**Specification**

Lithium Polymer Battery Pack LP502540 500mAh 3.7V with Protection Circuit Module (PCM)

This data sheet describes the requirements and properties of lithium polymer rechargeable battery pack manufactured by LiPol Battery Co., Ltd - China

**Mechanical Characteristics**

<table>
<thead>
<tr>
<th>Cell</th>
<th>up to 6 LP502540</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCM</td>
<td>Yes</td>
</tr>
<tr>
<td>NTC</td>
<td>No</td>
</tr>
<tr>
<td>Configuration</td>
<td>1S1P</td>
</tr>
<tr>
<td>Weight</td>
<td>appr. 10g</td>
</tr>
</tbody>
</table>

**Electrical Specification**

- **Rated Capacity**: 500mAh min, 530mAh typ.
- **Nominal Voltage**: 3.7V
- **Whr-Rating**: 1.85Wh
- **Max. Operating Voltage Range**: 2.75V to 4.20V
- **Max. Charge Voltage**: 4.2V ±50mV
- **Max. Charge Current**: 500mA
- **Max. Continuous Discharge Current**: 500mA
- **Discharge Cut Off**: 2.75V
- **Internal Impedance**: ≤200mΩ
- **Expected Cycle Life**: ≥500 cycles ≥80%

**Cell Protection**

- **Overcharge Detection**: 4.275 ±50mV (0.7 to 1.3sec. delay, release 4.275V ±50mV)
- **Overdischarge Detection**: 2.75V ±50mV (14 to 26msec. delay, resume 2.50V ±50mV)
- **Overcurrent Detection**: 2A to 4.5A (8 to 16msec. delay)

**Ambient Conditions**

- **Charge Temp. Range**: 0 to +45°C
- **Discharge Temp. Range**: -20 to +60°C
- **Storage Temp. Range**: 1 year at -20 to +30°C, >70%
- **Humidity**: 3 months at -20 to +45°C, >70%
- **Humidity**: 1 month at -20 to +60°C, >70%
- **Humidity**: 65 ±20%RH

**Environmental and Safety**

Please follow LiPol Handling and Safety Precautions for Lithium Polymer Battery. This battery meets the requirements of Battery Directives, and the battery parts are IEC 62133 & RoHS-Compliant. For more safety precautions and performance standards, please go to www.lipolbattery.com/support.html

---

**Circuit Diagram**

- LiPo Battery 3.7V LP502540 500mAh
- PCM
- Double-sided adhesive tape
- Adhesive tape kapton
- Wire black (-)
- Wire red (+)
- Standard tolerances

---

**LiPol Battery**