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 harsh 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

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

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

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Series</th>
<th>No of Ways</th>
<th>Code</th>
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<td>00X</td>
<td>8XX</td>
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Standard Battery Connector
852 = Battery Connector
Right Angle
Connector Height: 5.00mm
Boss: Yes

Plating Option
6 = 0.4μm Selective Gold, Pure Tin Tail
8 = 0.8μm Selective Gold, Pure Tin Tail
Vertical Mate Connector
2.0mm Pitch
9155-800

2 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.

SUGGESTED PCB LAYOUT

Downloaded from Arrow.com.
Vertical Mate Connector
2.0mm Pitch
9155-800

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

NOTES:
1. GENERAL TOLERANCE ±0.20 UNLESS STATED.
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9. BRACKET MATERIAL: TIN PLATED PHOSPHOR BRONZE.
10. CONNECTOR OUTLINE.
11. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.

SUGGESTED PCB LAYOUT

Downloaded from Arrow.com.
Vertical Mate Connector
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.
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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.
5 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.
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9. CONNECTOR OUTLINE.
10. COPLANARITY ON ALL CONTACT TAILS AND PADS 0.12MM MAXIMUM.
**Vertical Mate Connector**

2.0mm Pitch

9155-800

6 WAY BATTERY CONNECTOR – RIGHT ANGLE

2MM PITCH - WITH BOSS

NOTES:

1. GENERAL TOLERANCE ±0.20 UNLESS STATED.
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   FOR APPLICATION DATA REFER TO SPECIFICATION 201-01-205.
3. FOR MATING PAD DETAILS REFER TO PAGE 44.
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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.
Vertical Mate Connector
2.0mm Pitch
9155-800

PACKING DETAILS

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

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<td>POCKET PITCH</td>
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</table>
Vertical Mate Connector
2.0mm Pitch
9155-800

2MM PITCH RIGHT ANGLE – MATING PADS

2 WAY – MATING PADS

3 WAY – MATING PADS

4 WAY – MATING PADS

5 WAY – MATING PADS

6 WAY – MATING PADS

NOTES:
1. SUGGESTED MATING PADS FOR RIGHT ANGLE BATTERY CONNECTOR.
2. TOP SURFACE OF SMT PCB/BASE OF CONNECTOR.
3. PREFERED PLATING ON PADS, GOLD OVER NICKEL.
Vertical Mate Connector
2.0mm Pitch
9155-800

2MM PITCH RIGHT ANGLE CONNECTOR

BOARD TO BOARD/COMPONENT
(REFER TO APPLICATION NOTES 201-01-205)

CONNECTOR TO CONNECTOR
(REFER TO APPLICATION NOTES 201-01-205)