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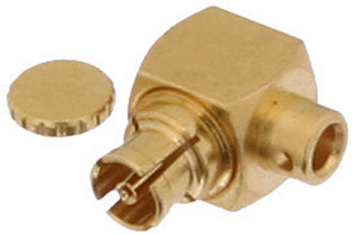

# Mini SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

## RF Connectors
## Technical Data Sheet

**PE44493**

## 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 x sqrt(fGHz) 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

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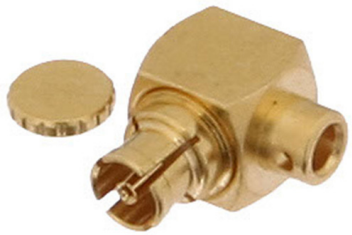

# Mini SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

**RF Connectors**
**Technical Data Sheet**

**PE44493**

## 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:

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

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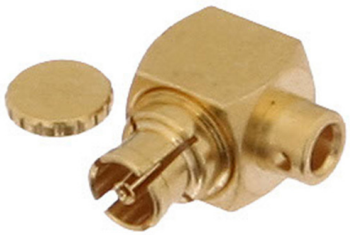

# Mini SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

## 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.

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

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

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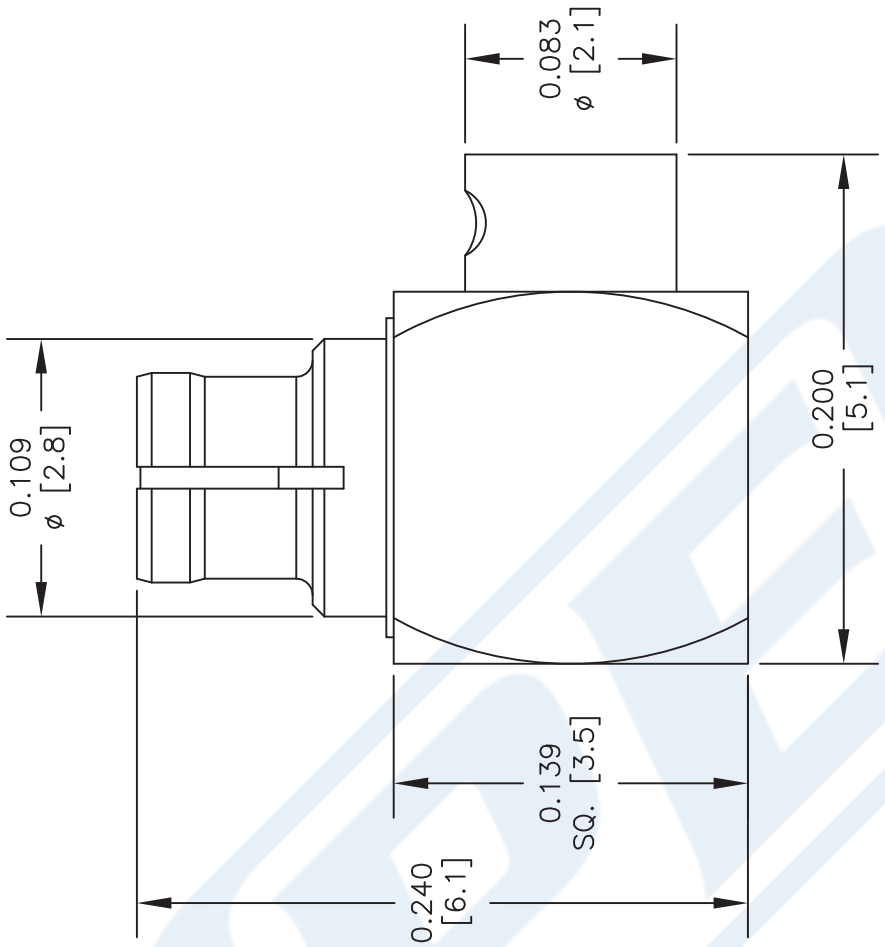
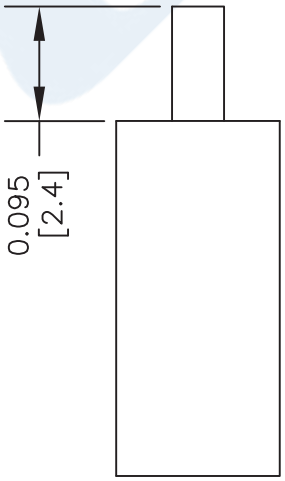
# PE44493 CAD Drawing

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




STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN TIN CENTER CONDUCTOR.
2. INSERT CABLE INTO BODY UNTIL IT STOPS.
3. SOFT SOLDER CONTACT AND OUTER CONDUCTOR, PRESS CAP DOWN.

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**

| REV. A | FSCM NO. 53919 | CAD FILE 081412 | SCALE N/A | SIZE A | 2233 |
|---|---|---|---|---|---|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PASTERNACK
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# N Male Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

## RF Connectors Technical Data Sheet PE4934

## Configuration

- N Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- PE-047SR, PE-SR047AL, PE-SR047FL Interface Type
- Solder/Solder Attachment

## Features

- Gold Plated Contact
- Contact plating according to MIL-G-45204

## Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4934 type N male connector with solder/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 type N male connector PE4934 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.

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 0.957 in [24.31 mm] |
| Width/Dia. | 0.8 in [20.32 mm] |
| Weight | 0.034 lbs [15.42 g] |

**Material Specifications**

| Description | Material | Plating |
|---|---|---|
| Contact | | Gold<br>MIL-G-45204 |
| Insulation | PTFE | |
| Body | Brass | Gold<br>MIL-G-45204 |
| Coupling Nut | Brass | Nickel<br>QQ-N-290 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE4934

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# N Male Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

## RF Connectors Technical Data Sheet PE4934

### Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -65 to +165 deg C |

### Compliance Certifications (see product page for current document)

### Plotted and Other Data

Notes:

N Male 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% 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: N Male Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE4934

URL: https://www.pasternack.com/n-male-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe4934-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.

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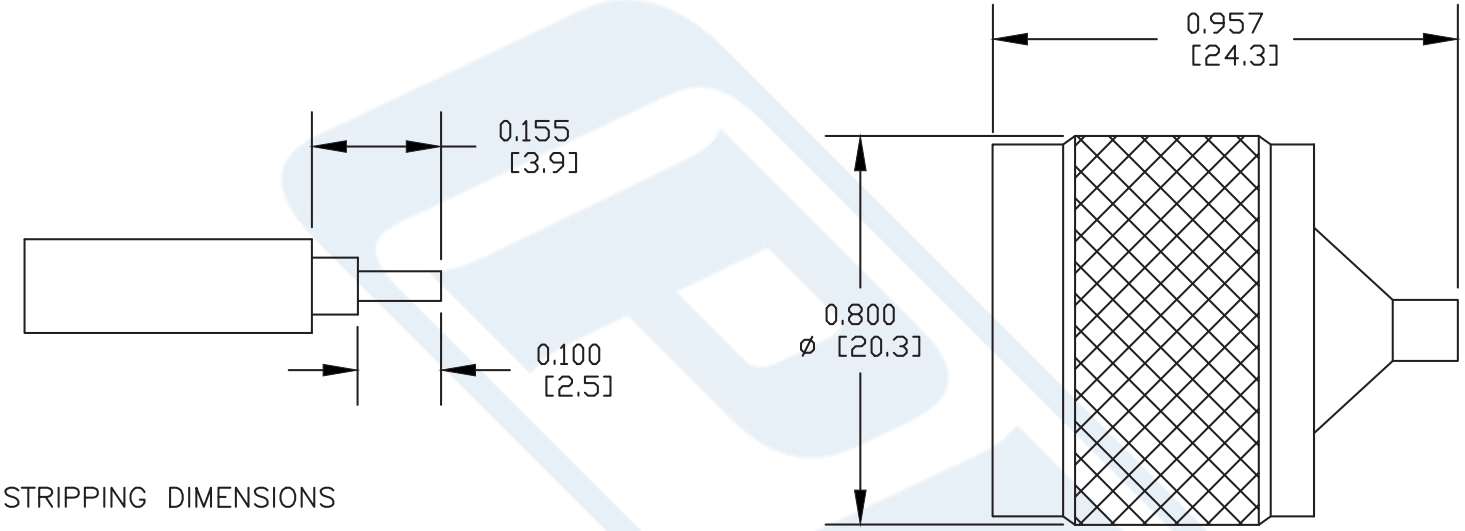
# PE4934 CAD Drawing

N Male Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL




STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR. SLIDE CABLE THROUGH BODY.

INSERT CENTER CONDUCTOR INTO CONTACT UNTIL DIELECTRIC BOTTOMS INSIDE CONTACT. SOFT SOLDER CONTACT TO CENTER CONDUCTOR. DO NOT OVER HEAT DIELECTRIC.

USING ASSEMBLY TOOL, PRESS CONTACT FULLY INTO INSULATOR. SOLDER OUTER CONDUCTOR TO BODY.

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DWG TITLE

**PE4934**

NOTES:
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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.

| FSCM NO. 53919 | CAD FILE 042409 | SCALE N/A | SIZE A | XXXX |
|---|---|---|---|---|

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# 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

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# 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 for current document)

| | |
|---|---|
| RoHS Compliant | |
| REACH Compliant | 12/19/2011 |

**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level

047 Semi-rigid Coax Cable with Copper Outer Conductor 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: 047 Semi-rigid Coax Cable with Copper Outer Conductor PE-047SR

URL: http://www.pasternack.com/semirigid-0.047-50-ohm-coax-cable-copper-pe-047sr-p.aspx

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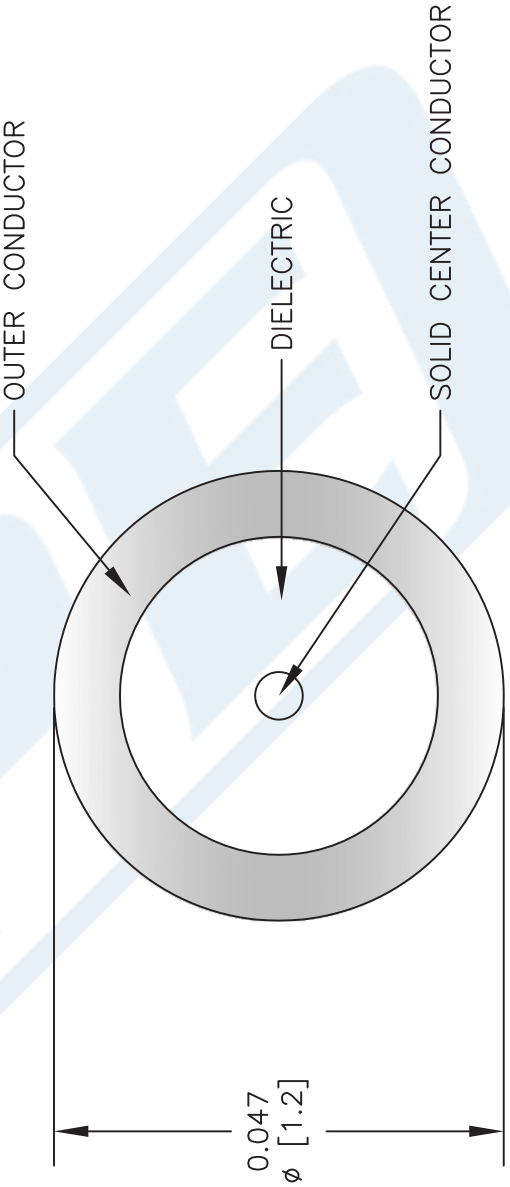
# PE-047SR CAD Drawing

047 Semi-rigid Coax Cable with Copper Outer Conductor




NOTES:
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2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

| CAD FILE | SCALE | SIZE |
|---|---|---|
| 073113 | N/A | A |

DWG TITLE: **PE-047SR**

FSCM NO. 53919

2233

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