

1.0mm Female to 1.0mm Female Adapter, Engineering Grade



PE910020

Configuration

- 1.0mm Female Connector 1
- 1.0mm Female Connector 2
- 50 Ohms Impedance
- Engineering Grade Design
- Straight Body Geometry

Features

- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test

Description

Pasternack's PE910020 1.0mm female to 1.0mm female adapter is part of our full line of RF components available for same-day shipping. Our 1.0mm to 1.0mm adapter has a female to female gender configuration built of durable stainless steel in an engineering grade design. PE910020 1.0mm female to 1.0mm female adapter operates to 110 GHz.

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		110	GHz
Impedance		50		Ohms
VSWR		1.3:1		
Insertion Loss			0.839	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length	0.26 in [6.71 mm]
Width	0.26 in [6.71 mm]
Height	0.59 in [14.99 mm]
Weight	0.08 lbs [36.29 g]

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

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Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	1.0mm Female		1.0mm Female	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
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%

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

Plotted and Other Data

1.0mm Female to 1.0mm 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: [1.0mm Female to 1.0mm Female Adapter, Engineering Grade PE910020](#)

URL: <https://www.pasternack.com/engineering-grade-1.0mm-female-to-1.0mm-female-adapter-pe910020-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.

PE910020 CAD Drawing
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