



## SMA Female to SMA Female Radius Right Angle Adapter MIL-STD-202, Method 106

### RF Adapters Technical Data Sheet

**PE91325**

#### Configuration

- SMA Female Connector 1
- SMA Female 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-348
- Gold Plated Beryllium Copper Contact
- Contact Plating per ASTM B-488

#### Applications

- General Purpose Test

#### Description

Pasternack's PE91325 SMA female to SMA female radius right angle adapter mil-std-202, method 106 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 female to female gender configuration built of durable stainless steel. PE91325 SMA female to SMA female 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<br>(min. @ 5MHz) |         |         | 670     | Vrms  |
| Corona Discharge<br>(@ 70,000 ft.)      |         |         | 250     | Vrms  |
| Inner Conductor DC Resistance           |         |         | 3       | mOhms |
| Outer Conductor DC Resistance           |         |         | 2       | mOhms |
| Insulation Resistance                   | 5,000   |         |         | MOhms |
| RF Leakage                              |         |         | 72      | dB    |

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 SMA Female Radius Right Angle Adapter MIL-STD-202, Method 106 PE91325](#)



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**Mechanical Specifications**

**Size**

|        |                     |
|--------|---------------------|
| Length | 0.585 in [14.86 mm] |
| Width  | 0.26 in [6.6 mm]    |
| Height | 0.585 in [14.86 mm] |
| Weight | 0.008 lbs [3.63 g]  |

| Description             | Connector 1            | Connector 2            |
|-------------------------|------------------------|------------------------|
| Type                    | SMA Female             | SMA Female             |
| Polarity                | Standard               | Standard               |
| Interface Specification | MIL-STD-348            | MIL-STD-348            |
| Mating Cycles           | 500                    | 500                    |
| Mating Torque           | 2 in-lbs [0.23 Nm] max | 2 in-lbs [0.23 Nm] max |

**Material Specifications**

| Description     | Connector 1                |                    | Connector 2                |                    |
|-----------------|----------------------------|--------------------|----------------------------|--------------------|
|                 | Material                   | Plating            | Material                   | Plating            |
| Type            | SMA Female                 |                    | SMA Female                 |                    |
| Contact         | Beryllium Copper           | Gold<br>ASTM B-488 | Beryllium Copper           | Gold<br>ASTM B-488 |
| Insulation      | PTFE<br>Permeability: <2   |                    | PTFE<br>Permeability: <2   |                    |
| Outer Conductor | Passivated Stainless Steel | ASTM A-967         | Passivated Stainless Steel | ASTM A-967         |
| Body            | Passivated Stainless Steel | ASTM A-967         | Passivated Stainless Steel | ASTM A-967         |

**Environmental Specifications**

**Temperature**

Operating Range -65 to +165 deg C

**Humidity**

**Shock**

**Vibration**

**Thermal Shock**

**Salt Spray**

MIL-STD-202, Method 106  
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

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**RF Adapters Technical Data Sheet**

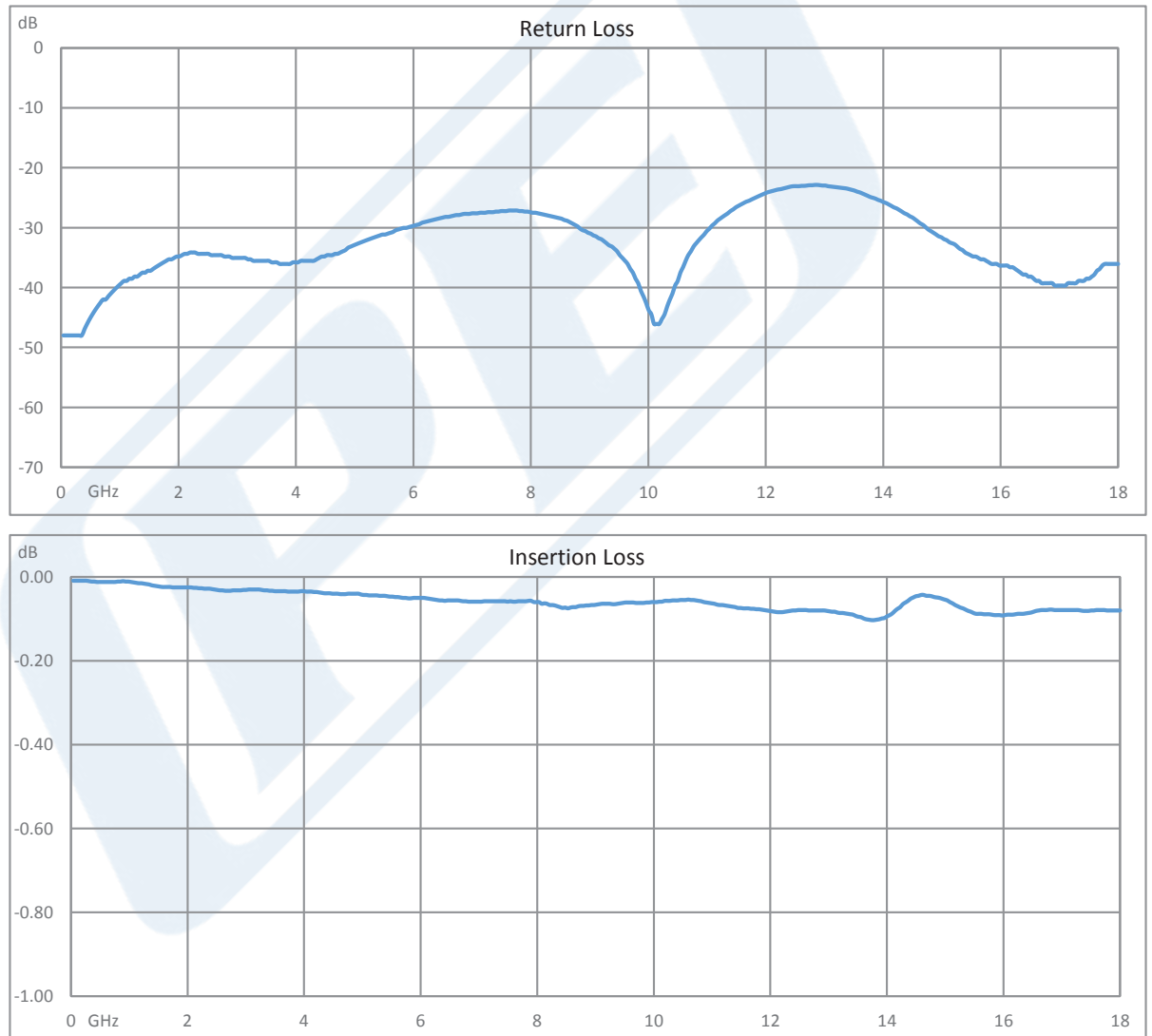
**PE91325**

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



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SMA Female to SMA Female Radius Right Angle Adapter MIL-STD-202, Method 106 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.

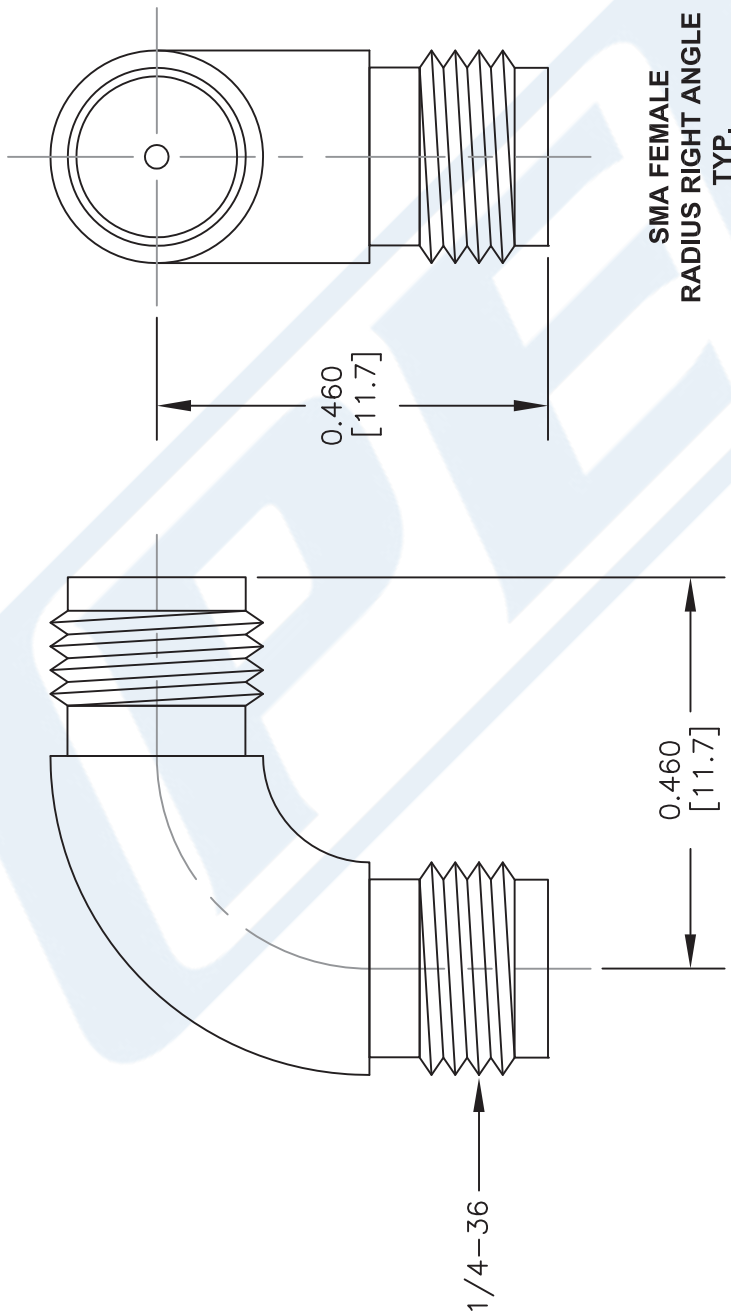
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to SMA Female Radius Right Angle Adapter MIL-STD-202, Method 106 PE91325](https://www.pasternack.com/sma-female-sma-female-radius-right-angle-adapter-pe91325-p.aspx)

URL: <https://www.pasternack.com/sma-female-sma-female-radius-right-angle-adapter-pe91325-p.aspx>

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.

PE91325 CAD Drawing

SMA Female to SMA Female Radius Right Angle Adapter MIL-STD-202, Method 106



STANDARD TOLERANCES

.XX ±0.15  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE91325

FSCM NO. 53919

CAD FILE 022015

SCALE N/A

SIZE A

2233

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].