Series 9159





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. Availably 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.

Additional components in the 9159 product family include:

- SSL Horizontal Plug; Standard 2-Piece solution (10-9159)
- SSL - Cabled Plug; Supports wire-to-board applications (11-9159)
- SSL Top Load Socket; ZIF style for field reparability (22-9159)
- SSL Shorting Socket; Two position (58-9159)
- SSL Retaining Clip; Latches BTB connectors together (80-9159)

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: -40°C to +125°C

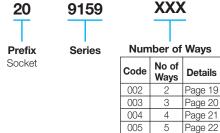
MECHANICAL

Insulator Material: Nylon: VL94VO

46

- Contact Material: BeCu / Phos Bronze
- Plating: Gold / Tin over Nickel
- Durability: 10 Cycles

HOW TO ORDER



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Connector					
Pitch					
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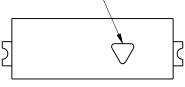
Ť					
Color Options		Plating Option			
Code	Color	Application	Code	Contact	Bracket
0	Black	Industrial	16	Gold in Contact Area	Tin
1	White	Lighting		Gold on Solder Tail	all over

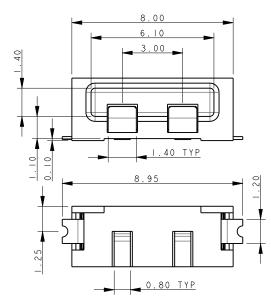


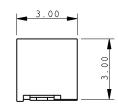
Series 9159

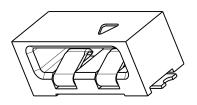
SOCKET 2 WAY 2 PART PCB STRIP CONNECTOR







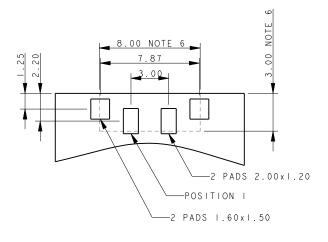


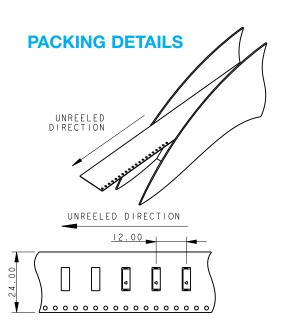


NOTES:

- 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 18.
- 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

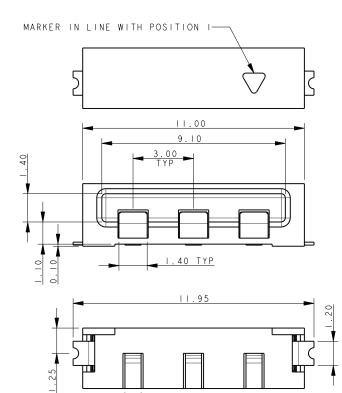


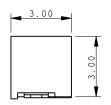


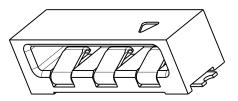


Series 9159

SOCKET 3 WAY 2 PART PCB STRIP CONNECTOR





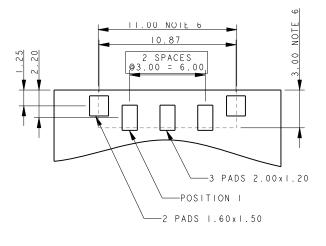


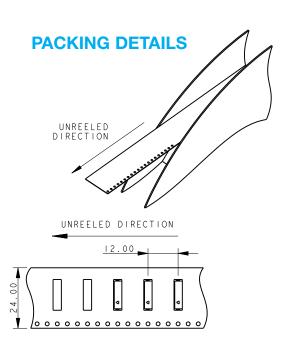
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- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

3 WAY PCB BOARD LAYOUT

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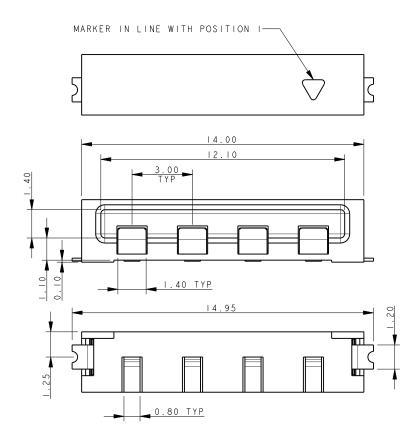


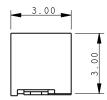


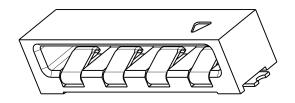




SOCKET 4 WAY 2 PART PCB STRIP CONNECTOR



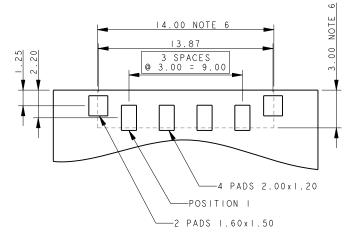


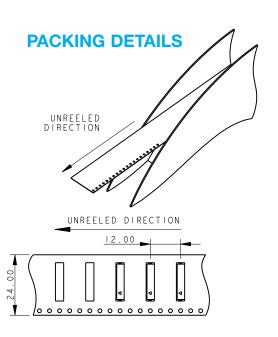


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4 WAY PCB BOARD LAYOUT

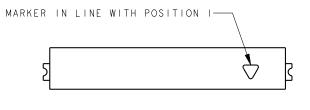


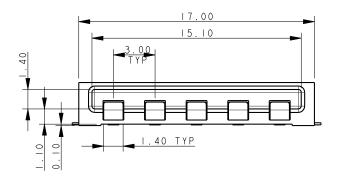


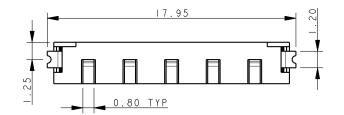




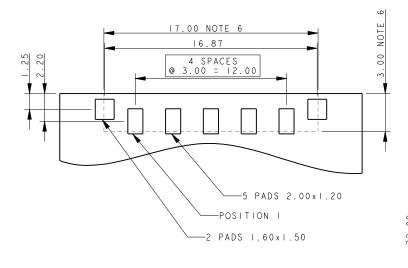
SOCKET 5 WAY 2 PART PCB STRIP CONNECTOR

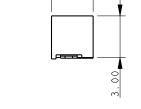




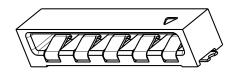


5 WAY PCB BOARD LAYOUT



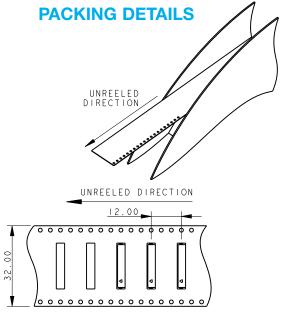


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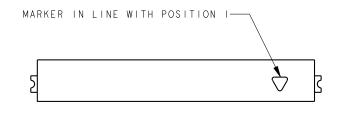
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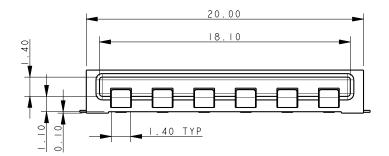


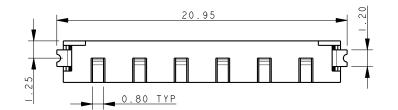
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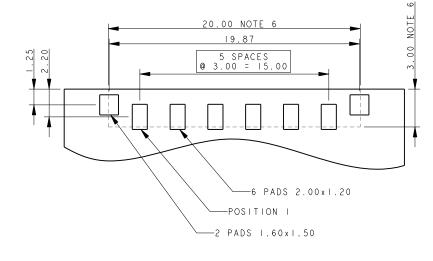
SOCKET 6 WAY 2 PART PCB STRIP CONNECTOR

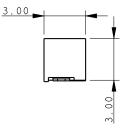


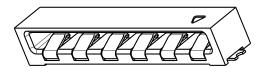




6 WAY PCB BOARD LAYOUT







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