



Precision QD SMA Male to SMA Female Adapter

RF Adapters Technical Data Sheet

PE9774

Configuration

- QD SMA Male Connector 1
- SMA Female Connector 2
- 50 Ohms
- Precision Design
- Straight Body Geometry

Features

- Max VSWR of 1.14:1 up to 18 GHz
- 50 μ m minimum contact plating
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Precision Test & Measurement

Description

Pasternack's PE9774 precision QD SMA male to SMA female 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. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. Our SMA to SMA adapter has a male to female gender configuration in a precision design. PE9774 SMA male to SMA female adapter operates to 18 GHz. The Pasternack RF adapter provides excellent VSWR of 1.14:1 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		18	GHz
VSWR			1.14:1	
Insertion Loss			0.26	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
High Potential Voltage (at 4 and 7 MHz)			1,000	Vrms
Corona Discharge (at 70,000 ft)			375	Vrms
Inner Conductor DC Resistance			4	mOhms
Outer Conductor DC Resistance			2	mOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Precision QD SMA Male to SMA Female Adapter PE9774](#)



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Insulation Resistance 5,000 MOhms

Electrical Specification Notes:
Values at 25°C, sea level.
VSWR = $1.05 + 0.005 \times (\text{fGHz})$.
Insertion Loss = $0.06 \times \sqrt{\text{fGHz}}$ dB.
RF Leakage -90 dB max at 2.5 GHz.

Mechanical Specifications

Size

Length 1.08 in [27.43 mm]
Width 0.505 in [12.83 mm]
Weight 0.006 lbs [2.72 g]

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Polarity	Standard	Standard
Mating Cycles	1,000	1,000
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]	

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	QD SMA Male		SMA Female	
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PTFE		PTFE	
Outer Conductor	Beryllium Copper	Gold over Nickel 10 µin minimum	Brass	Gold 10 µin minimum
Coupling Nut	Beryllium Copper	Nickel 50 µin minimum		

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

Humidity

MIL-STD-202, Method 106

Shock

MIL-STD-202, Method 213, Test Cond. I

Vibration

MIL-STD-202, Method 204, Test Cond. D

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Thermal Shock
Salt Spray

MIL-STD-202, Method 107, Test Cond. B
MIL-STD-202, Method 101, Test Cond. B

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

Plotted and Other Data

Notes:

Precision QD SMA Male to SMA Female Adapter from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

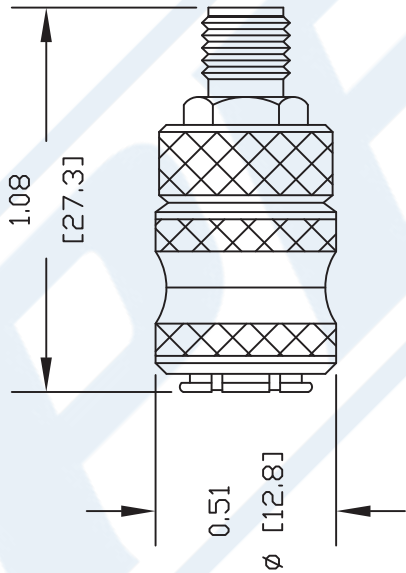
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URL: <https://www.pasternack.com/sma-male-sma-female-straight-adapter-pe9774-p.aspx>

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.

PE9774 CAD Drawing

Precision QD SMA Male to SMA Female Adapter



NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE9774

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SCALE N/A

SIZE A

127