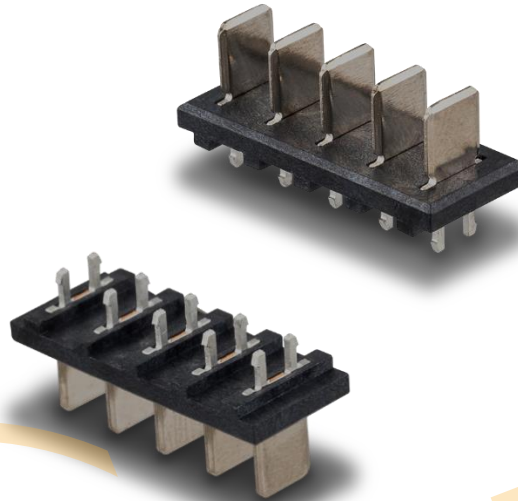


### RRC-MC20-180-10

#### Battery Mating Connector

P/N: 210518

Distributed by:



#### 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

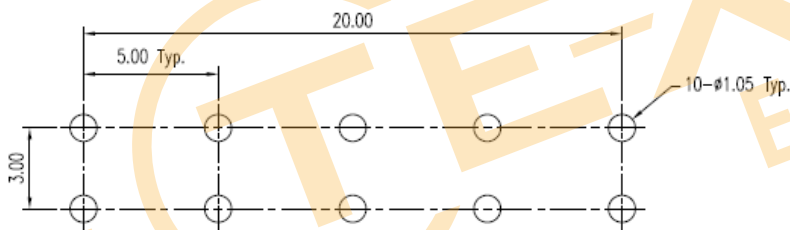
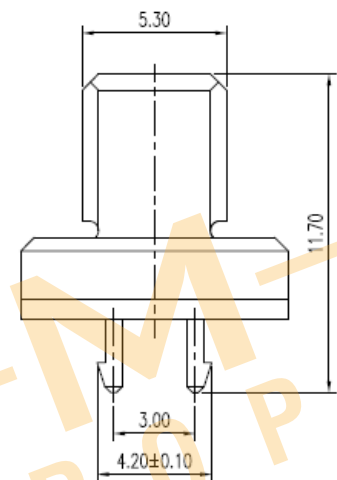
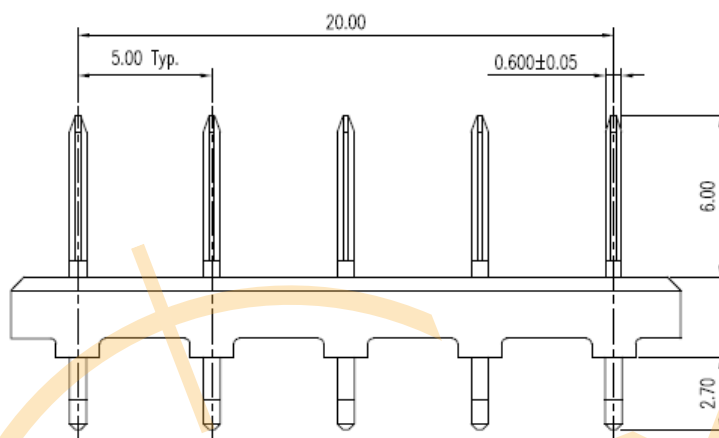
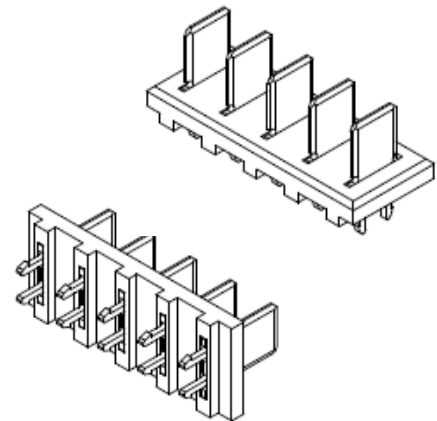
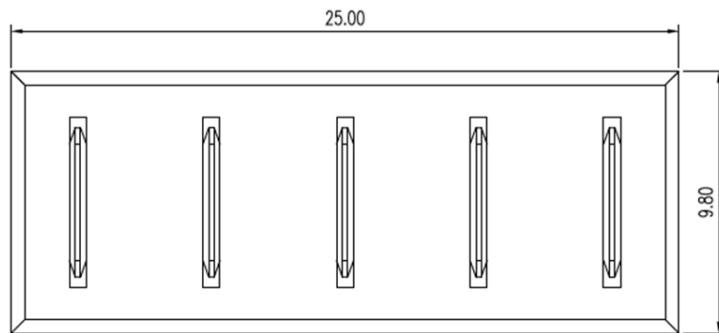
#### Applications:

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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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

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

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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