

## Precision SMA Male to SMP Male Full Detent Adapter

### PE91717



#### Configuration

- SMA Male Connector 1
- Full Detent SMP Male Connector 2
- 50 Ohm

#### Features

- Max VSWR of 1.2:1 up to 26.5 GHz
- SMA interface compliant with MIL-STD-348

#### Applications

- Allows Connection Between Series
- General Purpose Test
- Precision Test & Measurement

#### Description

Pasternack's PE91717 SMA male to SMP male full detent 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 SMP adapter has a male to male gender configuration built of durable stainless steel in a precision design. PE91717 SMA male to SMP male adapter operates to 26.5 GHz. The Pasternack RF adapter provides excellent VSWR of 1.2:1 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		26.5	GHz
Impedance		50 Ohm		
VSWR			1.2:1	
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			2,000	Vrms
Insulation Resistance	5,000			MOhms

#### Electrical Specification Notes:

Insertion loss:  $0.12 \times \text{SQRT}[F(\text{GHz})] \text{dB MAX}$

#### Mechanical Specifications

##### Size

- Length
- Width
- Height
- Weight

- 0.82 in [20.80 mm]
- 0.32 in [8.00 mm]
- 0.32 in [8.00 mm]
- 0.01 lbs [4.54 g]

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Description	Connector 1	Connector 2
Type	SMA Male	SMP Male
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348
Mating Cycles, Min	500	100
Hex Size	5/16 in.	
Mating Torque	0.315 in-lbs 0.04 Nm min	

### Material Specifications

Description	Connector 1		Connector 2	
Description	Material	Plating	Material	Plating
Type	SMA Male		Full Detent SMP Male	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Insulation	PTFE		PTFE	
Outer Conductor	Passivated Stainless Steel			
Body	Passivated Stainless Steel		Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel			

### Environmental Specifications

#### Temperature

Operating Range

-65 to +165 °C

### Compliance Certifications

(see product page for current document)

### Plotted and Other Data

Precision SMA Male to SMP Male Full Detent 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: [Precision SMA Male to SMP Male Full Detent Adapter PE91717](#)

URL: <https://www.pasternack.com/sma-male-smp-male-straight-adapter-pe91717-p.aspx>

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.

# PE91717 CAD Drawing

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