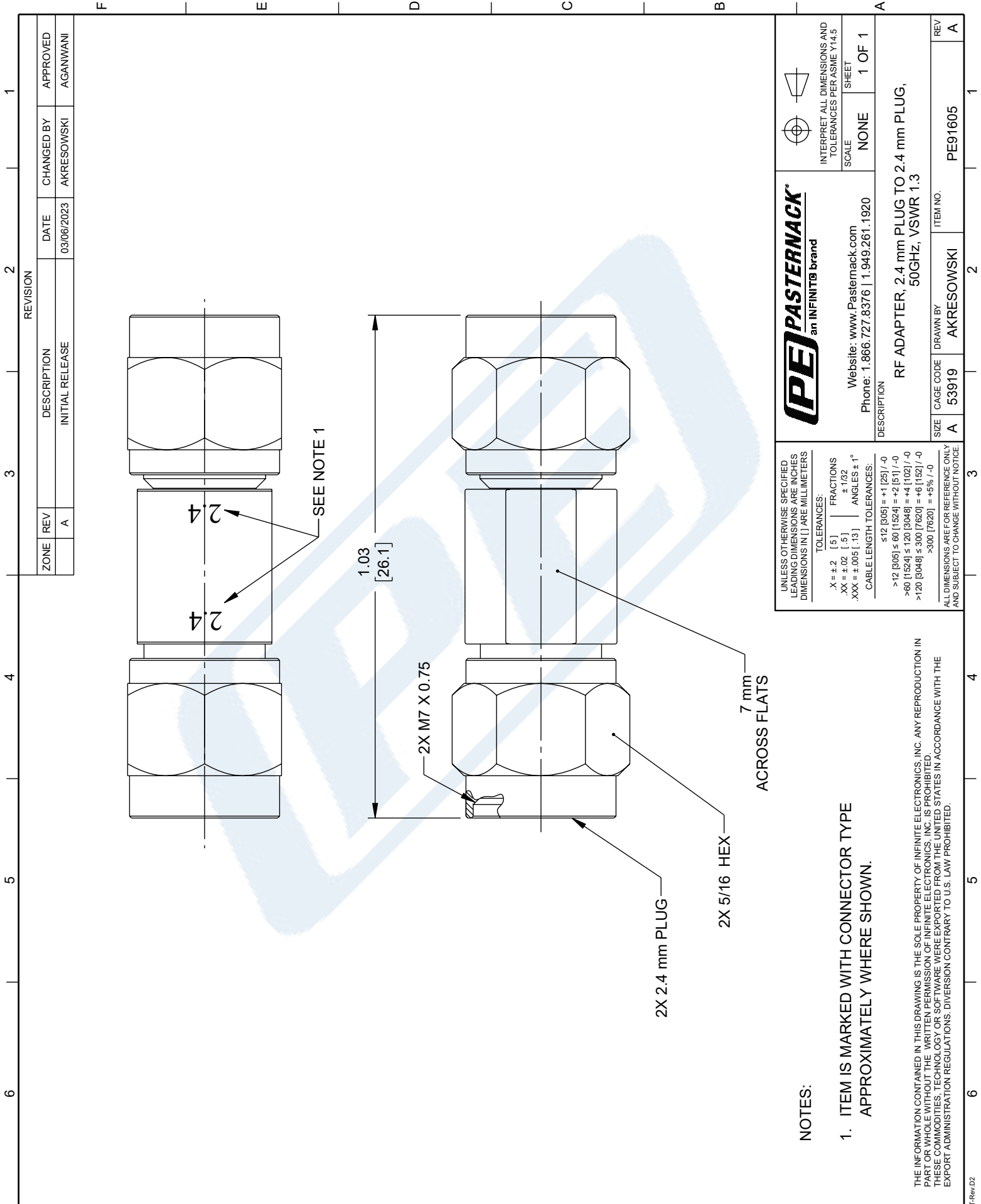
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male to 2.4mm Male Adapter, Stainless Steel, Engineering Grade PE91605](https://www.pasternack.com/2-4mm-male-to-2-4mm-male-adapter-stainless-steel-engineering-grade-pe91605-p.aspx)

URL: <https://www.pasternack.com/2-4mm-male-to-2-4mm-male-adapter-stainless-steel-engineering-grade-pe91605-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.

PE91605 CAD Drawing

2.4mm Male to 2.4mm Male Adapter, Stainless Steel, Engineering Grade



| ZONE | | REVISION | | DATE | | CHANGED BY | | APPROVED | |
|------|-----|-------------|-----------------|------------|------------|------------|--|----------|--|
| A | REV | DESCRIPTION | INITIAL RELEASE | 03/06/2023 | AKRESOWSKI | AGANWANI | | | |

PE PASTERNAK
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE: NONE SHEET: 1 OF 1

DESCRIPTION: RF ADAPTER, 2.4 mm PLUG TO 2.4 mm PLUG, 50GHZ, VSWR 1.3

| | | | |
|------|-----------|------------|----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 53919 | AKRESOWSKI | PE91605 |

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.

NOTES:

1. ITEM IS MARKED WITH CONNECTOR TYPE APPROXIMATELY WHERE SHOWN.

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