

30
double-sided
adhesive tape

60
wires
24AWG UL1007

50
connector
Molex 50-37-5033 (B)

40
adhesive tape kapton

20
PCM

10
LP523450

40
adhesive tape
kapton (2x)

5,2 ^{+0,3}
-0,3

50 ^{+1,0}
-1,0

20 ^{+3,0}
-3,0

34 ^{+0,5}
-0,5

LiPo Battery 3.7V
LP523450 980mAh

Specification

Lithium Polymer Battery Pack LP523450 980mAh 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	▶ LP523450
PCM	▶ Yes
NTC	▶ 10KΩ 1% +25C B3380
Configuration	▶ 1S1P
Weight	▶ appr. 20g

Electrical Specification

Rated Capacity	▶ 980mAh min, 1000mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 3.63Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ± 50mV
Max. Charge Current	▶ 490mA
Max. Continuous Discharge Current	▶ 980mA
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)

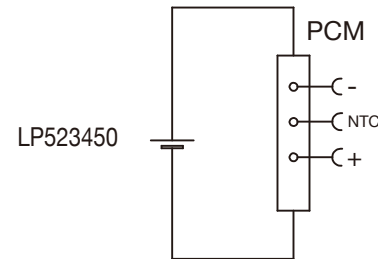
Ambient Conditions

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 up to 30 : 0,2	Erst./ Orig 23.05.2019	Xie Qingfang	
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 : 0,3 over 100 : 0,5	Gepr./Check 23.05.2019	Guo Daxia	
		Benennung/ Designation	LP523450	
		Origin:		Zchng. / Dwg. Nr. 3 FD_3240_10
				Index
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				www.LiPolBattery.com