

1.85mm Female to 2.4mm Female Adapter, Stainless Steel, Engineering Grade



RF Adapters Technical Data Sheet

PE91617

Configuration

- 1.85mm Female Connector 1
- 2.4mm Female Connector 2
- •50 Ohm

- Engineering Grade Design
- Straight Body Geometry

Features

• Max VSWR of 1.3:1 up to 50 GHz

Gold Over Nickel Plated Beryllium Copper Contact

Applications

Allows Connection Between Series

General Purpose Test

Description

Pasternack's PE91617 1.85mm female to 2.4mm female adapter is part of our full line of RF components available for same-day shipping. The 1.85mm connector mates mechanically with commercially available 2.4mm connectors. Our 1.85mm to 2.4mm adapter has a female to female gender configuration built of durable stainless steel in a engineering grade design. PE91617 1.85mm female to 2.4mm female adapter operates to 50 GHz. The Pasternack RF adapter provides good VSWR of 1.3:1 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		50	GHz
VSWR			1.3:1	
Operating Voltage (AC)			150	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage			100	dB

Performance by Frequency

F1	F2	F3	F4	F5	Units
DC to 2.5	2.5 to 5	5 to 10	10 to 20	20 to 50	GHz
0.095	0.134	0.19	0.268	0.424	dB
		DC to 2.5 2.5 to 5	DC to 2.5 2.5 to 5 5 to 10	DC to 2.5 2.5 to 5 5 to 10 10 to 20	DC to 2.5 2.5 to 5 5 to 10 10 to 20 20 to 50

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1.85mm Female to 2.4mm Female Adapter, Stainless Steel, Engineering Grade PE91617

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



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Mechanical Specifications

Size

 Length
 0.88 in [22.30 mm]

 Width
 0.31 in [7.90 mm]

 Height
 0.31 in [7.90 mm]

 Weight
 0.08 lbs [36.29 g]

Description	Connector 1	Connector 2
Туре	1.85mm Female	2.4mm Female
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 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

	Connector 1		Connector 2		
Description	Material	Plating	Material	Plating	
Туре	1.85mm Female		2.4mm Female		
Contact	Beryllium Copper	Gold Over Nickel	Beryllium Copper	Gold Over Nickel	
Insulation	PPO		PPO		
Body	Stainless Steel	Passivated	Stainless Steel	Passivated	
Coupling Nut	Stainless Steel	Passivated	Stainless Steel	Passivated	

Environmental Specifications

Temperature

Operating Range -65 to +165 °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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1.85mm Female to 2.4mm Female 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: 1.85mm Female to 2.4mm Female Adapter, Stainless Steel, Engineering Grade PE91617

URL: https://www.pasternack.com/engineering-grade-1.85mm-female-to-2.4mm-female-adapter-pe91617-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.

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PE91617 CAD Drawing

1.85mm Female to 2.4mm Female Adapter, Stainless Steel, Engineering Grade INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 ⋖ APPROVED AGANWANI 1 OF RF ADAPTER, 1.85 mm JACK TO 2.4 mm JACK 50GHz VSWR1.3 PE91617 NONE **(** CHANGED BY DZINN 2.4 mm JACK PASTERNACK ITEM NO. Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 03/24/2023 DATE an INFINIT® brand -M7 X 0.75 N DZINN REVISION **DRAWN BY** INITIAL RELEASE DESCRIPTION CAGE CODE 53919 7 mm ACROSS FLATS SIZE **SEE NOTE 1** ⋖ ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. ± 1/32 ANGLES ± 1° <12 [305] = +1 [25] /-0</p>
>12 [305] ≤ 60 [1524] = +2 [51] /-0
>60 [1524] ≤ 120 [3048] = +4 [102] /-0
>120 [3048] ≤ 300 [7620] = +6 [152] /-0 UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILL IMETERS FRACTIONS CABLE LENGTH TOLERANCES: >300 [7620] = +5% / -0 TOLERANCES REV ⋖ $\begin{array}{c} X = \pm .2 & [5] \\ XX = \pm .02 & [.5] \\ XXX = \pm .005 & [.13] \end{array}$ [22.3] ZONE 88 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBÍTED.

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