Open Ended Card Edge

DRAFT

Scan Code for Datasheet

Or visit: www.avx.com

Basic Overview

AVX was challenged with increasing the pin count density as well as minimizing 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 straddle the PCB to make electrical connection on both the top and bottom side of the board. By simply changing the contacts to a double sided configuration (separate contacts for both the top and bottom of the PCB), 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 complete new design as the target was a 4p connector with a total length of 4.0mm. To achieve this, AVX removed the end walls and then added a center support/keying rib to pre-align the PCB during mating. This rib the then holds the PCB in the proper functional location.

The new family of connectors is available with contact sizes of 4, 6, 8 and 10 positions, doubling the current products range. The current rating will be 3A for the 4p and 6p, and then drop to 2.5A for the 8p and 10p connector. The connector supports the standard 1.6mm PCB thickness.

This new connector provides the highest density to reliably connect two in-line PCB's together in the most cost effective assembled solution. More importantly, the increased pin count allows for more flexibility in mixing and matching power and signal lines.

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

1 AVX Blvd. Fountain Inn, SC –USA (864)-967-2150

Open Ended Card Edge

Unique Features

Electrical
- Current Rating: 3.0 amps 4p/6p and 2.5 amps 8p/10p
- Voltage Rating: 300 VAC

Environmental
- Operating Temperature: -40°C to +125°C

Mechanical
- Insulator Material: Nylon 4+6, UL94VO
- Contact Material: Phosphor Bronze
- Plating: Tin over Nickel
- Durability: 5 Cycles

Applications

- Linear LED strip lighting
- Commercial/Industrial co-planar or extended card applications
- Reference Product Specification 201-01-144

How to Order

00	9159	00X	0	61	916
Prefix	**Series**	**# of Positions** 004 = 4p 006 = 6p 008 = 8p 010 = 10p	**Single part PCB Strip Connector**	**PCB Thickness** 61 = 1.60 ± 0.15	**Insulator Color** White UL Approved

FAQ's

Q: Why is this different than the original 9159 Card Edge?
A: The original Card Edge is single-contact double-sided, this product is double-contact double-sided.

Q: Why is this called Open Ended?
A: The plastic end walls were removed to minimize the length. A keying rib has been inserted for strength and alignment.

Contact Information

North America

Tom Anderson
Product Manager
TEL:(864) 228-3421
Email: Tom.Anderson@avx.com

Europe

Jiri Vojacek
Product Manager
TEL: 420 575 757 564
Email: Vojacekj@avxeur.com

Asia

Frank Xi
Product Manager
TEL: 86 21 3255 1933
Email: Frank.Xi@asia.avx.com