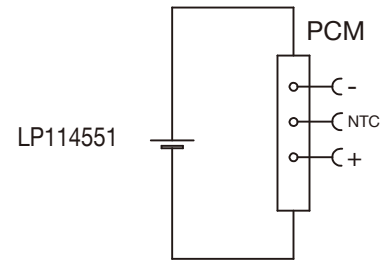


Circuit diagram



Specification

Lithium Polymer Battery Pack LP114551 2900mAh 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 ▶ LP114551
- PCM ▶ Yes
- NTC ▶ 10KΩ 1% +25C B3435
- Configuration ▶ 1S1P
- Weight ▶ appr. 56g
- Connector ▶ JST ACHR-03V-S

Electrical Specification

- Rated Capacity ▶ 2900mAh min, 2950mAh typ.
- Nominal Voltage ▶ 3.7V
- Wat-Hour Rating ▶ 10.73Wh
- Max. Operating Voltage Range ▶ 2.75V to 4.20V
- Max. Charge Voltage ▶ 4.2V ±50mV
- Max. Charge Current ▶ 1450mA
- Standard Charge Current ▶ 580mA
- Max. Continuous Discharge Current ▶ 2900mA
- Standard Discharge Current ▶ 580
- 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 ▶ 4A 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%
- ▶ 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 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 Generaltolerances	Date	Name	+ LiPol Battery	Zchnng. / Dwg. Nr. 3 FD_4551_11	Index		
		Erst./ Orig	11.06.2021				Xie Qingfang	
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6	· 0,1	Gepr./Check				11.06.2021	Guo Daxia
	over 6	· 0,2	Benennung/ Designation				LP114551	
Proprietary data, company confidential, all rights reserved.	over 30	· 0,3	Origin:		support@lipolbattery.com	www.LiPolBattery.com		
	over 100	· 0,5						