



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 = $0.05 \times \sqrt{f(\text{GHz})}$ 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

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

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.

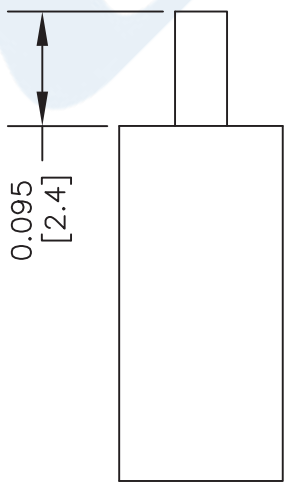
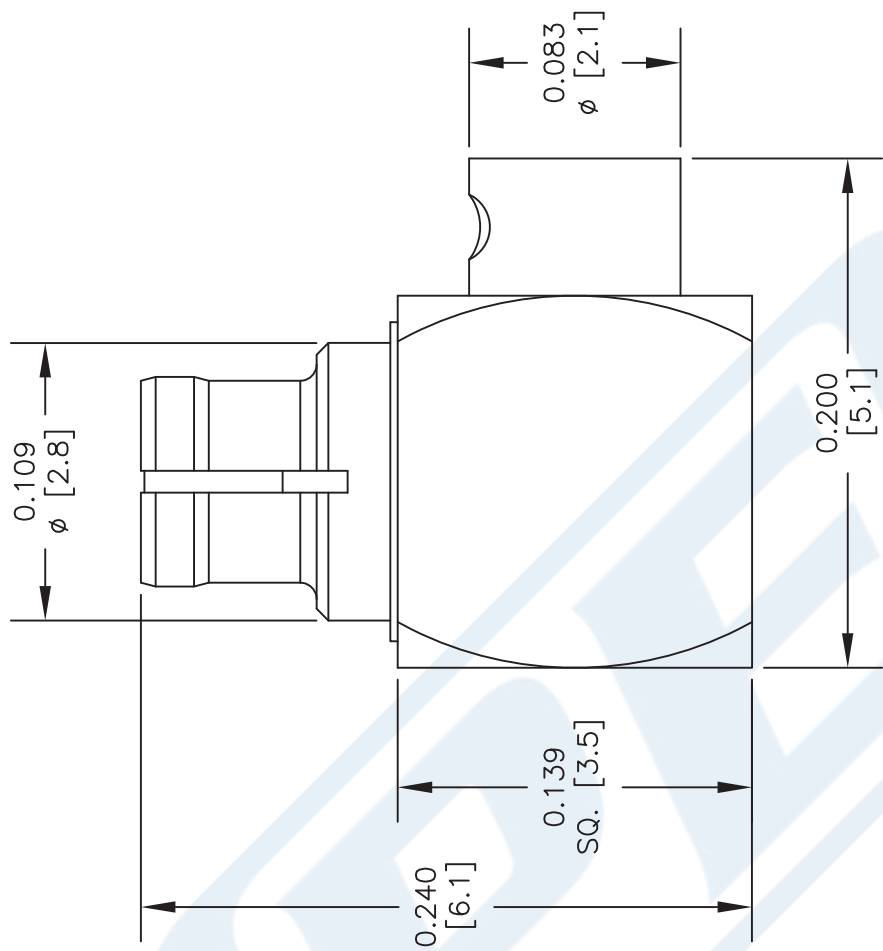
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE44493](#)

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

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.

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

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REV. A	FSCM NO. 53919	CAD FILE 081412	SCALE N/A	SIZE A	2233
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SMA Female Connector Solder Attachment
2 Hole Flange Mount for PE-047SR, PE-SR047AL,
PE-SR047FL, .481 inch Hole Spacing

RF Connectors Technical Data Sheet

PE4547

Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry

- PE-047SR, PE-SR047AL, PE-SR047FL Interface Type
- Solder/Solder Attachment
- 2 Hole Flange

Features

- Max. Operating Frequency 18 GHz
- Good VSWR of 1.5:1

- Gold over Nickel Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE4547 SMA female 2 hole flange mount connector with solder/solder attachment for PE-047SR, PE-SR047AL and PE-SR047FL (.481 inch hole spacing) is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 18 GHz and offers good VSWR of 1.5:1. This SMA 2 hole flange connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our SMA female 2 hole flange connector PE4547 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			1.5:1	
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length	0.439 in [11.15 mm]
Width/Dia.	0.223 in [5.66 mm]
Height	0.63 in [16 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Solder Attachment 2 Hole Flange Mount for PE-047SR, PE-SR047AL, PE-SR047FL, .481 inch Hole Spacing PE4547](#)



SMA Female Connector Solder Attachment
2 Hole Flange Mount for PE-047SR, PE-SR047AL,
PE-SR047FL, .481 inch Hole Spacing

RF Connectors Technical Data Sheet

PE4547

Weight 0.005 lbs [2.27 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PTFE	
Outer Conductor	Stainless Steel	Gold MIL-G-45204
Body	Stainless Steel	Gold over Nickel MIL-G-45204

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

SMA Female Connector Solder Attachment 2 Hole Flange Mount for PE-047SR, PE-SR047AL, PE-SR047FL, .481 inch Hole Spacing 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.

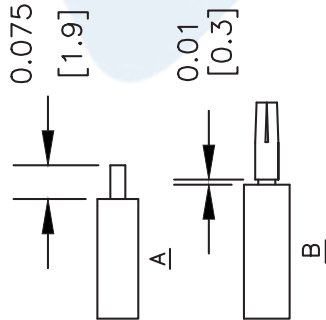
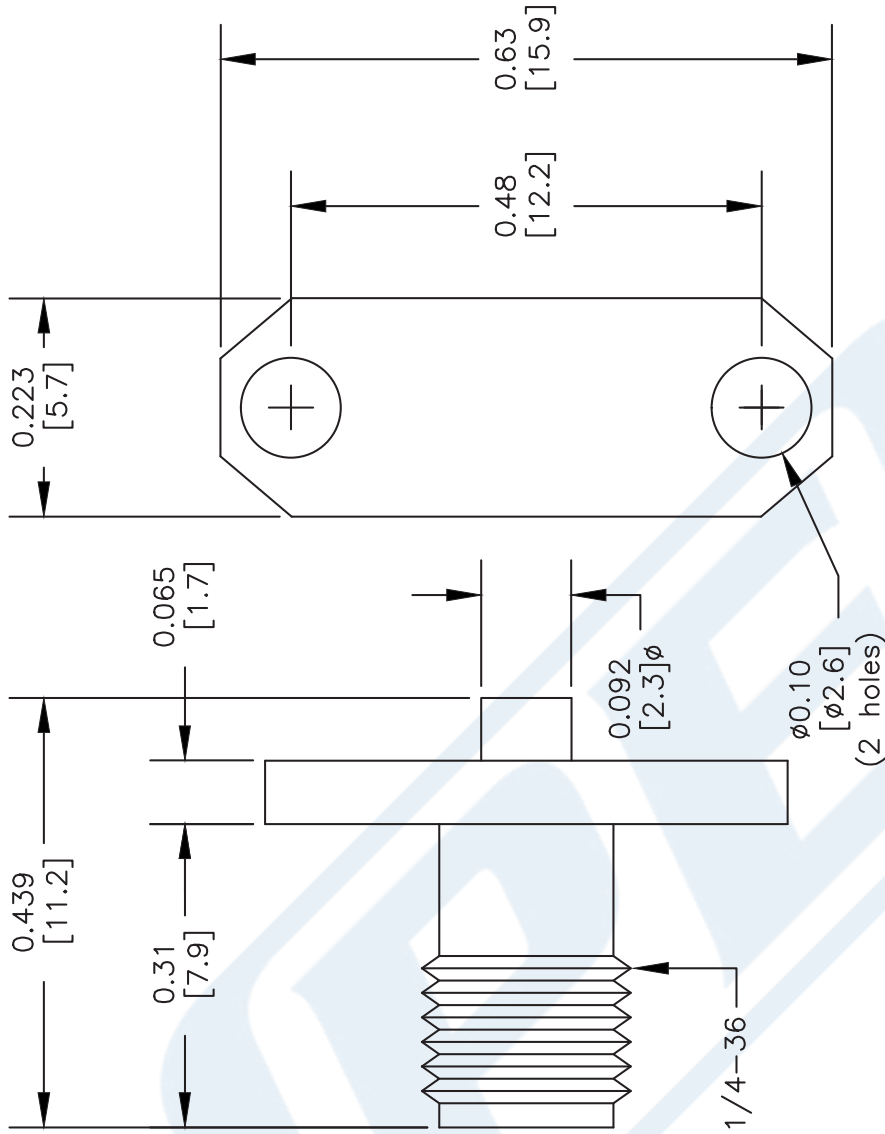
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Solder Attachment 2 Hole Flange Mount for PE-047SR, PE-SR047AL, PE-SR047FL, .481 inch Hole Spacing PE4547](#)

URL: <https://www.pasternack.com/sma-female-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe4547-p.aspx>

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PE4547 CAD Drawing

SMA Female Connector Solder Attachment 2 Hole Flange Mount for PE-047SR, PE-SR047AL, PE-SR047FL, .481 inch Hole Spacing



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

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

SHIM CONTACT AS SHOWN IN (B) & SOLDER CONTACT TO CENTER CONDUCTOR.

PULL DOWN ON CABLE TILL CONTACT IS FLUSH WITH DIELECTRIC. SOLDER OUTER CONDUCTOR TO BODY.

DWG TITLE

PE4547

- NOTES:
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 3. DIMENSIONS ARE IN INCHES [mm].
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 051402

SCALE N/A

SIZE A

XXX



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Formable 047 Semi-rigid Coax Cable with
Tinned Copper Braid Outer Conductor

TECHNICAL DATA SHEET

PE-SR047FL

Formable 047 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor

Configuration

Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Shield Materials	Tinned Copper Braid

Electrical Specifications

Impedance, Ohms	50
Maximum Operating Frequency, GHz	20
Capacitance, pF/ft [pF/m]	32 [104.99]

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz	500
Attenuation, dB/100ft [dB/100m]	25 [82.02]

Frequency 2

Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	36 [118.11]

Frequency 3

Frequency, GHz	3
Attenuation, dB/100ft [dB/100m]	65 [213.25]

Frequency 4

Frequency, GHz	5
Attenuation, dB/100ft [dB/100m]	86 [282.15]

Mechanical Specifications

Temperature

Operating Range, deg C	-40 to +100
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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]	0.034 [0.86]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable 047 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor PE-SR047FL](#)

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Formable 047 Semi-rigid Coax Cable with
Tinned Copper Braid Outer Conductor

TECHNICAL DATA SHEET

PE-SR047FL

Shield:

Number of
Material 1

1
Tinned Copper Braid

Jacket:

Diameter, in [mm]

0.047 [1.19]

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

Yes

Plotted and Other Data

Notes:

Values at 25 °C, sea level

Formable 047 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

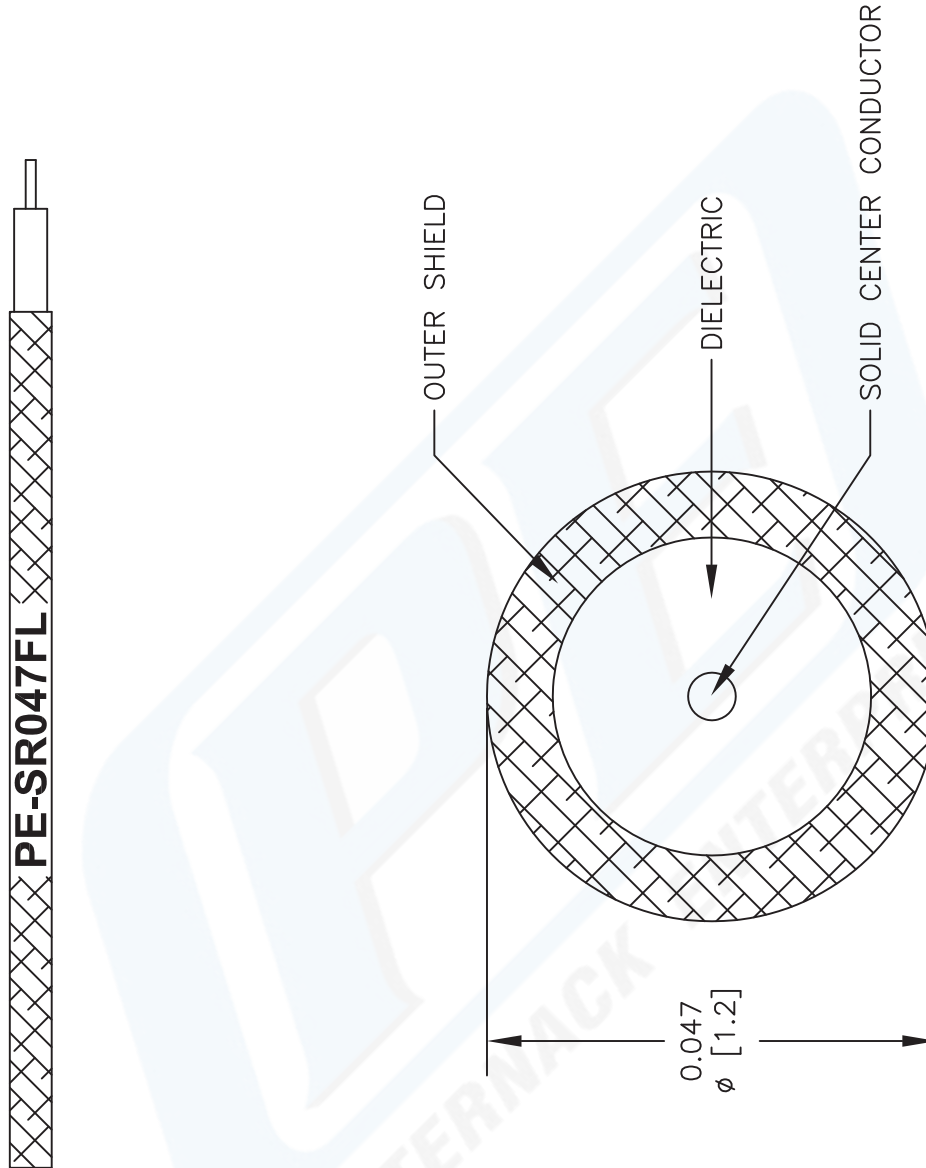
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable 047 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor PE-SR047FL](#)

URL: <http://www.pasternack.com/formable-0.047-semirigid-replacement-50-ohm-coax-cable-tinned-braid-pe-sr047fl-p.aspx>

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PE-SR047FL CAD Drawing

Formable 047 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor



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DWG TITLE
PE-SR047FL

FSCM NO. 53919

CAD FILE 050113

SCALE N/A

SIZE A

2233

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