

SINGLE 2 PIECE CONTACTS: 9159-400

General Information



Dissecting linear LED lighting from a connector standpoint looks very simple from a distance, but up close there is no magic solution. Although new connectors have been developed in recent years specifically for this application, the specific requirements in challenging new designs continue to push for something better, different and more cost competitive. KYOCERA AVX has been one of the companies developing new connector systems for this specific application. The 2-piece 9159 series offers the smallest profile while still supporting full 5 Amp capability.

KYOCERA AVX's latest approach is to not have a connector at all! LED's run down the center of the board, trying to minimize pitch densities to maximize light output. Connectors interrupt this requirement at every board-to-board interface. By design and construction, providing a single contact connector is not economical. However, eliminating the cost of the connector without sacrificing functionality provides both a technical and cost effective solution. By removing the insulator and allowing individual contact placement, the PCB can be designed with the LEDs in the center of the PCB and the contacts on the outer edges. This optimizes the design for functionality and assembly at the best possible cost. Specifically, the contacts are packaged in T&R for automatic placement, absorb significant x and y assembly tolerances, and provide a reliable gold-to-gold active contact interface. Application notes are available outlining all contact configurations to support both BTB and WTB applications.

APPLICATIONS

- Linear LED strip lighting
- Commercial/Industrial co-planar or extended card applications
- Product Specification: Refer to 201-01-148
- Application Notes: Refer to 201-01-149

FEATURES AND BENEFITS

- Gold plated horizontal contact system maximizes lateral PCB alignment and mating tolerances with a proven 2-pc connector solution
- Contact height has been minimized to 1.2mm above the PCB to prevent any shadowing effect
- Contacts can be individually spaced to support any voltage rating with a full 5 Amp current rating
- Individual contacts can support BTB and WTB applications

ELECTRICAL

- Current Rating: 5.0 Amps
- Voltage Rating: UL 300 VAC (RMS) or DC equivalent
Based on placement distance

ENVIRONMENTAL

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

MECHANICAL

- Contact Material: Copper Alloy
- Plug Plating: Gold in mating area, tin on tails
- Socket Contact: Gold all over
- Durability 5 Cycles

HOW TO ORDER

70
Prefix
70 = Contact

9159
Series

001
Number of Ways
001 = 1

4XX
Contact Description
401 = PLUG - SMT
402 = Socket - SMT
411 = Plug - SMT - Locking

06
Plating Option
06 = Gold in Contact Area



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



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

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