9159-650





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			

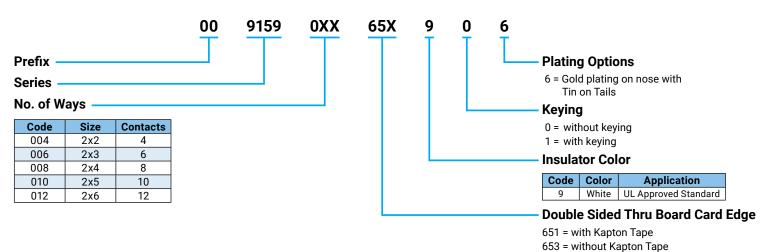
ENVIRONMENTAL

Operating Temperature	-40°C to +125°C
operating reinperature	70 0 10 1 120 0

MECHANICAL

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

HOW TO ORDER



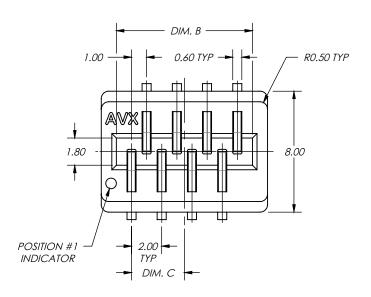


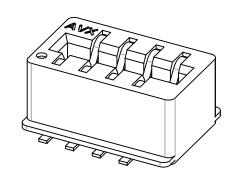


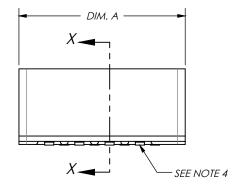
00 9159 0XX 65X 906

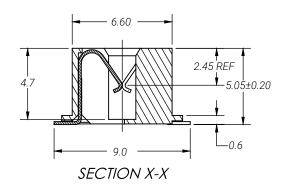
DIMENSIONS

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	Z X Z						NO		
00-9159-006-651-906	2 x 3	0.0	7.0	2.5	6.8	24	YES		
00-9159-006-653-906		9.0					NO		
00-9159-008-651-906	2 x 4	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	٥., ٦	٥ ٦	13.0	11.0	4.5	10.8	32	YES
00-9159-010-653-906		(5 13.0	11.0	4.5	10.6	32	NO		
00-9159-012-651-906	2 x 6	2 x 6 15.0	13.0	5.5	12.8	32	YES		
00-9159-012-653-906	2 X O	13.0	13.0	5.5	12.0	32	NO		



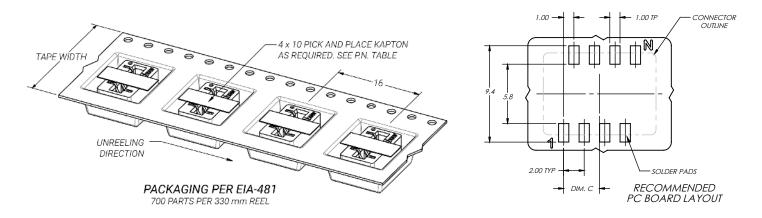


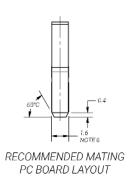


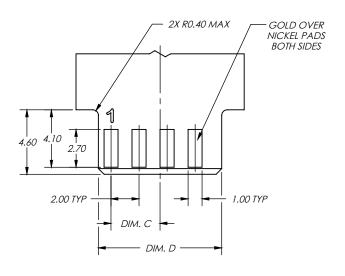


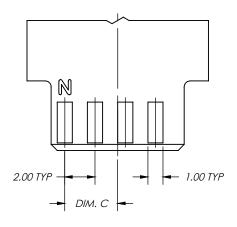
9159-650











NOTES:

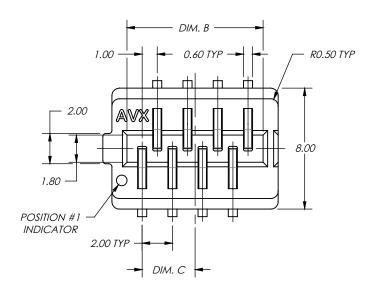
- 1. FOR FURTHER DETAILS, REFER TO KYOCERA AVX SPECIFICATION 20-01-226 AND APPLICATION NOTES 201-01-227.
- 2. HOUSING MATERIAL: GLASS-FILLED, HIGH TEMPERATURE NYLON; FLAME RETARDANT PER UL94V-0; COLOR: NATURAL.
- 3. CONTACT MATERIAL: HIGH STRENGTH COPPER ALLOY.
- 4. CONTACT PLATING: NICKEL UNDERPLATE 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.

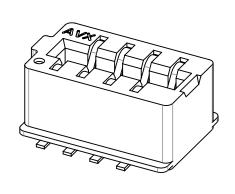


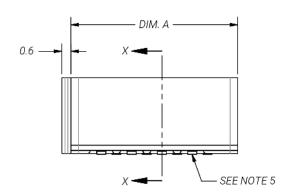
00 9159 0XX 65X 916

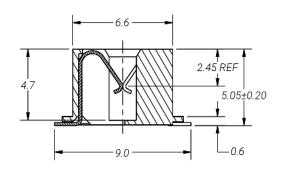
DIMENSIONS

Part Number	Size	Dim. A	Dim. B	Dim. C	Dim. D	Tape Width	Kapton Tape
00-9159-004-651-916	00	7.0	5.0	1.5	4.8	24	YES
00-9159-004-653-916	2 x 2						NO
00-9159-006-651-916	2 x 3	9.0	7.0	2.5	6.8	24	YES
00-9159-006-653-916	2 X 3	9.0	7.0	2.5	0.8	24	NO
00-9159-008-651-916	2 x 4	2 × 4 11 0	1.0 9.0	3.5	8.8	24	YES
00-9159-008-653-916		11.0					NO
00-9159-010-651-916	2 x 5	13.0	11.0	4 E	10.8	20	YES
00-9159-010-653-916	2 X 3	13.0	11.0	4.5	10.8	32	NO
00-9159-012-651-916	2 v 6	15.0	13.0		10.0	8 32	YES
00-9159-012-653-916	2 x 6	13.0	13.0	5.5	12.8		NO





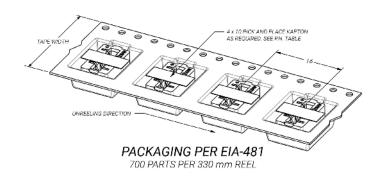


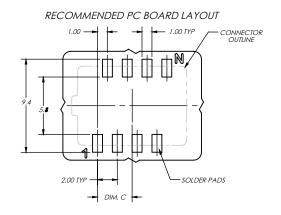


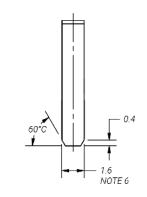
SECTION X-X

9159-650

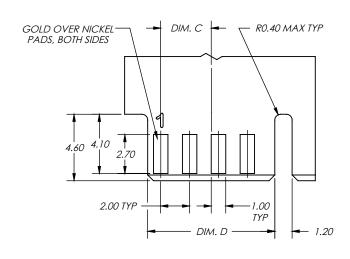


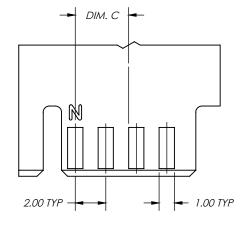






RECOMMENDED MATING PC BOARD LAYOUT





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.

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.

ELECTRICAL

Current Rating	2.5 Amps / Contact
Voltage Rating	300 VAC

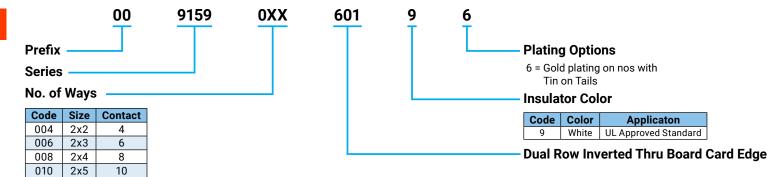
ENVIRONMENTAL

Operating Temperature	-40°C to +125°C
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MECHANICAL

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

HOW TO ORDER



012

2x6

112320

Dual Row Inverted Thru Board Card Edge

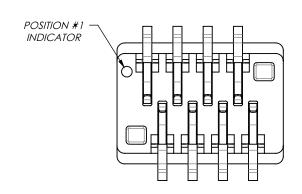
9159-600

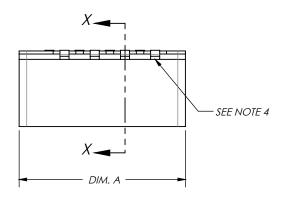


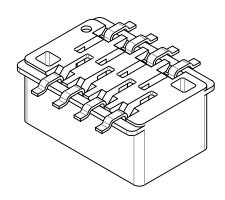
00 9159 0XX 601 906

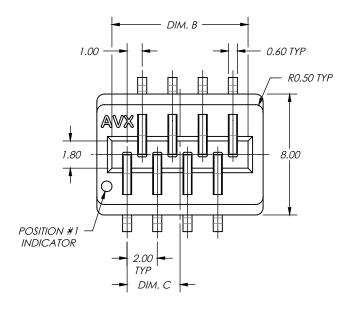
DIMENSIONS

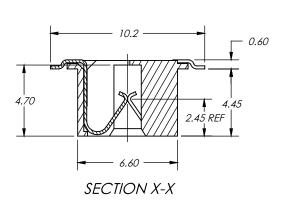
Part Number	Size	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E
00-9159-004-601-906	2 x 2	7.00	5.00	1.50	4.80	7.20
00-9159-006-601-906	2 x 3	9.00	7.00	2.50	6.80	9.20
00-9159-008-601-906	2 x 4	11.00	9.00	3.50	8.80	11.20
00-9159-010-601-906	2 x 5	13.00	11.00	4.50	10.80	13.20
00-9159-012-601-906	2 x 6	15.00	13.00	5.50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





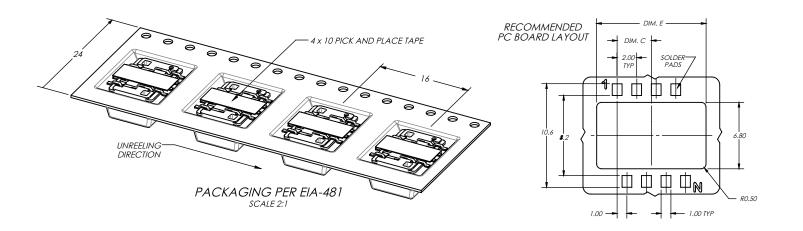


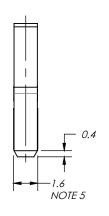




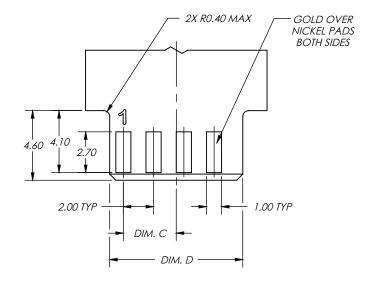


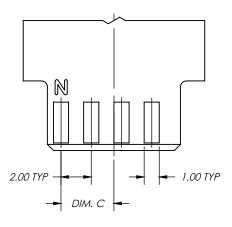
00 9159 0XX 601 906





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.

112020