

SMA Plug to SMA Plug 30 Degree Adapter



PE910123

Configuration

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

Features

- Max VSWR of 1.15:1 up to 18 GHz
- Gold Over Nickel-Phosphorus Alloy Over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test

Description

Pasternack's PE910123 SMA plug to SMA plug 30 degree adapter is part of our full line of RF components available for same-day shipping. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. Our SMA to SMA adapter has a plug to plug gender configuration built of durable stainless steel. PE910123 SMA plug to SMA plug adapter operates to 18 GHz. The Pasternack RF adapter provides excellent VSWR of 1.15:1 maximum. This 30 degree SMA to SMA 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		18	GHz
Impedance		50		Ohms
VSWR			1.15:1	
Insertion Loss			0.254	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length	1.06 in [26.90 mm]
Width	0.31 in [7.94 mm]
Height	0.52 in [13.11 mm]
Weight	0.02 lbs [8.21 g]

Description	Connector 1	Connector 2
Polarity	Standard	Standard

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Description	Connector 1	Connector 2
Mating Cycles, Min	500	500
Mating Torque	7 to 9.5 in-lbs 0.79 to 1.07 Nm	7 to 9.5 in-lbs 0.79 to 1.07 Nm
Contact Retention Force, Min	60.7 lbs [27.53 kg]	60.7 lbs [27.53 kg]
Contact Captivation Axial Force, Min	6.1 lbs [2.77 kg]	6.1 lbs [2.77 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	SMA Plug		SMA Plug	
Contact	Beryllium Copper	Gold Over Nickel-Phosphorus Alloy Over Copper	Beryllium Copper	Gold Over Nickel-Phosphorus Alloy Over Copper
Insulation	PTFE		PTFE	
Body	Passivated Stainless Steel		Passivated Stainless Steel	
Gasket	Silicone		Silicone	

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

SMA Plug to SMA 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: [SMA Plug to SMA Plug 30 Degree Adapter PE910123](#)

URL: <https://www.pasternack.com/sma-plug-to-sma-plug-30-degree-adapter-pe910123.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.

PE910123 CAD Drawing

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