The 9159 series of Board-to-Board interconnect system allows two PCB’s to be mated end-to-end creating strips of LED lighting. Designed specifically for the unique Solid State Lighting (SSL) market requiring coplanar (horizontal-to-horizontal) PCB mating with a 5 Amp current rating in the smallest package available. These single sided SMT connectors are perfect for both FR4 and metal boards where you need to butt the boards up together to minimize separation. Availability of both white and black insulation colors make them perfect for lighting as well as industrial applications. With sizes from 2p-6p, these high reliability connectors boast gold plated beryllium copper receptacle contacts for harsh environments.

**APPLICATIONS**
- Coplanar PCB mating in SSL products
- LED linear lighting strips
- Application Notes: refer to 201-01-123

**FEATURES AND BENEFITS**
- Single sided SMT: supports FR4 and metal PCB’s
- 5 Amp current rating: exceeds general market needs
- 5.5mm mated width: minimizes PCB space to decrease LED pitch
- Gold plated BeCu spring contacts: reliability for harsh environments
- Optional retaining clip: provides positive connector mating during vibration
- Available in white: supports SSL market preferences

**ELECTRICAL**
- Current Rating: 5 Amps / Contact
- Voltage Rating: 125 VAC

**ENVIRONMENTAL**
- Operating Temperature: -40ºC to +125ºC

**MECHANICAL**
- Insulator Material: Nylon: VL94VO
- Contact Material: BeCu / Phos Bronze
- Plating: Gold / Tin over Nickel
- Durability: 10 Cycles

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Series</th>
<th>Number of Ways</th>
<th>2 Part PCB Strip Connector</th>
<th>Color/Approval</th>
<th>Plating Option</th>
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<tr>
<td>20</td>
<td>9159</td>
<td>00X</td>
<td>16</td>
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<tr>
<th>Code</th>
<th>No of Ways</th>
<th>Details</th>
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Certification: UL File #E90723
MARKER IN LINE WITH POSITION 1

NOTES:
1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
3. INSULATOR MATERIAL: NYLON 46, COLOR REFER TO PAGE 1.
4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
5. BRACKETS: COPPER ALLOY, TIN PLATED.
6. OUTLINE OF CONNECTOR.
7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

2 WAY PCB BOARD LAYOUT

PACKING DETAILS
SOCKET

3 WAY 2 PART PCB STRIP CONNECTOR

NOTES:
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6. OUTLINE OF CONNECTOR.
7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

3 WAY PCB BOARD LAYOUT

PACKING DETAILS
SOCKET
4 WAY 2 PART PCB STRIP CONNECTOR

MARKER IN LINE WITH POSITION 1

NOTES:
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6. OUTLINE OF CONNECTOR.
7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

4 WAY PCB BOARD LAYOUT

PACKING DETAILS

UNREELED DIRECTION

12.00

24.00
SOCKET
5 WAY 2 PART PCB STRIP CONNECTOR

MARKER IN LINE WITH POSITION I

NOTES:
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4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
5. BRACKETS: COPPER ALLOY, TIN PLATED.
6. OUTLINE OF CONNECTOR.
7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

5 WAY PCB BOARD LAYOUT

PACKING DETAILS

UNREEL'D DIRECTION

5 PADS 2.00×1.20
POSITON I
2 PADS 1.60×1.50

3.00
16.87
4 SPACES
@ 3.00 = 12.00

17.00 NOTE 6
3.00 NOTE 6

17.95
1.40 TYP
0.80 TYP
1.00
1.10
1.20
1.25
1.40
1.50
1.60
2.20
2.50
3.00

AVX INTERCONNECT
A KYOCERA GROUP COMPANY
SOCKET
6 WAY 2 PART PCB STRIP CONNECTOR

MARKER IN LINE WITH POSITION 1

NOTES:
1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
3. INSULATOR MATERIAL: NYLON 46.
   COLOR REFER TO PAGE 1.
4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
5. BRACKETS: COPPER ALLOY, TIN PLATED.
6. OUTLINE OF CONNECTOR.
7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

6 WAY PCB BOARD LAYOUT

PACKING DETAILS

UNREELED DIRECTION

UNREELED DIRECTION