

# 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
- PE-047SR, PE-SR047AL, PE-SR047FL Interface Type
- Solder Attachment

### **Features**

- Max. Operating Frequency 65 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 65 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		65	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	12 to 18			GHz
VSWR, Max	1.11:1	1.23:1	1.68:1			

**Electrical Specification Notes:** 

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

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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451



# 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,

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

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

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

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% 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

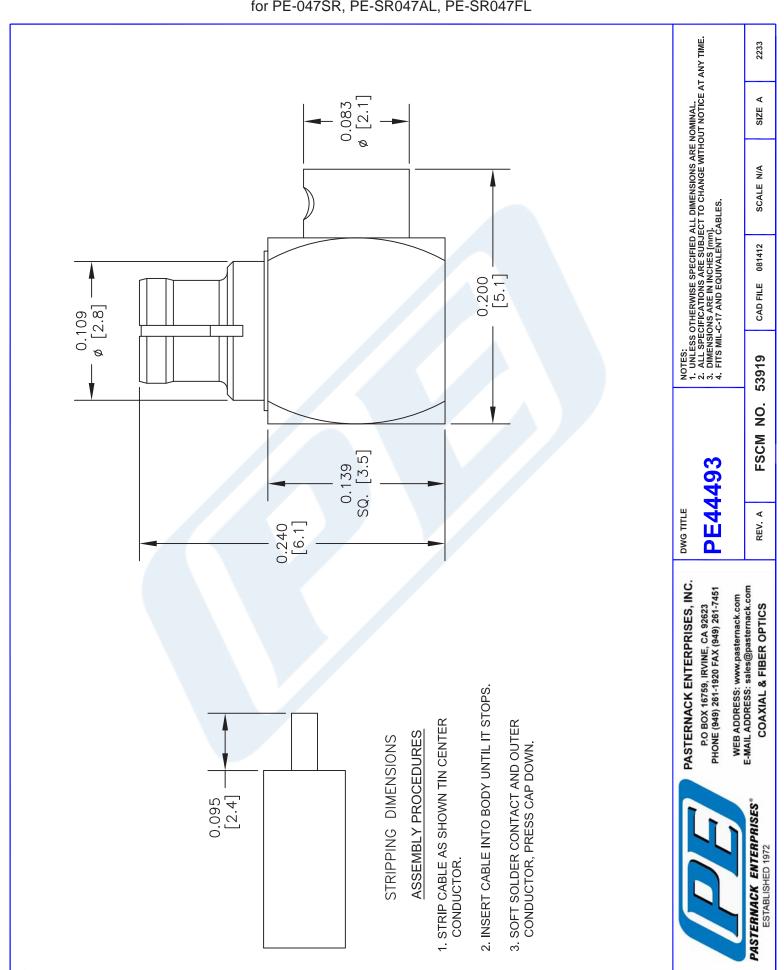
URL: https://www.pasternack.com/mini-smp-female-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe44493-p.aspx

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# PE44493 CAD Drawing

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







### RF Connectors Technical Data Sheet

PF4404

### Configuration

- SMA Male Connector
- MIL-STD-348
- •50 Ohms
- Straight Body Geometry

#### **Features**

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.2:1

• PE-047SR, PE-SR047AL, PE-SR047FL Interface Type

Gold over Nickel Plated Beryllium Copper Contact

Solder/Solder Attachment

• 50 µin minimum contact plating

- 5/16 inch Hex
- Precision Design

# **Applications**

- General Purpose Test
- Precision Test & Measurement
- Custom Cable Assemblies

# **Description**

Pasternack's PE4404 SMA male precision 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 SMA male connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.2:1.

Our SMA male connector PE4404 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		18	GHz
VSWR			1.2:1	
Insertion Loss			0.17	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
High Potential Voltage			1,000	Vrms
5 to 7.5 MHz				
Corona Discharge			375	Vrms
at 70,000 ft				
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 Precision Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE4404

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## RF Connectors Technical Data Sheet

PE4404

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 14	14 to 18				GHz
VSWR, Max	1.13:1	1.2:1				

**Electrical Specification Notes:** 

Insertion loss: 0.04 x sqrt(fGHz) dB max. RF leakage: 90 dB min up to 1 GHz.

### **Mechanical Specifications**

Size

 Length
 0.489 in [12.42 mm]

 Width/Dia.
 0.312 in [7.92 mm]

 Weight
 0.008 lbs [3.63 g]

Mating Cycles 500 Cycles

Mating Torque 7 to 10 in-lbs [0.79 to 1.13 Nm]

### **Material Specifications**

Description	Material	Plating		
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum		
Insulation	PTFE			
Body	Brass	Gold over Nickel 50 µin minimum		
Coupling Nut	Brass	Nickel 50 µin minimum		

### **Environmental Specifications**

Temperature

Operating Range -65 to +165 deg C
Humidity MIL-STD-202, Method 106, No Vibration
Shock MIL-STD-202, Method 213, Condition I
Vibration MIL-STD-202, Method 204, Condition D
Thermal Shock MIL-STD-202, Method 107, Condition B
Salt Spray MIL-STD-202, Method 101, Condition B (5%)

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Precision Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE4404

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## RF Connectors Technical Data Sheet

PE4404

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: SMA Male Precision Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE4404

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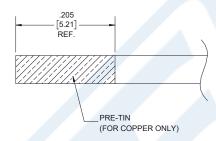


## RF Connectors Technical Data Sheet

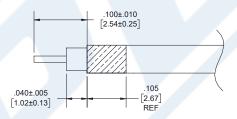
PE4404

#### **Assembly Instruction**

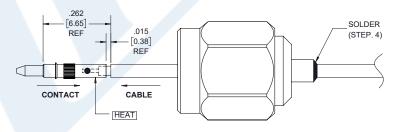
 PRE-TIN CABLE JACKET TO THE REFERENCE LENGTH AS SHOWN. ONLY FOR COPPER OUTER CONDUCTOR CABLE.



- A. STRIP CABLE TO THE DIMENSIONS AS SHOWN TO EXPOSE CENTER CONDUCTOR AND DIELECTRIC.
  - B. PRE-TIN CABLE CENTER CONTACT.
  - C. SLIDE CONNECTOR THROUGH CABLE.



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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### RF Connectors Technical Data Sheet

PE4404

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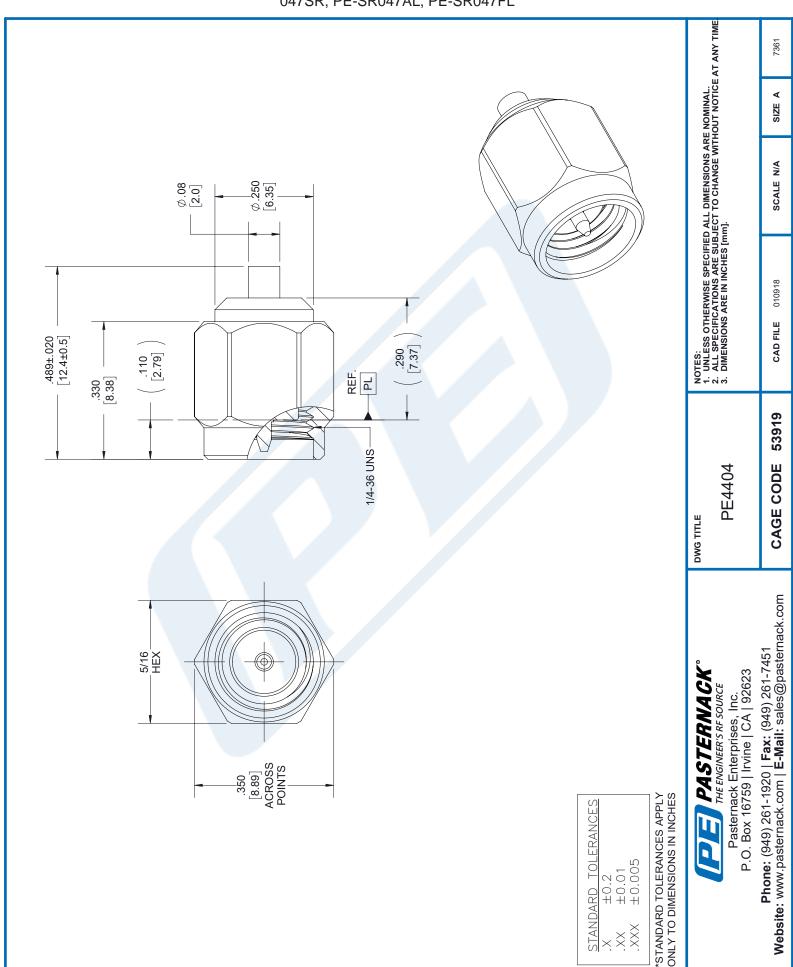
URL: https://www.pasternack.com/sma-male-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe4404-p.aspx

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# PE4404 CAD Drawing

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



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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 3

Frequency 2

Frequency, GHz

Attenuation, dB/100ft [dB/100m] 130 [426.51]

Power Handling, Watts

Frequency 3

Frequency, GHz 2

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

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

