

30
double-sided
adhesive tape

40
adhesive tape kapton

20
PCM

10
LP551215

60
wire black (-)
AWG28 UL1571

50
wire red (+)
AWG28 UL1571

40
adhesive tape
kapton (2x)

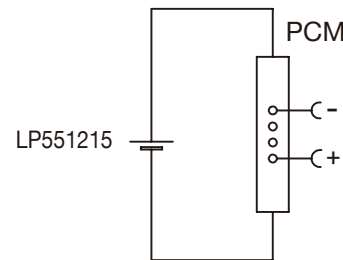
5.5^{+0.3}
-0.3

12^{+0.5}
-0.5

16^{+1.0}
-1.0

50^{+3.0}
-3.0

Circuit Diagram



Specification

Lithium Polymer Battery Pack LP551215 3.7V 50mAh 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	▶ LP551215
PCM	▶ Yes
NTC	▶ No
Configuration	▶ 1S1P
Weight	▶ appr. 1.0g

Electrical Specification

Rated Capacity	▶ 50mAh min, 55mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 0.48Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ±50mV
Max. Charge Current	▶ 50mA
Standard Charge Current	▶ 25mA
Max. Continuous Discharge Current	▶ 50mA
Standard Discharge Current	▶ 25mA
Discharge Cut Off	▶ 2.75V
Internal Impedance	▶ <400mΩ
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	▶ 2.0A to 2.5A (8 to 16msec. delay)

Ambient Conditions

Charge Temp. Range	▶ +10°C to +45°C
Discharge Temp. Range	▶ -20°C to +60°C
Storage Temp. Range	▶ 1 year at -20°C to +30°C >70%
	▶ 3 months at -20°C to +45°C >70%
	▶ 1 month at -20°C to +60°C >70%

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 IEC62133-2-2017 & RoHS-Compliant. For more safety precautions and performance standards, please go to www.lipolbattery.com/support.html

Mae in mm All dimensions in mm	Freimatoleranzen Generaltoleranzen	Date	Name	LiPol Battery	Index
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6 · 0,1 over 6 up to 30 · 0,2	Erst. / Orig 19.04.2023	Xie Qingfang		
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 · 0,3 over 100 · 0,5	Gepr./Check 19.04.2023	Guo Daxia	Benennung/ Designation LP551215	Zchnng. / Dwg. Nr. 3 FD_3221_10
		Origin:	support@lipolbattery.com	www.LiPolBattery.com	