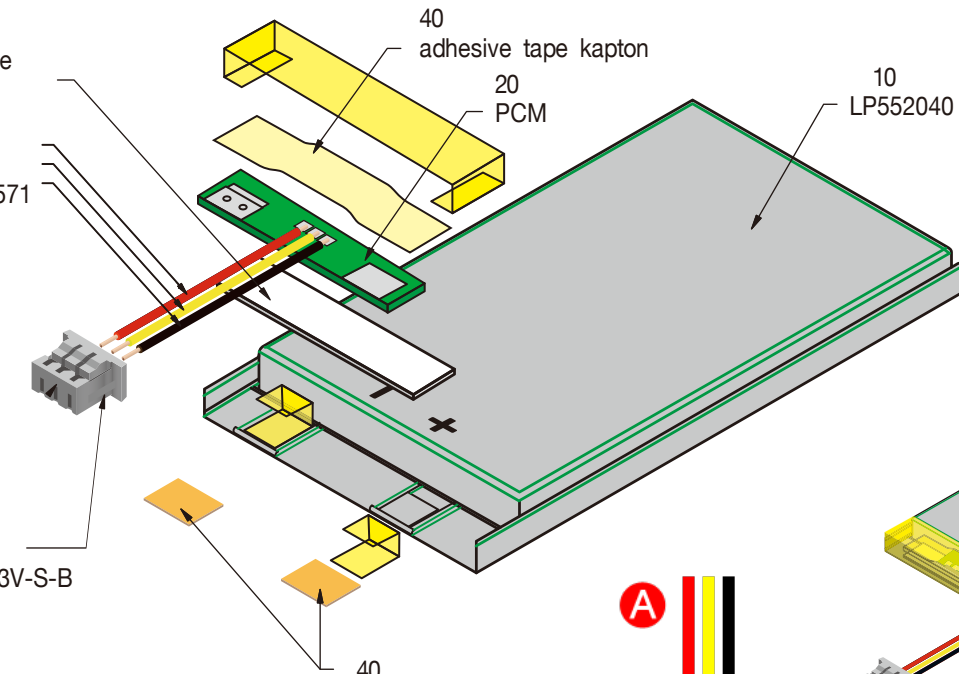


30
double-sided
adhesive tape

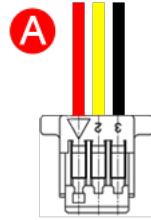
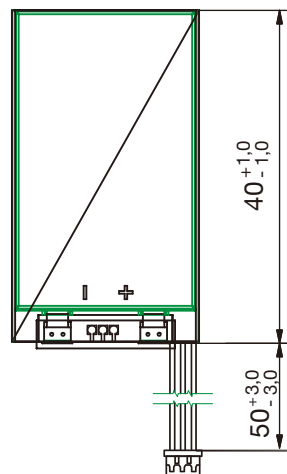
60
wires
28AWG UL1571

50
connector
JST SHR-03V-S-B

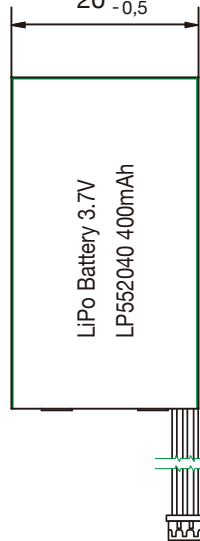


40
adhesive tape
kapton (2x)

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

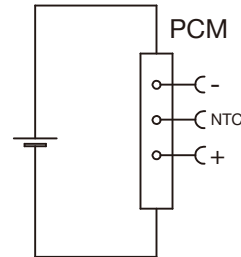


20^{+0,5}
-0,5



LP552040

Circuit diagram



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

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 up to 30 : 0,2	Erst./ Orig	10.06.2019		Xie Qingfang
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 : 0,3 over 100 : 0,5	Gepr./Check	10.06.2019		Guo Daxia
		Benennung/ Designation	LP552040		
		Origin:	3	Zchnng. / Dwg. Nr. FD_2040_70	Index
			support@lipolbattery.com		www.LiPolBattery.com