### **General Description**





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 ideal 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
- Product Specification: refer to 201-01-119

#### **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 (RMS) or DC equivalent

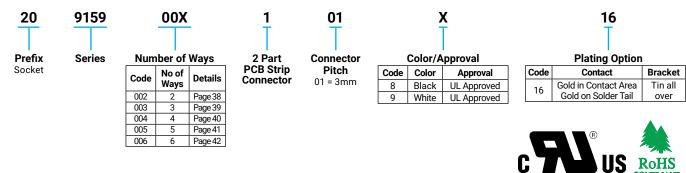
### **ENVIRONMENTAL**

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +70°C

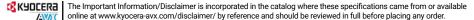
#### **MECHANICAL**

- Insulator Material: Nylon: UL94VO
- Contact Material: BeCu
- Plating: Gold / Tin over Nickel
- · Durability: 10 Cycles

#### **HOW TO ORDER**



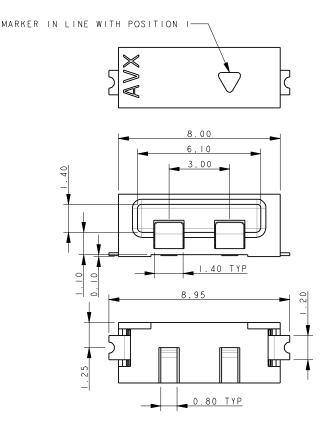
Safety Standards: UL 1977-File #E90723, CSA C22.2 NO. 182.3



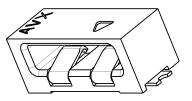


## 2 Position

SOCKET 2 WAY 2 PART PCB STRIP CONNECTOR



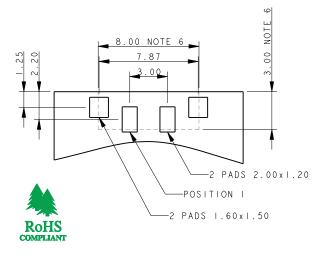
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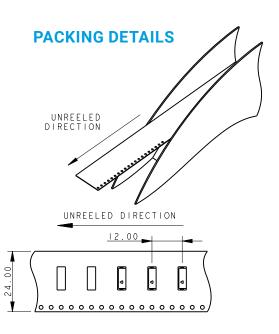


#### NOTES:

- 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 37.
- 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**



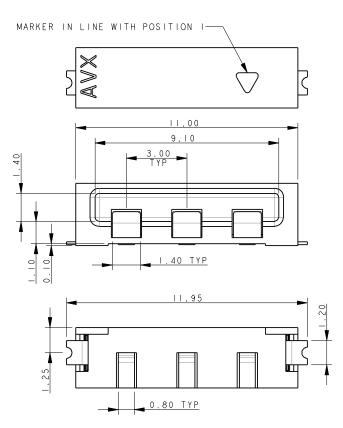


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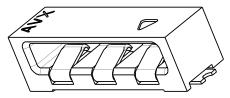


## **3** Position

## SOCKET 3 WAY 2 PART PCB STRIP CONNECTOR



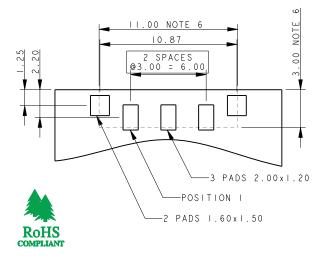
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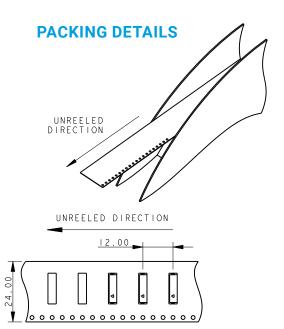


NOTES:

- 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 37.
- 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.

#### **3 WAY PCB BOARD LAYOUT**



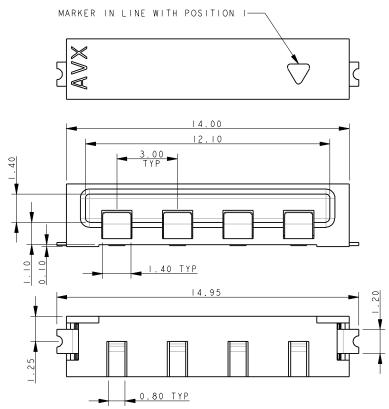


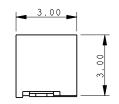
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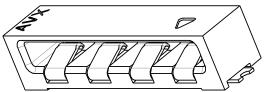




SOCKET 4 WAY 2 PART PCB STRIP CONNECTOR



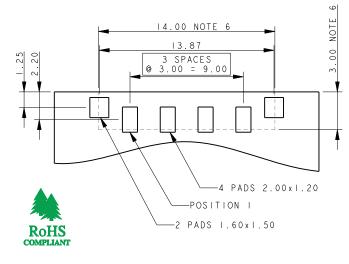


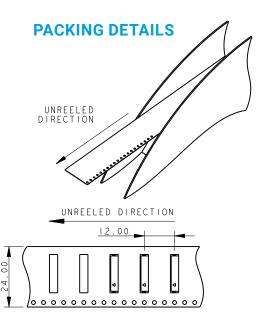


NOTES:

- 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 37.
- 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.

#### **4 WAY PCB BOARD LAYOUT**





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## SOCKET 5 WAY 2 PART PCB STRIP CONNECTOR

3.00

NOTES:

SPEC 201-01-119.

UNLESS TOLERANCES.

6. OUTLINE OF CONNECTOR.

REFER TO PAGE 37.

OVER NICKEL.

PER REEL.

3.00.

1. FOR MORE INFORMATION REFER TO PRODUCT

2. DIMENSIONS ARE REFERENCE DIMENSIONS

3. INSULATOR MATERIAL: NYLON 46. COLOR

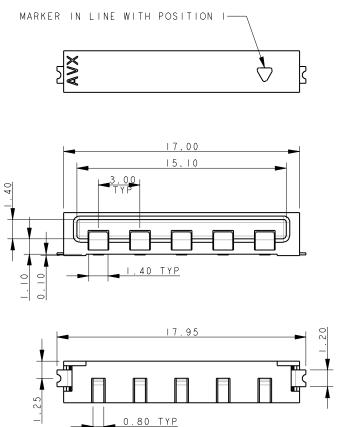
4. CONTACT MATERIAL: COPPER ALLOY, GOLD

5. BRACKETS: COPPER ALLOY, TIN PLATED.

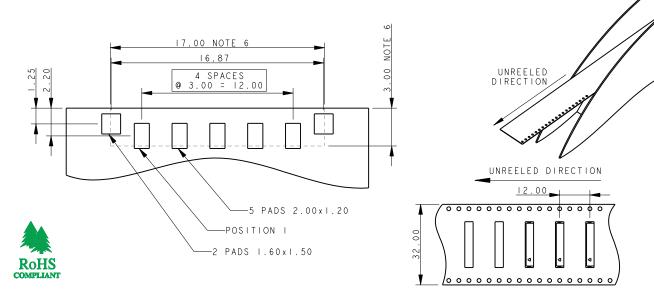
7. PACKING TAPE AND REEL, QUANTITY 1400

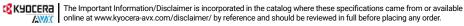
**PACKING DETAILS** 

0



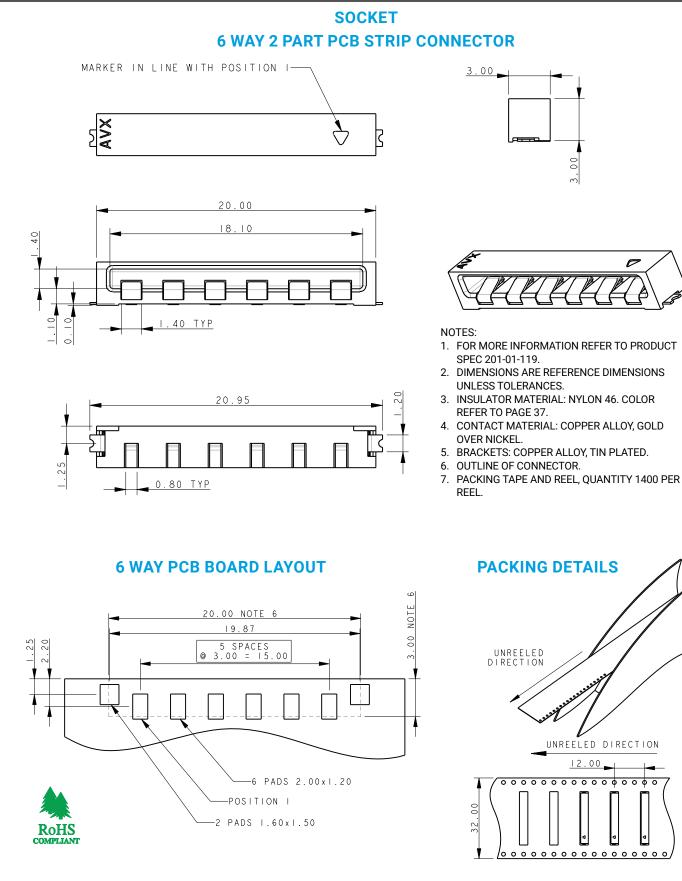
#### **5 WAY PCB BOARD LAYOUT**







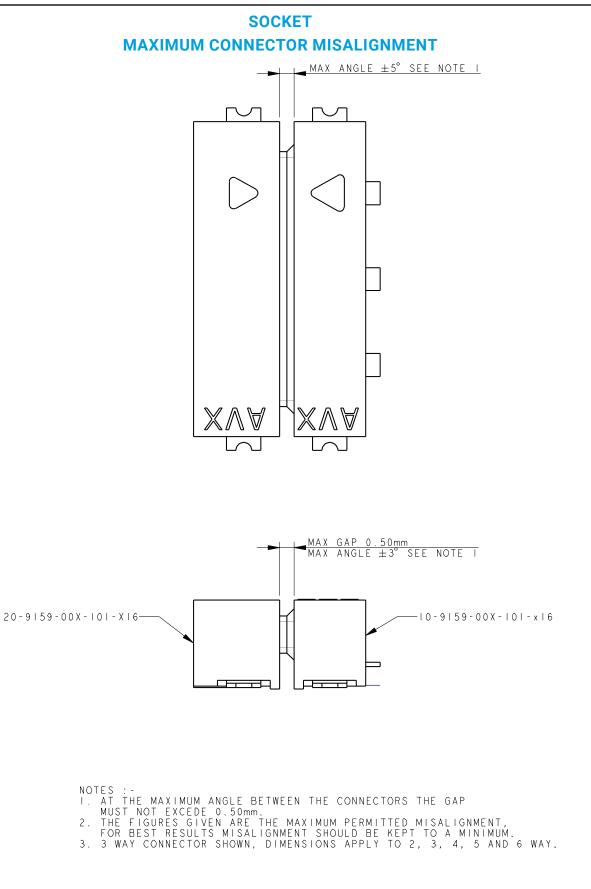
## 6 Position



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## **Maximum Connector Misalignment**



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