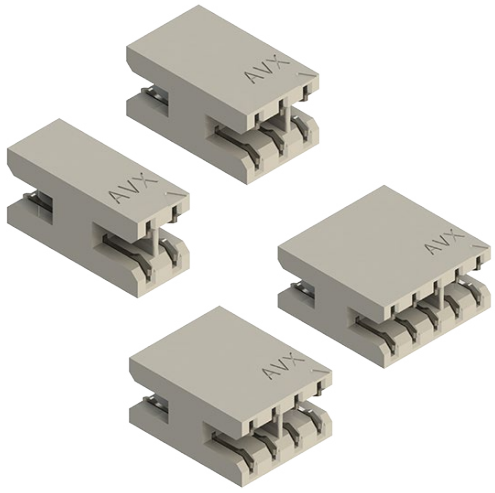
OPEN ENDED CARD EDGE: 9159-06X

General Information



KYOCERA AVX was challenged to increase the pin count density and minimize the size of the existing coplanar BTB card edge connector for linear strip lighting. The current product is a 2.0mm with single contacts that span the PCB to provide electrical connection to both the top and bottom of the PCB. By simply changing the contacts to a double-sided configuration (separate contacts for the top and bottom of the PCB), KYOCERA AVX was able to double the pin count in the same 2.0mm pitch with minimal to no impact on the electrical performance of the connector. Reducing the size of the connector required a completely new design as the target was a 4p connector with a total length of 4.0mm. To achieve this, KYOCERA AVX removed the end walls and then added a central support/keying rib to pre-align the PCB during mating. This rib then holds the PCB in the correct functional position.

The new connector family is available in 4, 6, 8 and 10 position contact sizes, doubling the current product range. The current rating is 3A for the 4p and 6p, dropping to 2.5A for the 8p and 10p connectors. The connector supports the standard 1.6mm PCB thickness.

This new connector offers the highest density to reliably connect two in-line PCBs in the most cost effective assembly solution. More importantly, the increased pin count allows for more flexibility in mixing and matching power and signal lines.

APPLICATIONS

- Linear LED strip lighting
- Commercial/Industrial co-planar or extended card applications
- Product Specification: Refer to 201-01-144
- Application Notes: Refer to 201-01-147

FEATURES AND BENEFITS

- Miniaturized size, achieves 1.0mm in length for each number of contacts (4p =4.0mm)
- Double Ended/Double Sided contacts for increased pin count density on standard 1.6mm thick PCB's
- Central polarizing/location rib assures proper mating and PCB location
- High current capabilities: 3A; 4p/6p and 2.5A; 8p/10p
- Economical high force Tin-to-Tin contact interface

ELECTRICAL

- Current Rating: 3.0 Amps 4p/6p and 2.5 amps 8p/10p
- Voltage Rating: 300 VAC (RMS) or DC equivalent

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C
- Storage Temperature:
- -40°C to +80°C

MECHANICAL

- Insulator Material: Nylon 46: UL94VO
- Contact Material: Phosphor Bronze
- Plating: Tin over Nickel
- Durability: 5 Cycles

HOW TO ORDER

00	9159	00X	0	61	X	1	X
Prefix	**Series**	**Number of Ways** 004 = 4 006 = 6 008 = 8 010 = 10	**Single Part PCB Strip Connector**	**PCB Thickness** 61 = Open Ended PCB Thickness 1.6-±0.10	**Color Options** 8 = Black Special Order 9 = White Standard	**Packaging Options** 1 = Bag	**Plating Option** 6 = Pure Tin all over 1 = Gold Flash

SALES DRAWINGS
CLICK TO DOWNLOAD

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.

Downloaded from Arrow.com.