The SOLO series 9188 is a one-piece connector used to connect two PCBs in a cost effective manner.
A standard range is available with 4, 6, 8 staggered contacts to suit stack heights of 1.1mm to 2.1mm (see table below).
SOLO Stacker is designed for PCB surface mounting and is supplied in tape and reel packaging. Gold plated pads on the mating PCB or suitable flex circuits provide connection between the two boards.

**APPLICATIONS**
- Phones
- Scanners
- Radios
- Medical Diagnostic
- Security Devices

**FEATURES AND BENEFITS**
Single piece connector – no mating half required to connect two boards together which means:
- Reduced assembly time
- Only one part to purchase and stock
- Due to the unique contact design, the mating device does not have to be parallel
- Helps reduce tolerance accumulation within system

**ELECTRICAL**
- Current Rating: 1 Amp/Contact
- Voltage Rating: 125V
  Based on placement distance

**ENVIRONMENTAL**
- Operating Temperature: -55°C to +125°C

**MECHANICAL**
- Insulator Material: High Temperature Plastic; UL94 HB
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 50 Cycles

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Series</th>
<th>Number of Ways</th>
<th>Stack Height</th>
<th>Plating Variation</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>9188</td>
<td>00X</td>
<td>004  = 4</td>
<td>062 = Selective Gold</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>006 = 6</td>
<td>0.25µm Gold Plated</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>008 = 8</td>
<td>Contact Nose Pure</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Height</th>
<th>No. of Ways</th>
</tr>
</thead>
<tbody>
<tr>
<td>012</td>
<td>1.1mm to 1.3mm</td>
<td>4 only</td>
</tr>
<tr>
<td>020</td>
<td>1.9mm to 2.1mm</td>
<td>4, 6, &amp; 8</td>
</tr>
</tbody>
</table>

Based on placement distance
**Staggered Stacker: BTB**

**00-9188**

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### 4 WAY STAGGERED STACKER – 1.2MM HEIGHT

**NOTES:**

1. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-121.
3. INSULATOR MATERIAL: HIGH TEMPERATURE PLASTIC UL94 HB. COLOR BLACK.
4. CONTACT MATERIAL: COPPER ALLOY.
5. CONTACT PLATING: 1.0µM NICKEL UNDERPLATED. SELECTIVE 0.25µM GOLD ON NOSE.
6. PACKING 2000 PIECES ON A 330MM REEL.

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**SMT PCB FOOTPRINT**

**NOTES:**

1. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-121.
3. INSULATOR MATERIAL: HIGH TEMPERATURE PLASTIC UL94 HB. COLOR BLACK.
4. CONTACT MATERIAL: COPPER ALLOY.
5. CONTACT PLATING: 1.0µM NICKEL UNDERPLATED. SELECTIVE 0.25µM GOLD ON NOSE.
6. PACKING 2000 PIECES ON A 330MM REEL.

---

**MATING PCB FOOTPRINT**

**NOTES:**

1. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-121.
3. INSULATOR MATERIAL: HIGH TEMPERATURE PLASTIC UL94 HB. COLOR BLACK.
4. CONTACT MATERIAL: COPPER ALLOY.
5. CONTACT PLATING: 1.0µM NICKEL UNDERPLATED. SELECTIVE 0.25µM GOLD ON NOSE.
6. PACKING 2000 PIECES ON A 330MM REEL.
Staggered Stacker: BTB

00-9188

4 WAY STAGGERED STACKER – 2.0MM HEIGHT

MATING CONDITION

SECTION ON X-X

NOTES:
1. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-121.
3. INSULATOR MATERIAL: HIGH TEMPERATURE PLASTIC UL94 HB. COLOR BLACK.
4. CONTACT MATERIAL: COPPER ALLOY.
5. CONTACT PLATING: 1.0µM NICKEL UNDERPLATED. SELECTIVE 0.25µM GOLD ON NOSE.
   2.0 TO 4.0µM PURE TIN ON TAILS.
6. PACKING 2000 PIECES ON A 330MM REEL.

SMT PCB FOOTPRINT

PAD 0.60 x 1.00
PURE TIN PLATED
(4 POSITIONS)

4.00

1.00 TYP

MATING PCB FOOTPRINT

PAD 0.90 x 1.70
GOLD PLATED
(4 POSITIONS)

2.00

2.00

PACKING DETAILS

4.00

2.10
Staggered Stacker: BTB

6 WAY STAGGERED STACKER – 2.0MM HEIGHT

NOTES:
1. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-121.
3. INSULATOR MATERIAL: HIGH TEMPERATURE PLASTIC UL94 HB. COLOR BLACK.
4. CONTACT MATERIAL: COPPER ALLOY.
5. CONTACT PLATING: 1.0µM NICKEL UNDERPLATED. SELECTIVE 0.25µM GOLD ON NOSE.
   2.0 TO 4.0µM PURE TIN ON TAILS.
6. PACKING 2000 PIECES ON A 330MM REEL.
Staggered Stacker: BTB
00-9188

8 WAY STAGGERED STACKER – 2.0MM HEIGHT

MATING CONDITION

NOTES:
1. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-121.
3. INSULATOR MATERIAL: HIGH TEMPERATURE PLASTIC UL94 HB. COLOR BLACK.
4. CONTACT MATERIAL: COPPER ALLOY.
5. CONTACT PLATING: 1.0µM NICKEL UNDERPLATED. SELECTIVE 0.25µM GOLD ON NOSE. 2.0 TO 4.0µM PURE TIN ON TAILS.
6. PACKING 2000 PIECES ON A 330MM REEL.

SMT PCB FOOTPRINT

PACKING DETAILS