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SMP Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, Up To 40 GHz

RF Connectors
Technical Data Sheet

PE45277

Configuration

- SMP Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-047SR, PE-SR047AL, PE-SR047FL

Features

- Max. Operating Frequency 40 GHz
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-DTL-45204
- Blind Mate Connector
- Excellent VSWR of 1.25:1 up to 20 GHz

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45277 , SMP, Standard, Connector is part of our full line of RF components available for same-day shipping. Our SMP female connector operates up to a maximum frequency of 40 GHz and offers excellent VSWR of 1.25:1 up to 20 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. Pasternack 40 GHz SMP connectors are designed to offer a low cost alternative where the SMP form factor is desired but the standard SMP frequency range is not needed. The line of 40 GHz SMP connectors is fully compatible with industry standard SMP and GPO® connectors. These SMP connectors offer a low cost high performance blind-mate solution for lower frequency applications. The Male versions of the 40 GHz SMP is available in Full Detent, Limited Detent, and Smooth Bore versions.

Our SMP female connector PE45277 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		40	GHz
Impedance		50		Ohms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 20					GHz
VSWR, Max	1.25:1					

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMP Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, Up To 40 GHz PE45277

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SMP Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, Up To 40 GHz

RF Connectors
Technical Data Sheet

PE45277

Mechanical Specifications

Size

Length	0.26 in [6.65 mm]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-DTL-45204
Insulation	PTFE	
Body	Beryllium Copper	Gold MIL-DTL-45204

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method 106 (except 7b omitted)
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition D
Salt Spray	MIL-STD-202, Method 101, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMP Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, Up To 40 GHz 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: SMP Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, Up To 40 GHz PE45277

URL: https://www.pasternack.com/smp-female-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe45277-p.aspx

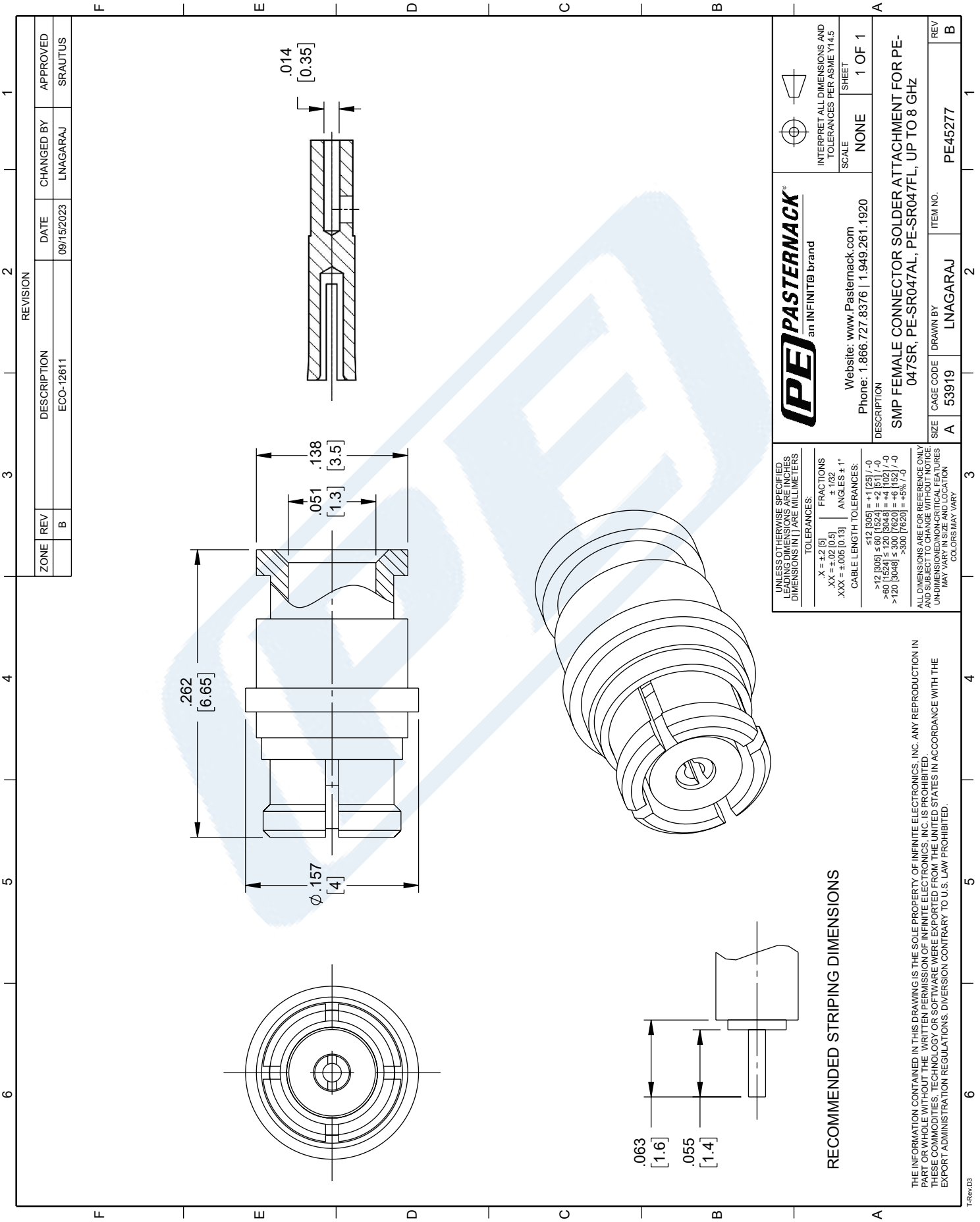
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PE45277 CAD Drawing

SMP Female Connector Solder Attachment for PE-047SR,
PE-SR047AL, PE-SR047FL, Up To 40 GHz



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SMPS Female VITA 67.3 Connector Solder Attachment for PE-P047, PE-P047HF, PE-P047LL, PE-P047FLX

RF Connectors
Technical Data Sheet

PE49829

Configuration

- SMPS Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-P047, PE-P047HF, PE-P047LL, PE-P047FLX
- VITA 67.3 Design

Features

- Max. Operating Frequency 40 GHz
- Good VSWR of 1.4:1
- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies
- VITA 67.3 Backplane
- High Density Applications

Description

Pasternack's PE49829 SMPS female VITA 67.3 connector with solder attachment for PE-P086, PE-P086HF, PE-P086LL, and PE-P086FLX is part of our full line of RF components available for same-day shipping. Our SMPS female VITA 67.3 connector operates up to a maximum frequency of 40 GHz and offers excellent VSWR of 1.4:1. 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 SMPS female VITA 67.3 connector PE49829 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		40	GHz
VSWR			1.4:1	
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.60 in [15.24 mm]
Width	0.13 in [3.30 mm]
Height	0.13 in [3.30 mm]
Weight	0.00 lbs [0.41 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMPS Female VITA 67.3 Connector Solder Attachment for PE-P047, PE-P047HF, PE-P047LL, PE-P047FLX PE49829

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SMPS Female VITA 67.3 Connector Solder Attachment for PE-P047, PE-P047HF, PE-P047LL, PE-P047FLX

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Outer Conductor	Beryllium Copper	Gold
Body	Passivated Stainless Steel	

Mechanical Specification Notes:
500 mating cycles when mated with a Smooth Bore connector (100 when mated to a Full Detent connector).

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method 106, Less Step 7B
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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

- PE49829 works with PE49831 SMPS VITA 67.3 12 Port Backplane Module D and PE49833 SMPS VITA 67.3 14 Port Backplane Module C

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: SMPS Female VITA 67.3 Connector Solder Attachment for PE-P047, PE-P047HF, PE-P047LL, PE-P047FLX PE49829

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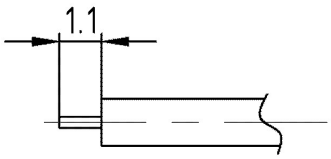
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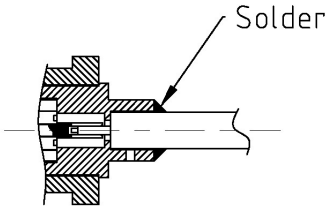
SMPS Female VITA 67.3 Connector Solder Attachment for PE-P047, PE-P047HF, PE-P047LL, PE-P047FLX

Assembly Instruction

Cable Assembly Instructions



Trim insulator and outer conductor to dimensions shown.
Be careful not to nick the center conductor.
NOTE:
To minimize cable dielectric growth during soldering operation, normalize cable thermal cycle per MIL-DTL-17 prior to final trim.



Insert cable into body, until outer conductor flush with body.
Solder outer conductor to body.
NOTE:
For PE49817, PE49819 and PE49829

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: SMPS Female VITA 67.3 Connector Solder Attachment for PE-P047, PE-P047HF, PE-P047LL, PE-P047FLX PE49829

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SMPS Female VITA 67.3 Connector Solder Attachment for PE-P047, PE-P047HF, PE-P047LL, PE-P047FLX

RF Connectors
Technical Data Sheet

PE49829

SMPS Female VITA 67.3 Connector Solder Attachment for PE-P047, PE-P047HF, PE-P047LL, PE-P047FLX 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.

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URL: https://www.pasternack.com/smps-female-pe-p047-pe-p047hf-pe-p047flx-connector-pe49829-p.aspx

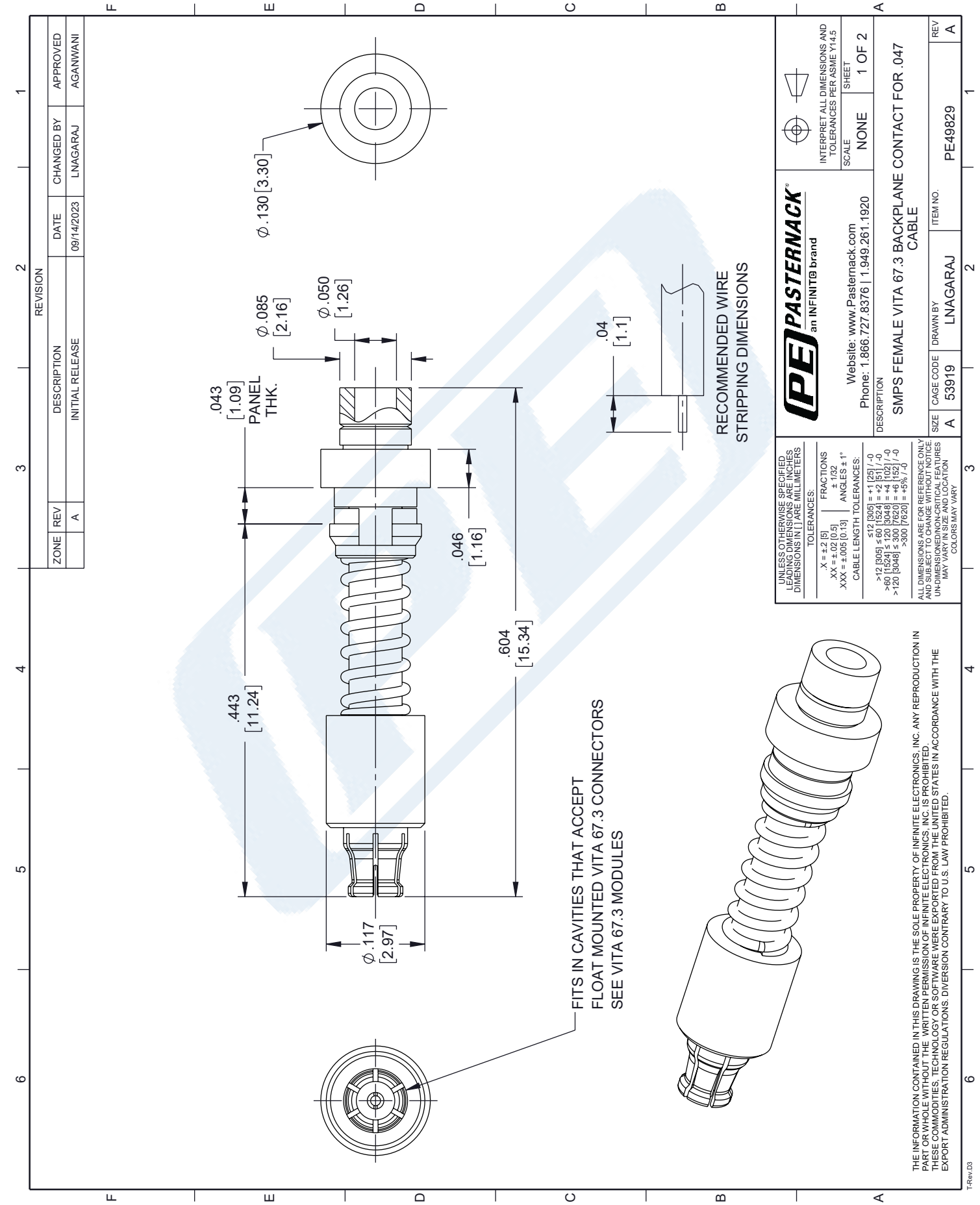
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PE49829 CAD Drawing

SMPS Female VITA 67.3 Connector Solder Attachment for PE-P047, PE-P047HF, PE-P047LL, PE-P047FLX

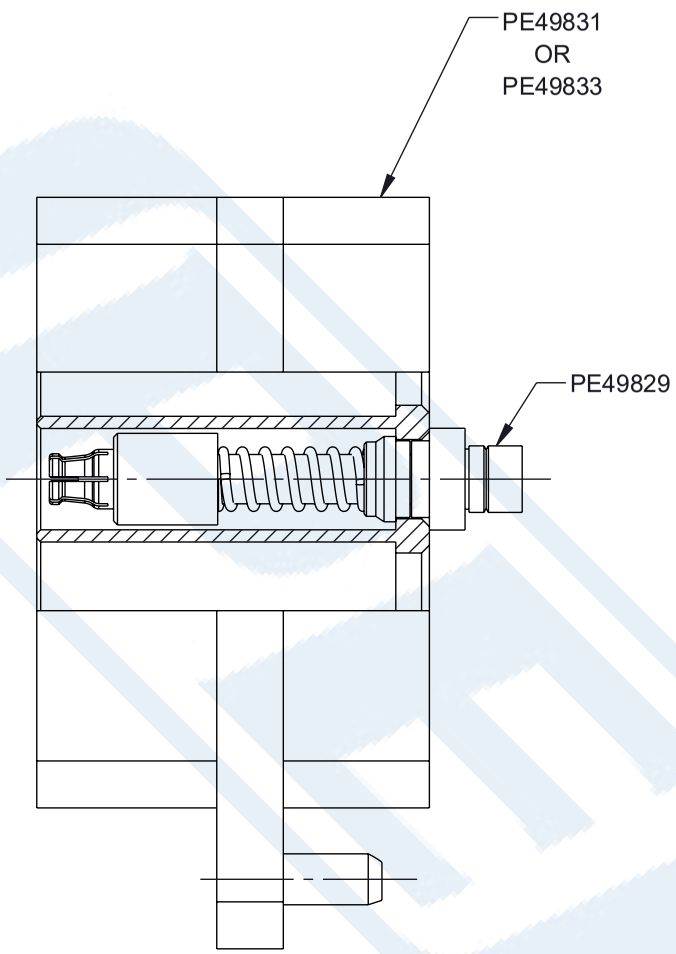


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PE49829 REV 1.0

REVISION					
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	09/14/2023	LNAGARAJ	AGANWANI



PE49829 CAD Drawing

SMPS Female VITA 67.3 Connector Solder Attachment for PE-P047, PE-P047HF, PE-P047LL, PE-P047FLX

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5]	FRACTIONS
.XX = ±.02 [0.5]	± 1/32
.XXX = ±.005 [0.13]	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.
UN-DIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE	SHEET
NONE	2 OF 2

DESCRIPTION
SMPS FEMALE VITA 67.3 BACKPLANE CONTACT FOR .047 CABLE

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	LNAGARAJ	PE49829	A

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T-Rev.D3

PASTERNACK®
THE ENGINEER'S RF SOURCE

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	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]

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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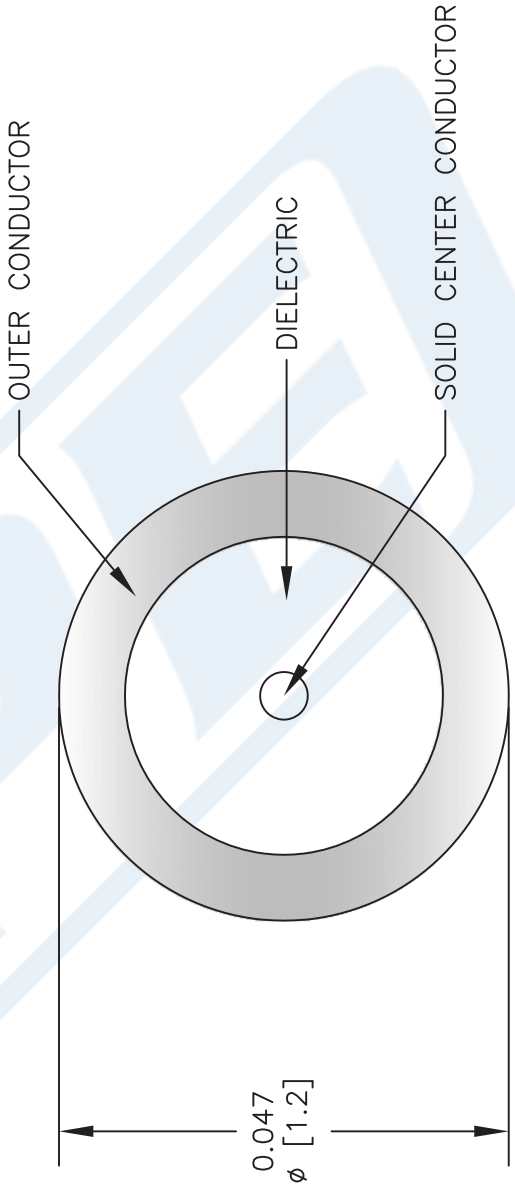
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PE-047SR CAD Drawing

047 Semi-rigid Coax Cable with Copper Outer Conductor





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DWG TITLE **PE-047SR**

CAD FILE 073113 | SCALE N/A | SIZE A | 2233

FSCM NO. 53919

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