

# Technical Data Sheet

## Battery Mating Connectors RRC-MC11-Serie



### Battery Mating Connectors

#### Features:

- Mating connectors for RRC batteries RRC1120, RRC1130
- 2A max. charge or discharge current to battery
- 4-pin male spring pin connector
- 2.5mm pitch
- RoHS compatible

#### Applications:

- Mating connectors for RRC's semi smart batteries used in medical and industrial applications

### Specification

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| <b>Ratings</b>                 |                                                 |
| Current                        | 2A max. / pin                                   |
| Voltage                        | 12V DC                                          |
| <b>Materials</b>               |                                                 |
| Housing                        | Thermoplastic High Temperature, UL 94V-0, black |
| Contacts                       | Copper Alloy                                    |
| Plating                        | G/F on contact area<br>G/F on solder tails      |
| <b>Environmental Condition</b> |                                                 |
| Operating Temperature          | -40°C to +105°C                                 |

|                                 |                             |
|---------------------------------|-----------------------------|
| <b>Electrical Requirements</b>  |                             |
| Contact Resistance              | 40mOhm max.                 |
| Insulation Resistance           | 100MOhm min. at 500VDC/2min |
| Dielectric withstanding voltage | No breakdown @ 500V RMS     |
| <b>Mechanical Requirements</b>  |                             |
| Contact Retention Force         | 300gf min. / pin            |
| <b>Physical Requirements</b>    |                             |
| Solder Temperature              | 245°C ± 5°C                 |
| Immersion Period                | 5 ± 0.5sec                  |
| <b>Regulatory Approvals</b>     |                             |
| RoHS                            |                             |

|                                |                        |
|--------------------------------|------------------------|
| <b>RRC-MC11-90-2</b>           |                        |
| RRC part number                | 210520                 |
| PCB mounting                   | SMT 90°                |
| <b>Mechanical Requirements</b> |                        |
| Dimensions (LxWxH)             | 10.5mm x 5.5mm x 6.5mm |
| Weight                         | <1g                    |
| <b>Packaging</b>               |                        |
| 44pcs connectors per tube      |                        |
| 144pcs tubes per carton        |                        |



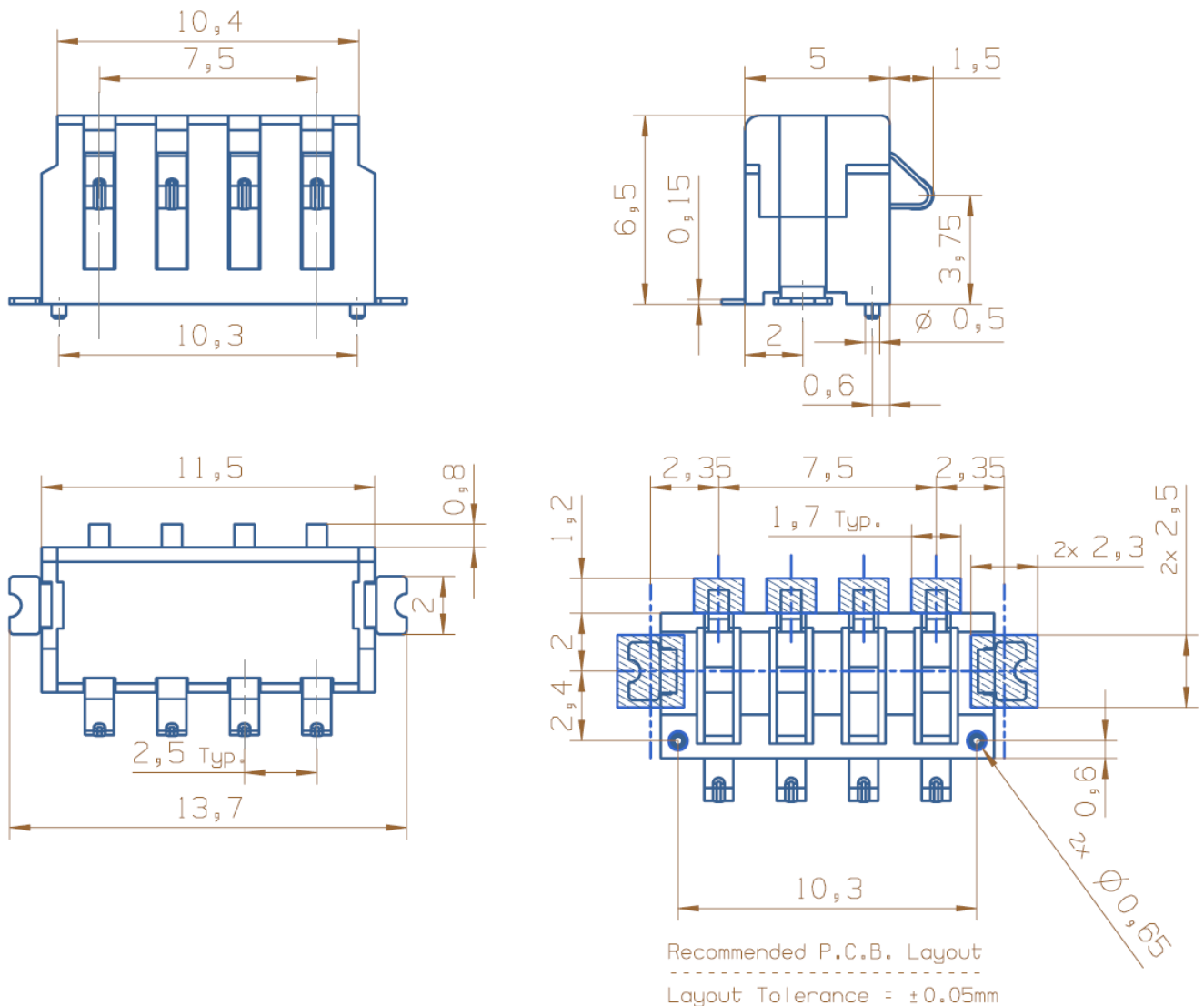
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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### RRC-MC11-90-2



To facilitate a fast design-in process for developers, RRC is providing 3D data of the mating connectors and the battery housings of RRC smart batteries. Please contact your RRC representative. For further information on the RRC smart batteries please refer to the RRC website ([www.rrc-ps.com](http://www.rrc-ps.com)).

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