

Non-Magnetic Straight PCB Mount for 0.047 Cable

RF Connectors Technical Data Sheet

PE45884

Configuration

- SMP Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: 0.047 cable
- Non-Magnetic Design

Features

- Max. Operating Frequency 3 GHz
- Blind Mate Connector
- Magnetic Susceptibility 10^{-5}

Applications

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

Description

Pasternack's PE45884, SMP, Non-Magnetic, Connector is part of our full line of RF components available for same-day shipping. Our SMP male connector operates up to a maximum frequency of 3 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'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 male connector PE45884 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

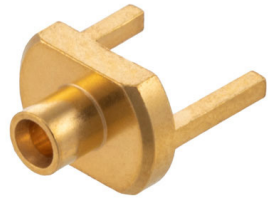
| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 3 | GHz |
| Operating Voltage (AC) | | | 335 | Vrms |
| Impedance | | 50 | | Ohms |
| Dielectric Withstanding Voltage (AC) | | | 1,000 | Vrms |

Mechanical Specifications

Size

| | |
|---------------|--------------------|
| Length | 0.43 in [10.90 mm] |
| Width | 0.21 in [5.26 mm] |
| Height | 0.21 in [5.26 mm] |
| Weight | 0.00 lbs [0.91 g] |
| Mating Cycles | 500 Cycles |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Non-Magnetic Straight PCB Mount for 0.047 Cable PE45884](#)



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Material Specifications

| Description | Material | Plating |
|-------------|----------|------------------|
| Body | Bronze | Gold over Copper |

Environmental Specifications

Temperature

Operating Range

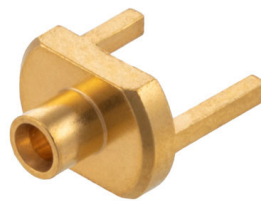
-55 to +155 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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Assembly Instruction

CONNECTOR BODY

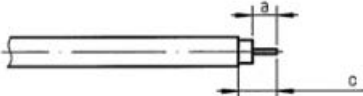


We recommend a thermal preconditioning cable .

① Strip the cable .

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-

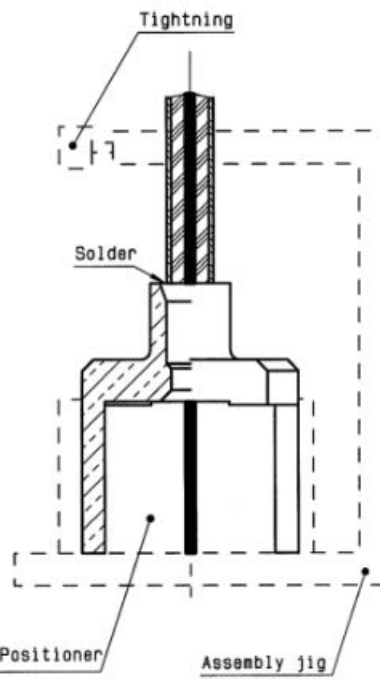


| Stripping | a | b | c | d | e |
|-----------|---------|---|---------|---|---|
| inch | 0.157 0 | | 0.197 0 | 0 | |
| mm | 4 | | 5 | | |

② Introduce the cable into the connector body until contact with the body shoulder.

Place the sub assembly into the assembly jig R 282 740 020 (or equivalent) with positionner R 282 863 000 and tighten it.

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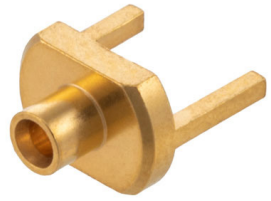


③ Solder the body on the cable.

Let the assembly cool down before removing it from the jig .

Clean solder.

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Non-Magnetic Straight PCB Mount 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.

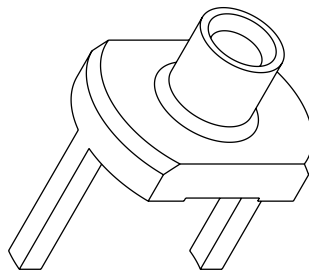
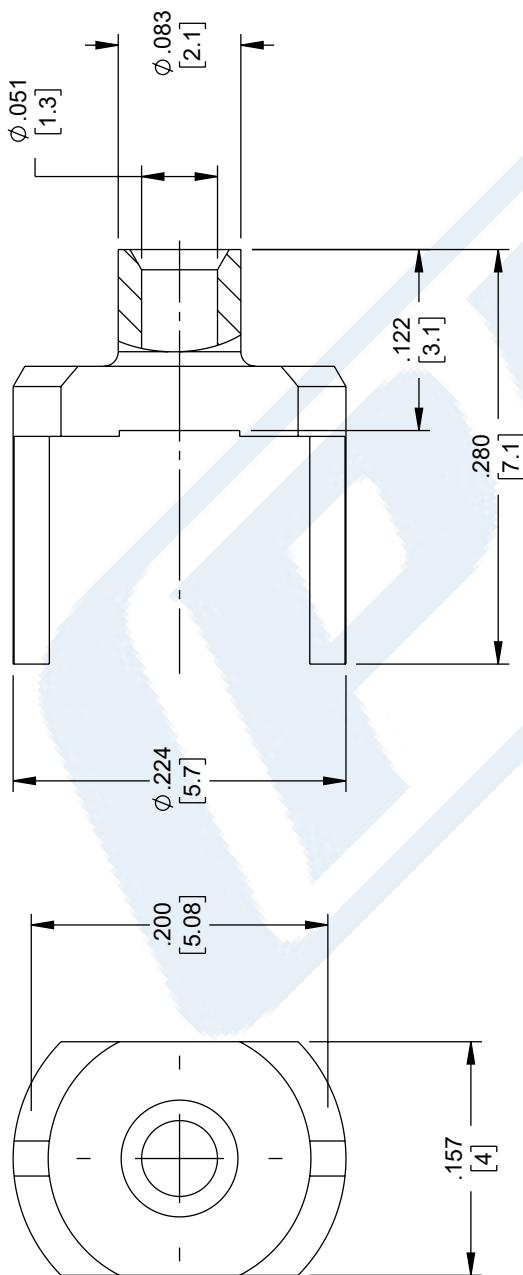
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Non-Magnetic Straight PCB Mount for 0.047 Cable PE45884](https://www.pasternack.com/cable-crimp-receptacle-0.047-connector-pe45884-p.aspx)

URL: <https://www.pasternack.com/cable-crimp-receptacle-0.047-connector-pe45884-p.aspx>

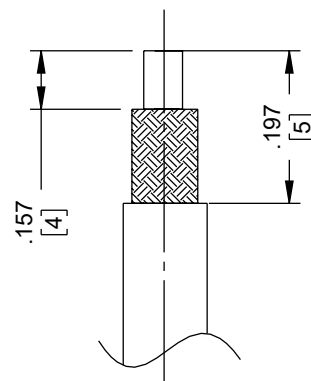
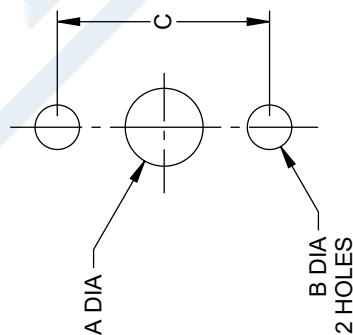
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

Non-Magnetic Straight PCB Mount for 0.047 Cable

| 3 | | | | | 2 | | | 1 | |
|----------|-----|-----------------|--|--|------------|------------|----------|---|--|
| REVISION | | | | | | | | | |
| ZONE | REV | DESCRIPTION | | | DATE | CHANGED BY | APPROVED | | |
| | A | INITIAL RELEASE | | | 11/07/2022 | PSRNIVAS | AGANWANI | | |



| | INCH [mm] | |
|---|-------------|-------------|
| | MAX | MIN |
| A | .043 [1.1] | .041 [1.05] |
| B | .043 [1.1] | .041 [1.05] |
| C | .203 [5.16] | .197 [5] |



PANEL CUTOUT

STRIPPING DIMENSIONS

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

| TOLERANCES: | | |
|--------------|-------|-------------|
| .X = ±.2 | [.5] | FRACTIONS |
| .XX = ±.02 | [.5] | ± 1/32 |
| .XXX = ±.005 | [.13] | ANGLES ± 1° |

CABLE LENGTH TOLERANCES:

$$\begin{array}{l} \leq 12 \text{ [305]} = +1 \text{ [25]} / -0 \\ > 12 \text{ [305]} \leq 60 \text{ [1524]} = +2 \text{ [51]} / -0 \\ > 60 \text{ [1524]} \leq 120 \text{ [3048]} = +4 \text{ [102]} / -0 \\ > 120 \text{ [3048]} \leq 300 \text{ [7620]} = +6 \text{ [152]} / -0 \end{array}$$

>300 [7620] = +5% / -0

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Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION

PCB MOUNT RIGHT ANGLE CABLE TERMINATION NON-MAGNETIC ATTACHMENT FOR 0.047 CABLE

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
|------|-----------|----------|----------|
|------|-----------|----------|----------|

| | | | | |
|---|-------|-----------|---------|---|
| A | 53919 | PSRINIVAS | PE45884 | A |
|---|-------|-----------|---------|---|

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

| | |
|-------|--------|
| SCALE | SHEET |
| NONE | 1 OF 1 |

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