



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

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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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:

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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RF Connectors Technical Data Sheet

PE45539

Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL 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 Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL PE45539

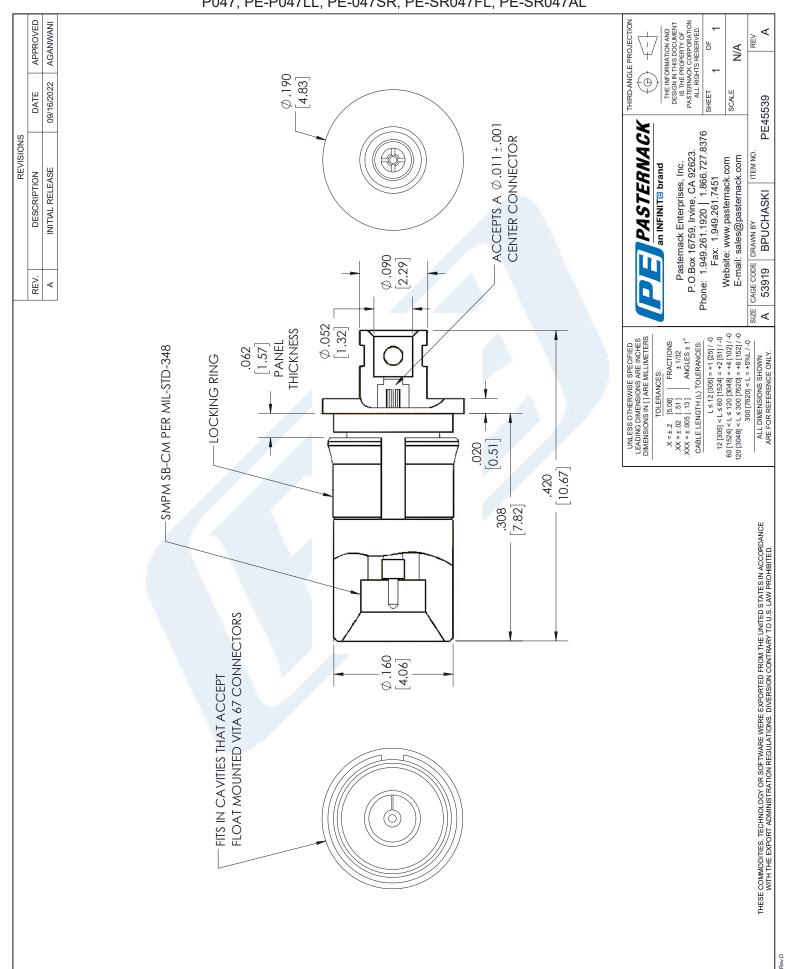
URL: https://www.pasternack.com/mini-smp-male-pe-p047-pe-p047ll-pe-sr047fl-connector-pe45539-p.aspx

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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





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



RF Connectors Technical Data Sheet

PE44491

Configuration

- Mini SMP Female Connector
- MIL-STD-348A
- 50 Ohms

Features

- Max. Operating Frequency 65 GHz
- Good VSWR of 1.68:1

- Straight Body Geometry
- PE-047SR, PE-SR047AL, PE-SR047FL Interface Type
- Solder Attachment
- Gold Plated Beryllium Copper Contact
- Blind Mate Connector

Applications

General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE44491 Mini SMP female 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 and offers good VSWR of 1.68:1. 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.

Our Mini SMP female connector PE44491 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

Minimum	Typical	Maximum	Units
DC		65	GHz
		1.68:1	
		325	Vrms
		6	mOhms
		2	mOhms
5,000			MOhms
	DC	DC	DC 65 1.68:1 325 6 2

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 40	40 to 65			GHz
VSWR, Max	1.11:1	1.33:1	1.68:1			

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 Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE44491

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



RF Connectors Technical Data Sheet

PE44491

Electrical Specification Notes: Insertion loss = 0.04 x sqrt(fGHz) dB max up to 26.5 GHz.

Mechanical Specifications

Size

 Length
 0.26 in [6.6 mm]

 Width/Dia.
 0.13 in [3.30 mm]

 Weight
 0.006 lbs [2.72 g]

Material Specifications

Description	Material	Plating		
Contact	Beryllium Copper	Gold		
Insulation	PTFE			
Body	Beryllium Copper	Gold		

Mechanical Specification Notes:

Mating cycles: 500 (smooth bore), 100 (full detent) minimum.

Environmental Specifications

Temperature

Operating Range -55 to +155 deg C Humidity -55 to +155 deg C 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 Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL



RF Connectors Technical Data Sheet

PE44491

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Mini SMP 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% 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 Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE44491

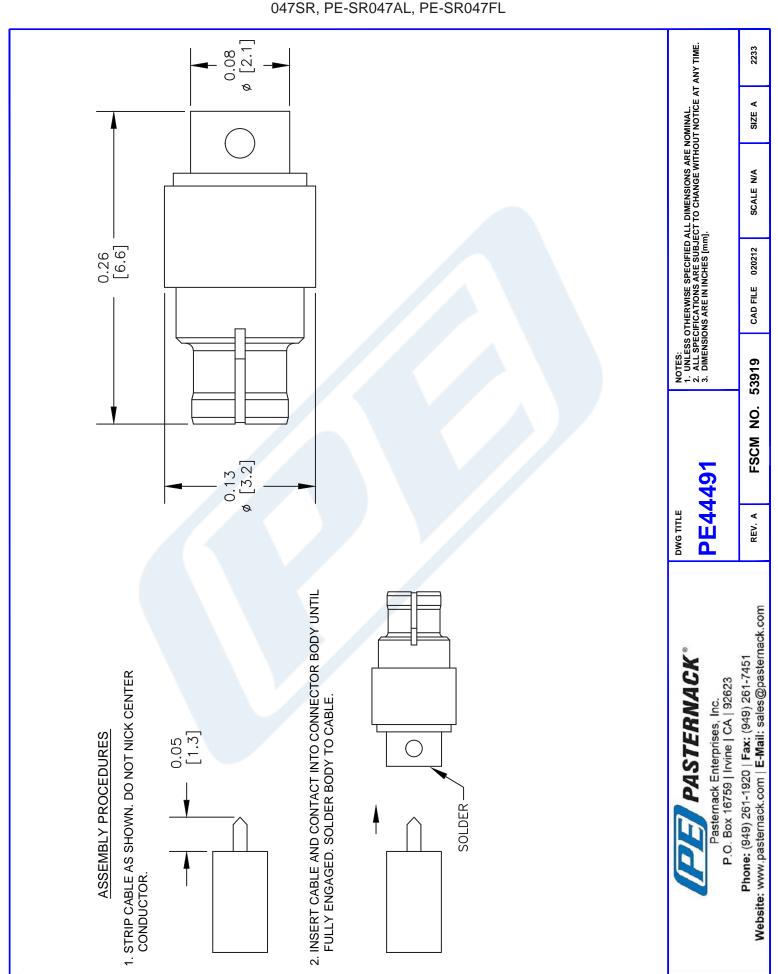
URL: https://www.pasternack.com/mini-smp-female-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe44491-p.aspx

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PE44491 CAD Drawing

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







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

