

30
double-sided
adhesive tape

40
adhesive tape kapton

20
PCM

10
LP802030

60
wire black (-)
AWG28 UL1571

50
wire red (+)
AWG28 UL1571

40
adhesive tape
kapton (2x)

8.0^{+0.3}
-0.3

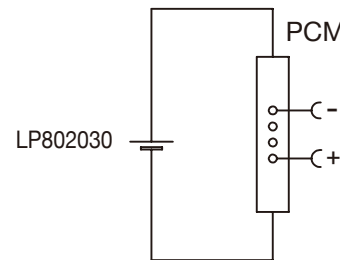
20^{+0.5}
-0.5

31^{+1.0}
-1.0

50^{+3.0}
-3.0

LiPo Battery 3.7V
LP802030 400mAh

Circuit Diagram



Specification

Lithium Polymer Battery Pack LP802030 3.7V 400mAh 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	▶ LP802030
PCM	▶ Yes
NTC	▶ No
Configuration	▶ 1S1P
Weight	▶ appr. 8.0g

Electrical Specification

Rated Capacity	▶ 400mAh min, 410mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 1.48Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ±50mV
Max. Charge Current	▶ 400mA
Standard Charge Current	▶ 200mA
Max. Continuous Discharge Current	▶ 400mA
Standard Discharge Current	▶ 200mA
Discharge Cut Off	▶ 2.75V
Internal Impedance	▶ <80mΩ
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 LP802030	Zchnng. / Dwg. Nr. 3 FD_8020_10
		Origin:	support@lipolbattery.com	www.LiPolBattery.com	