



**THE DATASHEET OF**  
**209159004101916**



# HORIZONTAL SOCKET BOARD-TO-BOARD: 20-9159-100



## General Information



The 9159 Series board-to-board interconnect system allows two PCBs to be mated end-to-end to create LED lighting strips. Designed specifically for the unique Solid State Lighting (SSL) market that requires coplanar (horizontal-to-horizontal) board 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 mate the boards together to minimize separation. Available in both white and black insulation colors, they are ideal for both lighting and industrial applications. With sizes from 2p-6p, these high reliability connectors feature 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
- UL Approved

### 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: UL94V0
- Contact Material: BeCu
- Plating: Gold / Tin over Nickel
- Durability: 10 Cycles

### HOW TO ORDER

**20**  
Prefix  
Socket

**9159**  
Series

**00X**  
Number of Ways  
002 = 2  
003 = 3  
004 = 4  
005 = 5  
006 = 6

**1**  
2 Part  
PCB Strip  
Connector

**01**  
Connector  
Pitch  
01 = 3mm

**X**  
Color  
8 = Black  
9 = White

**16**  
Plating Option

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

  
**SALES DRAWINGS**  
CLICK TO DOWNLOAD

Safety Standards: UL 1977-File #E90723



## Looking for pricing, stock, or lifecycle information?

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 [AVX Corp/Kyocera Corp](#) Information

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