



# INVERTED THRU BOARD CARD EDGE: 9159-500



## General Information



KYOCERA AVX has developed the 1-piece Bottom Entry Card Edge Connector to allow a vertical PCB to be mated to a top mounted FR4 or metal core main PCB from the bottom side. The most popular application in the market is in the LED bulb market where the FR4 driver card needs to be mated to the top pads of a metal core LED board. A unique design feature of the KYOCERA AVX connector is that it allows both 1.6mm and 0.8mm mating PCB thickness, giving designers flexibility in PCB layout and selection. The optional "anti-touch" cap can be ordered pre-assembled on the connector or separately. This component protects a person from electrical contact if the lens is removed or the bulb is broken. This is a UL-mandated safety requirement.

The 9159-500 series offers a range of 2 to 6 positions to add additional functionality to the application design, such as color control or specific control lines. The connector is UL listed with halogen-free material and is capable of operating temperatures up to 120°C.

### APPLICATIONS

- Provides perpendicular, bottom entry PCB mating to a top mounted card edge contact based connector
- Application notes: Refer to 201-01-137
- Product Specification: Refer to 201-01-136

### FEATURES AND BENEFITS

- Available 2p-6p for added design functionality and color control in bulb applications
- Low profile top mounted design does not interfere with LED's
- Gold plated BeCu contact system for high reliability in harsh environments
- Accepts both 0.8mm and 1.6mm PCB's for added design options

### ELECTRICAL

- Current Rating: 2 Amps / Contact
- Voltage Rating: 300 VAC (RMS) or DC equivalent

### ENVIRONMENTAL

- Operating Temperature: -40°C to +120°C
- Storage Temperature: -40°C to +70°C

### MECHANICAL

- Insulator Material: Halogen Free Nylon UL94VO
- Contact Material: Beryllium Copper
- Plating: Gold / Tin over Nickel
- Durability 10 Cycles

### HOW TO ORDER

**00**  
Prefix

**9159**  
Series

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

**50X**  
Single Part PCB Strip Connector  
501 = Through The Board, Edge Card, No Cap  
502 = Through The Board, Edge Card, Cap Fitted

**9**  
Insulator Color  
8 = Black (Special)  
9 = White (Standard)

**06**  
Packaging Options  
06 = Gold Plating on Nose with Tin on Tails



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



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

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