

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



PE91616

RF Adapters Technical Data Sheet

Configuration

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

Features

• Max VSWR of 1.3:1 up to 50 GHz

Applications

- Allows Connection Between Series
- General Purpose Test

Engineering Grade Design

Gold Over Nickel Plated Beryllium Copper Contact

Straight Body Geometry

Description

Pasternack's PE91616 1.85mm female to 2.4mm male 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 male gender configuration built of durable stainless steel in a engineering grade design. PE91616 1.85mm female to 2.4mm male 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

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2.5	2.5 to 5	5 to 10	10 to 20	20 to 50	GHz
Insertion Loss, Max	0.095	0.134	0.19	0.268	0.424	dB

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 Male Adapter, Stainless Steel, Engineering Grade PE91616

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 Width Height Weight	0.96 in [24.50 mm] 0.31 in [7.90 mm] 0.31 in [7.90 mm] 0.12 lbs [54.43 g]			
Description	Connector 1	Connector 2		
Туре	1.85mm Female	2.4mm Male		
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

	Conne	ector 1	Connector 2		
Description	Material	Plating	Material	Plating	
Туре	1.85mm Female		2.4mm Male		
Contact	Beryllium Copper	Gold Over Nickel	Beryllium Copper	Gold Over Nickel	
Insulation	PPO		PPO		
Outer Conductor			Stainless Steel	Passivated	
Body	Stainless Steel	Passivated	Stainless Steel	Passivated	
Gasket	Silicone		Silicone		
Coupling Nut	Stainless Steel	Passivated	Stainless Steel	Passivated	

Environmental Specifications

Temperature				
Operating Rang	je			

-65 to +165 °C

Humidity Thermal Shock Salt Spray MIL-STD-202, Method 206 MIL-STD-202, Method 107, Condition B 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 Male 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/engineering-grade-1.85mm-female-to-2.4mm-male-adapter-pe91616-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.

