

SMP Plug Right Angle Non-magnetic Connector Crimp/Solder Attachment for 0.047 Cable

RF Connectors Technical Data Sheet

PE45886

Configuration

- SMP Plug Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: 0.047
- Non-Magnetic Design

Features

- Max. Operating Frequency 12.4 GHz
- Excellent VSWR of 1.25:1
- Gold over Copper Plated Beryllium Copper Contact
- Blind Mate Connector
- Magnetic Susceptibility 10^{-5}

Applications

- General Purpose Test
- Custom Cable Assemblies
- Medical
- Military and Aerospace
- Quantum Computing

Description

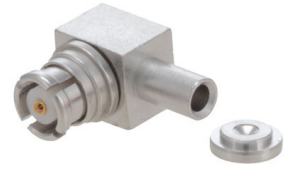
Pasternack's PE45886 Right Angle, SMP, Non-Magnetic, Connector is part of our full line of RF components available for same-day shipping. Our SMP plug connector operates up to a maximum frequency of 12.4 GHz and offers excellent VSWR of 1.25:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated. Its right angle body geometry allows for easier connections in tight spaces. Pasternack's Non Magnetic connectors are manufactured with materials that are especially adapted to non magnetism. Our non-magnetic connectors have a susceptibility of around 10^{-5} , as opposed to 10^{-2} for standard connectors made of brass/nickel materials. As a result, our non-magnetic connectors are transparent to the magnetic field, which means no field distortion and a higher Signal-to-Noise Ratio (SNR).

Our SMP plug right angle connector PE45886 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		12.4	GHz
VSWR			1.25:1	
Insertion Loss			0.12	dB
Operating Voltage (AC)			250	Vrms
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			500	Vrms
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: [SMP Plug Right Angle Non-magnetic Connector Crimp/Solder Attachment for 0.047 Cable PE45886](#)



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Mechanical Specifications

Size

Length	0.30 in [7.60 mm]
Width	0.26 in [6.70 mm]
Height	0.26 in [6.70 mm]
Weight	0.00 lbs [0.54 g]
Mating Cycles	500 Cycles

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Copper
Body	Bronze	Copper-Tin-Zinc Alloy over Silver

Environmental Specifications

Temperature

Operating Range	-55 to +105 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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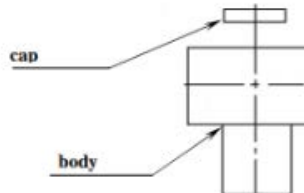


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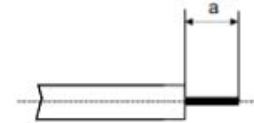
PE45886

Assembly Instruction

COMPONENT



STRIPPING CABLES



We recommend a thermal preconditioning cable

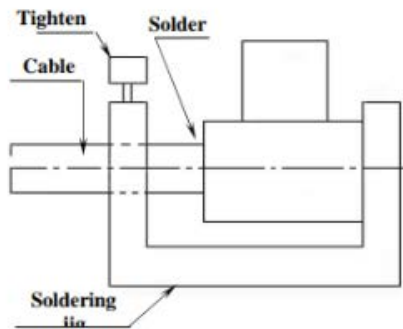
1

Strip the dielectric of the cable .
Clean the cable .
Soldering Sn Pb 180°
Temperature stoking do not exceed 250° max



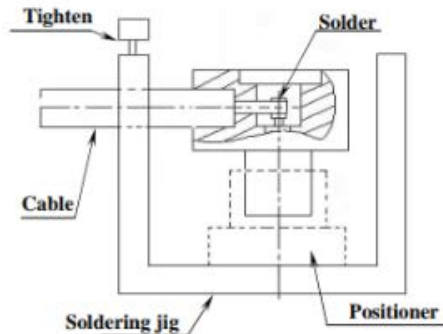
2

Slide cable and connector onto the soldering jig.
Slide cable into connector until it bottoms against the body and tighten.
Solder the body onto the cable .



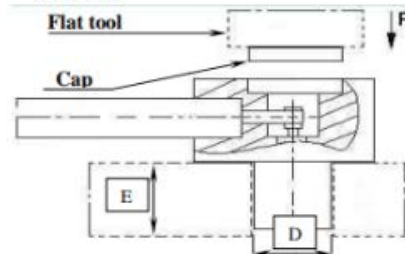
3

After cooling remove cable assembly from the jig .
Slide body into positioner until it bottoms against the positioner .
Slide cable assembly onto the jig .
Tighten and solder the contact.
After cooling remove cable assembly from the jig.

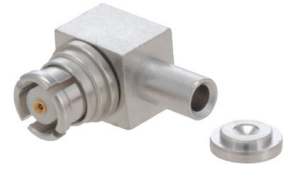


4

Place cable assembly into a dia D = 3.8 +0.1 and thickness E = 4 +0.1 .
Place cable assembly above a flat pressing tool .
To fit the cap until it bottoms against the body .
(direction F)



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SMP Plug Right Angle Non-magnetic Connector Crimp/Solder Attachment for 0.047 Cable 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 Plug Right Angle Non-magnetic Connector Crimp/Solder Attachment for 0.047 Cable PE45886](https://www.pasternack.com/smp-plug-0.047-cable-connector-pe45886-p.aspx)

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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.

PE45886 CAD Drawing

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