



GENERAL DESCRIPTION

KYOCERA AVX Interconnect continues to develop unique connectors to fill the gap in the market. The newest addition to KYOCERA AVX's broadening line of one piece card edge connectors is the 4p-12p dual row top entry version 9159-650, which is extension of popular single row version 9159-550. This new configuration with staggered dual row contacts will allow doubled number of positions in similar size of the connector. Available in both without and with polarization where the mating PCB layout is modified to form a key, to avoid wrong insertion to the connector.

This small connector is packed with several key features that provide significant functionality in a broad range of applications. The proven contact system is gold plated for enhanced reliability, signal integrity and full 2.5A/contact current rating. The connector is designed for mating PCB board with 1.6mm thickness and gold plated pads.

APPLICATIONS

Provides a one piece connector solution for perpendicular PCB mating in applications:

- Automotive
- Industrial
- Lighting

FEATURES AND BENEFITS

- 2.5 Amps per contact current rating meets robust application requirements
- · Doubled number of positions with dual row solution
- Optional kapton tape version supports pick and place robotic placement and SMT termination
- Available version with polarization where the mating PCB layout is modified to form a key, to avoid error during insertion
- Gold plated BeCu contact system for high reliability in harsh environments

ELECTRICAL

Current Rating	2.5 Amps / Contact				
Voltage Rating	300 VAC				

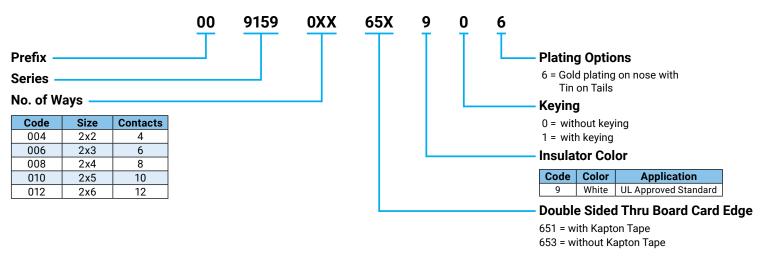
ENVIRONMENTAL

Operating Temperature -40°C to +125°C

MECHANICAL

Insulator Material	High temperature Nylon UL94V-0 rated				
Contact Material	Beryllium Copper				
Durability	10 Cycles				
Plating	Gold / Tin over Nickel				

HOW TO ORDER



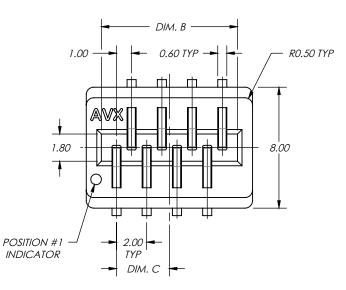
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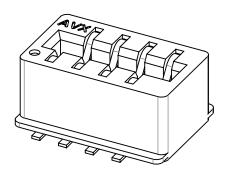


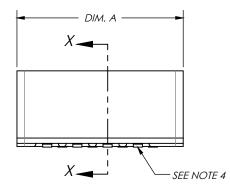
00 9159 0XX 65X 906

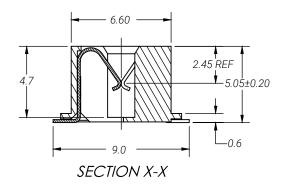
DIMENSIONS

Part Number	Size	Dim. A	Dim. B	Dim. C	Dim. D	Tape Width	Kapton Tape
00-9159-004-651-906	2 x 2	7.0	5.0	1.5	4.8	24	YES
00-9159-004-653-906	2 X Z						NO
00-9159-006-651-906	2 x 3	9.0	7.0	2.5	6.8	24	YES
00-9159-006-653-906							NO
00-9159-008-651-906	2 x 4	11.0	9.0	3.5	8.8	24	YES
00-9159-008-653-906							NO
00-9159-010-651-906	2 x 5	13.0	11.0	4.5	10.8	32	YES
00-9159-010-653-906							NO
00-9159-012-651-906	2 x 6	15.0	13.0	5.5	12.8	32	YES
00-9159-012-653-906							NO



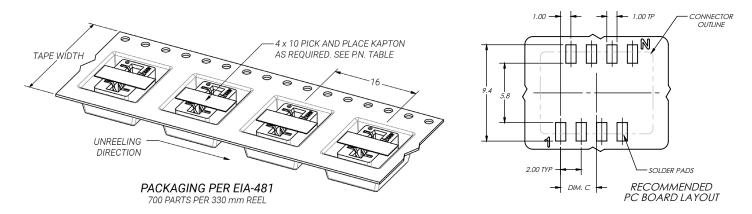


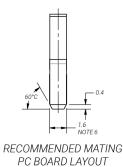




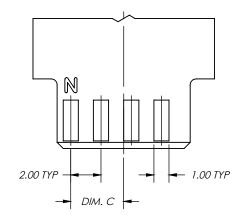
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2X R0.40 MAX GOLD OVER NICKEL PADS BOTH SIDES 4.60 4.10 2.70 2.00 TYP DIM. C DIM. D



NOTES:

- 1. FOR FURTHER DETAILS, REFER TO KYOCERA AVX SPECIFICATION 20-01-226 AND APPLICATION NOTES 201-01-227.
- 2. HOUSING MATERIAL: GLASS-FILLED, HIGH TEMPERATURE NYLON; FLAME RETARDANT PER UL94V-0; COLOR: NATURAL.
- 3. CONTACT MATERIAL: HIGH STRENGTH COPPER ALLOY.
- 4. CONTACT PLATING: NICKEL UNDERPLATE ALL OVER; GOLD FLASH IN CONTACT AREA; LEAD-FREE MATTE TIN ON TAILS.
- 5. CONTACT TAIL CO-PLANARITY TO BE WITHIN 0.10 mm.
- 6. MATING PCB THICKNESS TO INCLUDE COPPER AND PLATING.
- 7. UL APPROVED (US AND CANADA) UL REFERENCE E90723.

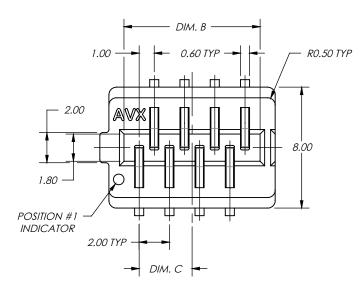
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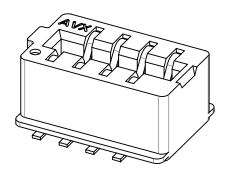


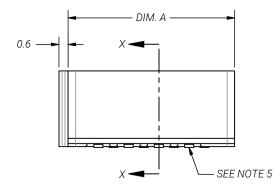
00 9159 0XX 65X 916

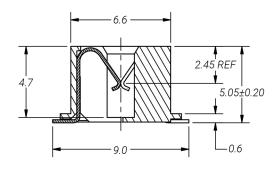
DIMENSIONS

Part Number	Size	Dim. A	Dim. B	Dim. C	Dim. D	Tape Width	Kapton Tape
00-9159-004-651-916	2 x 2	7.0	5.0	1.5	4.8	24	YES
00-9159-004-653-916							NO
00-9159-006-651-916	2 x 3	9.0	7.0	2.5	6.8	24	YES
00-9159-006-653-916							NO
00-9159-008-651-916	2 x 4	11.0	9.0	3.5	8.8	24	YES
00-9159-008-653-916							NO
00-9159-010-651-916	2 x 5	13.0	11.0	4.5	10.8	32	YES
00-9159-010-653-916		13.0					NO
00-9159-012-651-916	2 x 6	15.0	13.0	5.5	12.8	32	YES
00-9159-012-653-916							NO





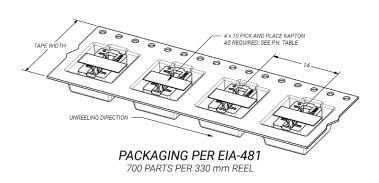


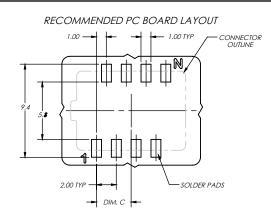


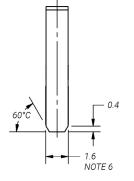
SECTION X-X

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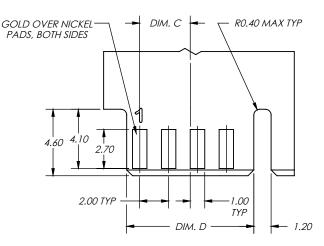


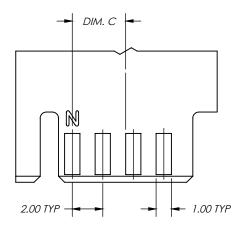






RECOMMENDED MATING PC BOARD LAYOUT





NOTES:

- 1. FOR FURTHER DETAILS, REFER TO KYOCERA AVX SPECIFICATION 201-01-226 AND APPLICATION NOTES 201-01-227.
- 2. HOUSING MATERIAL: GLASS-FILLED, HIGH TEMPERATURE NYLON; FLAME RETARDANT PER UL94V-0; COLOR: NATURAL.
- 3. CONTACT MATERIAL: HIGH STRENGTH COPPER ALLOY.
- 4. CONTACT PLATING: NICKEL UNDERPLATE ALL OVER; GOLD FLASH IN CONTACT AREA; LEAD-FREE MATTE TIN ON TAILS.
- 5. CONTACT TAIL CO-PLANARITY TO BE WITHIN 0.10 mm.
- 6. MATING PCB THICKNESS TO INCLUDE COPPER AND PLATING.
- 7. UL APPROVED (US AND CANADA); UL REFERENCE E90723.

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Dual Row Inverted Thru Board Card Edge 9159-600





GENERAL DESCRIPTION

KYOCERA AVX Interconnect continues to develop unique connectors to fill the gap in the market. The newest addition to KYOCERA AVX's broadening line of one piece card edge connectors is the 4p-12p Dual Row Inverted version 9159-650, which is extension of popular single row version 9159-500. This new configuration with staggered dual row contacts will allow doubled number of positions in similar size of the connector.

This small connector is packed with several key features that provide significant functionality in a broad range of applications. The proven contact system is gold plated for enhanced reliability, signal integrity and full 2.5A/contact current rating. The connector is designed for mating PCB board with 1.6mm thickness and

gold plated pads.

APPLICATIONS

Provides a one piece connector solution for perpendicular PCB mating in applications:

- Automotive
- Industrial
- Lighting

FEATURES AND BENEFITS

- 2.5 Amps per contact current rating meets robust application requirements
- Doubled number of positions with dual row solution
- Gold plated BeCu contact system for high reliability in harsh environments
- · Low profile thru board design does not interfere with Led's etc.

HOW TO ORDER

010

012

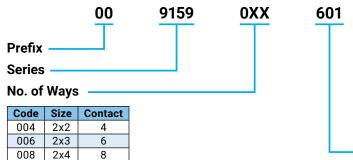
106

2x5

2x6

10

12



ELECTRICAL

Current Rating	2.5 Amps / Contact				
Voltage Rating	300 VAC				

ENVIRONMENTAL

Operating Temperature -40°C to +125°C

MECHANICAL

Insulator Material	High temperature Nylon UL94V-0 rated				
Contact Material	Beryllium Copper				
Durability	10 Cycles				
Plating	Gold / Tin over Nickel				



Dual Row Inverted Thru Board Card Edge

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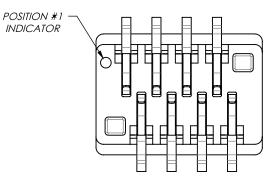
Dual Row Inverted Thru Board Card Edge 9159-600

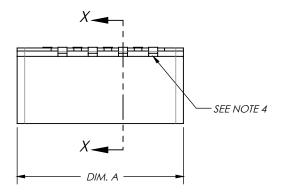


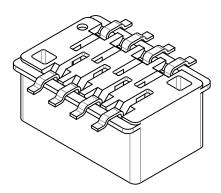
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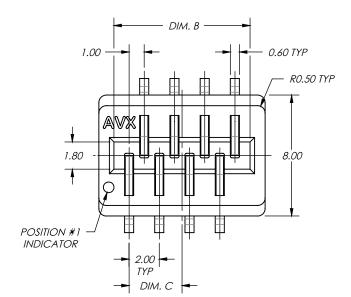
DIMENSIONS

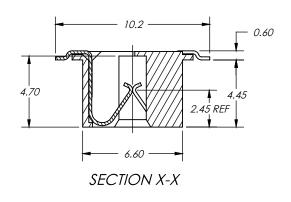
Part Number	Size	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E
00-9159-004-601-906	2 x 2	7.00	5.00	1.50	4.80	7.20
00-9159-006-601-906	2 x 3	9.00	7.00	2.50	6.80	9.20
00-9159-008-601-906	2 x 4	11.00	9.00	3.50	8.80	11.20
00-9159-010-601-906	2 x 5	13.00	11.00	4.50	10.80	13.20
00-9159-012-601-906	2 x 6	15.00	13.00	5.50	12.80	15.20









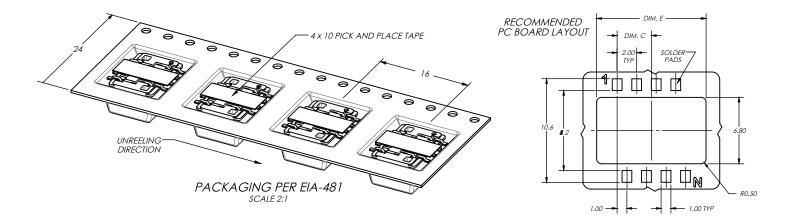


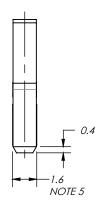
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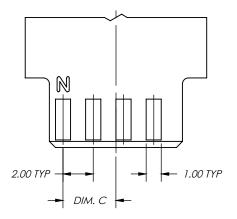


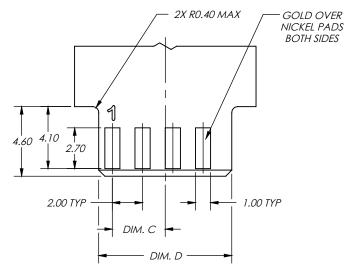
00 9159 0XX 601 906





RECOMMENDED MATING PC BOARD LAYOUT





NOTES:

- 1. HOUSING MATERIAL: GLASS-FILLED, HIGH TEMPERATURE NYLON; FLAME RETARDANT PER UL94V-0; COLOR: NATURAL.
- 2. CONTACT MATERIAL: HIGH STRENGTH COPPER ALLOY.
- 3. CONTACT PLATING: NICKEL UNDERPLATE ALL OVER; GOLD FLASH IN CONTACT AREA; LEAD-FREE MATTE TIN ON TAILS.
- 4. CONTACT TAIL CO-PLANARITY TO BE WITHIN 0.10 mm.
- 5. MATING PCB THICKNESS TO INCLUDED COPPER AND PLATING.
- 6. PACKAGING TO BE IN POCKET TAPE ON REELS PER EIA-481 WITH 700 PARTS PER REEL.

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