SMA Male Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

**RF Connectors Technical Data Sheet**

**Configuration**
- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- • RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch Interface Type
- • Crimp/Solder Attachment
- • 5/16 inch Hex

**Features**
- Max. Operating Frequency 3 GHz
- Gold Plated Brass Contact
- Good VSWR of 1.4:1
- 50 µin minimum contact plating

**Applications**
- General Purpose Test
- Custom Cable Assemblies

**Description**
Pasternack’s PE4009 SMA male right angle connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and 0.100 inch is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.4:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE4009 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**

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>DC</td>
<td>3</td>
<td>3 GHz</td>
<td></td>
</tr>
<tr>
<td>VSWR</td>
<td></td>
<td>1.4:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Voltage (AC)</td>
<td>335</td>
<td></td>
<td>Vrms</td>
<td></td>
</tr>
</tbody>
</table>

**Mechanical Specifications**

<table>
<thead>
<tr>
<th>Size</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>0.756 in [19.2 mm]</td>
</tr>
<tr>
<td>Width/Dia.</td>
<td>0.315 in [8.00 mm]</td>
</tr>
<tr>
<td>Height</td>
<td>0.61 in [15.49 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>0.013 lbs [5.9 g]</td>
</tr>
<tr>
<td>Mating Torque</td>
<td>3 to 5 in-lbs [0.34 to 0.57 Nm]</td>
</tr>
</tbody>
</table>

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: SMA Male Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4009

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RF Connectors Technical Data Sheet PE4009

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Material Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Brass</td>
<td>Gold</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 µin minimum</td>
</tr>
<tr>
<td>Insulation</td>
<td>PTFE</td>
<td>Nickel</td>
</tr>
<tr>
<td>Body</td>
<td>Brass</td>
<td>Nickel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 µin minimum</td>
</tr>
<tr>
<td>Coupling Nut</td>
<td>Brass</td>
<td>Nickel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 µin minimum</td>
</tr>
<tr>
<td>Crimp Sleeve</td>
<td>Brass</td>
<td>Nickel</td>
</tr>
</tbody>
</table>

Environmental Specifications

Temperature
- Operating Range: -65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Male Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch 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.

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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.
SMA Male Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES
1. STRIP CABLE AS SHOWN & SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR AND SOFT SOLDER CENTER CONDUCTOR IN PLACE.
3. CRIMP FERRULE & PRESS CAP DOWN.

CRIMP SIZE REQUIRED
FERRULE: .128" HEX CRIMP TOOL

SMA MALE RIGHT ANGLE

LABEL "PASTERNACK PE4009"

SILVER BRAZING

0.500 [12.7]

0.250 [6.4]

0.610±0.020 [15.5±0.5]

0.100 [2.5]

5/16

0.591±0.012 [15.0±0.3]

0.771 [19.6]

REF.

0.610±0.020 [15.5±0.5]

0.591±0.012 [15.0±0.3]

STANDARD TOLERANCES

*X STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

F SCM NO. 53919

CAD FILE 071316

SCALE N/A

SIZE A 2233

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].