

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



RF Connectors
Technical Data Sheet

PE4418

Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms

- Straight Body Geometry
- Connector Interface Types: PE-047SR, PE-SR047AL, PE-SR047FL
- Contact plating according to MIL-G-45204

Features

- Max. Operating Frequency 18 GHz
- Gold Plated Beryllium Copper Contact

Applications

General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE4418 SMA female 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 female connector operates up to a maximum frequency of 18 GHz.

Our SMA female connector PE4418 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
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Mechanical Specifications

Size

 Length
 0.46 in [11.68 mm]

 Width/Dia.
 0.25 in [6.35 mm]

 Weight
 0.0065 lbs [2.95 g]

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 for PE-047SR, PE-SR047AL, PE-SR047FL PE4418

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

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



RF Connectors Technical Data Sheet

PE4418

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-G-45204
Insulation	PTFE	
Body	Brass	Gold 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 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: SMA Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE4418

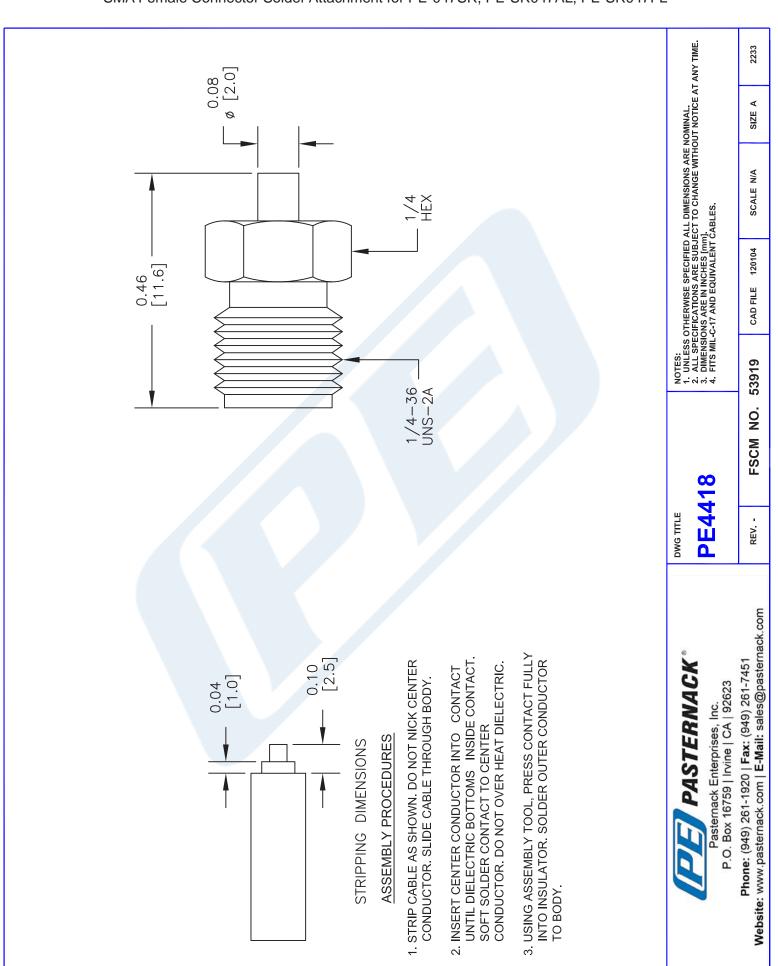
URL: https://www.pasternack.com/sma-female-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe4418-p.aspx

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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PE4418 CAD Drawing

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







Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL

RF Connectors Technical Data Sheet

PE45539

Configuration

- Mini SMP Male Connector
- 50 Ohms
- Straight Body Geometry

Features

- Max. Operating Frequency 40 GHz
- Good VSWR of 1.45:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to ASTM B488
- Blind Mate Connector

- Connector Interface Types: PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL
- VITA 67 Design
- Coaxial interconnects on VPX platforms
- Standard MIL-STD-348 SMPM interface
- Rugged Stainless Steel construction
- Accepts 0.047" and 0.086" cable contacts for end-toend solution

Applications

- General Purpose Test
- Custom Cable Assemblies
- Robust and Rugged high speed cabled solution
- VITA 67 Backplane
- High Density Applications

Description

Pasternack's PE45539 4-position block housing is part of our full line of VITA 67 Backplane solutions and is available for same-day shipping. Pasternack introduces 4 position (VITA 67.1) and 8 position (VITA 67.2) RF connector housings designed for 3U and 6U formats within the OpenVPX architecture. These blocks are machined from stainless steel for a rugged solution. The blocks are designed to accept both PE45535 (0.047" cable contact) & PE45536 (.086" cable contact) used in flexible or semi-rigid cables. These blocks are ideal for blind mating daughtercards to motherboards as the RF contacts provide +/- .010" radial misalignment tolerance and have excellent return loss up to 40 GHz.

The SMPM (Mini-SMP) 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. The block's right angle body geometry allows for easier connections in tight spaces.

Our SMPM (Mini-SMP) right angle block PE45539 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		40	GHz
VSWR			1.45:1	
Dielectric Withstanding Voltage (AC)			325	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			5	mOhms
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: Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL PE45539

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Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL

RF Connectors Technical Data Sheet

PE45539

Mechanical Specifications

Size

 Length
 0.42 in [10.67 mm]

 Width/Dia.
 0.19 in [4.83 mm]

 Height
 0.19 in [4.83 mm]

 Weight
 0.0016 lbs [0.73 g]

 Mating Cycles
 500 Cycles

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold ASTM B488
Insulation	PEI	
Body	Brass	Gold ASTM B488
Retaining Ring	Beryllium Copper	Nickel SAE-AMS-QQ-N-290

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Humidity 1,000 megohms within 5 minutes after removal from humidity, tested per MIL-STD-202, Method 106

Shock Sawtooth pulse of 100 g 6ms per MIL-STD-202, Method

213, Condition I

Vibration MIL-STD-202, Method 214, Test Condition I, Curve D

Thermal Shock MIL-STD-202, Method 107, Test Condition A

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL

RF Connectors Technical Data Sheet

PE45539

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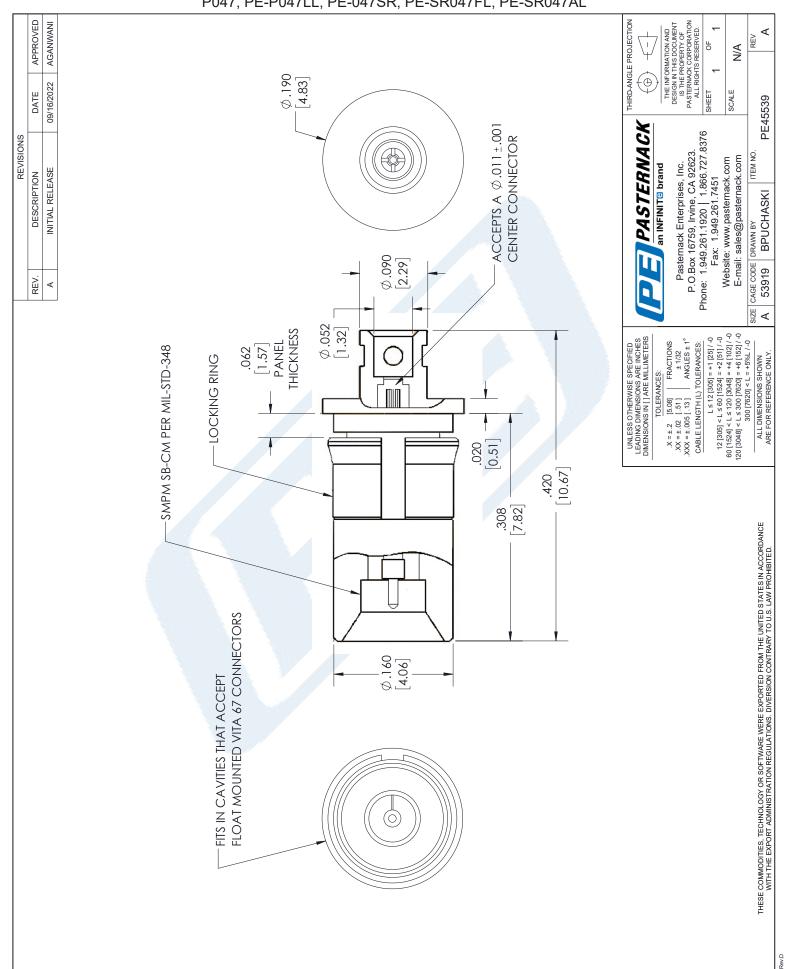
URL: https://www.pasternack.com/mini-smp-male-pe-p047-pe-p047ll-pe-sr047fl-connector-pe45539-p.aspx

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PE45539 CAD Drawing

Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL







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, Ohms50Velocity of Propagation, %69.5Maximum Operating Frequency, GHz20RF Shielding, dB90

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

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

Power Handling, Watts

Frequency 3

Frequency, GHz 20

Attenuation, dB/100ft [dB/100m] 190 [623.36]

Power Handling, Watts 6.

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]

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

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

047 Semi-rigid Coax Cable with Tinned Aluminum 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: 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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PE-SR047AL CAD Drawing
047 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

