

Vertical Plug: 13-9159-BTB

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

13
Prefix
Plug -
Vertical
Mount

9159
Series

00X
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

1
2 Part
PCB Strip
Connector

01
Connector
Pitch
01 = 3mm

9
Color/Approval

Code	Color	Approval
9	White	UL Approved

16
Plating Option

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

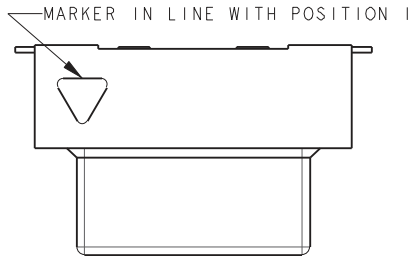
Certification: UL File #E90723



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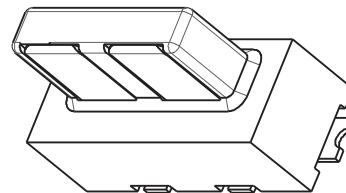
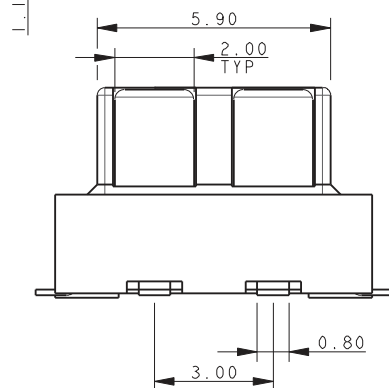
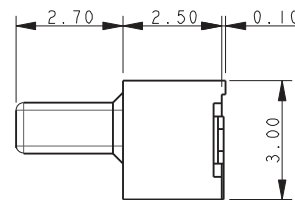
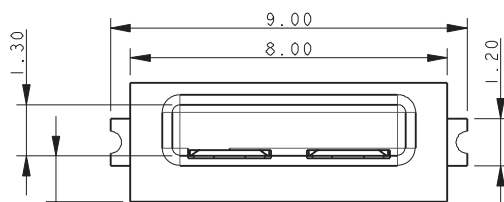
2 Position

PLUG – VERTICAL MOUNT 2 WAY 2 PART PCB STRIP CONNECTOR

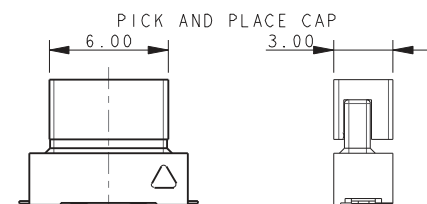


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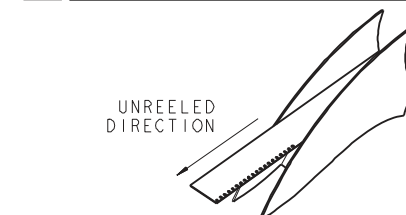
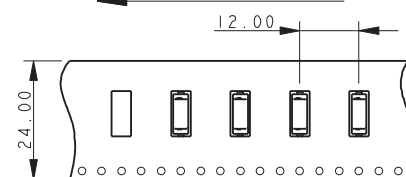
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2. GENERAL TOLERANCE ± 0.20 UNLESS TOLERANCED.
3. INSULATOR MATERIAL: NYLON 46, UL94 V-0, COLOR REFER TO PAGE 18.
4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL, TIN PLATE ON TAILS.
5. BRACKETS: COPPER ALLOY, TIN PLATED.
6. OUTLINE OF CONNECTOR.
7. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
8. PICK AND PLACE CAP TO BE REMOVED AFTER USE.
9. OPTIONAL SLOT: ONLY REQUIRED WHEN SOCKET HAS A LATCH, RADIUS ON ENDS OPTIONAL.



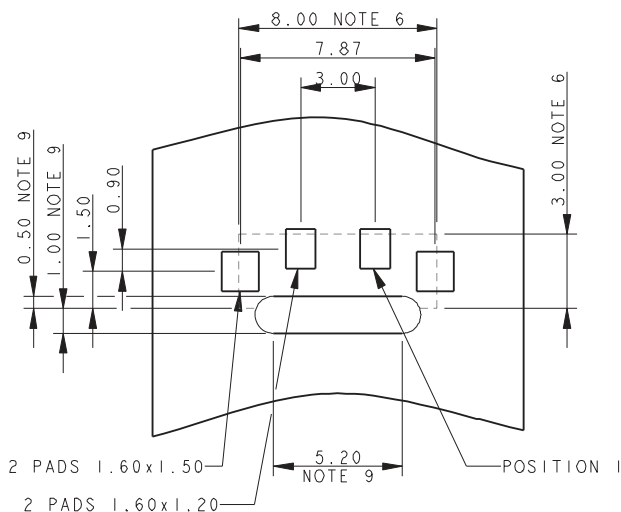
PACKING DETAILS



UNREELED DIRECTION



2 WAY PCB BOARD LAYOUT

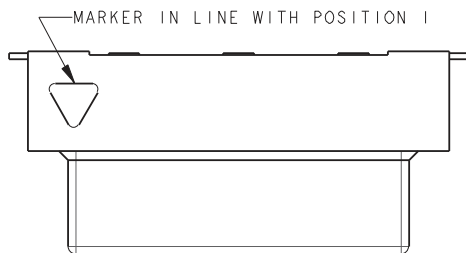


Vertical Plug: 13-9159-BTB

3 Position

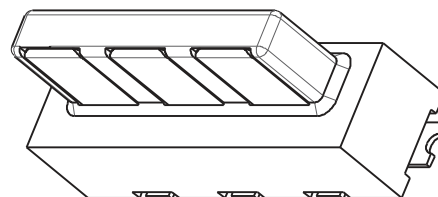
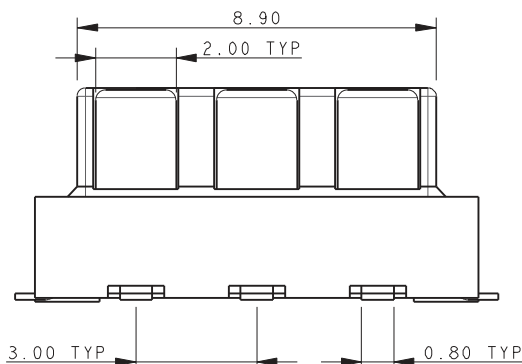
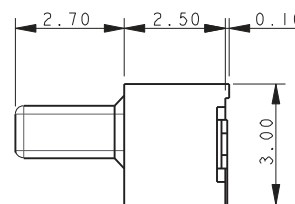
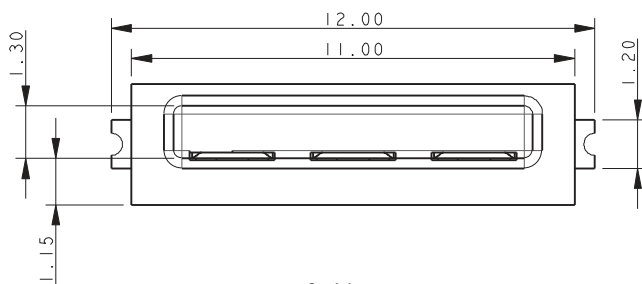


PLUG – VERTICAL MOUNT 3 WAY 2 PART PCB STRIP CONNECTOR

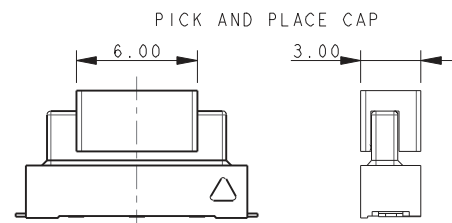


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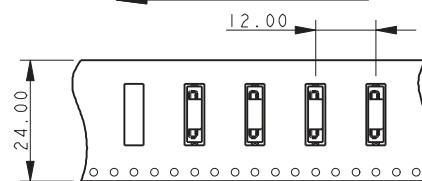
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PACKING DETAILS

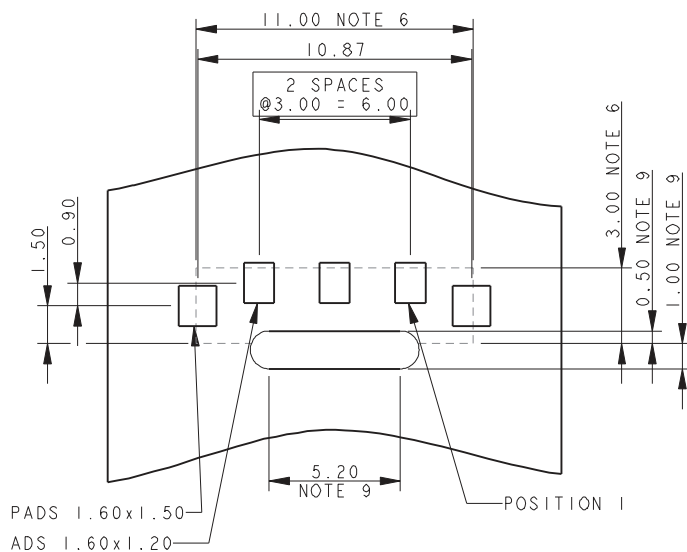


UNREELED DIRECTION



UNREELED DIRECTION

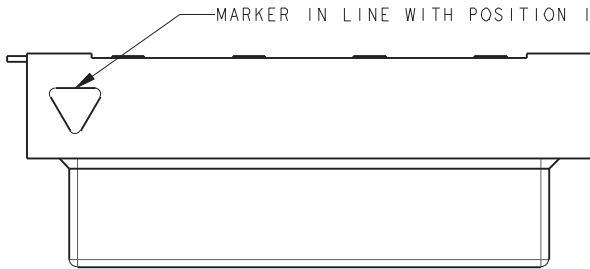
3 WAY PCB BOARD LAYOUT



Vertical Plug: 13-9159-BTB

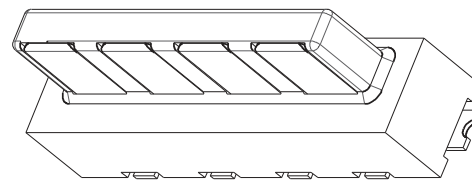
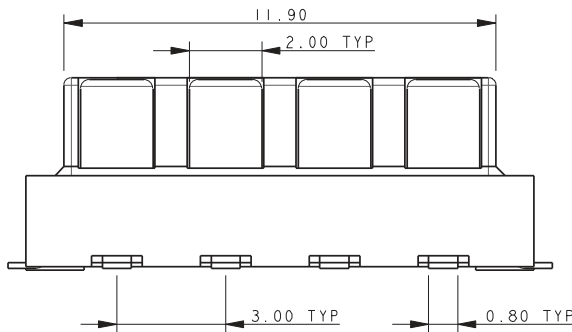
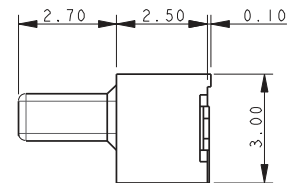
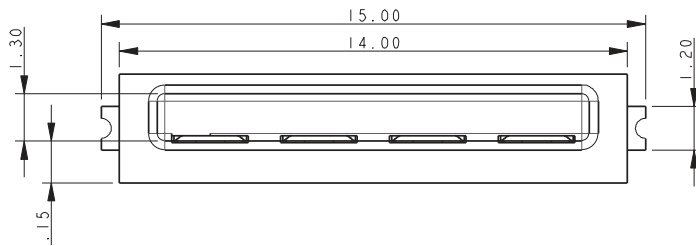
4 Position

PLUG – VERTICAL MOUNT 4 WAY 2 PART PCB STRIP CONNECTOR

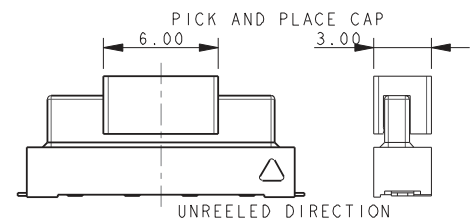


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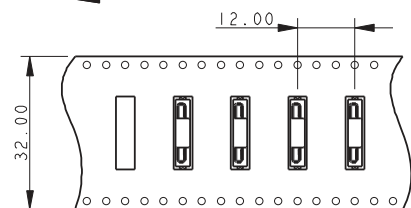
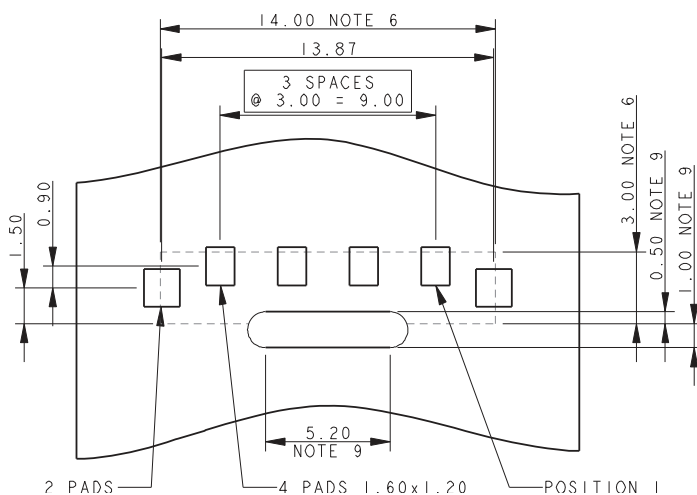
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PACKING DETAILS



4 WAY PCB BOARD LAYOUT



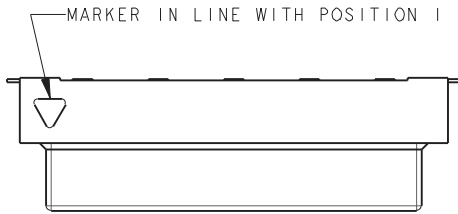
UNREEL DIRECTION

Vertical Plug: 13-9159-BTB

5 Position

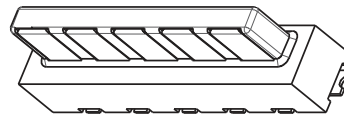
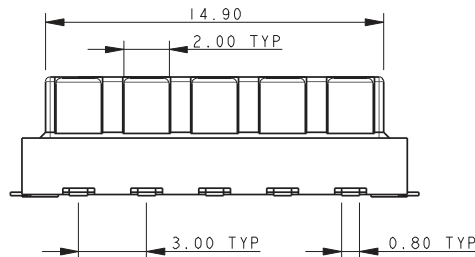
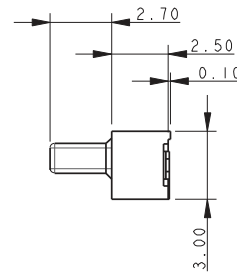
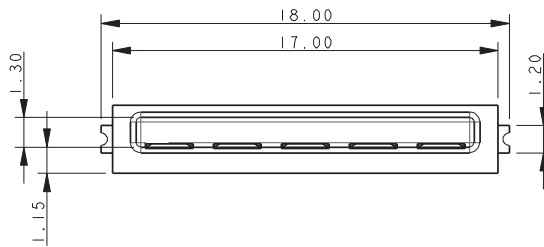


PLUG – VERTICAL MOUNT 5 WAY 2 PART PCB STRIP CONNECTOR

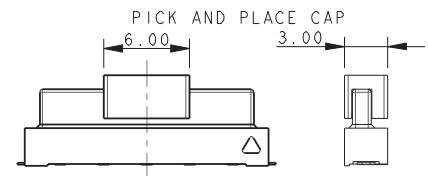


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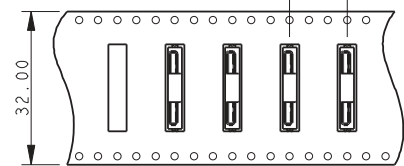
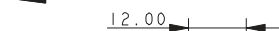
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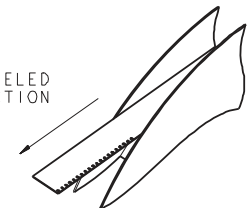
PACKING DETAILS



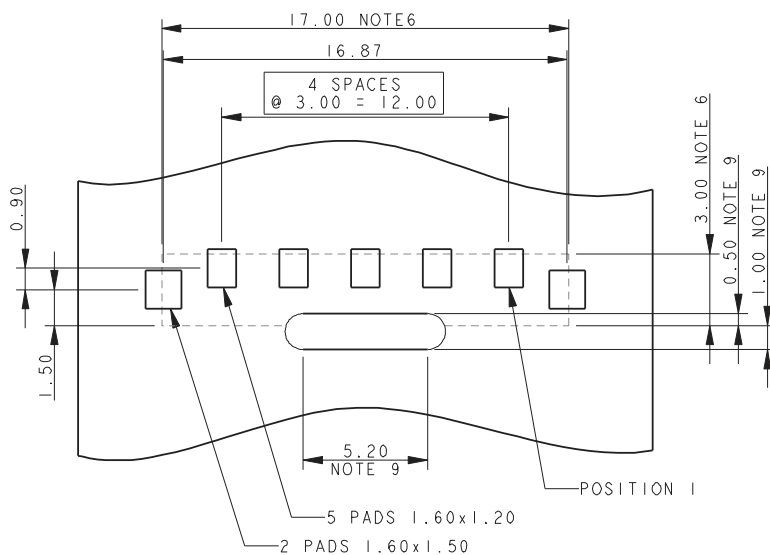
UNREELED DIRECTION



UNREELED DIRECTION



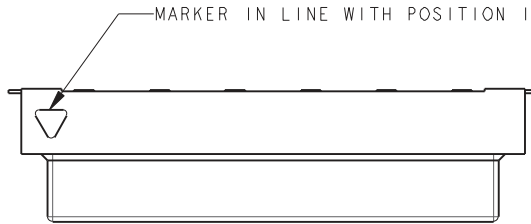
5 WAY PCB BOARD LAYOUT



Vertical Plug: 13-9159 BTB

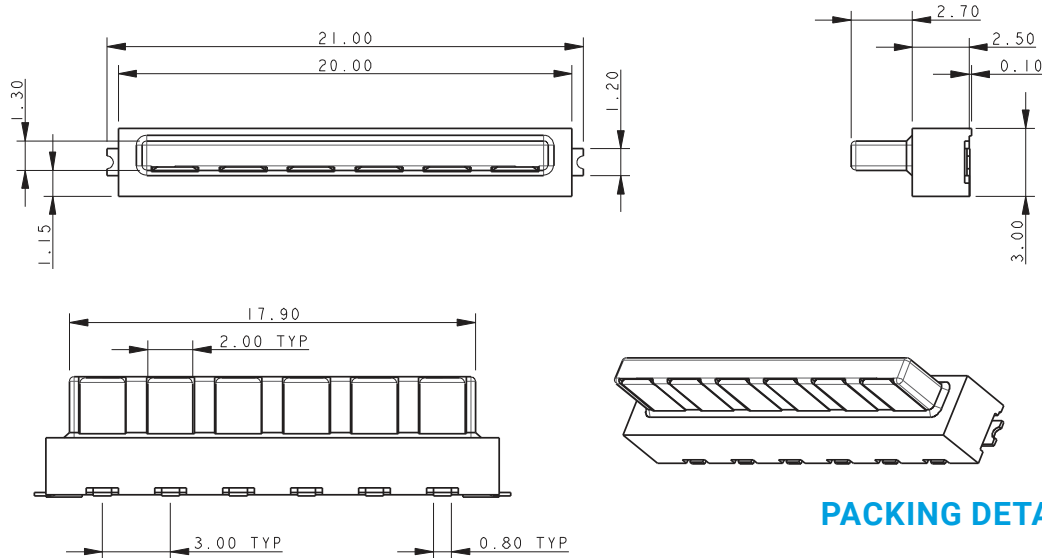
6 Position

PLUG – VERTICAL MOUNT 6 WAY 2 PART PCB STRIP CONNECTOR

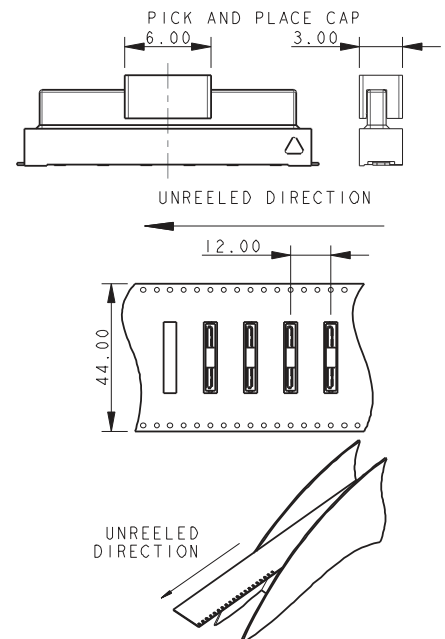


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PACKING DETAILS



6 WAY PCB BOARD LAYOUT

