PASTERNACK®
THE ENGINEER'S RF SOURCE



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 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

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

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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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

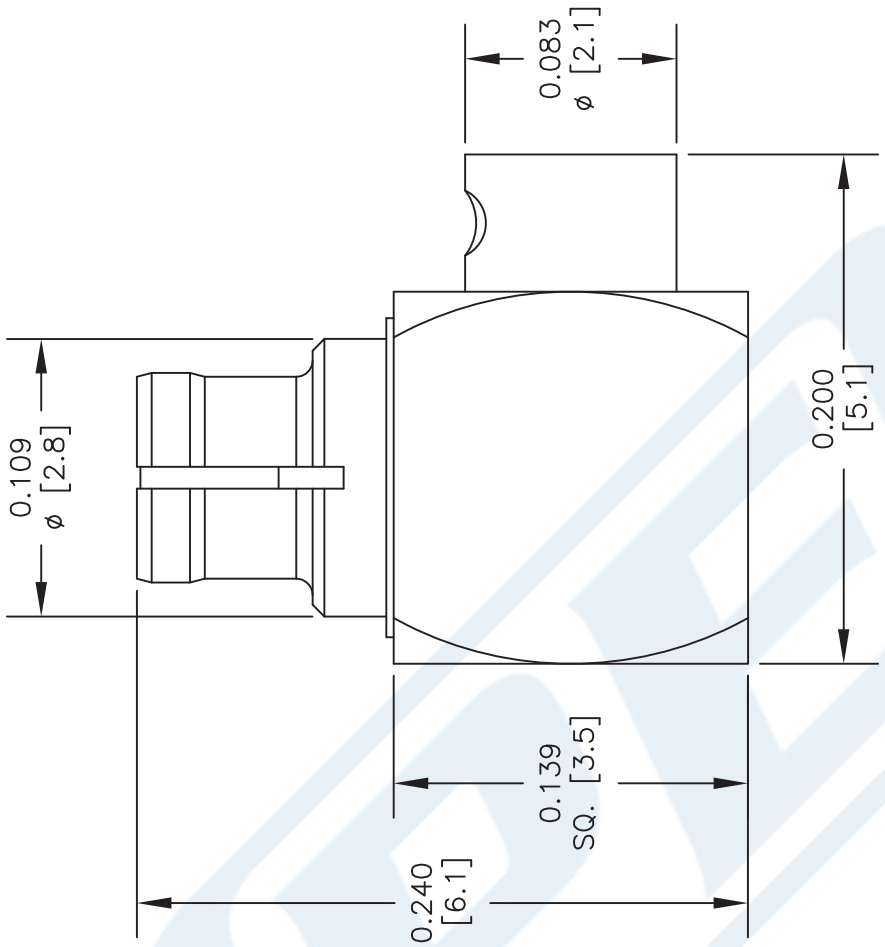
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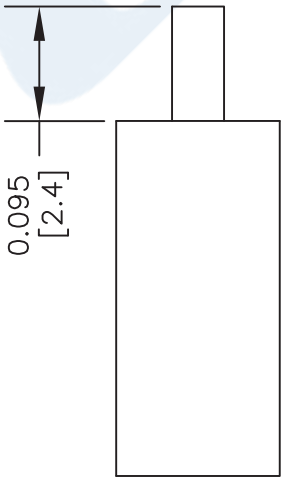
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PE44493 CAD Drawing

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:
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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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Compliance Certifications (see product page for current document)

Plotted and Other Data

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

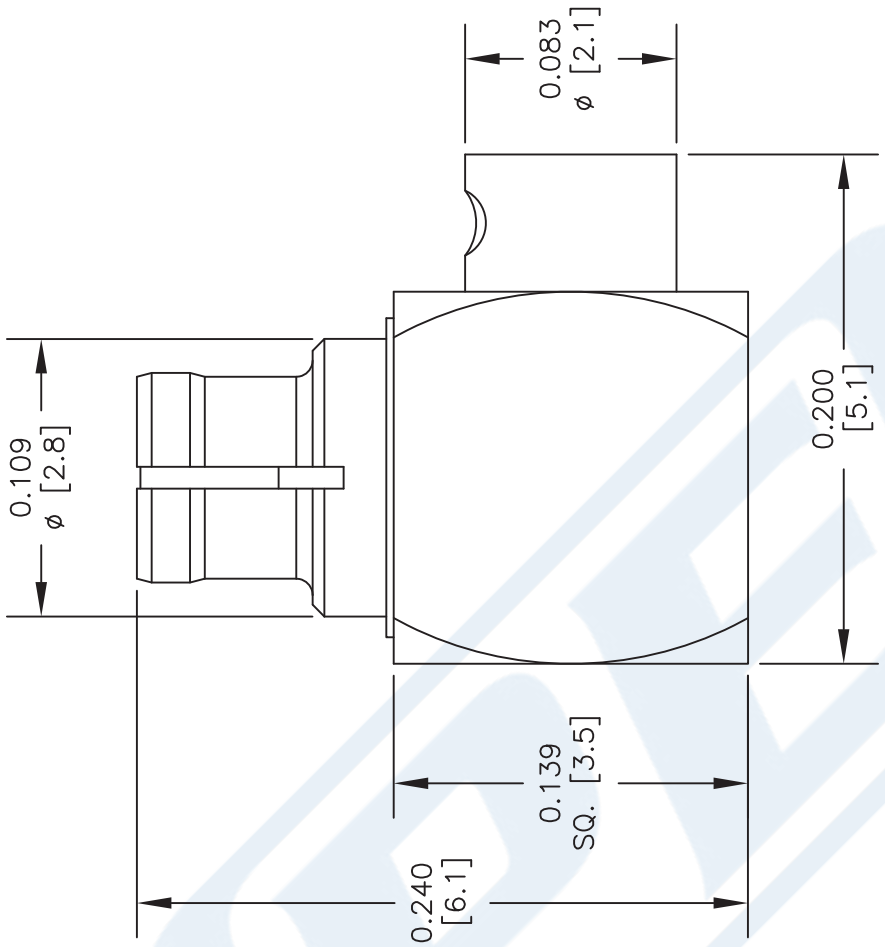
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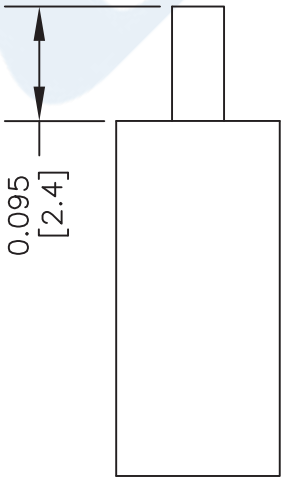
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PE44493 CAD Drawing

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





STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

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2. INSERT CABLE INTO BODY UNTIL IT STOPS.
3. SOFT SOLDER CONTACT AND OUTER CONDUCTOR, PRESS CAP DOWN.

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DWG TITLE **PE44493**

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

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047 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

TECHNICAL DATA SHEET PE-SR047AL

047 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

Configuration

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

Electrical Specifications

Impedance, Ohms	50
Velocity of Propagation, %	69.5
Maximum Operating Frequency, GHz	20
RF Shielding, dB	90
Maximum Operating Voltage, Volts	1,000

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz	1000
Attenuation, dB/100ft [dB/100m]	41 [134.51]
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]

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 Tinned Aluminum Outer Conductor PE-SR047AL

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047 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

TECHNICAL DATA SHEET PE-SR047AL

Shield:

Number of	1
Material 1	Tinned Aluminum

Jacket:

Diameter, in [mm]	0.047 [1.19]
One Time Minimum Bend Radius, in [mm]	0.05 [1.27]
Weight, lbs/ft [Kg/m]	0.002 [0]

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

Plotted and Other Data

Notes:	Values at 25 °C, sea level

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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 Tinned Aluminum Outer Conductor PE-SR047AL

URL: http://www.pasternack.com/semirigid-0.047-50-ohm-coax-cable-tinned-aluminum-pe-sr047al-p.aspx

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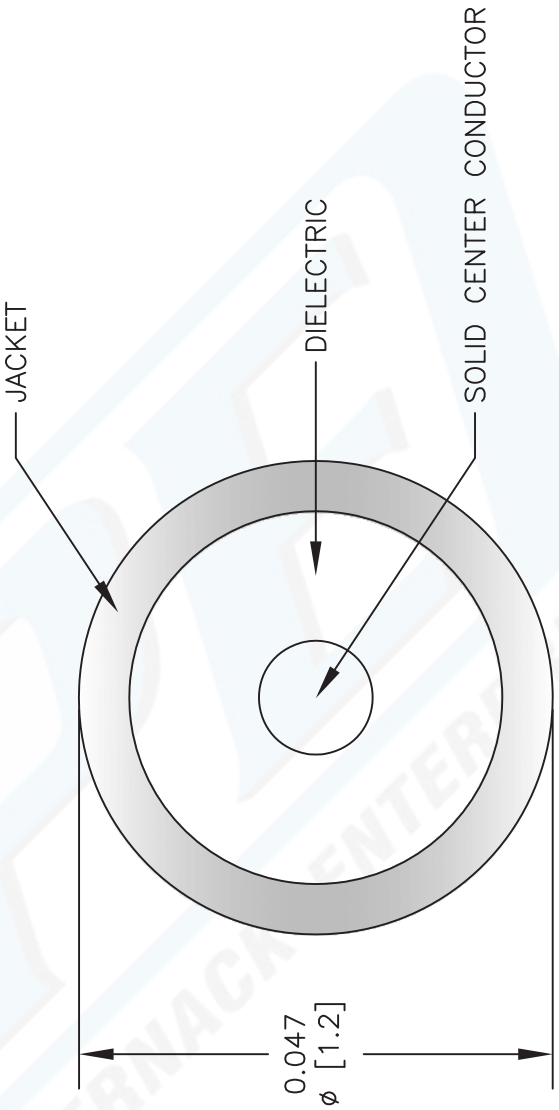
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PE-SR047AL CAD Drawing

047 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor





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DWG TITLE **PE-SR047AL**

CAD FILE 103112-B | SCALE N/A | SIZE A | 2233

FSCM NO. 53919

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