

30  
double-sided  
adhesive tape

60  
wires  
28AWG UL1571

50  
connector  
Molex 51021-0300

40  
adhesive tape kapton

20  
PCM

10  
LP503040

40  
adhesive tape  
kapton (2x)

5.0<sup>+0.3</sup>  
-0.3

40<sup>+1.0</sup>  
-1.0

80<sup>+3.0</sup>  
-3.0

30<sup>+0.5</sup>  
-0.5

LiPo Battery 3.7V  
LP503040 560mAh

## Specification

Lithium Polymer Battery Pack LP503040 560mAh 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

Cell	▶ LP503040
PCM	▶ Yes
NTC	▶ 10KΩ 1% +25C B3380
Configuration	▶ 1S1P
Weight	▶ appr. 11g

### Electrical Specification

Rated Capacity	▶ 560mAh min, 580mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 2.07Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ±50mV
Max. Charge Current	▶ 280mA
Max. Continuous Discharge Current	▶ 560mA
Discharge Cut Off	▶ 2.75V
Internal Impedance	▶ <200mΩ
Expected Cycle Life @ (0.5C/0.5C) @ 23±5°C	▶ 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)

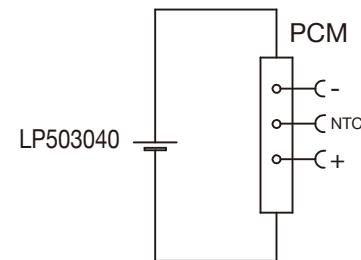
### Ambient Conditions

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%
Overcurrent Detection	▶ 3 moths at -20 to +45°C >70%
	▶ 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](http://www.lipolbattery.com/support.html)

### Circuit diagram



Mae in mm All dimensions in mm	Freimatoleranzen Generaltoleranzen	Date	Name	+ LiPol Battery
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6 : 0,1 over 6 : 0,2 over 30 : 0,3 up to 100 : 0,3 over 100 : 0,5	Erst./ Orig 17.06.2019	Xie Qingfang	
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		Benennung/ Designation LP503040		
		Origin:	3	Zchnng. / Dwg. Nr. FD_6240_20
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