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. The top loading socket allows complete PCB's to be replaced in the field without having to dissemble the entire strip of boards. The connector has a two part insulator whereby the top of the connector will slide open allowing the plug connector to be pulled out either vertically or at a slight angle. Once the PCB is replaced, the cover is slid back like a Zero Insertion Force (ZIF) connector to the closed position. The PCB layout is identical to the standard horizontal socket to maintain family commonality at the PCB level.

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 Horizontal Socket; Standard 2-Piece solution (20-9159)
- 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

- Slide open top; allows field reparability at the light fixture level
- Mates with standard horizontal or cabled plug; no need to change any connectors
- 5 Amp current rating; exceeds general market needs
- Gold plated BeCu spring contacts; reliability for harsh environments
- 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

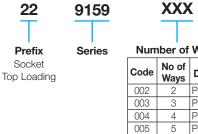
• Insulator Material: Nylon: VL94VO

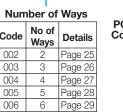
Contact Material: BeCu / Phos Bronze

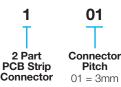
Plating: Gold / Tin over Nickel

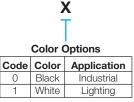
• Durability: 10 Cycles

HOW TO ORDER









		<u>16</u>	
	Option		
	Code	Contact	

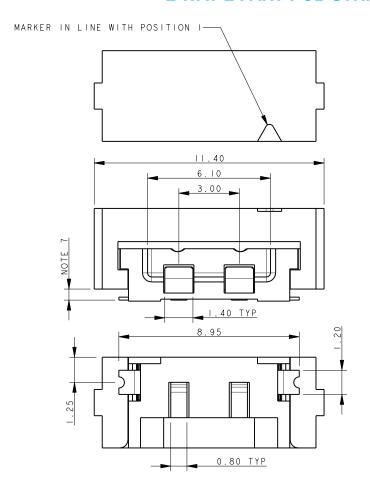
Flating Option					
Code	Contact	Bracket			
16	Gold in Contact Area	Tin			
	Tin on Solder Tail	all over			

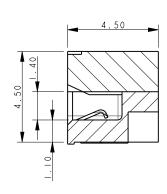


Series 9159



SOCKET TOP LOADING 2 WAY 2 PART PCB STRIP CONNECTOR

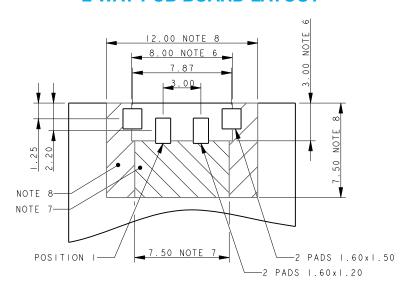


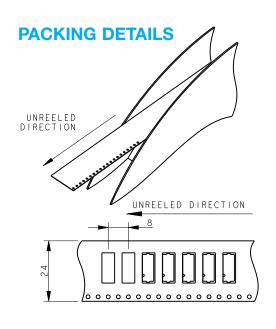


NOTES:

- 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 24.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 2.20MM MAXIMUM.
- 8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
- 9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

2 WAY PCB BOARD LAYOUT



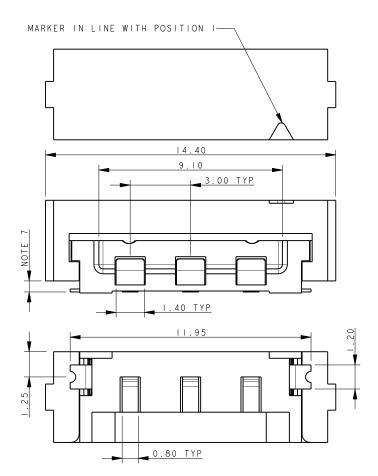


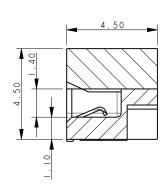


Series 9159



SOCKET TOP LOADING 3 WAY 2 PART PCB STRIP CONNECTOR

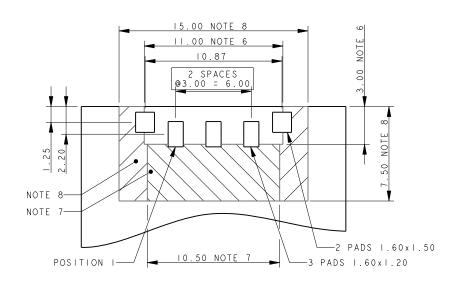


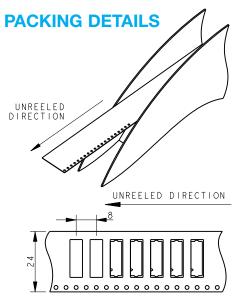


NOTES:

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- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 24.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 2.20MM MAXIMUM.
- 8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
- 9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

3 WAY PCB BOARD LAYOUT



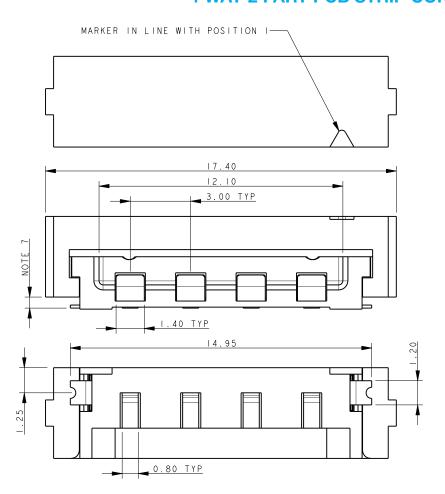


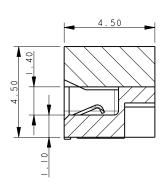


Series 9159



SOCKET TOP LOADING 4 WAY 2 PART PCB STRIP CONNECTOR

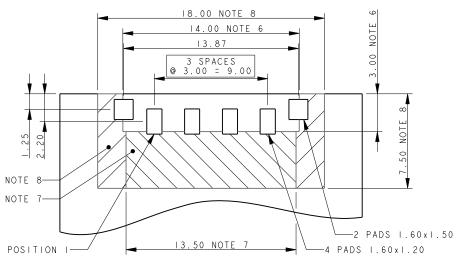


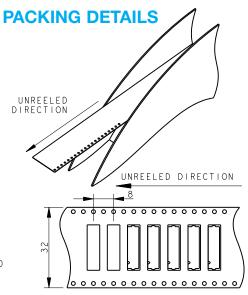


NOTES:

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- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 24.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 2.20MM MAXIMUM.
- RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
- 9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

4 WAY PCB BOARD LAYOUT



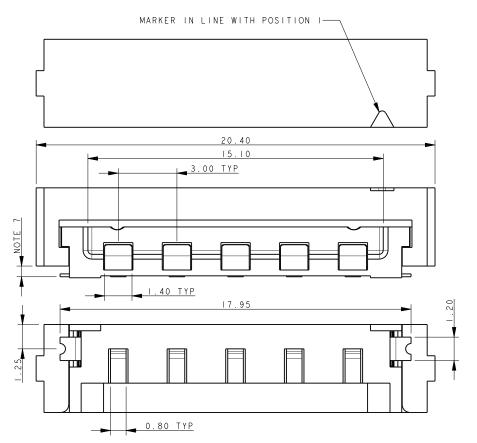


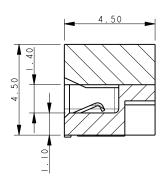


Series 9159



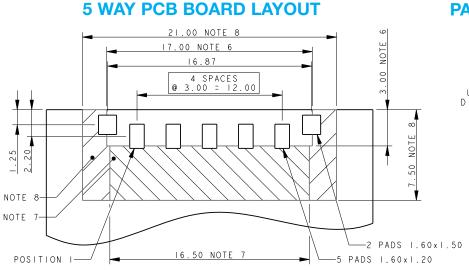
SOCKET TOP LOADING 5 WAY 2 PART PCB STRIP CONNECTOR

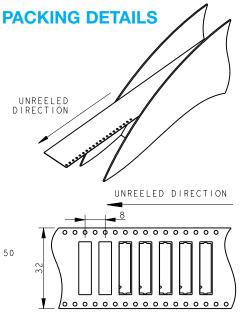




NOTES:

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- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 24.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 2.20MM MAXIMUM.
- 8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
- 9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.



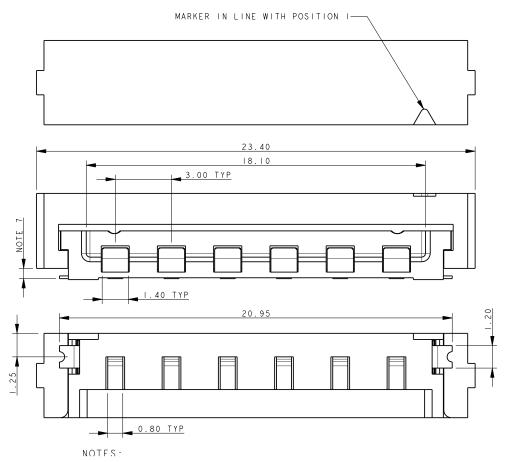


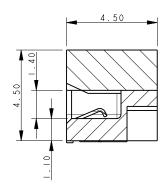


Series 9159



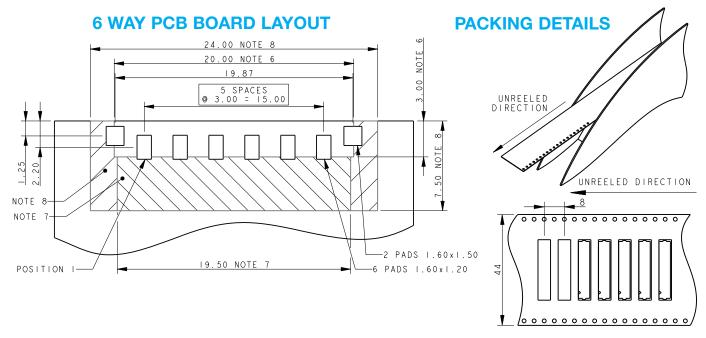
SOCKET TOP LOADING 6 WAY 2 PART PCB STRIP CONNECTOR





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- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 2.20MM MAXIMUM.
- 8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
- 9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.



Series 9159



CONNECTOR ASSEMBLY



COVER FORWARD (LOCKED)



COVER SLID BACK



