

RRC-MC20-180-10

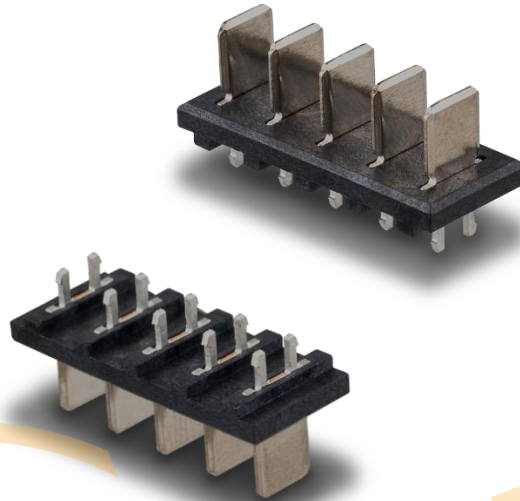
Battery Mating Connector

P/N: 210518

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Features:

- Mating connector for standard battery form factors RRC20xx
- 10.00A max. charge or discharge current to battery
- 5-pin male connector
- 5mm pitch
- RoHS and REACH compliant

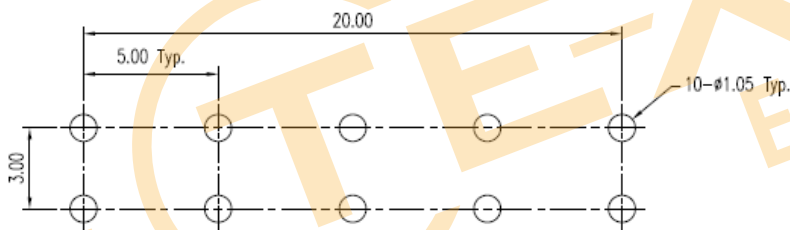
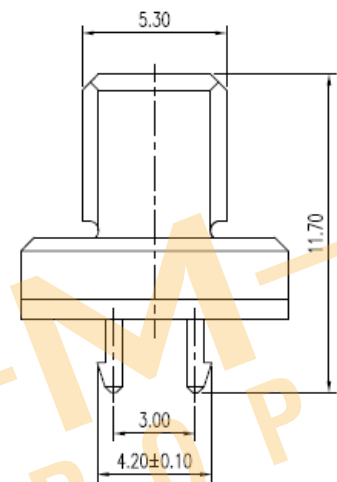
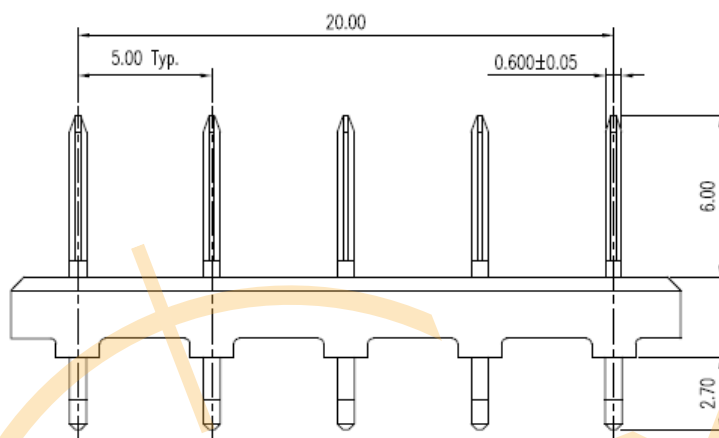
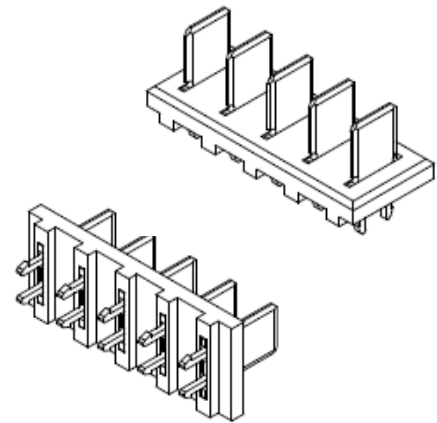
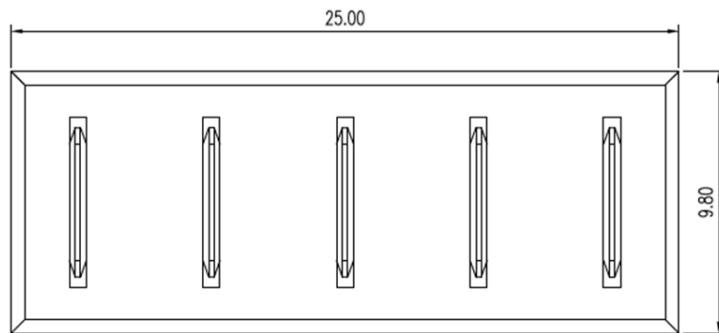
Applications:

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

Specification

| Ratings | |
|-------------------------|--|
| Current | 10.00A max. / pin |
| Voltage | 125.00VAC / 1min |
| Materials | |
| Housing | Thermoplastic High Temperature, UL 94 V-0, black |
| Contacts | Copper Alloy |
| Plating | 80µin Nickel on contact area, 100µin Matte-Tin on solder tails |
| Environmental Condition | |
| Operating Temperature | -55°C to +105°C |
| Electrical Requirements | |
| Contact Resistance | 30mOhm max. |
| Insulation Resistance | 100mOhm min. at 500VDC / 2min |
| Dielectric withstand | 500.00V |
| Mechanical Requirements | |
| Dimensions (LxWxH) | 25mm x 11.70mm x 9.80mm |
| Weight | Typical 3g |
| PCB mounting | 180° |
| Contact Retention Force | 500g min. / pin |
| Durability | 5000 cycles |
| Physical Requirements | |
| Solder Temperature | 260°C ± 5°C |
| Immersion Period | 5sec (EIA-364-56C) |
| Regulatory Approvals | |
| Green Procurement | RoHS REACH |
| Packaging | |
| 24 connectors per tube | |
| 110 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° |

Note

- The hooks of the connector fit tightly when a drill hole diameter of 1.05 mm is used, thus making the connection very robust. However, insertion of the connector into the 1.05 mm drill hole requires force and will most likely only be possible with manual assembly.
- In an automated assembly process where force application is not possible, a drill hole diameter of 1.2 mm could be used. However, when fitting the connector into the 1.2 mm drill hole, one must remember that the connector can be removed with minimal effort, thus making the connection less robust.

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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

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