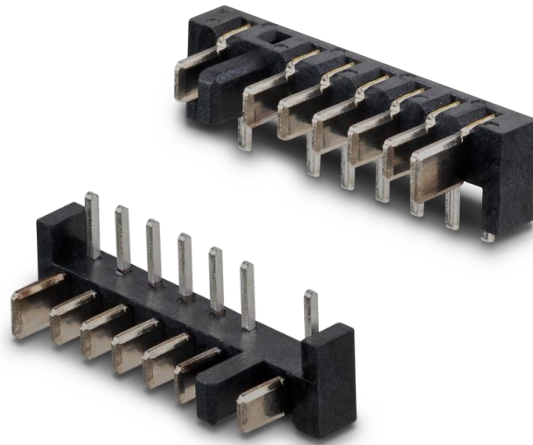


### RRC-MC21-90-10

#### Battery Mating Connector

P/N: 211268



#### Features:

- Mating connector for standard battery form factors RRC21xx
- 7.00A max. charge or discharge current to battery
- 7-pin male connector
- 2.5mm pitch
- RoHS and REACH compliant

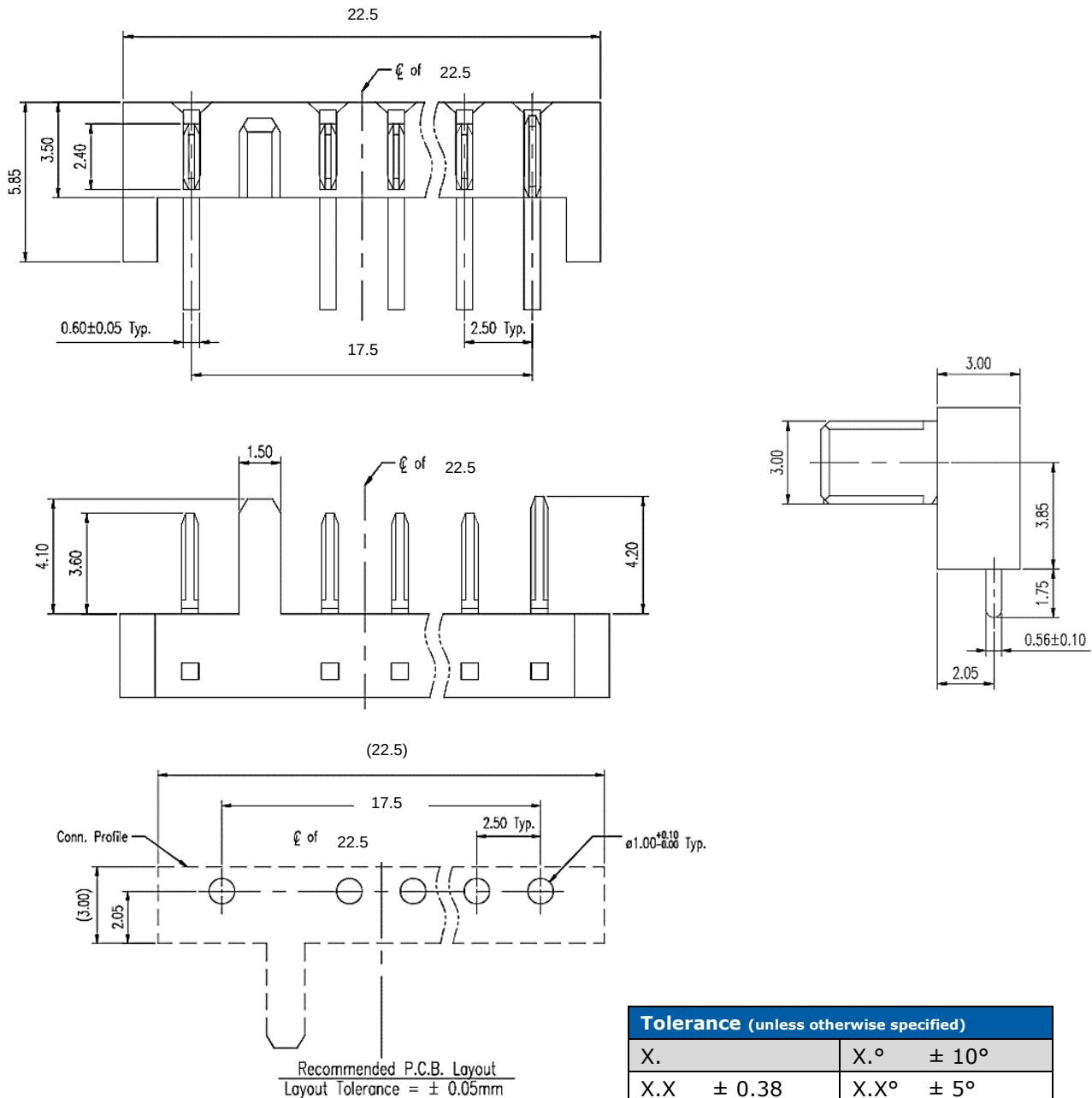
#### Applications:

Mating connector for RRC's smart batteries used in medical, industrial and consumer applications

## Specification

| Ratings                 |                                                                |
|-------------------------|----------------------------------------------------------------|
| Current                 | 7.00A max. / pin                                               |
| Voltage                 | 30.00VDC                                                       |
| Materials               |                                                                |
| Housing                 | Thermoplastic High Temperature, UL 94 V-0, black               |
| Contacts                | Copper Alloy                                                   |
| Plating                 | 50µin Nickel on contact area, 100µin Matte-Tin on solder tails |
| Environmental Condition |                                                                |
| Operating Temperature   | -40°C to +105°C                                                |
| Electrical Requirements |                                                                |
| Contact Resistance      | 40mOhm max.                                                    |
| Insulation Resistance   | 100mOhm min. at 500VDC / 1min                                  |
| Dielectric withstand    | 500.00VAC / 1min                                               |
| Mechanical Requirements |                                                                |
| Dimensions (LxWxH)      | 22.50mm x 7.20mm x 5.85mm                                      |
| Weight                  | Typical 1g                                                     |
| PCB mounting            | 90°                                                            |
| Contact Retention Force | 300g min. / pin                                                |
| Physical Requirements   |                                                                |
| Solder Temperature      | 260°C ± 5°C                                                    |
| Immersion Period        | 5sec (EIA-364-56C)                                             |
| Regulatory Approvals    |                                                                |
| Green Procurement       | RoHS<br>REACH                                                  |
| Packaging               |                                                                |
| 27 connectors per tube  |                                                                |
| 168 tubes per carton    |                                                                |

## Drawings



All dimensions in mm.

| Tolerance (unless otherwise specified) |            |
|----------------------------------------|------------|
| X.                                     | X.° ± 10°  |
| X.X ± 0.38                             | X.X° ± 5°  |
| X.XX ± 0.25                            | X.XX° ± 2° |
| X.XXX ± 0.13                           | X.XXX°     |

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