



## Precision SMA Male to SMA Male Radius Right Angle Adapter, Gold Plated

### RF Adapters Technical Data Sheet

PE91154

#### Configuration

- SMA Male Connector 1
- SMA Male Connector 2
- 50 Ohm
- Precision Design
- Radius Right Angle Body Geometry

#### Features

- Max VSWR of 1.14:1 up to 18 GHz
- SMA interface compliant with MIL-STD-348
- Contact plating according to ASTM B-488
- Gold Plated Contact

#### Applications

- General Purpose Test
- Precision Test & Measurement

#### Description

Pasternack's PE91154 precision SMA male to SMA male radius right angle 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 male to male gender configuration built of durable stainless steel in a precision design. PE91154 SMA male to SMA male adapter is gold plated and operates to 18 GHz. The Pasternack RF adapter provides excellent VSWR of 1.14:1 maximum. This radius right angle 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
VSWR			1.14:1	
Insertion Loss			0.34	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
High Potential Voltage (at 5 MHz)			670	Vrms
Corona Discharge (at 70,000 ft)			250	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

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 SMA Male Radius Right Angle Adapter, Gold Plated PE91154](#)



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RF Leakage -72 dB

Electrical Specification Notes:  
Values at 25°C, sea level.  
VSWR =  $1.05 + 0.005 \times (\text{fGHz})$ .  
Insertion Loss =  $0.08 \times \sqrt{\text{fGHz}}$  dB.  
RF Leakage =  $-(90 - \text{fGHz})$  dB max.

**Mechanical Specifications**

**Size**

Length 0.436 in [11.07 mm]  
Width 0.312 in [7.92 mm]  
Weight 0.012 lbs [5.44 g]

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348
Mating Cycles	500	500
Hex Size	5/16 in.	5/16 in.
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]	8 to 10 in-lbs [0.90 to 1.13 Nm]

**Material Specifications**

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Male		SMA Male	
Contact	Beryllium Copper	Gold ASTM B-488	Beryllium Copper	Gold ASTM B-488
Insulation	PTFE		PTFE	
Body	Stainless Steel	Gold ASTM B-488	Stainless Steel	Gold ASTM B-488
Coupling Nut	Stainless Steel	Gold ASTM B-488	Stainless Steel	Gold ASTM B-488

**Environmental Specifications**

**Temperature**

Operating Range -55 to +125 deg C

**Humidity**

MIL-STD-202, Method 106

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Shock  
Vibration  
Thermal Shock  
Salt Spray

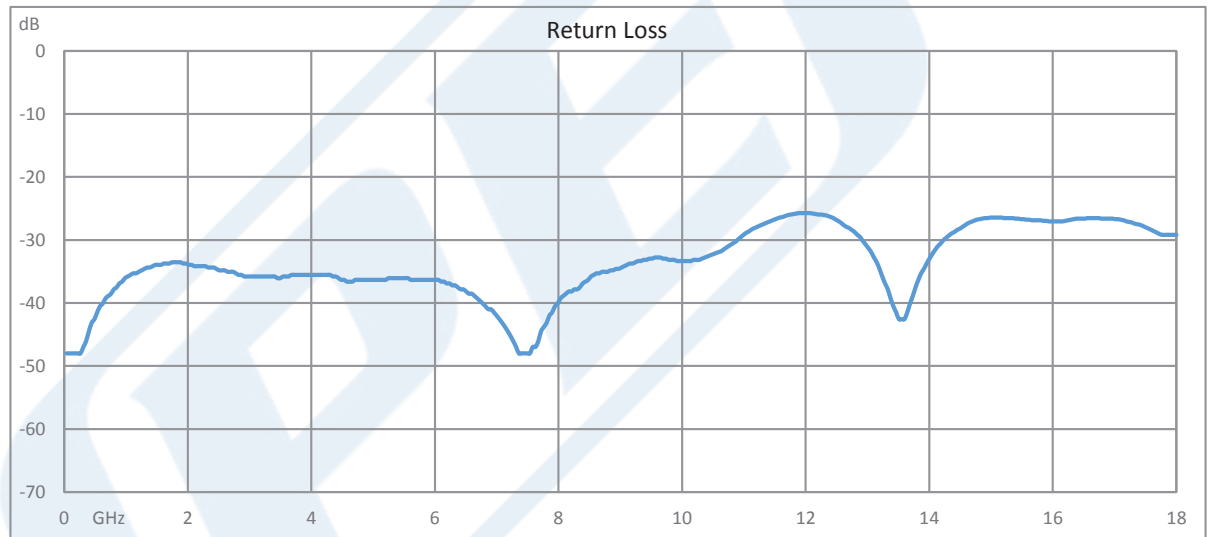
MIL-STD-202, Method 213, Test Cond. I  
MIL-STD-202, Method 204, Test Cond. D  
MIL-STD-202, Method 107, Test Cond. A  
MIL-STD-202, Method 101, Test Cond. B

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



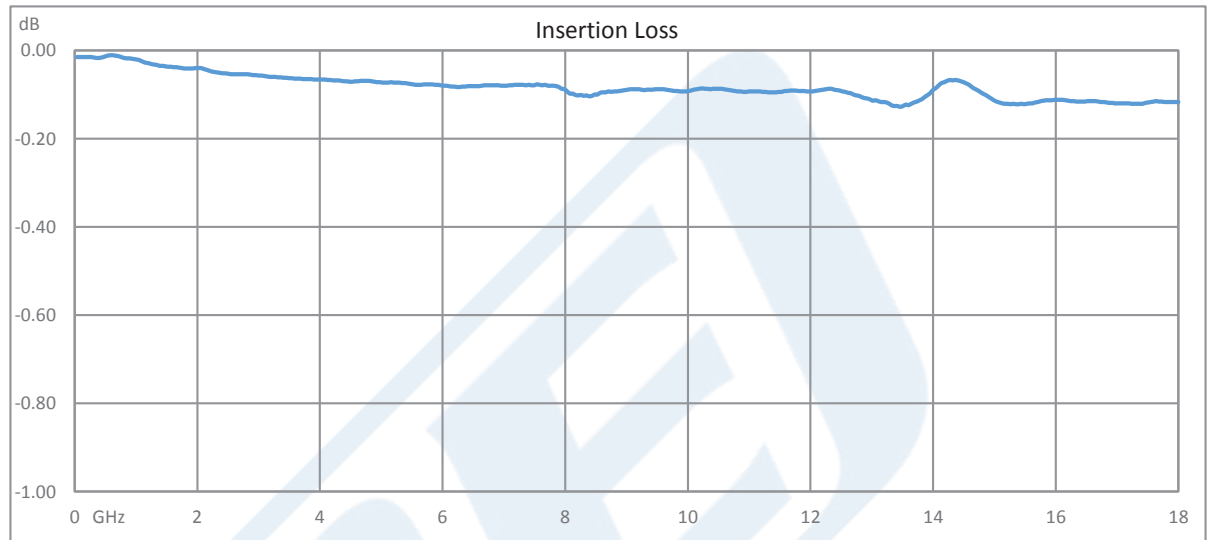
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Precision SMA Male to SMA Male Radius Right Angle Adapter, Gold Plated PE91154](#)



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Precision SMA Male to SMA Male Radius Right Angle Adapter, Gold Plated 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.

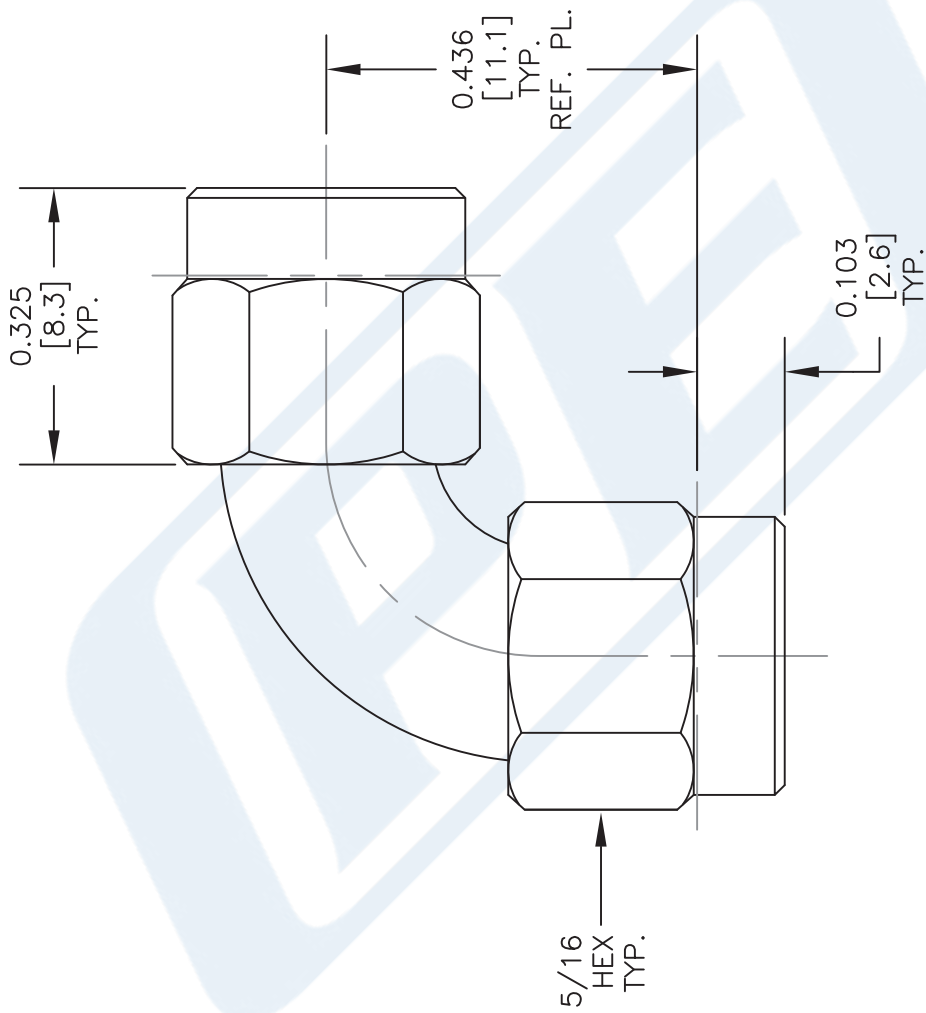
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

# PE91154 CAD Drawing

Precision SMA Male to SMA Male Radius Right Angle Adapter, Gold Plated



## STANDARD TOLERANCES

.X ±0.2  
.XX ±0.1  
.XXX ±0.05

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

**PE91154**

FSCM NO. 53919

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].

CAD FILE 021814

SCALE N/A

SIZE A

2233