

SMA Female to SMC Female Adapter

PE910034



Configuration

- SMA Female Connector 1
- SMC Female Connector 2

Features

- SMA interface compliant with MIL-STD-348B
- SMC interface compliant with MIL-STD-348B
- 50 Ohms Impedance
- Straight Body Geometry
- Gold over Nickel over Copper Plated Beryllium Copper Contact

Applications

- Allows Connection Between Series
- General Purpose Test

Description

Pasternack's PE910034 SMA female to SMC 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. Our SMA to SMC adapter has a female to female gender configuration. PE910034 SMA female to SMC female adapter operates to 10 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 | | 10 | GHz |
| Impedance | 50 | | | Ohms |
| VSWR | 1.2:1 | | | |
| Insertion Loss | | 0.316 | | dB |
| Operating Voltage (AC) | | 250 | | Vrms |
| Dielectric Withstanding Voltage (AC) | | 750 | | Vrms |
| Insulation Resistance | 5,000 | | | MOhms |

Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 0.82 in [20.85 mm] |
| Width | 0.54 in [13.74 mm] |
| Height | 0.54 in [13.74 mm] |
| Weight | 0.01 lbs [4.54 g] |

| Description | Connector 1 | Connector 2 |
|-------------------------|--------------|--------------|
| Polarity | Standard | Standard |
| Interface Specification | MIL-STD-348B | MIL-STD-348B |

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| Description | Connector 1 | Connector 2 |
|--------------------------------------|---------------------|-----------------------------------|
| Mating Cycles, Min | 100 | 500 |
| Mating Torque | | 2.2 to 3.1 in-lbs 0.25 to 0.35 Nm |
| Contact Captivation Axial Force, Min | 6.1 lbs [2.77 kg] | 2.25 lbs [1.02 kg] |
| Coupling Proof Torque | 5.3 in-lbs [0.6 Nm] | 6.2 in-lbs [0.7 Nm] |

Material Specifications

| Description | Connector 1 | | Connector 2 | |
|-------------|------------------|------------------------------|------------------|------------------------------|
| | Material | Plating | Material | Plating |
| Type | SMA Female | | SMC Female | |
| Contact | Beryllium Copper | Gold over Nickel over Copper | Beryllium Copper | Gold over Nickel over Copper |
| Insulation | PTFE | | PTFE | |
| Body | Brass | Gold over Nickel over Copper | Brass | Gold over Nickel over Copper |

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 Female to SMC Female 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 Female to SMC Female Adapter PE910034](#)

URL: <https://www.pasternack.com/sma-female-to-smc-female-adapter-pe910034.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.

PE910034 CAD Drawing

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