SMA Male Connector Crimp/Solder Attachment for PE-P195

RF Connectors Technical Data Sheet

PE44203

Configuration

- SMA Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- PE-P195 Interface Type
- Crimp/Solder Attachment
- 5/16 inch Hex

Features

- Max. Operating Frequency 12.4 GHz
- Gold Plated Brass Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack’s PE44203 SMA male connector with crimp/solder attachment for PE-P195 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 12.4 GHz.

Our SMA male connector PE44203 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></td>
<td>12.4</td>
<td>GHz</td>
</tr>
<tr>
<td>Dielectric Withstanding Voltage (AC)</td>
<td></td>
<td>750</td>
<td></td>
<td>Vrms</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td></td>
<td>5,000</td>
<td></td>
<td>MOhms</td>
</tr>
</tbody>
</table>

Mechanical Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>0.95 in [24.13 mm]</td>
</tr>
<tr>
<td>Width/Dia.</td>
<td>0.315 in [8.00 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>0.011 lbs [4.99 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 Connector Crimp/Solder Attachment for PE-P195 PE44203

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Sales@Pasternack.com • Techsupport@Pasternack.com

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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 MIL-G-45204</td>
</tr>
<tr>
<td>PTFE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Body</td>
<td>Brass</td>
<td>Nickel QQ-N-290</td>
</tr>
<tr>
<td>Coupling Nut</td>
<td>Brass</td>
<td>Nickel QQ-N-290</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:

Assembly Instruction

SMA Male Connector Crimp/Solder Attachment for PE-P195 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: SMA Male Connector Crimp/Solder Attachment for PE-P195 PE44203


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.
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].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

CONTACT: SOLDER FERRULE: .213" HEX CRIMP TOOL

SMA Male Connector Crimp/Solder Attachment for PE-P195
UHF Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch

RF Connectors Technical Data Sheet

PE4069

Configuration
• UHF Male Connector
• 50 Ohms
• Straight Body Geometry
• RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch Interface Type
• Crimp/Solder Attachment

Features
• Max. Operating Frequency 300 MHz
• Good VSWR of 1.3:1
• Gold Plated Brass Contact
• 30 µin minimum contact plating

Applications
• General Purpose Test
• Custom Cable Assemblies

Description
Pasternack’s PE4069 UHF male connector with crimp/solder attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195 and 0.195 inch is part of our full line of RF components available for same-day shipping. Our UHF male connector operates up to a maximum frequency of 300 MHz and offers good VSWR of 1.3:1.

Our UHF male connector PE4069 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>
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<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></td>
<td>300</td>
<td>MHz</td>
</tr>
<tr>
<td>VSWR</td>
<td></td>
<td>1.3:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Voltage (AC)</td>
<td></td>
<td>500</td>
<td>Vrms</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical Specifications

Size
- Length: 1.295 in [32.89 mm]
- Width/Dia.: 0.7 in [17.78 mm]
- Weight: 0.038 lbs [17.24 g]

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: UHF Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch PE4069
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 30 µin minimum</td>
</tr>
<tr>
<td>Insulation</td>
<td>PTFE</td>
<td>Nickel 100 µin minimum</td>
</tr>
<tr>
<td>Body</td>
<td>Brass</td>
<td>Nickel 100 µin minimum</td>
</tr>
<tr>
<td>Coupling Nut</td>
<td>Brass</td>
<td>Nickel 100 µin minimum</td>
</tr>
</tbody>
</table>

Environmental Specifications

**Temperature**

Operating Range: -55 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

UHF Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: UHF Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch PE4069


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Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket

RF Cables Technical Data Sheet

Configuration

- Flexible Cable
- 1 Shield(s)

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>5</td>
<td></td>
<td>GHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>50</td>
<td></td>
<td></td>
<td>Ohms</td>
</tr>
<tr>
<td>Velocity of Propagation</td>
<td>65.9</td>
<td></td>
<td></td>
<td>%</td>
</tr>
<tr>
<td>Operating Voltage (AC)</td>
<td></td>
<td>1,900</td>
<td></td>
<td>Vrms</td>
</tr>
<tr>
<td>Nominal Capacitance</td>
<td>30.8 [101.05]</td>
<td></td>
<td></td>
<td>pF/ft [pF/m]</td>
</tr>
</tbody>
</table>

Performance by Frequency Band

<table>
<thead>
<tr>
<th>Description</th>
<th>F1</th>
<th>F2</th>
<th>F3</th>
<th>F4</th>
<th>F5</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>0.01</td>
<td>0.1</td>
<td>1</td>
<td>5</td>
<td></td>
<td>GHz</td>
</tr>
<tr>
<td>Attenuation, Typ</td>
<td>1.4</td>
<td>4.9</td>
<td>20</td>
<td>60</td>
<td></td>
<td>dB/100ft</td>
</tr>
<tr>
<td></td>
<td>4.59</td>
<td>16.08</td>
<td>65.62</td>
<td>196.85</td>
<td></td>
<td>dB/100m</td>
</tr>
<tr>
<td>Input Power (CW), Max</td>
<td></td>
<td></td>
<td>44</td>
<td></td>
<td></td>
<td>Watts</td>
</tr>
</tbody>
</table>

Mechanical Specifications

- Diameter: 0.195 in [4.95 mm]
- Weight: 0.025 lbs/ft [0.04 Kg/m]
- Min. Bend Radius (Installation): 0.98 in [24.89 mm]
- Min. Bend Radius (Repeated): 1.96 in [49.78 mm]

Construction Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Material and Plating</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Conductor</td>
<td>Copper, Tin, 19 Strands</td>
<td>0.036 in [0.91 mm]</td>
</tr>
<tr>
<td>Conductor Type</td>
<td>Stranded</td>
<td></td>
</tr>
<tr>
<td>Dielectric</td>
<td>PE</td>
<td>0.116 in [2.95 mm]</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: Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket RG58C/U
Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket

### RF Cables Technical Data Sheet

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Shield</td>
<td>Tinned Copper Braid 0.138 in [3.51 mm]</td>
</tr>
<tr>
<td>Jacket</td>
<td>PVC (NC), Black 0.195 in [4.95 mm]</td>
</tr>
</tbody>
</table>

### Environmental Specifications

**Temperature**  
Operating Range: -40 to +80 deg C

### Compliance Certifications

(see product page for current document)

### Plotted and Other Data

**Notes:**

Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket 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: Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket RG58C/U


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Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket

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STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

STANDARD TOLERANCES
.X    ±0.2
.XX   ±0.01
.XXX  ±0.005

JACKET
OUTER SHIELD
DIELECTRIC
STRANDED CENTER CONDUCTOR

SECTION VIEW

RG58C/U
091817 7361
Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket
RG58C/U CAD Drawing