

1.35mm Female to 1.85mm Female Adapter, Engineering Grade

PE910017



Configuration

- 1.35mm Female Connector 1
- 1.85mm Female 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 PE910017 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 female 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 female adapter is one of the many RF components that ship the same business day as they are ordered. The PE910017 female 1.35mm to female 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 0.758 dB. This engineering grade RF adapter has a 0.275-inch length, 0.275-inch width, and 0.011 lbs weight.

The PE910017 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 female 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			0.758	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	0.28 in [6.99 mm]
Width	0.28 in [6.99 mm]
Height	0.87 in [22.20 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 Female	
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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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

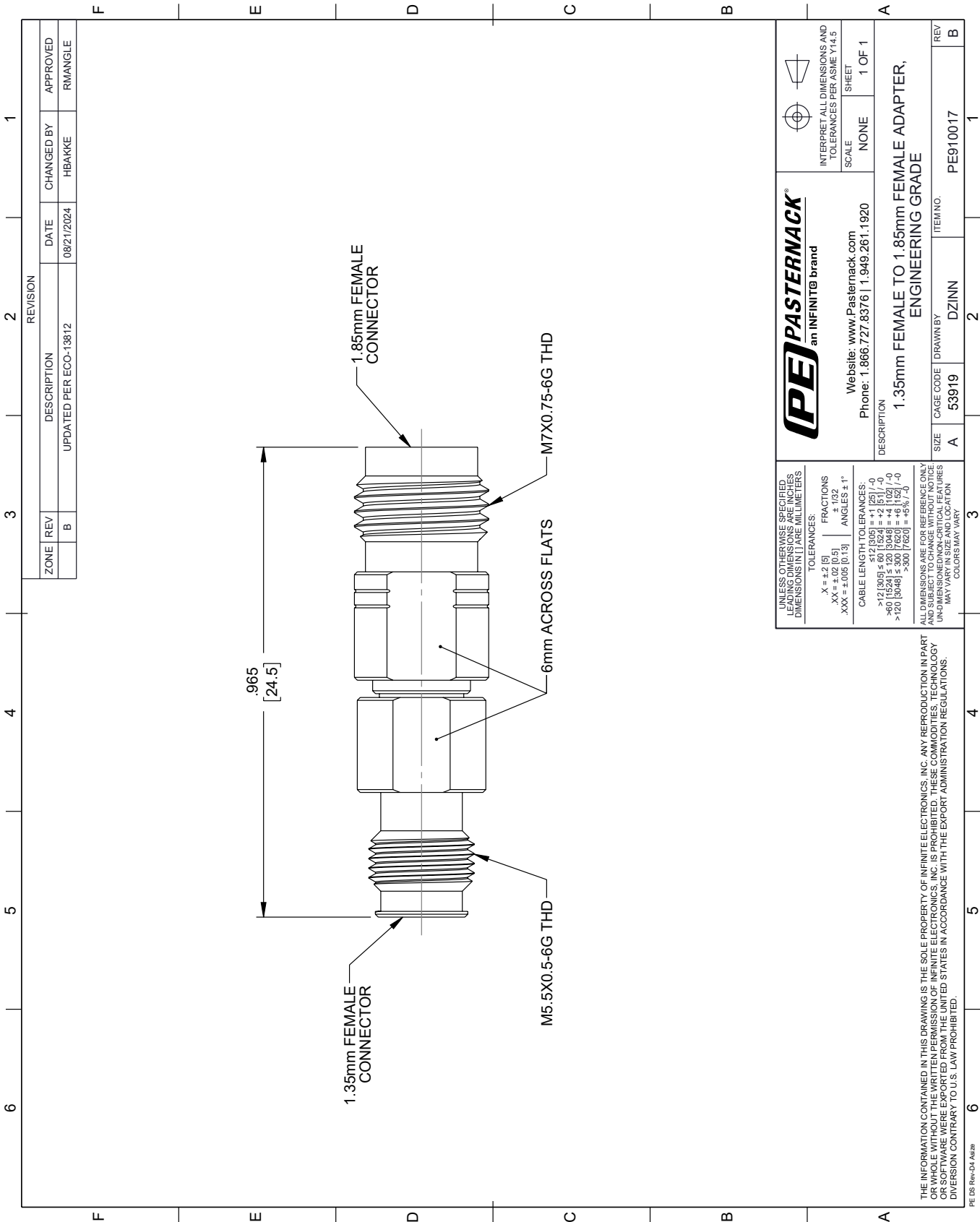
1.35mm Female to 1.85mm Female Adapter, Engineering Grade from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 Female Adapter, Engineering Grade PE910017](#)

URL: <https://www.pasternack.com/1.35mm-female-to-1.85mm-female-adapter-pe910017-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.

PE910017 CAD Drawing
1.35mm Female to 1.85mm Female Adapter, Engineering Grade



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	B	08/21/2024	HBAKKE	RMANGLE
DESCRIPTION		UPDATED PER ECO-13812		

(PE) PASTERNAK an INFINITI® brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.		TOLERANCES:		SCALE: NONE	
.X = ±.2 [5]		FRACTIONS ± 1/32		SHEET 1 OF 1	
.XX = ±.02 [0.5]		ANGLES ± 1°			
.XXX = ±.005 [0.13]					
CABLE LENGTH TOLERANCES:					
>12 [305] ≤ 60 [1524] = ±1 [25] / -0					
>60 [1524] ≤ 120 [3048] = ±4 [102] / -0					
>120 [3048] ≤ 300 [7620] = ±6 [152] / -0					
>300 [7620] = ±8% / 0					
ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.					
DESCRIPTION		ITEM NO.			
1.35mm FEMALE TO 1.85mm FEMALE ADAPTER, ENGINEERING GRADE		PE910017			
SIZE		CAGE CODE		REV	
A		53919		B	
DRAWN BY		DZINN			

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PE D9 Rev-D4 Addn