



## SMP Female to SMP Female Adapter 6.45mm Long Bullet

### RF Adapters Technical Data Sheet

PE9777

#### Configuration

- SMP Female Connector 1
- SMP Female Connector 2
- 50 Ohms
- Straight Body Geometry

#### Features

- SMP Interface compliant with MIL-STD-348A
- Gold Plated Beryllium Copper Contact

#### Applications

- General Purpose Test

#### Description

Pasternack's PE9777 SMP female to SMP female adapter is part of our full line of RF components available for same-day shipping. Our SMP to SMP adapter has a female to female gender configuration. PE9777 SMP female to SMP female adapter operates to 26.5 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		26.5	GHz
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 12	12 to 18			GHz
Return Loss, Max	-26	-20	-13			dB

Electrical Specification Notes:  
 Values at 25°C, sea level.  
 Insertion loss (dB) = 0.05 x sqrt(FGHz) max., DC to 18 GHz.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female to SMP Female Adapter 6.45mm Long Bullet PE9777](#)



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**Mechanical Specifications**

**Size**

Length	0.25 in [6.35 mm]
Width	0.14 in [3.56 mm]
Weight	0.027 lbs [12.25 g]

Description	Connector 1	Connector 2
Type	SMP Female	SMP Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348A	MIL-STD-348A

**Material Specifications**

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMP Female		SMP Female	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Insulation	PTFE		PTFE	
Outer Conductor	Beryllium Copper	Gold	Beryllium Copper	Gold

**Environmental Specifications**

**Temperature**

Operating Range -65 to +155 deg C

Humidity

MIL-STD-202, Method 106

Shock

MIL-STD-202, Method 213, Condition A

Vibration

MIL-STD-202, Method 204, Condition B

Thermal Shock

MIL-STD-202, Method 107, Condition B

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

**Plotted and Other Data**

Notes:

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SMP Female to SMP Female Adapter 6.45mm Long Bullet 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.

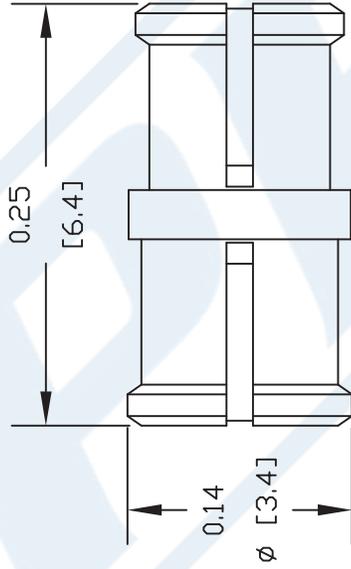
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female to SMP Female Adapter 6.45mm Long Bullet PE9777](https://www.pasternack.com/smp-female-smp-female-straight-adapter-pe9777-p.aspx)

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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.

# PE9777 CAD Drawing

SMP Female to SMP Female Adapter 6.45mm Long Bullet



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

**PE9777**

REV. -

FSCM NO. 53919

CAD FILE 091506

SCALE N/A

SIZE A

127

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**COAXIAL & FIBER OPTICS**

