

# 1.85mm Male to 1.85mm Female Adapter, Stainless Steel, Engineering Grade



# **RF Adapters Technical Data Sheet**

PE91603

# Configuration

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

- Engineering Grade Design
- Straight Body Geometry

## **Features**

Gold Plated Beryllium Copper Contact

• Max VSWR of 1.35:1 up to 70 GHz

# **Applications**

Connector Saver

General Purpose Test

#### Description

Pasternack's PE91603 1.85mm male to 1.85mm 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 1.85mm adapter has a male to female gender configuration built of durable stainless steel in a engineering grade design. PE91603 1.85mm male to 1.85mm female adapter operates to 70 GHz. The PE91603 Pasternack RF adapter can also be used as a connector saver to extend equipment life.

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**

			Units
DC		70	GHz
	1.35:1		
		500	Vrms
5,000			MOhms
		1.35:1	1.35:1

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 8	8 to 15	15 to 35	35 to 70	GHz
Insertion Loss, Max	0.1	0.141	0.194	0.296	0.418	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: 1.85mm Male to 1.85mm Female Adapter, Stainless Steel, Engineering Grade PE91603

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

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# **Mechanical Specifications**

Size

 Length
 0.93 in [23.60 mm]

 Width
 0.31 in [7.90 mm]

 Height
 0.31 in [7.90 mm]

 Weight
 0.02 lbs [9.07 g]

1.85mm Male Standard	Connector 2  1.85mm Female  Standard
Standard	
	Standard
=00	
500	500
8 to 9.74 in-lbs [0.80 to 1.10 Nr	m] 7.08 to 9.74 in-lbs 0.80 to 1.10 Nm
4.5 lbs [2.04 kg]	4.5 lbs [2.04 kg]
15 in-lbs [1.7 Nm]	15 in-lbs [1.7 Nm]
	4.5 lbs [2.04 kg]

## **Material Specifications**

	Con	nector 1	Connector 2		
Description	Material	Plating	Material	Plating	
Туре	1.85mm Male		1.85mm Female		
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold	
Insulation	PPO	. 7	PPO		
Outer Conductor			Beryllium Copper	Gold	
Body	Stainless Steel	Passivated Stainless Steel	Stainless Steel	Passivated Stainless Steel	
Coupling Nut	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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1.85mm Male to 1.85mm 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.

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URL: https://www.pasternack.com/1-85mm-male-to-1-85mm-female-adapter-stainless-steel-engineering-grade-pe91603-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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