



## SMA Male to SMA Male Radius Right Angle Adapter, Up To 40 GHz

### RF Adapters Technical Data Sheet

PE91327

#### Configuration

- SMA Male Connector 1
- SMA Male Connector 2
- 50 Ohms
- Radius Right Angle Body Geometry

#### Features

- Max VSWR of 1.25:1 up to 18 GHz
- SMA interface compliant with MIL-STD-348A
- Contact plating according to ASTM B-488
- Gold Plated Beryllium Copper Contact

#### Applications

- General Purpose Test

#### Description

Pasternack's PE91327 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. 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. PE91327 SMA male to SMA male adapter operates to 18 GHz. The Pasternack RF adapter provides excellent VSWR of 1.25:1 maximum. This low profile radius right angle 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			1.25:1	
Insertion Loss			0.2	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: [SMA Male to SMA Male Radius Right Angle Adapter, Up To 40 GHz PE91327](#)



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RF Leakage -72 dB

Electrical Specification Notes:  
 Values at 25°C, sea level.  
 RF Leakage = -(90 - fGHz) dB max.

### Mechanical Specifications

#### Size

Length 0.73 in [18.54 mm]  
 Width 0.312 in [7.92 mm]  
 Height 0.73 in [18.54 mm]  
 Weight 0.01494 lbs [6.78 g]

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Polarity	Standard	Standard
Interface Specification	MIL-STD-348A	MIL-STD-348A
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	Passivated Stainless Steel	ASTM A-967	Passivated Stainless Steel	ASTM A-967
Coupling Nut	Passivated Stainless Steel		Passivated Stainless Steel	ASTM A-967

### Environmental Specifications

#### Temperature

Operating Range -65 to +165 deg C

#### Humidity

MIL-STD-202, Method 106

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## SMA Male to SMA Male Radius Right Angle Adapter, Up To 40 GHz

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Shock  
Vibration  
Thermal Shock  
Salt Spray

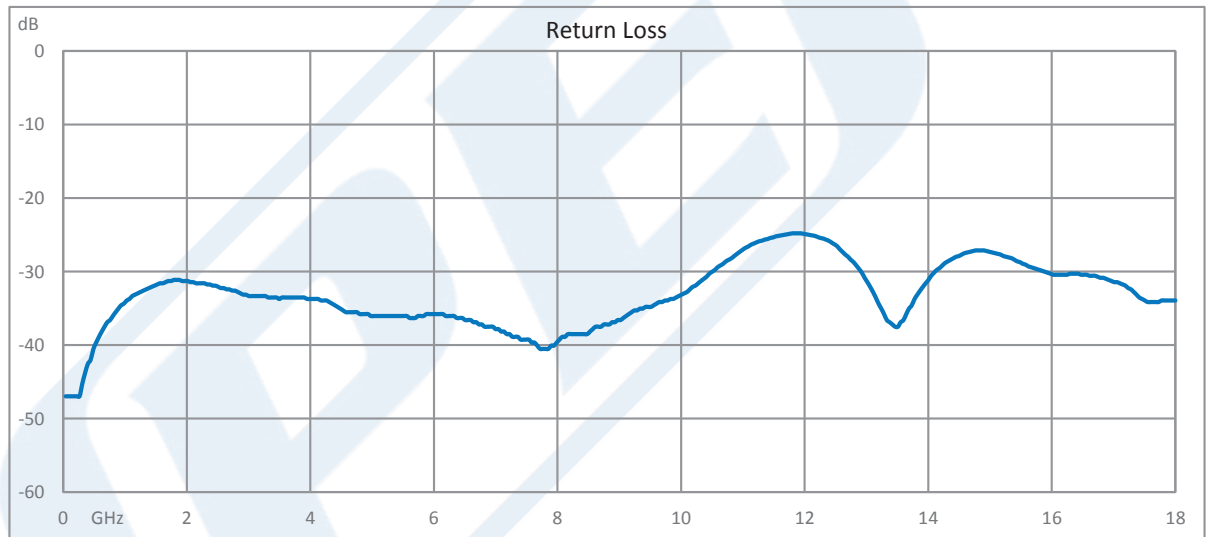
MIL-STD-202, Method 213, Test Cond. I  
MIL-STD-202, Method 204, Test Cond. D  
MIL-STD-202, Method 107, Test Cond. B  
MIL-STD-202, Method 101, Test Cond. B

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data



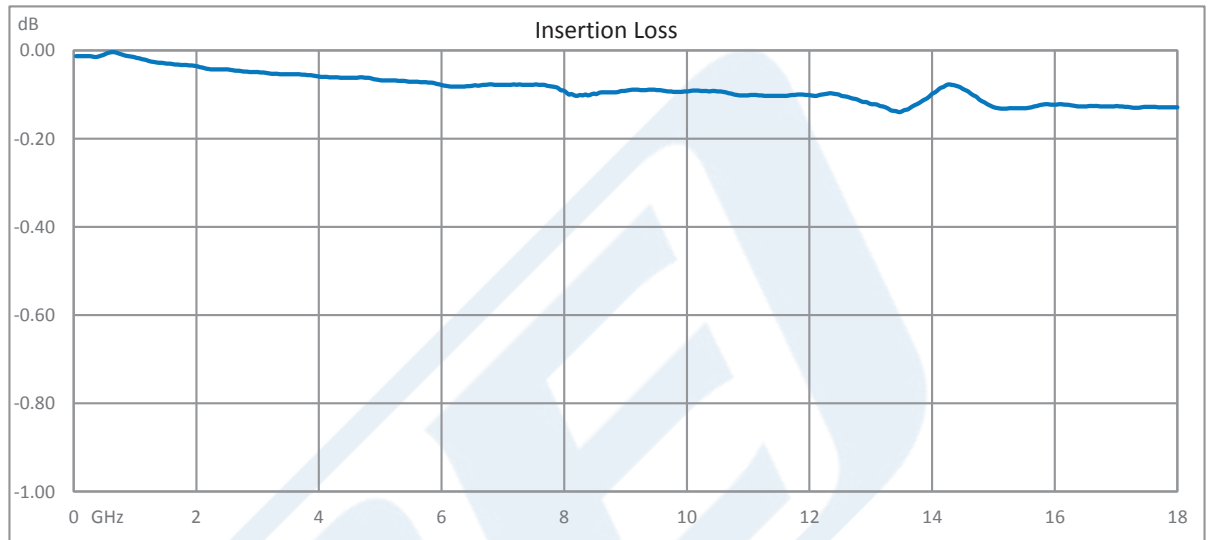
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SMA Male to SMA Male Radius Right Angle Adapter, Up To 40 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

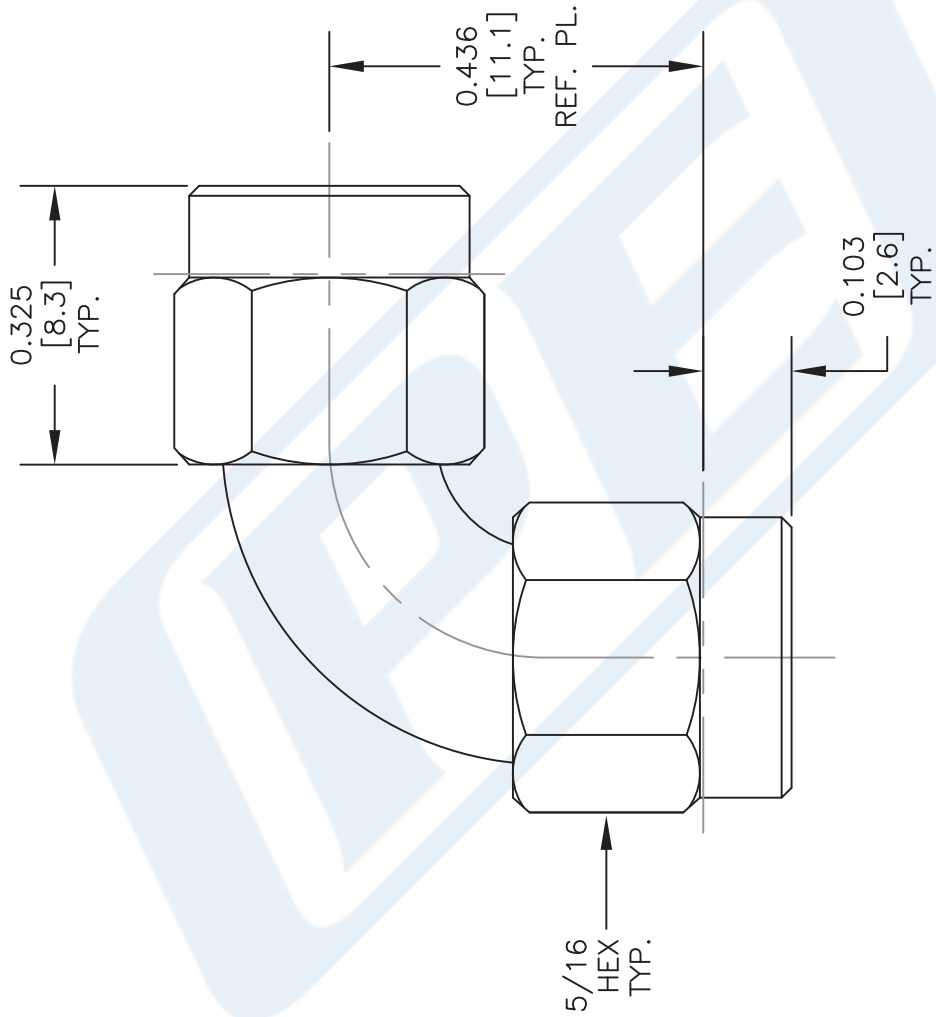
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

# PE91327 CAD Drawing

SMA Male to SMA Male Radius Right Angle Adapter, Up To 40 GHz



**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

**PE91327**

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].

FSCM NO. 53919

CAD FILE 041715

SCALE N/A

SIZE A

2233