

## 1.35mm Female to 1.85mm Male Adapter, Engineering Grade



### PE910016

#### Configuration

- 1.35mm Female Connector 1
- 1.85mm Male Connector 2
- 50 Ohms Impedance
- Engineering Grade Design
- Straight Body Geometry

#### Features

- Max VSWR of 1.3:1 up to 67 GHz
- Gold Plated Beryllium Copper Contact

#### Applications

- Allows Connection Between Series
- General Purpose Test

#### Description

The engineering grade 1.35mm adapter PE910016 is part of our full line of available RF, microwave, and millimeter wave components from Pasternack. Our radio frequency adapter comes with a 50 Ohm impedance and a maximum VSWR of 1.3:1. This RF adapter has a female to male gender configuration, which provides easier connections in tighter spaces. The 1.35mm to 1.85mm adapter is an engineering grade adapter designed for repeated use in prototyping and lab applications for RF and microwave systems without performance degradation. Our 1.35mm to 1.85mm adapter is precision manufactured to RF component industry specifications and has a maximum frequency of 67 GHz. This engineering grade in-series RF adapter has a dielectric withstanding voltage of 500 Vrms.

This 1.35mm female to 1.85mm male adapter is one of the many RF components that ship the same business day as they are ordered. The PE910016 female 1.35mm to male 1.85mm adapter has a straight body. This Pasternack 1.35mm to 1.85mm coax adapter is an in-line RF adapter in an engineering grade design. Our RF adapter is often used to enable connections between two connector types that would otherwise not mate. Our adapter has a maximum insertion loss of 0.654 dB. This engineering grade RF adapter has a 0.354-inch length, 0.354-inch width, and 0.01 lbs weight.

The PE910016 adapter from Pasternack is made from a passivated stainless steel connector body and has a beryllium copper center contact. Our 1.35mm female to 1.85mm male radio frequency adapter can also be used to protect connectors on expensive equipment where the number of connect/disconnect cycles is high. This engineering grade RF adapter has an operating temperature range of -65 to 165 degrees C. Additional dimensions and specifications for this in-series adapter are on our downloadable PDF datasheet above.

Pasternack has one of the largest in-stock selections of 1.35mm to 1.85mm radio frequency engineering grade adapters for international and domestic orders, including custom cable assemblies. Make your online purchase right now to take advantage of our same-business-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the high-quality 67 GHz RF adapter that meets your requirements.

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 67      | GHz   |
| Impedance                            |         | 50      |         | Ohms  |
| VSWR                                 |         |         | 1.3:1   |       |
| Insertion Loss                       |         |         | 0.654   | dB    |
| Operating Voltage (AC)               |         |         | 350     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 500     | Vrms  |

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#### Electrical Specifications

| Description           | Minimum | Typical | Maximum | Units |
|-----------------------|---------|---------|---------|-------|
| Insulation Resistance | 5,000   |         |         | MOhms |

Electrical Specification Notes:  
Insertion loss is  $\approx .08 \times \sqrt{\text{FGHz}}$  dB

#### Mechanical Specifications

##### Size

|        |                    |
|--------|--------------------|
| Length | 0.35 in [8.99 mm]  |
| Width  | 0.35 in [8.99 mm]  |
| Height | 0.84 in [21.21 mm] |
| Weight | 0.02 lbs [6.80 g]  |

| Description        | Connector 1 | Connector 2 |
|--------------------|-------------|-------------|
| Polarity           | Standard    | Standard    |
| Mating Cycles, Min | 1,000       | 1,000       |

#### Material Specifications

| Description     | Connector 1                |         | Connector 2                |         |
|-----------------|----------------------------|---------|----------------------------|---------|
|                 | Material                   | Plating | Material                   | Plating |
| Type            | 1.35mm Female              |         | 1.85mm Male                |         |
| Contact         | Beryllium Copper           | Gold    | Beryllium Copper           | Gold    |
| Insulation      | PEI                        |         | PEI                        |         |
| Outer Conductor | Passivated Stainless Steel |         | Passivated Stainless Steel |         |
| Body            | Passivated Stainless Steel |         | Passivated Stainless Steel |         |

#### Environmental Specifications

##### Temperature

|                 |                                                            |
|-----------------|------------------------------------------------------------|
| Operating Range | -65 to +165 °C                                             |
| Shock           | Per MIL-STD-202, Method 213, Test Condition I              |
| Vibration       | Per MIL-STD-202, Method 204, Test Condition D              |
| Salt Spray      | Per MIL-STD-202, Method 101, Test Condition B, Solution 5% |

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**PE910016**

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

### Plotted and Other Data

1.35mm Female to 1.85mm Male Adapter, 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: [1.35mm Female to 1.85mm Male Adapter, Engineering Grade PE910016](#)

URL: <https://www.pasternack.com/1.35mm-female-to-1.85mm-male-adapter-pe910016-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE910016 CAD Drawing
1.35mm Female to 1.85mm Male Adapter, Engineering Grade

