

30
double-sided
adhesive tape

60
wires
28AWG UL1571

50
connector
JST SHR-03V-S-B

40
adhesive tape kapton

20
PCM

10
LP552040

40
adhesive tape
kapton (2x)

5,5^{+0,3}
-0,3

40^{+1,0}
-1,0

50^{+3,0}
-3,0

20^{+0,5}
-0,5

LiPo Battery 3.7V
LP552040 400mAh

Specification

Lithium Polymer Battery Pack LP552040 400mAh 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	▶ LP552040
PCM	▶ Yes
NTC	▶ 10KΩ 1% +25C B3380
Configuration	▶ 1S1P
Weight	▶ appr. 8g

Electrical Specification

Rated Capacity	▶ 400mAh min, 405mAh 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	▶ 200mA
Max. Continuous Discharge Current	▶ 400mA
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)

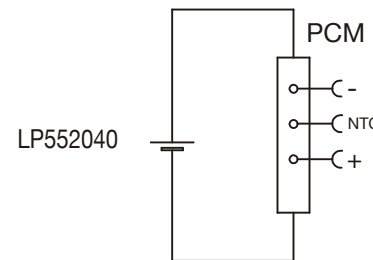
Ambient Conditions

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

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 10.06.2019	Xie Qingfang	
Proprietary data, company confidential, all rights reserved.		Gepr./Check 10.06.2019	Guo Daxia	
		Benennung/ Designation LP552040		Zchnng. / Dwg. Nr. 3 FD_2040_70
		Origin:	support@lipolbattery.com	www.LiPolBattery.com