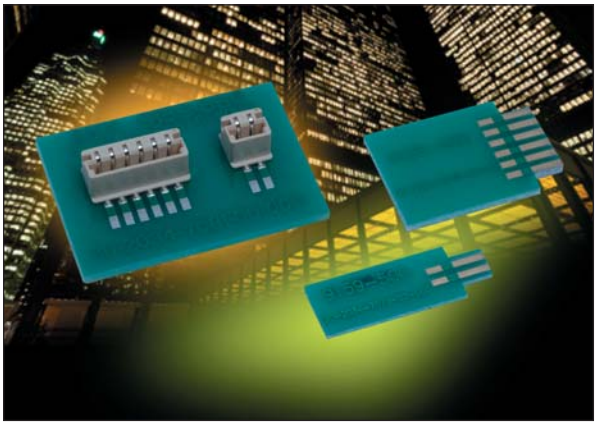
One Piece Top Entry Card Edge

Series 00-9159



AVX continues to develop unique connectors to fill the gap in the industrial market, specifically as it relates to low pin count requirements. The newest addition to AVX's broadening line of one piece card edge connectors is the 2p-6p top entry version which complements the bottom entry version released last year. This new configuration will allow small perpendicular daughter cards to be plugged in from the top side of the main board. The single connector option offers an alternative to the more traditional and costly two piece solution.

This small connector is packed with several key features that provide significant functionality in a broad range of robust industrial applications. The contact system is gold plated for enhanced reliability, signal integrity and full 2A/contact current rating. The PCB board opening is dual slotted to accept either a 0.8mm or 1.6mm thick daughter card within the same connector body.

APPLICATIONS

- Provides a one piece connector solution for low pin count perpendicular PCB mating in industrial applications
- Facilitates easy plug ability for small module/ programming cards

FEATURES AND BENEFITS

- 2 Amp per contact current rating meets robust industrial application requirements
- Removable pick and place cap supports robotic placement and SMT termination
- 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: 250 VAC

ENVIRONMENTAL

- Operating Temperature: -40ºC to +120ºC

MECHANICAL

- Insulator Material: 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**

Code	No of Ways	Details
002	2	Page 2
003	3	Page 3
004	4	Page 4
005	5	Page 5
006	6	Page 6

551 — **Single Part PCB Strip Connector**
551 = Top Mounting on Board

X — **Insulator Color**

Code	Color	Application
9	White	UL Approved Standard

06 — **Plating Option**
06 = Gold Plating on Nose with Tin on Tails

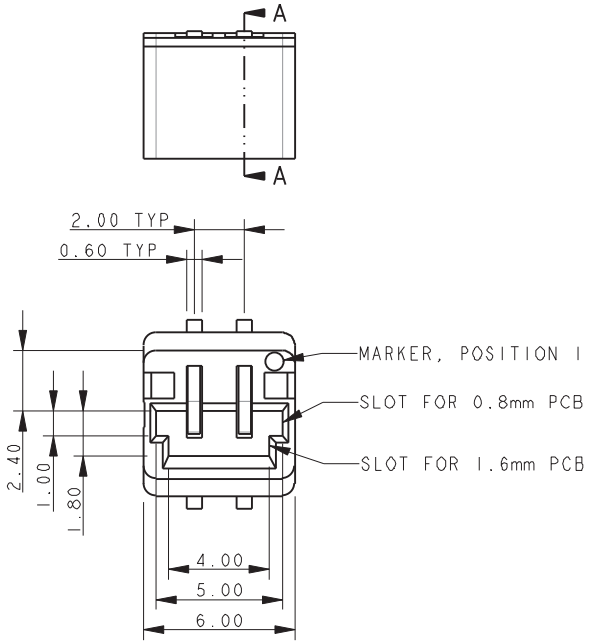
RoHS COMPLIANT

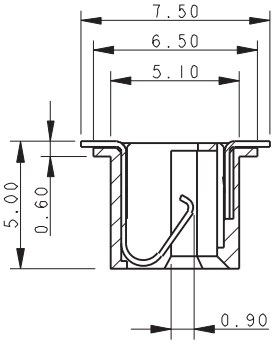
Certification: UL File #E90723

One Piece Top Entry Card Edge

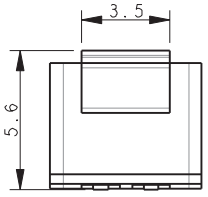
Series 00-9159

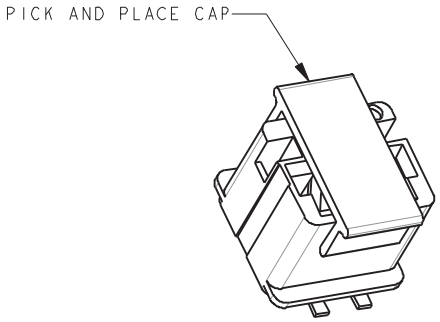
2 WAY TOP MOUNTING EDGE CARD CONNECTOR



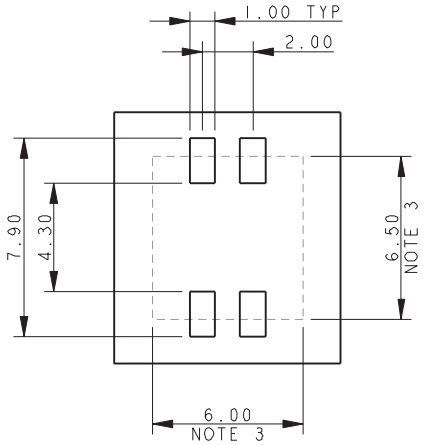


SECTION A-A

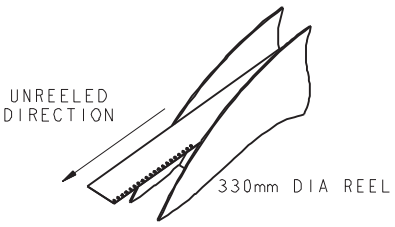


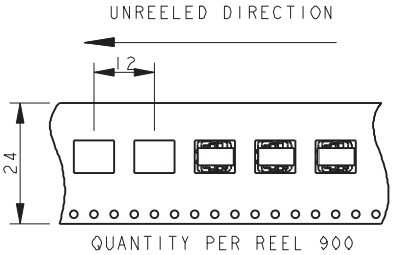


SUGGESTED PCB LAYOUT



PACKING DETAILS





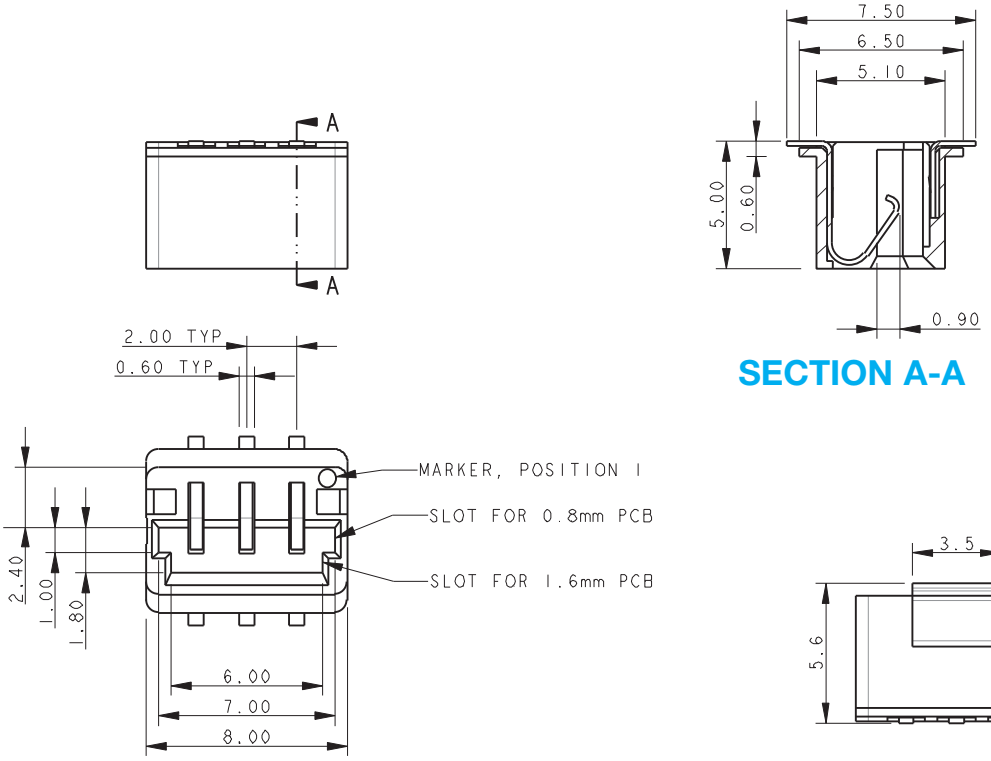
NOTES:

1. 5159-500 SERIES TOP MOUNTING EDGE CARD CONNECTOR, 2 WAY. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136 AND APPLICATION NOTES 201-01-137.
2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK PCB. (DETAILS SAME AS 9159-500), REFER TO PAGE 7.
3. CONNECTOR OUTLINE.
4. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
5. INSULATOR: PA4T, GLASS FILLED, HALOGEN FREE, UL94 V-0, COLOR REFER TO PAGE 1.
6. CONTACT: COPPER ALLOY, NICKEL PLATED WITH GOLD FLASH ON NOSE AND TIN ON TAILS.
7. BRACKET; COPPER ALLOY, PLATING, TIN OVER NICKEL.
8. PACKING IN TAPE AND REEL, 900 PIECES PER REEL.
9. CONTACT TAILS COPLINARITY WITHIN 0.10.

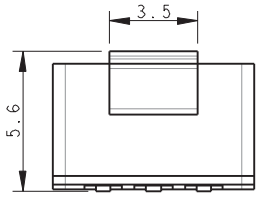
One Piece Top Entry Card Edge

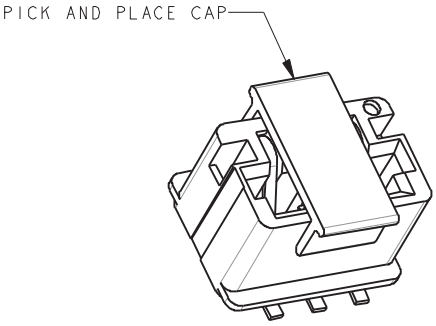
Series 00-9159

3 WAY TOP MOUNTING EDGE CARD CONNECTOR

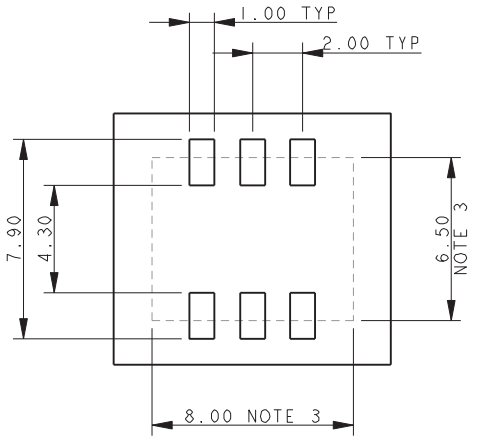


SECTION A-A

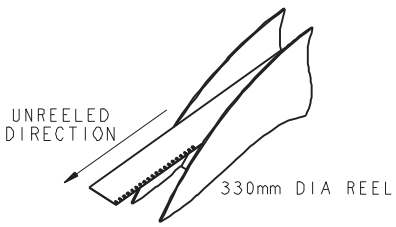


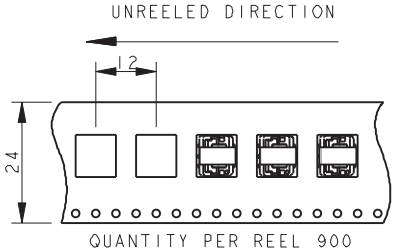


SUGGESTED PCB LAYOUT



PACKING DETAILS





NOTES:

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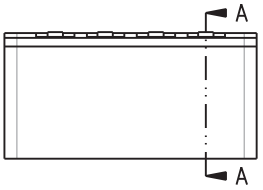
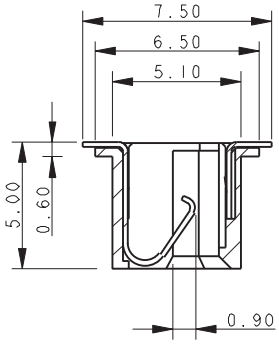
9. CONTACT TAILS COPLINARITY WITHIN 0.10.

One Piece Top Entry Card Edge

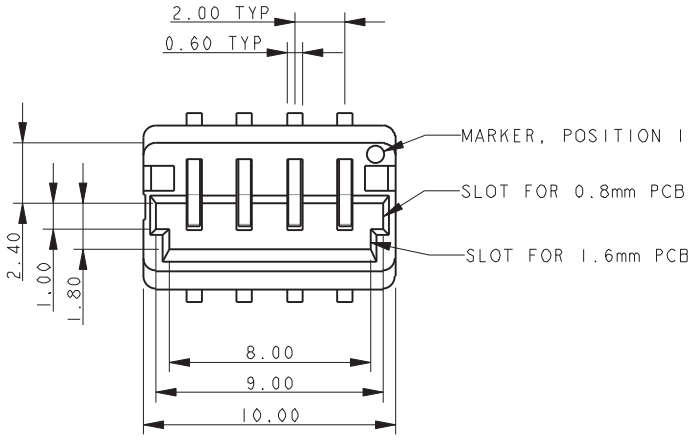
Series 00-9159

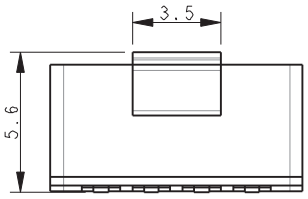
4 WAY TOP MOUNTING EDGE CARD CONNECTOR



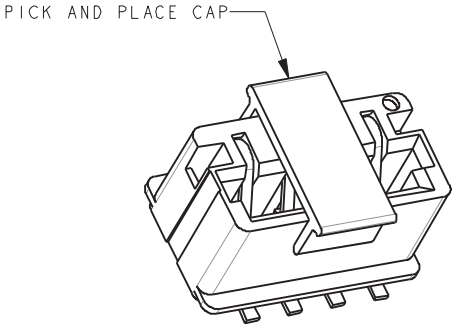


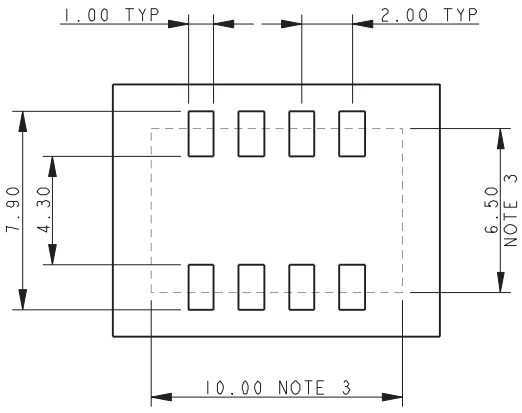
SECTION A-A



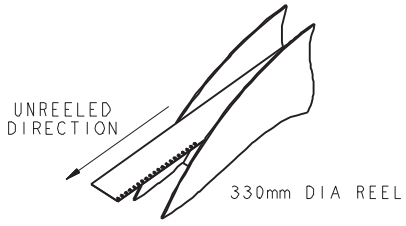


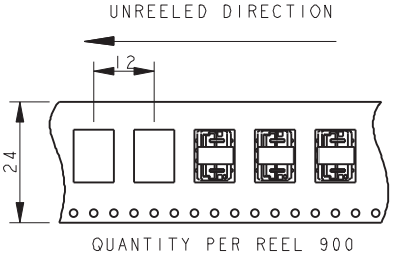
SUGGESTED PCB LAYOUT





PACKING DETAILS





NOTES:

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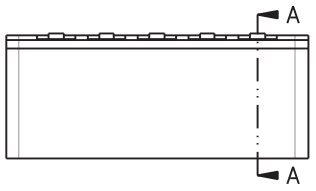
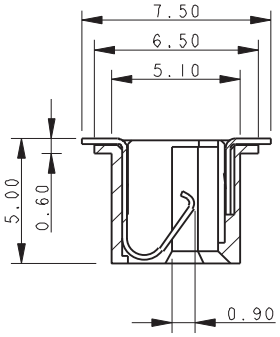
One Piece Top Entry Card Edge

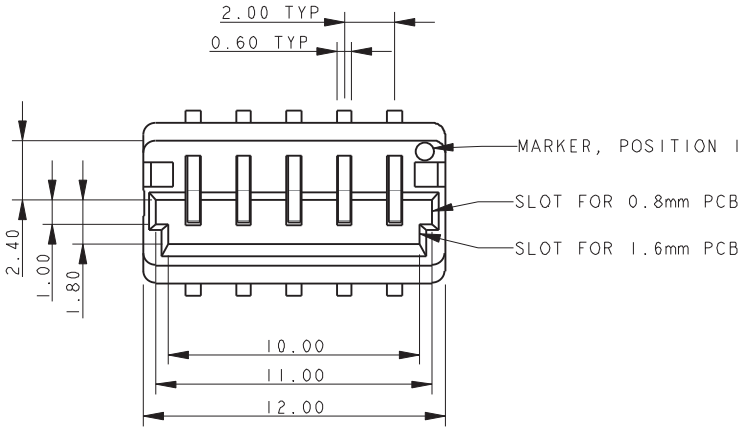
Series 00-9159

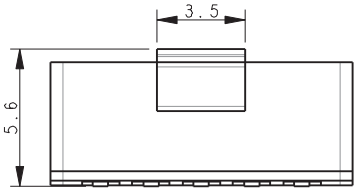
5 WAY TOP MOUNTING EDGE CARD CONNECTOR

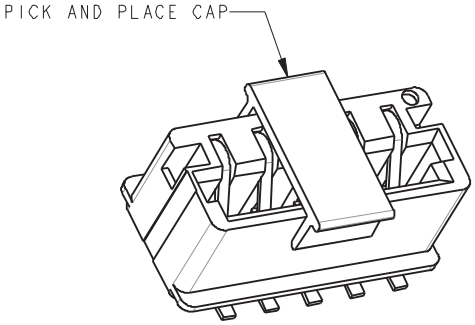




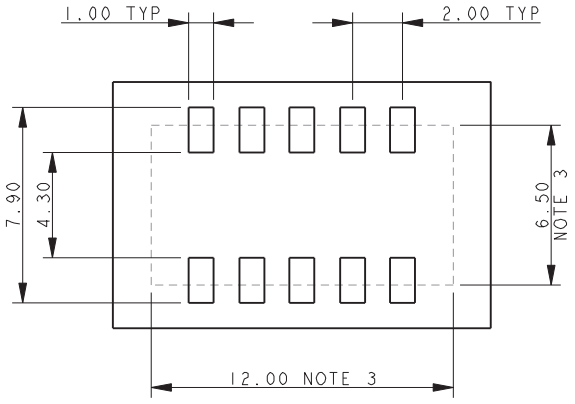
SECTION A-A



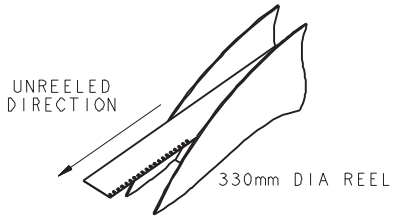


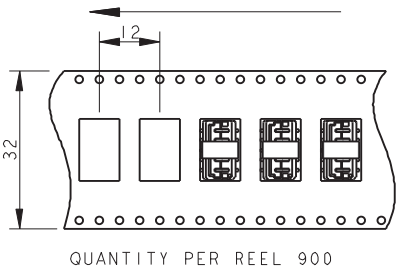


SUGGESTED PCB LAYOUT



PACKING DETAILS





QUANTITY PER REEL 900

NOTES:

1. 5159-500 SERIES TOP MOUNTING EDGE CARD CONNECTOR, 5 WAY. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136 AND APPLICATION NOTES 201-01-137.
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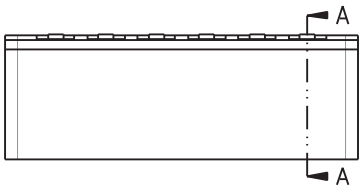
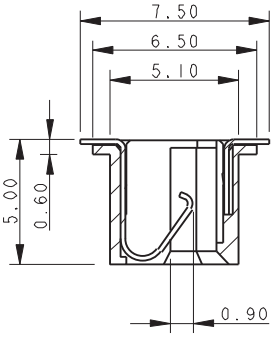
9. CONTACT TAILS COPLINARITY WITHIN 0.10.

One Piece Top Entry Card Edge

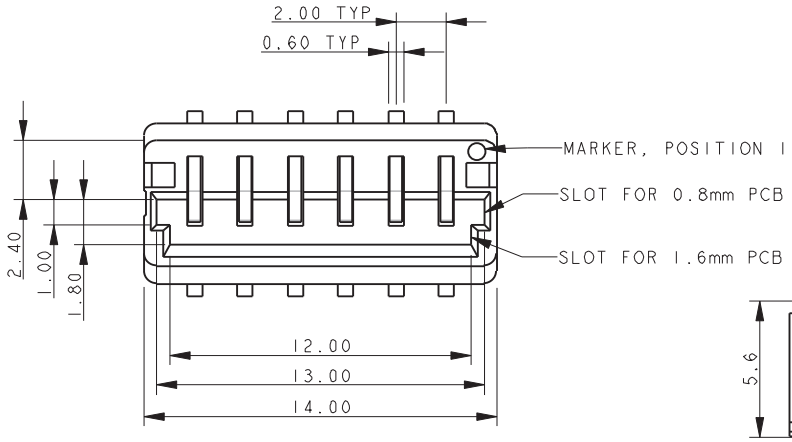
Series 00-9159

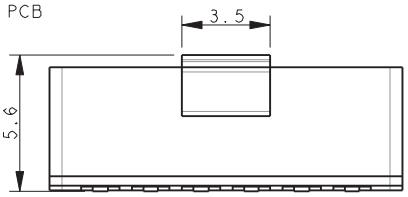
6 WAY TOP MOUNTING EDGE CARD CONNECTOR



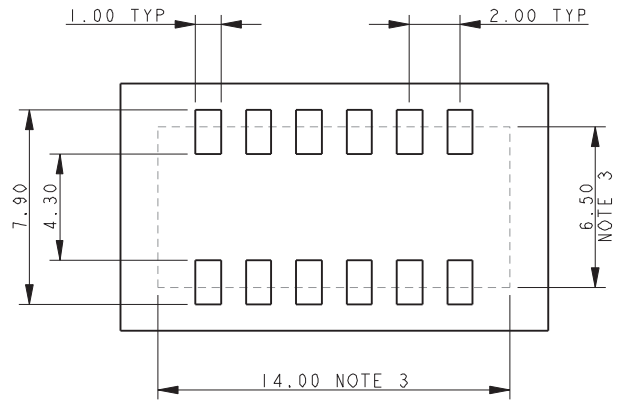


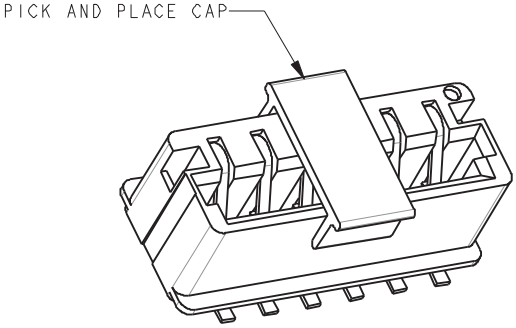
SECTION A-A



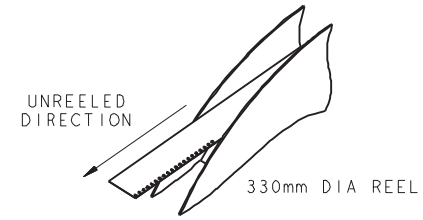


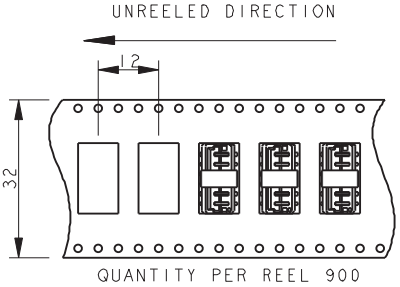
SUGGESTED PCB LAYOUT





PACKING DETAILS





NOTES:

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4. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
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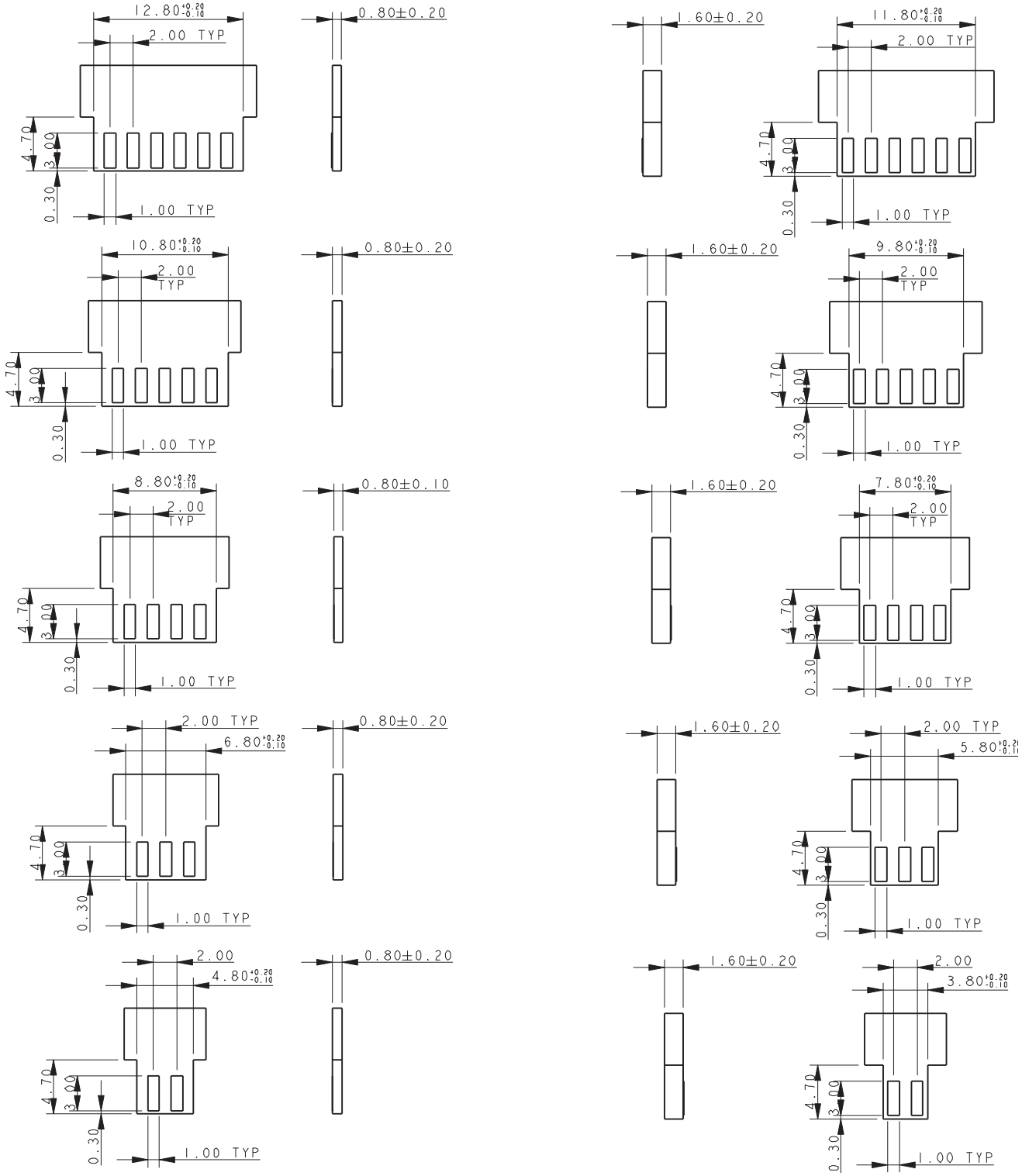
One Piece Top Entry Card Edge

Series 00-9159

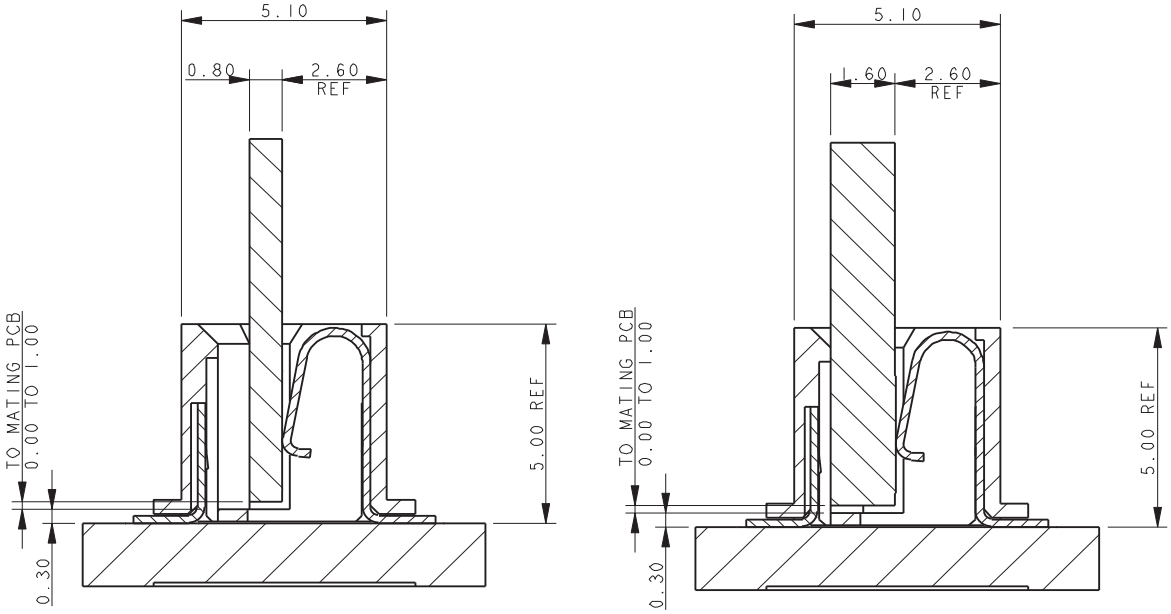
TOP MOUNTING EDGE CARD CONNECTOR – MATING PCB

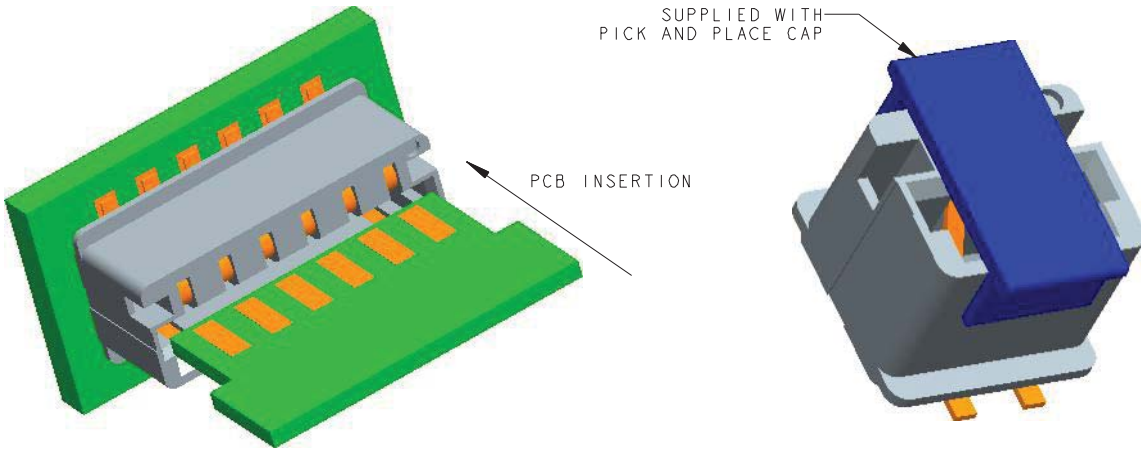


NOTES:

1. CORRECT DIMENSION FOR EITHER 0.80MM OR 1.60MM PCB THICKNESS MUST BE USED.
2. THICKNESS OF PCB INCLUDES ALL LAYERS INCLUDING COPPER AND PLATING.
3. PADS TO BE PLATED GOLD OVER NICKEL UNDERCOAT.
4. GENERAL TOLERANCE ±0.10 UNLESS STATED.

TOP MOUNTING EDGE CARD CONNECTOR ASSEMBLY





NOTES:

1. 9159-500 SERIES TOP MOUNTING EDGE CARD CONNECTOR.
2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK. REFER TO PAGE 6 FOR MATING PCB DETAILS.
3. CONNECTOR SURFACE MOUNTING ON PCB.
4. PAD DETAILS ON THE MATING PCB ALLOW CONTACT TO BE MADE IN ANY POSITION FORM THE STOP FACE UP TO 1MM FROM THE STOP FACE.
5. GENERAL TOLERANCE ±0.20 UNLESS STATED.

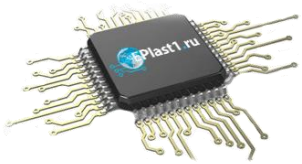
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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