

30  
double-sided  
adhesive tape

60  
wires  
24AWG UL1571

50  
connector  
Molex 43645-0300

40  
adhesive tape kapton

20  
PCM

10  
LP7852115

40  
adhesive tape  
kapton (2x)

7.8  
 $+0.3$   
 $-0.3$

115  
 $+1.0$   
 $-1.0$

60  
 $+3.0$   
 $-3.0$

52  
 $+0.5$   
 $-0.5$

LiPo Battery 3.7V  
LP7852115 5000mAh

## Specification

Lithium Polymer Battery Pack LP7852115 5000mAh 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	▶ LP7852115
PCM	▶ Yes
NTC	▶ 10K $\Omega$ 1% +25C B3380
Configuration	▶ 1S1P
Weight	▶ appr. 100g

### Electrical Specification

Rated Capacity	▶ 5000mAh min, 5050mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 18.5Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V $\pm$ 50mV
Max. Charge Current	▶ 2500mA
Max. Continuous Discharge Current	▶ 3000mA
Discharge Cut Off	▶ 2.75V
Internal Impedance	▶ <100m $\Omega$
Expected Cycle Life @ (0.5C/0.5C) @ 23 $\pm$ 5°C	▶ 500 cycles $\geq$ 80%

### Cell Protection

Overcharge Detection	▶ 4.275 $\pm$ 50mV (0.7 to 1.3sec. delay, release 4.275V $\pm$ 50mV)
Overdischarge Detection	▶ 2.75V $\pm$ 50mV (14 to 26msec. delay, resume 2.50V $\pm$ 50mV)
Overcurrent Detection	▶ 4A to 4.5A (8 to 16msec. delay)

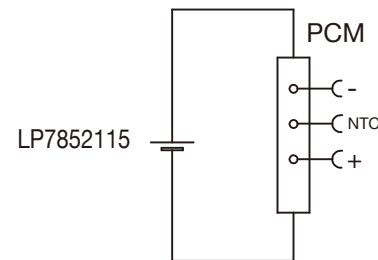
### Ambient Conditions

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 $\pm$ 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
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6 up to 30	Erst./ Orig 23.05.2019	Xie Qingfang
	over 6 up to 30	Gepr./Check 23.05.2019	Guo Daxia
Proprietary data, company confidential, all rights reserved.	over 30 up to 100	Benennung/ Designation LP7852115	
	over 100	Origin:	Zchnng. / Dwg. Nr. 3 FD_8200_20
		support@lipolbattery.com	
		www.LiPolBattery.com	

**LiPol Battery**