

30  
double-sided  
adhesive tape

60  
wires  
26AWG UL1571

50  
connector  
JST SHR-03V-S-B

40  
adhesive tape kapton

20  
PCM

10  
LP503759

40  
adhesive tape  
kapton (2x)

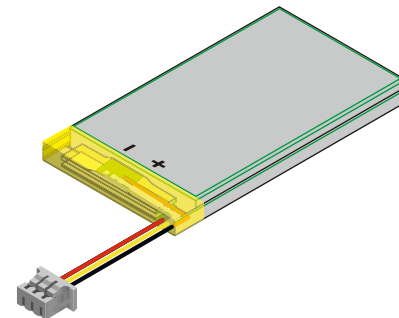
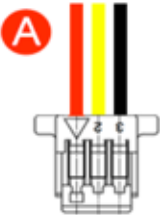
5,0 <sup>+0,3</sup>  
-0,3

37 <sup>+0,5</sup>  
-0,5

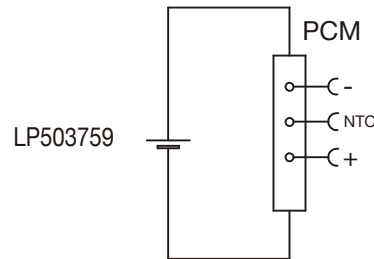
59 <sup>+1,0</sup>  
-1,0

50 <sup>+3,0</sup>  
-3,0

LiPo Battery 3.7V  
LP503759 1200mAh



### Circuit diagram



## Specification

Lithium Polymer Battery Pack LP503759 1200mAh 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	▶ LP503759
PCM	▶ Yes
NTC	▶ 10KΩ 1% +25C B3435
Configuration	▶ 1S1P
Weight	▶ appr. 24g

### Electrical Specification

Rated Capacity	▶ 1200mAh min, 1230mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 4.44Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ±50mV
Max. Charge Current	▶ 600mA
Max. Continuous Discharge Current	▶ 1200mA
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)

Mae in mm All dimensions in mm	Freimatoleranzen Generaltoleranzen	Date 12.12.2019	Name Xie Qingfang	<b>+ LiPol Battery</b>	Zchnng. / Dwg. Nr. <b>3 FD_3245_70</b>	Index
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6 : 0,1 over 6 up to 30 : 0,2 over 30 up to 100 : 0,3 over 100 : 0,5	Erst. / Orig 12.12.2019	Gepr./Check 12.12.2019			
Proprietary data, company confidential, all rights reserved.		Origin:				