



Mini SMP (SMPM) Female VITA 67.3 Connector Solder
Attachment for PE-P086, PE-P086HF, PE-P086LL, PE-P086FLX

RF Connectors
Technical Data Sheet

PE49816

Configuration

- Mini SMP Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-P086, PE-P086HF, PE-P086LL, PE-P086FLX
- VITA 67.3 Design

Features

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

Applications

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

Description

Pasternack's PE49816 Mini SMP 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 Mini SMP 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 Mini SMP female VITA 67.3 connector PE49816 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	
Insertion Loss			0.8	dB
Impedance		50		Ohms

Mechanical Specifications

Size	
Length	0.59 in [14.99 mm]
Width	0.20 in [5.08 mm]
Height	0.20 in [5.08 mm]
Weight	0.00 lbs [0.86 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP \(SMPM\) Female VITA 67.3 Connector Solder Attachment for PE-P086, PE-P086HF, PE-P086LL, PE-P086FLX PE49816](#)



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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 with 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:

- PE49816 works with PE49822 Mini SMP VITA 67.3 10 Port Backplane Module C and PE49824 Mini SMP VITA 67.3 14 Port Backplane Module C

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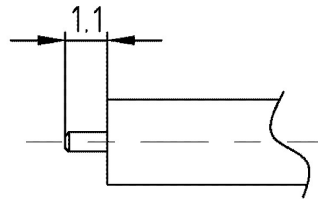
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Assembly Instruction

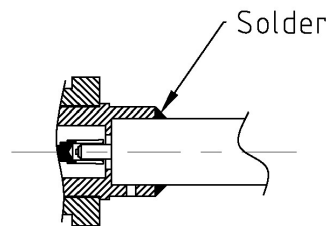
Cable Assembly Instructions



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 PE49816 and PE49820

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Mini SMP (SMPM) Female VITA 67.3 Connector Solder Attachment for PE-P086, PE-P086HF, PE-P086LL, PE-P086FLX 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.

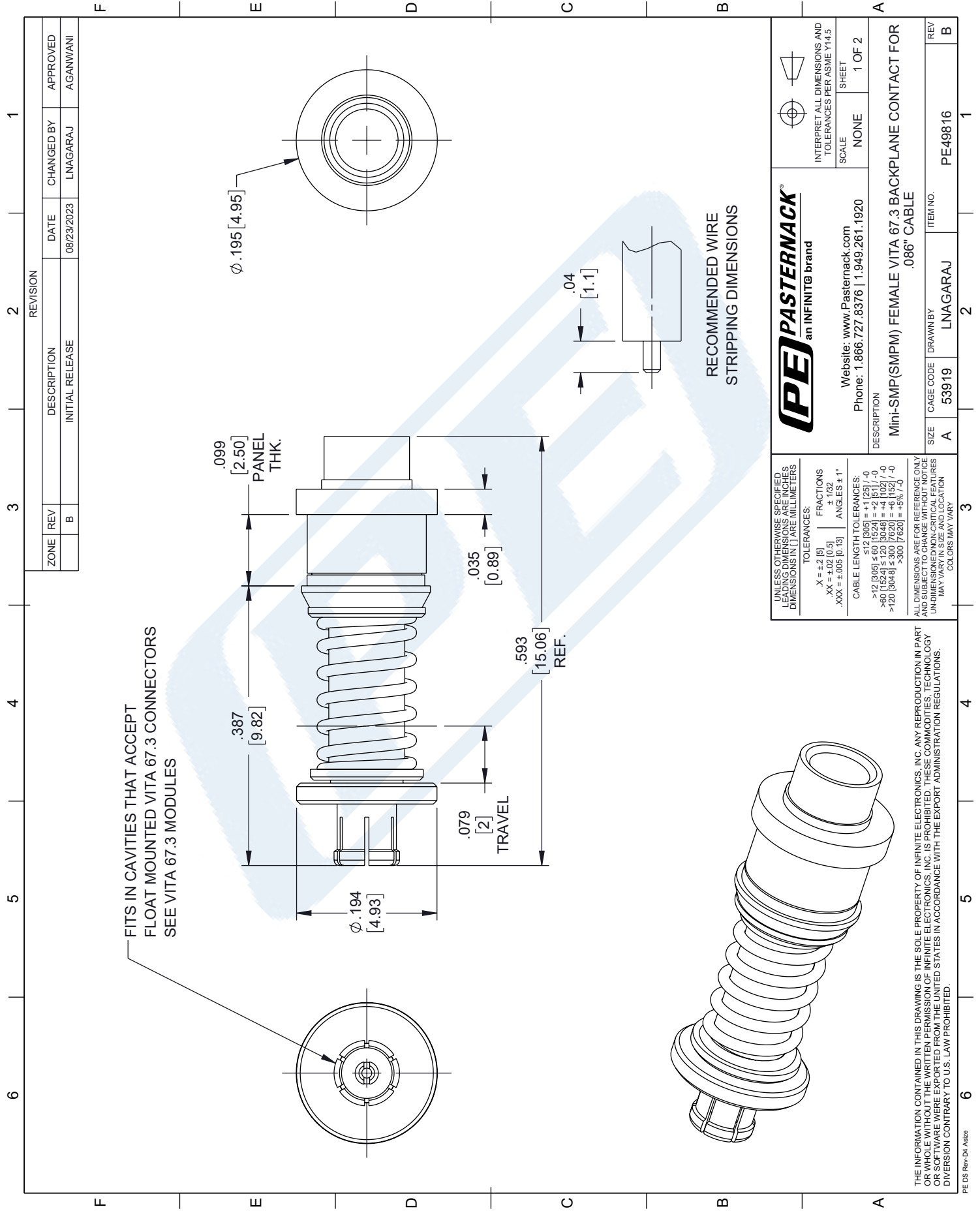
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

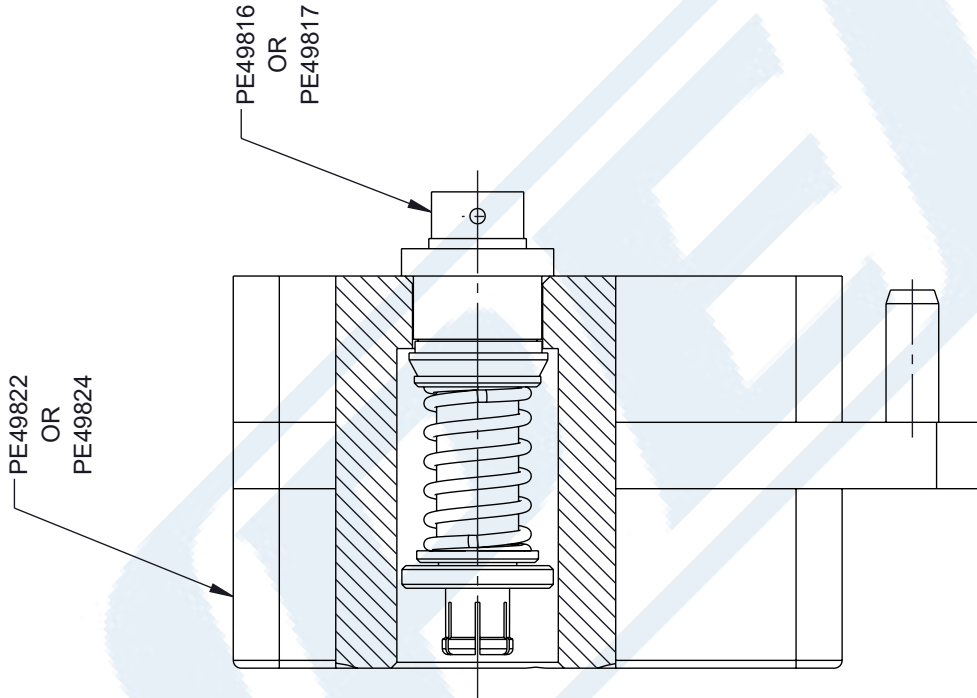
PE49816 CAD Drawing

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for PE-P086, PE-P086HF, PE-P086LL, PE-P086FLX



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				INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
SCALE		SHEET		2 OF 2	
NONE		NONE			
DESCRIPTION					
Mini-SMP(SMPM) FEMALE VITA 67.3 BACKPLANE CONTACT FOR .086" CABLE					
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	B
A	53919	LNAGARAJ		PE49816	
		2			1

ALL DIMENSIONS ARE FOR REFERENCE ONLY
UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED
MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

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