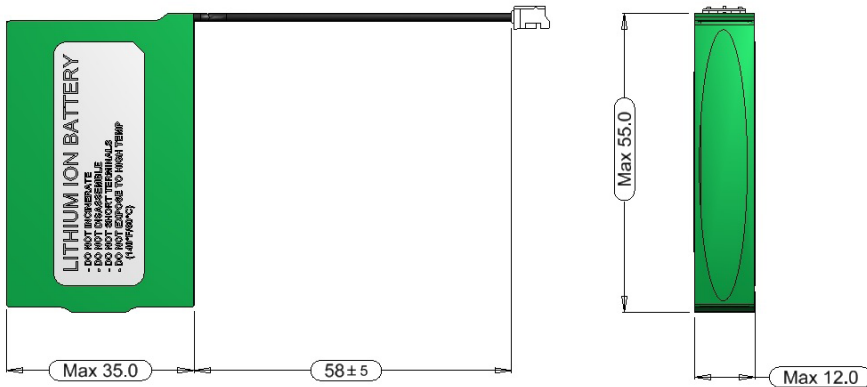


Product Information



1/LIP 103450 SC PCM S WC

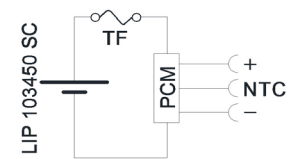
▶ VKB 56429 201 015



VARTA Microbattery		Li-Ion
	1/LIP 103450 SC VKB : 56429 201 015 2000mAh 3.7V 7.4Wh Assembled in Indonesia MMYR	

- MM ▶ month two digits
Y ▶ year one digit
R ▶ plant one digit

Circuit Diagram



1. GENERAL

Li-Ion Battery Pack in shrink sleeve including safety circuit and wire connector

- | | |
|---------------|-----------------------------------|
| Cell | ▶ LIP 103450 SC |
| PCM | ▶ Yes |
| NTC | ▶ 10 kΩ ± 1%; B-Value = 3435 ± 1% |
| ID | ▶ None |
| Configuration | ▶ 1S |
| Weight | ▶ appr. 43g |

2. ELECTRICAL SPECIFICATION

- | | |
|---|--|
| Rated Capacity | ▶ 2000mAh min., 2030mAh typical |
| Nominal Voltage | ▶ 3.7V |
| Watt-Hour Rating | ▶ 7.4Wh |
| Charging Method | ▶ Constant Current + Constant Voltage |
| Max. Charge Voltage [V]: | ▶ 4.2 (±50mV) |
| Max. Continuous Charge Current: | ▶ 1500mA (limited by PCM) |
| Rec. Charge Cut Off: | ▶ 100mA or timer 3h |
| Max. Continuous Discharge Current: | ▶ 1500mA (limited by PCM) |
| Rec. Discharge Cut Off: | ▶ 3V |
| Internal Impedance: | ▶ approx. 140mΩ |
| Expected Cycle Life @ (0.5C/0.5) @ 20°C | ▶ 300 cycles >80% of min. capacity
▶ 500 cycles >70% of min. capacity |

CELL PROTECTION

- | | |
|--------------------------|--|
| Overcharge Detection | ▶ 4.275V ± 25mV (0.96 to 1.4sec. delay, resume 4.075V ± 50mV, remove charge current) |
| Overdischarge Detection: | ▶ 2.30V ± 50mV (30 to 46msec. delay, resume 2.3V ± 100mV @ charge current) |
| Overcurrent Detection | ▶ 5.2A to 8.0A (7.2 to 11msec. delay) |

3. AMBIENT CONDITIONS

- | | |
|-----------------------|------------------------------------|
| Temperature Range | ▶ 0 to +45°C |
| • Charge | ▶ -20 to +60°C |
| • Discharge | ▶ 1 year at -20 to +20°C > 80% |
| • Storage Temperature | ▶ 3 months at -20°C to +45°C > 80% |
| | ▶ 1 month at -20°C to +60°C > 80% |
| • Humidity | ▶ 65 ± 20%RH |

4. ENVIRONMENTAL AND SAFETY

Please follow VARTA Handling and Safety Precautions for Lilon & LiPolymer.
The cell used is a UL recognized component according to UL1642 and UN38.3 certified.
This battery meets the requirements of Battery Directives and the battery parts are RoHS-Compliant.

Minimum Order Quantity: 500 pcs / Order Multiples: 100 pcs - Product for OEM customers only!

