General Description





KYOCERA AVX developed the 9159 Series of SMT connectors for co-planar PCB mating for the challenging Solid State Lighting (SSL) market. These connectors needed to be small, low in height, carry up to 5 Amps/contact and then function up to 125C for extended periods. This application has been very unique to the SSL market where PCB's are stacked end-to-end to create linear strip lighting in everything from office to transportation applications where products are exposed to harsh mechanical and environmental environments.

This vertical plug connector opens up the spectrum to include all commercial, industrial and transportation applications requiring perpendicular PCB mating and latching Wire-to-Board cabled sockets with an already proven connector system. With sizes from 2p-6p, these gold plated contacts mate with high spring force beryllium copper receptacle connectors.

APPLICATIONS

- · Allows assembly of PCB's at right angles
- Accepts 24-9159 IDC wired/cabled socket
- Reference application notes 201-01-123
- Reference Product Specification 201-01-119

FEATURES AND BENEFITS

- Single sided SMT RoHS solder attachment
- Centrally located pick & place cap for easy placement
- · Gold plated BeCu contact system for high reliability in harsh environments
- · Available in white: supports SSL market preferences

ELECTRICAL

- Current Rating: 5 Amps / Contact
- Voltage Rating: 125 VAC

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

MECHANICAL

- Insulator Material: Nylon: UL94VO
- Contact Material: BeCu / Phos Bronze
- · Plating: Gold / Tin over Nickel
- · Durability: 10 Cycles

HOW TO ORDER

Certification: UL File #E90723

13	9159	00X		
Prefix Plug - Vertical Mount	Series	Number of Ways		
		Code	No of Ways	Details
		002	2	Page 19
		003	3	Page 20
		004	4	Page 21
		005	5	Page 22
		006	6	Page 23

of Ways		2 Part PCB Strip
s Details		Connector
	Page 19	
	Page 20	
	Page 21	

01 1 2 Part Connecto CB Strip Pitch 01 = 3mm

		-		
r	Color/Approval			
	Code	Color	Approval	
1	9	White	UL Approved	

a

Plating Option		
Code	Contact	
	Gold in Contact Area	
16	Tin on Solder Tail	
	Bracket	
	Tin All Over	

16



2 Position

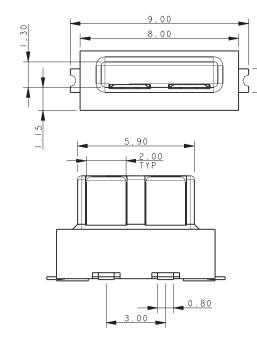


PLUG – VERTICAL MOUNT

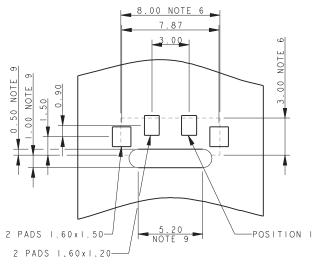
2 WAY 2 PART PCB STRIP CONNECTOR

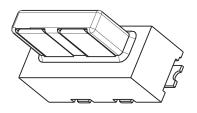
NOTES:

- MARKER IN LINE WITH POSITION I
- 1. FOR FULL PRODUCT SPECIFICATION STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-119, UL COMPONENTS REFER TO ELCO SPEC 201-01-119UL. FOR
- APPLICATION NOTES REFER TO 201-01-123.
- 2. GENERAL TOLERANCE ±0.20 UNLESS TOLERANCED.
- 3. INSULATOR MATERIAL: NYLON 46, UL94 V-0, COLOR REFER TO PAGE 18.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL, TIN PLATE ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 8. PICK AND PLACE CAP TO BE REMOVED AFTER USE.
- 9. OPTIONAL SLOT: ONLY REQUIRED WHEN SOCKET HAS A LATCH, RADIUS ON ENDS OPTIONAL.

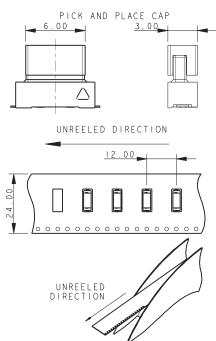








PACKING DETAILS

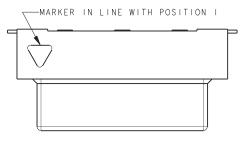


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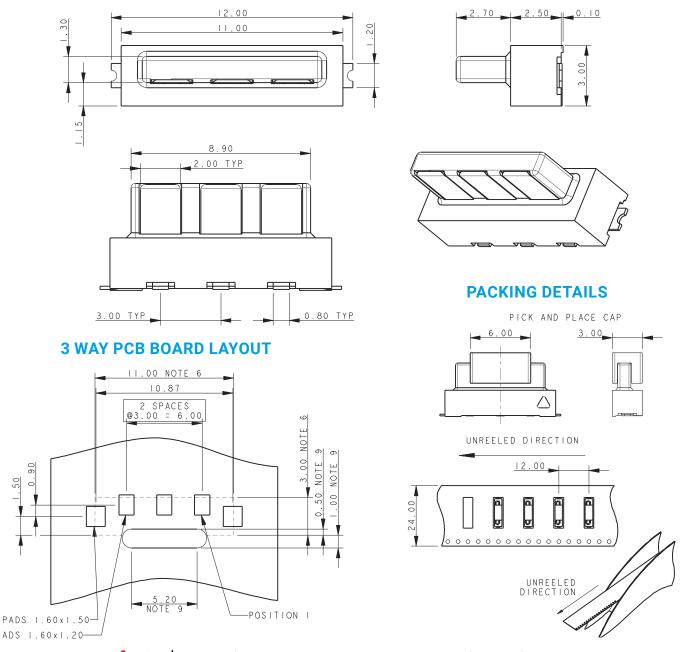
PLUG – VERTICAL MOUNT

3 WAY 2 PART PCB STRIP CONNECTOR



NOTES:

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- 2. GENERAL TOLERANCE ±0.20 UNLESS TOLERANCED.
- 3. INSULATOR MATERIAL: NYLON 46, UL94 V-0, COLOR REFER TO PAGE 18.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL, TIN PLATE ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
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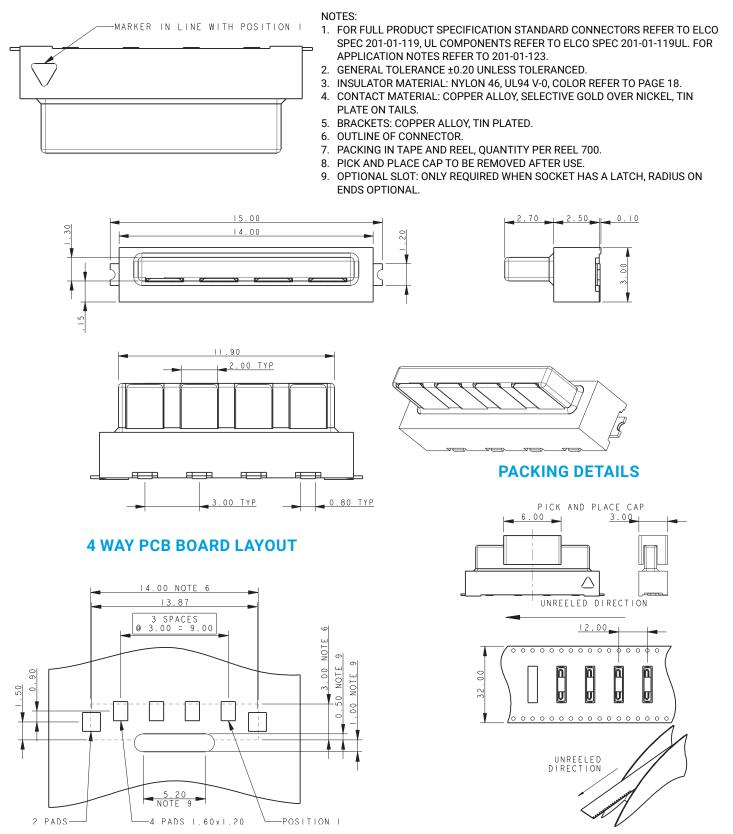
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4 Position



PLUG - VERTICAL MOUNT





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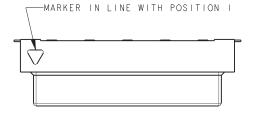
5 Position



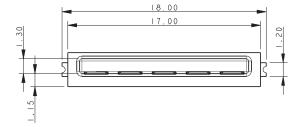
PLUG – VERTICAL MOUNT

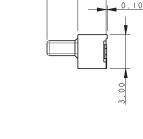
5 WAY 2 PART PCB STRIP CONNECTOR

NOTES:



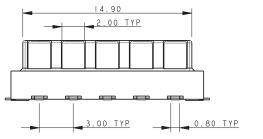
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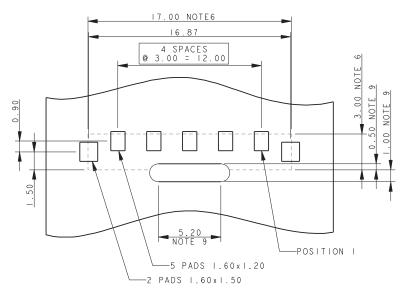


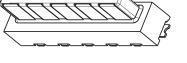
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2.50

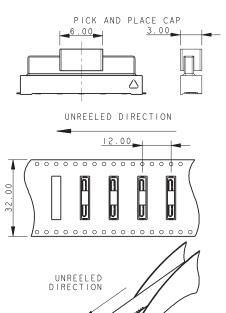


5 WAY PCB BOARD LAYOUT





PACKING DETAILS



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MARKER IN LINE WITH POSITION I

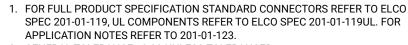
6 Position



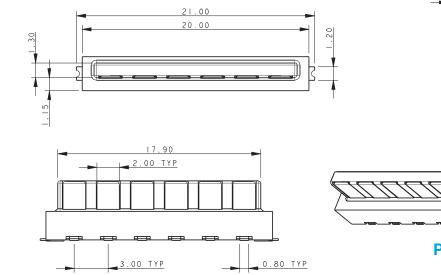
PLUG – VERTICAL MOUNT

6 WAY 2 PART PCB STRIP CONNECTOR

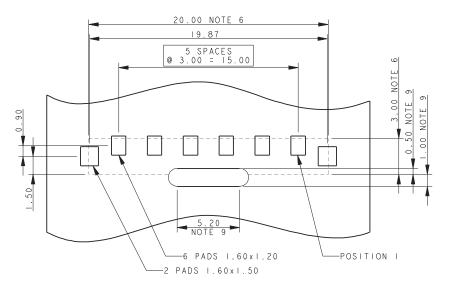


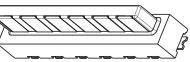


- 2. GENERAL TOLERANCE ±0.20 UNLESS TOLERANCED.
- 3. INSULATOR MATERIAL: NYLON 46, UL94 V-0, COLOR REFER TO PAGE 18.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL, TIN
- PLATE ON TAILS. 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
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6 WAY PCB BOARD LAYOUT



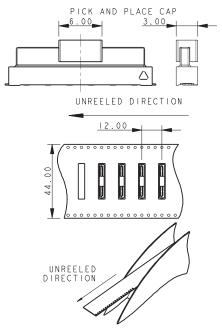


PACKING DETAILS

70

2.50

0.10



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