



## Mini SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

### RF Connectors Technical Data Sheet

**PE44493**

#### Configuration

- Mini SMP Female Connector
- MIL-STD-348A
- 50 Ohms

- Right Angle Body Geometry
- Connector Interface Types: PE-047SR, PE-SR047AL, PE-SR047FL

#### Features

- Max. Operating Frequency 12 GHz
- Gold Plated Beryllium Copper Contact

- Blind Mate Connector

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE44493 Mini SMP female right angle connector with solder attachment for PE-047SR, PE-SR047AL and PE-SR047FL is part of our full line of RF components available for same-day shipping. Our Mini SMP female connector operates up to a maximum frequency of 12 GHz. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated. Its right angle body geometry allows for easier connections in tight spaces.

Our Mini SMP female right angle connector PE44493 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

| Description                   | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|---------|---------|-------|
| Frequency Range               | DC      |         | 12      | GHz   |
| Operating Voltage (AC)        |         |         | 325     | 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 6 | 6 to 12 |    |    |    | GHz   |
| VSWR, Max       | 1.11:1  | 1.23:1  |    |    |    |       |

Electrical Specification Notes:

Insertion loss =  $0.05 \times \sqrt{f(\text{GHz})}$  dB max up to 12 GHz.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE44493](#)



## Mini SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

### RF Connectors Technical Data Sheet

**PE44493**

#### Mechanical Specifications

**Size**

|            |                      |
|------------|----------------------|
| Length     | 0.24 in [6.1 mm]     |
| Width/Dia. | 0.136 in [3.45 mm]   |
| Height     | 0.2 in [5.08 mm]     |
| Weight     | 0.00073 lbs [0.33 g] |

#### Material Specifications

| Description     | Material         | Plating |
|-----------------|------------------|---------|
| Contact         | Beryllium Copper | Gold    |
| Insulation      | PTFE             |         |
| Outer Conductor | Beryllium Copper | Gold    |
| Body            | Brass            | Gold    |

#### Mechanical Specification Notes:

Mating cycles: 500 (smooth bore), 100 (full detent) minimum.

#### Environmental Specifications

**Temperature**

|                 |                                      |
|-----------------|--------------------------------------|
| Operating Range | -55 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 A |
| 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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## Mini SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

### RF Connectors Technical Data Sheet

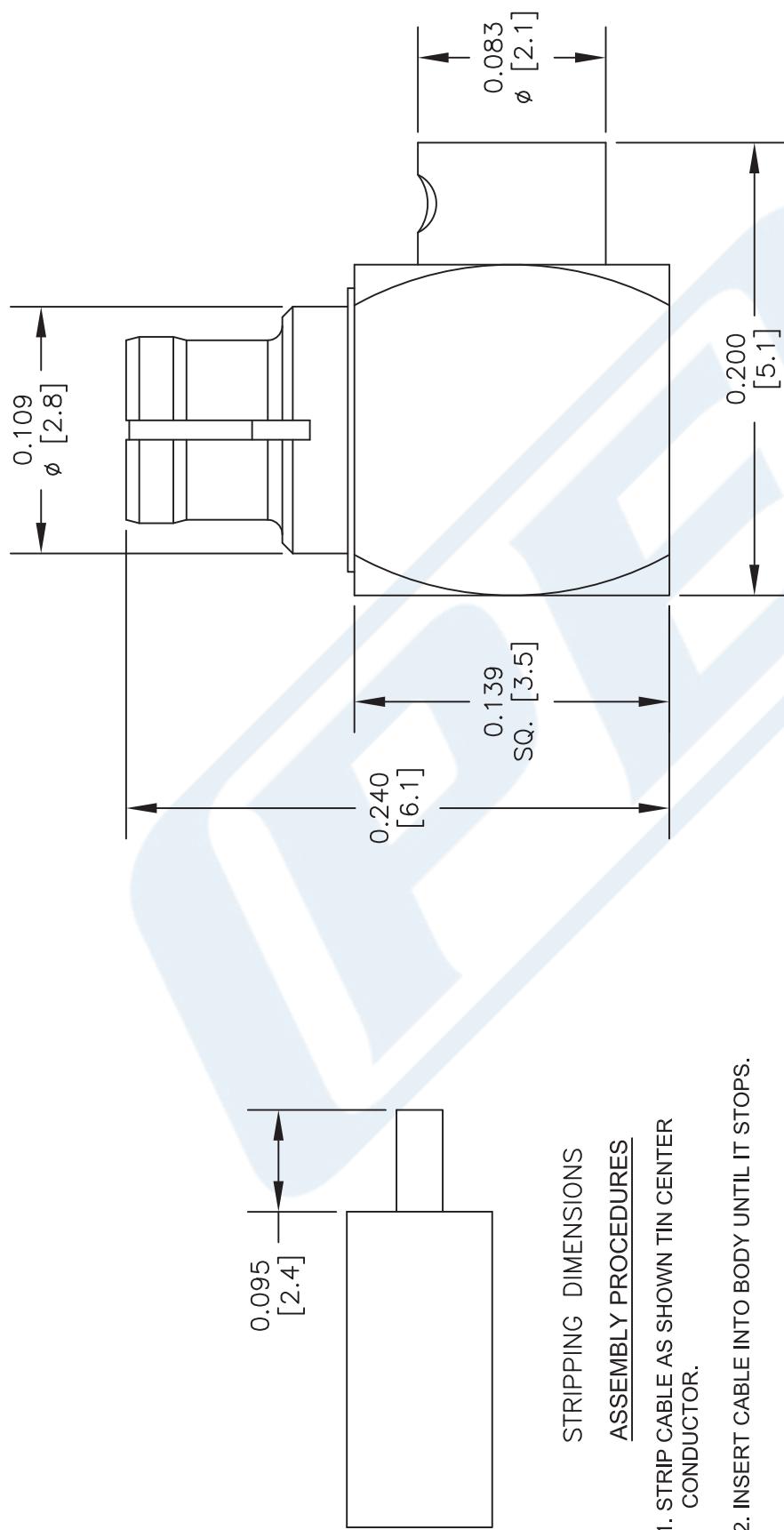
**PE44493**

Mini SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL 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.

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URL: <https://www.pasternack.com/mini-smp-female-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe44493-p.aspx>

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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].  
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE  
**PE44493**

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ESTABLISHED 1977

| REV. A | FSCM NO. | 53919 | CAD FILE | 081412 | SCALE N/A | SIZE A | 2233 |
|--------|----------|-------|----------|--------|-----------|--------|------|
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**Temperature**

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#### Compliance Certifications

(see [product page](#) for current document)

#### Plotted and Other Data

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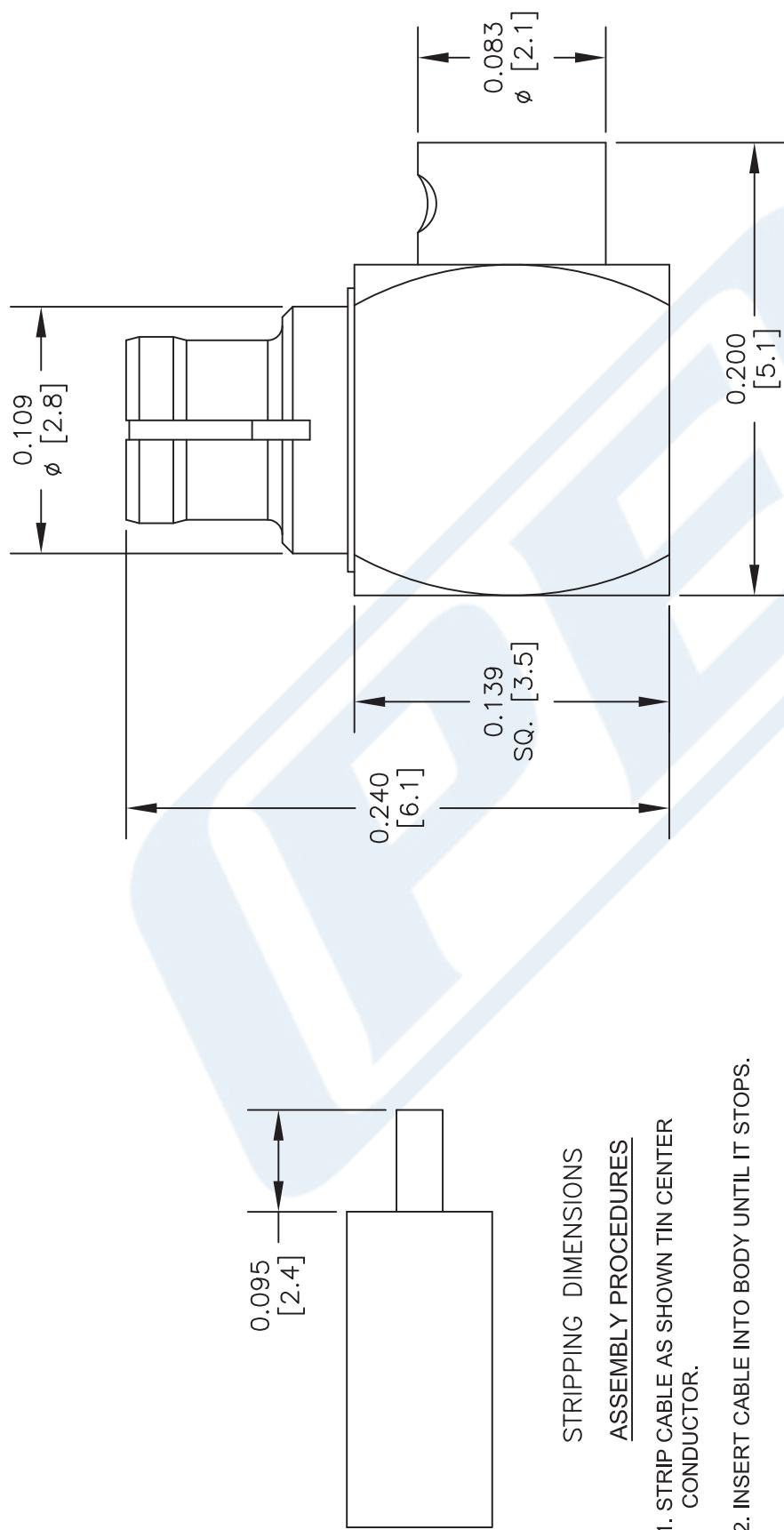
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# PE44493 CAD Drawing

Mini SMP Female Right Angle Connector Solder Attachment  
for PE-047SR, PE-SR047AL, PE-SR047FL



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| REV. A | FSCM NO. | 53919 | CAD FILE | 081412 | SCALE N/A | SIZE A | 2233 |
|--------|----------|-------|----------|--------|-----------|--------|------|
|--------|----------|-------|----------|--------|-----------|--------|------|

## 047 Semi-rigid Coax Cable with Copper Outer Conductor

### TECHNICAL DATA SHEET

PE-047SR

#### Configuration

|                                      |                           |
|--------------------------------------|---------------------------|
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Shield Materials                     | Copper                    |

#### Electrical Specifications

|                                       |       |
|---------------------------------------|-------|
| Impedance, Ohms                       | 50    |
| Maximum Operating Frequency, GHz      | 40    |
| Dielectric Withstanding Voltage, Vrms | 2,000 |

#### Electrical Specifications by Frequency

##### Frequency 1

|                                 |             |
|---------------------------------|-------------|
| Frequency, MHz                  | 1000        |
| Attenuation, dB/100ft [dB/100m] | 40 [131.23] |
| Power Handling, Watts           | 32          |

##### Frequency 2

|                                 |              |
|---------------------------------|--------------|
| Frequency, GHz                  | 10           |
| Attenuation, dB/100ft [dB/100m] | 130 [426.51] |
| Power Handling, Watts           | 9            |

##### Frequency 3

|                                 |              |
|---------------------------------|--------------|
| Frequency, GHz                  | 20           |
| Attenuation, dB/100ft [dB/100m] | 190 [623.36] |
| Power Handling, Watts           | 6.5          |

#### Mechanical Specifications

##### Temperature

|                        |             |
|------------------------|-------------|
| Operating Range, deg C | -55 to +100 |
|------------------------|-------------|

##### Inner Conductor

|                   |                   |
|-------------------|-------------------|
| Number of Strands | 1                 |
| Material          | Copper Clad Steel |
| Plating           | Silver            |
| Diameter, in [mm] | 0.011 [0.28]      |

##### Dielectric:

|                   |              |
|-------------------|--------------|
| Type              | PTFE         |
| Diameter, in [mm] | 0.037 [0.94] |

##### Shield:

|                   |              |
|-------------------|--------------|
| Number of         | 1            |
| Material 1        | Copper       |
| Diameter, in [mm] | 0.047 [1.19] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [047 Semi-rigid Coax Cable with Copper Outer Conductor PE-047SR](#)

## 047 Semi-rigid Coax Cable with Copper Outer Conductor

### TECHNICAL DATA SHEET

PE-047SR

**Jacket:**

|                                       |              |
|---------------------------------------|--------------|
| Diameter, in [mm]                     | 0.047 [1.19] |
| One Time Minimum Bend Radius, in [mm] | 0.05 [1.27]  |
| Weight, lbs/ft [Kg/m]                 | 0.005 [0.01] |

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant  
REACH Compliant

12/19/2011

**Plotted and Other Data**

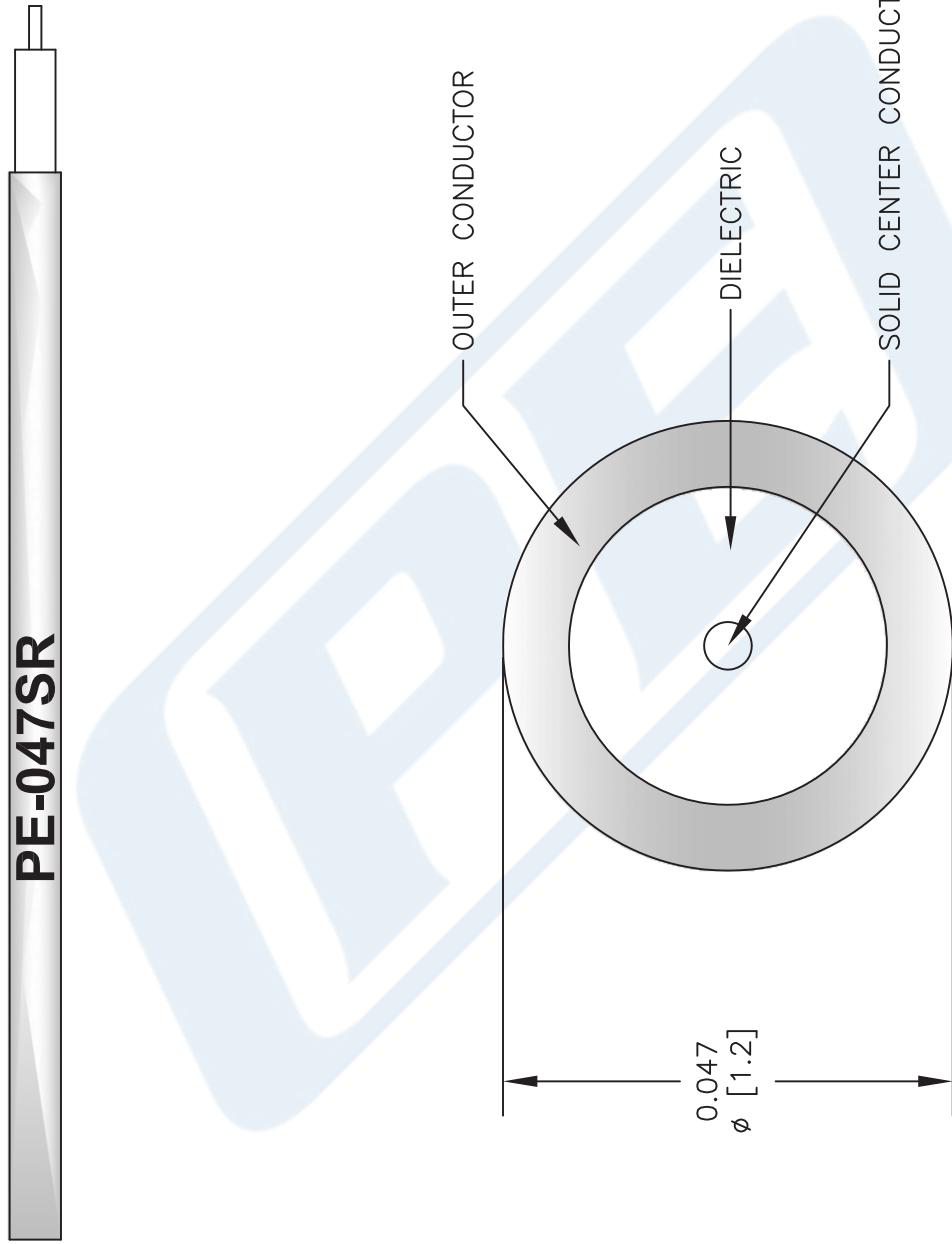
Notes:  
• Values at +25 °C, sea level

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|   |   |  |
|---|---|--|
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|   | <b>FSCM NO.</b> 53919 <b>CAD FILE</b> 073113 <b>SCALE</b> N/A <b>SIZE</b> A <b>2233</b> |  |