Vertical Mate 2.0mm Pitch 9155-800





Traditional battery connectors have been used for years in a number of applications: battery packs, removable or pluggable modules and conventional board-to-board to connect both signal level and power circuits. These ultra reliable and robust gold plated beryllium copper contacts provide high integrity connections in hash environments.

The vertical mate 9155-800 series eliminates end user damage when pluggable modules or packs are pressed down vertically into a base unit. Traditional right angle connectors have contact geometries that rely on the pack being inserted at an angle and then rotated down into position. The unique contact design of this connector deflects cleanly and easily when a module or mating connector is pushed vertically into position, eliminating any end user damage.

APPLICATIONS

- Handheld/portable devices requiring docking or cradle charging
- Patient monitoring or portable medical electronics
- Industrial devices requiring pluggable or programming modules
- · Internet appliances requiring battery back-up
- Application notes; refer to 201-01-205

FEATURES AND BENEFITS

- Gold plated BeCu contacts provide high electrical and mechanical performance over 5000 mating cycles
- Unique contact geometry allows for full vertical engagement in pluggable
 module applications
- Plastic locating bosses and SMT anchor tabs maximizes the mechanical stability of the connector in harsh conditions
- Contact nose incorporates an anti-snag feature to protect during deflection

ELECTRICAL

- Current Rating: 2p-4p: 2.0 Amps, 5p-6p: 1.5 Amps
- Voltage Rating; 125 VAC

• Operating Temperature:

- MECHANICAL
- Insulator Material; Glass-Filled Nylon 46; UL94V0
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel, Tin leads
- Durability: 5000 Cycles

HOW TO ORDER



Series	No. of Ways

Code	No of Ways	Packing QTY
002	2	1000
003	3	1000
004	4	1000
005	5	1000
006	6	1000

00X

8XX

-40°C to +125°C

Standard Battery Connector

852 = Battery Connector Right Angle Connector Height: 5.00mm Boss: Yes



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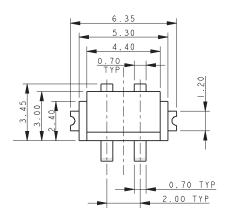
Plating Option 6 = 0.4µm Selective Gold, Pure Tin Tail 8 = 0.8µm Selective Gold, Pure Tin Tail

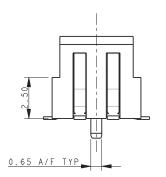
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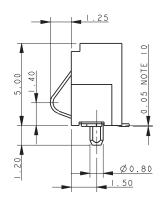
Vertical Mate 2.0mm Pitch 9155-800

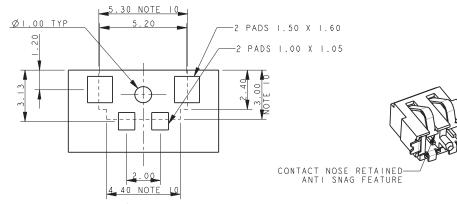
2 WAY BATTERY CONNECTOR – RIGHT ANGLE 2MM PITCH - WITH BOSS





OPERATING NOSE HEIGHT SEE ALSO SHEET 14 DEFLECTED CONTACT





SUGGESTED PCB LAYOUT

NOTES:

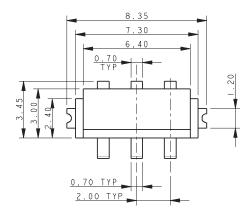
- 1. GENERAL TOLERANCE ±0.20 UNLESS STATED.
- 2. FOR FULL PRODUCT DETAILS REFER TO SPECIFICATION 201-01-2014.
- FOR APPLICATION DATA REFER TO SPECIFICATION 201-01-205.
- 3. FOR MATING PAD DETAILS REFER TO PAGE 44.
- 4. FOR PACKING DETAILS REFER TO PAGE 43
- 5. INSULATION MATERIAL: GLASS FILLED NYLON 46, UL94 V-O, COLOR BLACK.
- 6. CONTACT MATERIAL: BERYLLIUM COPPER.
- 7. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL, PURE TIN ON TAILS.
- 8. BRACKET MATERIAL: TIN PLATED PHOSPHOR BRONZE.
- 9. CONNECTOR OUTLINE.
- 10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

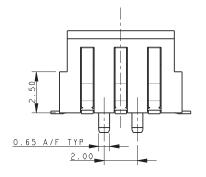
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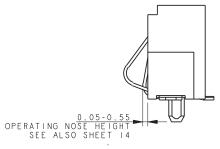


Vertical Mate 2.0mm Pitch 9155-800

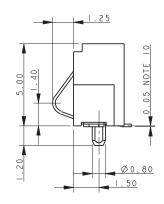
3 WAY BATTERY CONNECTOR – RIGHT ANGLE 2MM PITCH - WITH BOSS

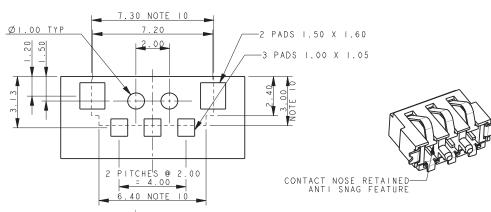






DEFLECTED CONTACT





SUGGESTED PCB LAYOUT

NOTES:

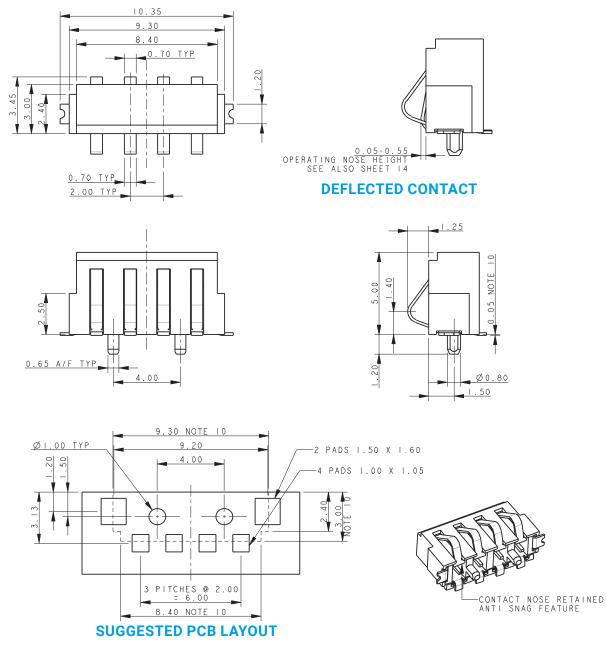
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- 9. CONNECTOR OUTLINE.
- 10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

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Vertical Mate 2.0mm Pitch 9155-800

4 WAY BATTERY CONNECTOR – RIGHT ANGLE 2MM PITCH - WITH BOSS



NOTES:

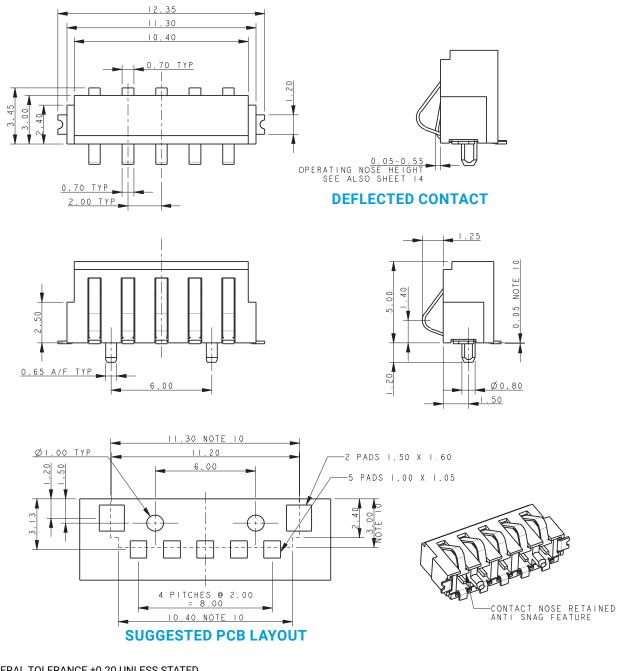
- 1. GENERAL TOLERANCE ±0.20 UNLESS STATED.
- 2. FOR FULL PRODUCT DETAILS REFER TO SPECIFICATION 201-01-2014.
- FOR APPLICATION DATA REFER TO SPECIFICATION 201-01-205.
- 3. FOR MATING PAD DETAILS REFER TO PAGE 44.
- 4. FOR PACKING DETAILS REFER TO PAGE 43
- 5. INSULATION MATERIAL: GLASS FILLED NYLON 46, UL94 V-O, COLOR BLACK.
- 6. CONTACT MATERIAL: BERYLLIUM COPPER.
- 7. CONTACT PLATING: SELECTIVE GOLD OVER NICKEL, PURE TIN ON TAILS.
- 8. BRACKET MATERIAL: TIN PLATED PHOSPHOR BRONZE.
- 9. CONNECTOR OUTLINE.
- 10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

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Vertical Mate 2.0mm Pitch 9155-800

5 WAY BATTERY CONNECTOR - RIGHT ANGLE 2MM PITCH - WITH BOSS



NOTES:

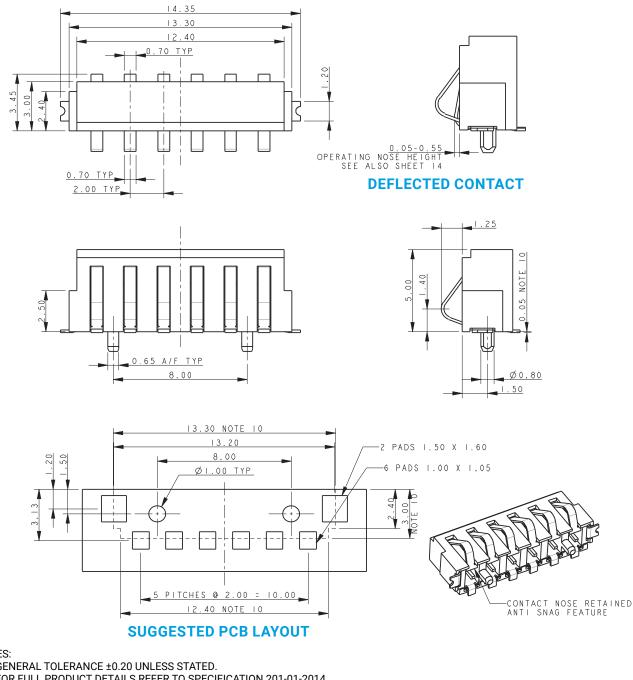
- 1. GENERAL TOLERANCE ±0.20 UNLESS STATED.
- FOR FULL PRODUCT DETAILS REFER TO SPECIFICATION 201-01-2014. 2.
- FOR APPLICATION DATA REFER TO SPECIFICATION 201-01-205.
- 3. FOR MATING PAD DETAILS REFER TO PAGE 44.
- FOR PACKING DETAILS REFER TO PAGE 43 4
- INSULATION MATERIAL: GLASS FILLED NYLON 46, UL94 V-O, COLOR BLACK. 5.
- CONTACT MATERIAL: BERYLLIUM COPPER. 6.
- CONTACT PLATING: SELECTIVE GOLD OVER NICKEL, PURE TIN ON TAILS. 7.
- BRACKET MATERIAL: TIN PLATED PHOSPHOR BRONZE. 8.
- CONNECTOR OUTLINE. 9
- 10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

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Vertical Mate 2.0mm Pitch 9155-800

6 WAY BATTERY CONNECTOR - RIGHT ANGLE 2MM PITCH - WITH BOSS



NOTES:

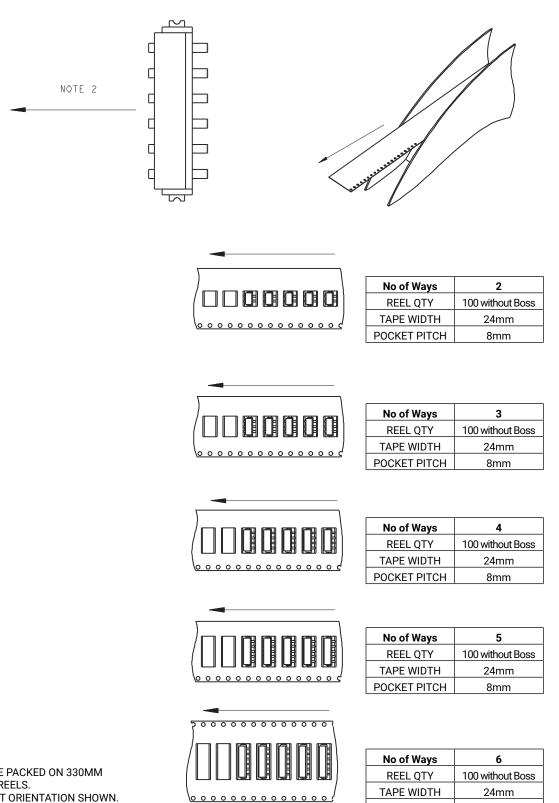
- 1. GENERAL TOLERANCE ±0.20 UNLESS STATED.
- 2. FOR FULL PRODUCT DETAILS REFER TO SPECIFICATION 201-01-2014.
- FOR APPLICATION DATA REFER TO SPECIFICATION 201-01-205.
- 3. FOR MATING PAD DETAILS REFER TO PAGE 44.
- FOR PACKING DETAILS REFER TO PAGE 43 4
- 5. INSULATION MATERIAL: GLASS FILLED NYLON 46, UL94 V-O, COLOR BLACK.
- CONTACT MATERIAL: BERYLLIUM COPPER. 6.
- 7 CONTACT PLATING: SELECTIVE GOLD OVER NICKEL, PURE TIN ON TAILS.
- BRACKET MATERIAL: TIN PLATED PHOSPHOR BRONZE. 8.
- CONNECTOR OUTLINE. 9
- 10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

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Vertical Mate 2.0mm Pitch 9155-800

PACKING DETAILS



NOTES:

- PARTS TO BE PACKED ON 330MM 1. DIAMETER REELS.
- 2. COMPONENT ORIENTATION SHOWN.

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POCKET PITCH

8mm

Vertical Mate 2.0mm Pitch 9155-800

2MM PITCH RIGHT ANGLE – MATING PADS

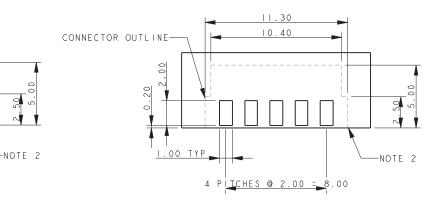
2 WAY - MATING PADS 5.30 4.40 CONNECTOR OUTLINE-00 C 20 20 5 0 \sim 1.00 TYP -NOTE 2 2.00

4 WAY - MATING PADS 9.30

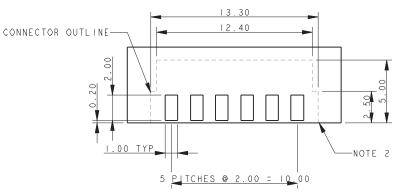
3 PITCHES @ 2.00 = 6.00

8 40

5 WAY - MATING PADS



6 WAY – MATING PADS



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NOTES:

CONNECTOR OUTLINE

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T. .00 TYP

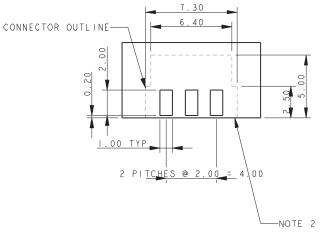
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- SUGGESTED MATING PADS FOR RIGHT ANGLE BATTERY CONNECTOR. 1.
- TOP SURFACE OF SMT PCB/BASE OF CONNECTOR. 2.
- 3. PREFERED PLATING ON PADS. GOLD OVER NICKEL.

46

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3 WAY - MATING PADS



Vertical Mate 2.0mm Pitch 9155-800



2MM PITCH RIGHT ANGLE CONNECTOR

