

1.85mm Plug to 1.85mm Plug 30 Degree Adapter



PE910114

Configuration

- 1.85mm Plug Connector 1
- 1.85mm Plug Connector 2
- 50 Ohms Impedance
- 30 Degree Body Geometry

Features

- Max VSWR of 1.35:1 up to 67 GHz
- Gold Over Nickel-Phosphorus Alloy Over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test

Description

Pasternack's PE910114 1.85mm plug to 1.85mm plug 30 degree 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 plug to plug gender configuration built of durable stainless steel. PE910114 1.85mm plug to 1.85mm plug adapter operates to 67 GHz. The Pasternack RF adapter provides good VSWR of 1.35:1 maximum. This 30 degree 1.85mm to 1.85mm adapter allows for easier connections in tight spaces.

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		67	GHz
Impedance		50		Ohms
VSWR			1.35:1	
Insertion Loss			0.654	dB
Operating Voltage (AC)			150	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage			100	dB

Mechanical Specifications

Size

Length	1.02 in [25.81 mm]
Width	0.31 in [7.92 mm]
Height	0.50 in [12.80 mm]
Weight	0.02 lbs [7.12 g]

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Description	Connector 1	Connector 2
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

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	1.85mm Plug		1.85mm Plug	
Contact	Beryllium Copper	Gold Over Nickel-Phosphorus Alloy Over Copper	Beryllium Copper	Gold Over Nickel-Phosphorus Alloy Over Copper
Insulation	PPO		PPO	
Body	Passivated Stainless Steel		Passivated Stainless Steel	
Gasket	Silicone		Silicone	
Coupling Nut	Passivated Stainless Steel		Passivated Stainless Steel	

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

1.85mm Plug to 1.85mm Plug 30 Degree Adapter 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 Plug to 1.85mm Plug 30 Degree Adapter PE910114](#)

URL: <https://www.pasternack.com/1.85mm-plug-to-1.85mm-plug-30-degree-adapter-pe910114.html>

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.

PE910114 CAD Drawing
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