

30
double-sided
adhesive tape

60
wires
28AWG UL1571

50
connector
Molex 51021-030

40
adhesive tape kapton

20
PCM

10
LP553040

40
adhesive tape
kapton (2x)

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

30^{+0,5}
-0,5

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

100^{+3,0}
-3,0

LiPo Battery 3.7V
LP553040 650mAh

Specification

Lithium Polymer Battery Pack LP553040 650mAh 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	▶ LP553040
PCM	▶ Yes
NTC	▶ 10KΩ 1% +25C B3380
Configuration	▶ 1S1P
Weight	▶ appr. 12g

Electrical Specification

Rated Capacity	▶ 650mAh min, 655mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 2.405Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ±50mV
Max. Charge Current	▶ 325mA
Max. Continuous Discharge Current	▶ 650mA
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)

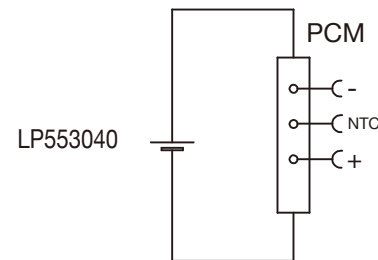
Ambient Conditions

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	Erst. / Orig 02.05.2019	Xie Qingfang	
Proprietary data, company confidential, all rights reserved.	over 30 : 0,3 over 100 : 0,5	Gepr./Check 02.05.2019	Guo Daxia	
		Benennung/ Designation	LP553040	
		Origin:		Zchnng. / Dwg. Nr. 3 FD_3245_70
				Index
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				www.LiPolBattery.com