



3.5mm Female to 2.92mm Male Adapter

RF Adapters Technical Data Sheet

PE9659

Configuration

- 3.5mm Female Connector 1
- 2.92mm Male Connector 2
- 50 Ohms
- Straight Body Geometry

Features

- Max VSWR of 1.25:1 up to 34.5 GHz
- Gold over Nickel Plated Beryllium Copper Contact
- Contact Plating per MIL-G-45204

Applications

- Allows Connection Between Series
- General Purpose Test

Description

Pasternack's PE9659 3.5mm female to 2.92mm male adapter is part of our full line of RF components available for same-day shipping. The 3.5mm connector mates mechanically with commercially available SMA and 2.92mm (K) connectors. Our 3.5mm to 2.92mm adapter has a female to male gender configuration. PE9659 3.5mm female to 2.92mm male adapter operates to 34.5 GHz. The Pasternack RF adapter provides excellent VSWR of 1.25:1 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 | | 34.5 | GHz |
| VSWR | | | 1.25:1 | |
| Insertion Loss | | | 0.3 | dB |

Electrical Specification Notes:
 Values at 25°C, sea level.
 Insertion Loss (dB) = $0.05 \cdot \sqrt{f(\text{GHz})}$.

Mechanical Specifications

| | |
|-------------|---------------------|
| Size | |
| Length | 0.739 in [18.77 mm] |
| Width | 0.312 in [7.92 mm] |
| Weight | 0.011 lbs [4.99 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Female to 2.92mm Male Adapter PE9659](#)



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| Description | Connector 1 | Connector 2 |
|---------------|----------------------------------|-------------|
| Type | 3.5mm Female | 2.92mm Male |
| Polarity | Standard | Standard |
| Mating Cycles | 500 | 500 |
| Hex Size | | 5/16 in. |
| Mating Torque | 8 to 10 in-lbs [0.90 to 1.13 Nm] | |

Material Specifications

| Description | Connector 1 | | Connector 2 | |
|-----------------|---|---------------------------------|----------------------------|---------------------------------|
| | Material | Plating | Material | Plating |
| Type | 3.5mm Female | | 2.92mm Male | |
| Contact | Beryllium Copper | Gold over Nickel MIL-G-45204 | Beryllium Copper | Gold over Nickel MIL-G-45204 |
| Insulation | Oxide-Noryl | | Oxide-Noryl | |
| Outer Conductor | Passivated Stainless Steel ASTM A380 | | | |
| Body | | | Passivated Stainless Steel | ASTM A380 |
| Coupling Nut | | | Passivated Stainless Steel | ASTM A380 |

Environmental Specifications

Temperature

Operating Range -55 to +100 deg C

Vibration
Salt Spray

MIL-STD-202, Method 204, Cond. D (20G's)
MIL-STD-202, Method 101, Cond. B, 5% salt solution

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Female to 2.92mm Male Adapter PE9659](#)

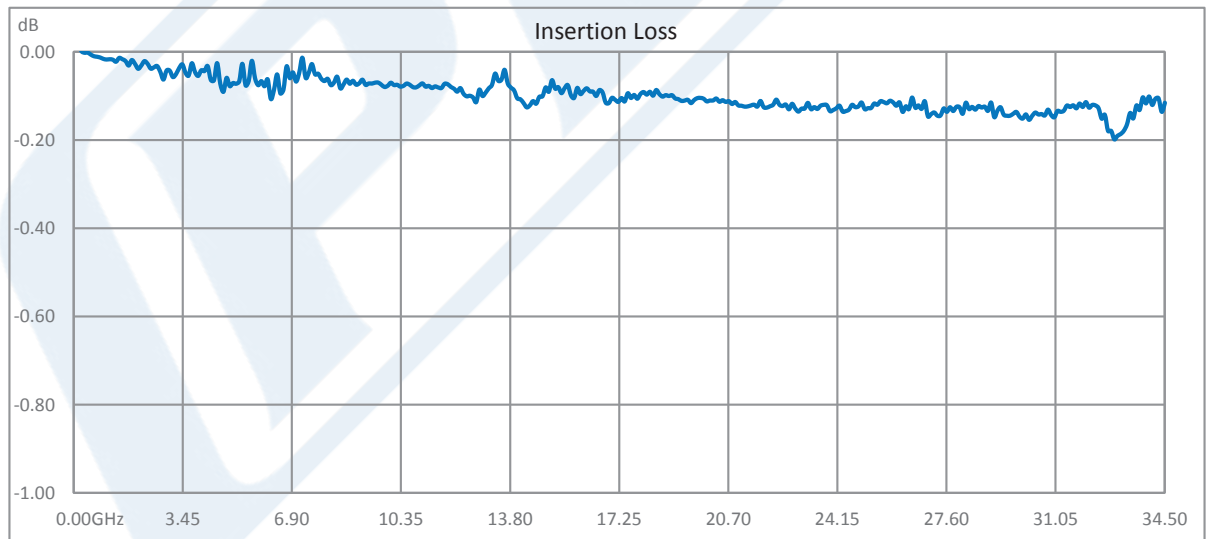
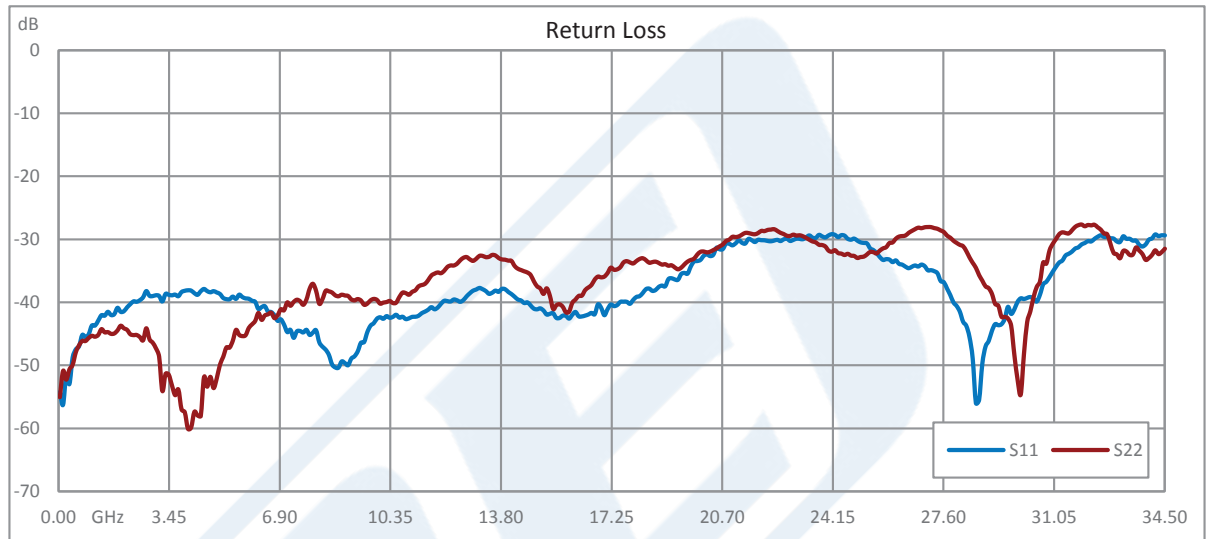


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Typical Performance Data



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3.5mm Female to 2.92mm Male Adapter from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

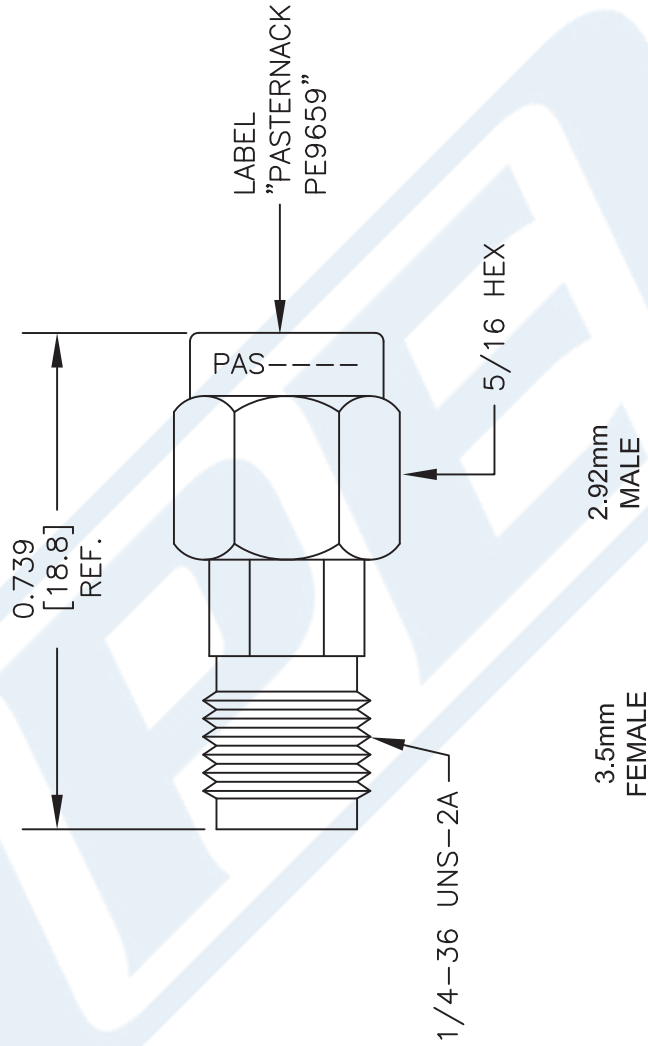
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Female to 2.92mm Male Adapter PE9659](#)

URL: <https://www.pasternack.com/3.5mm-female-2.92mm-male-straight-adapter-pe9659-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.

PE9659 CAD Drawing

3.5mm Female to 2.92mm Male Adapter



STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE9659

FSCM NO. 53919

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

CAD FILE 082416

SCALE N/A

SIZE A

41742