

30  
double-sided  
adhesive tape

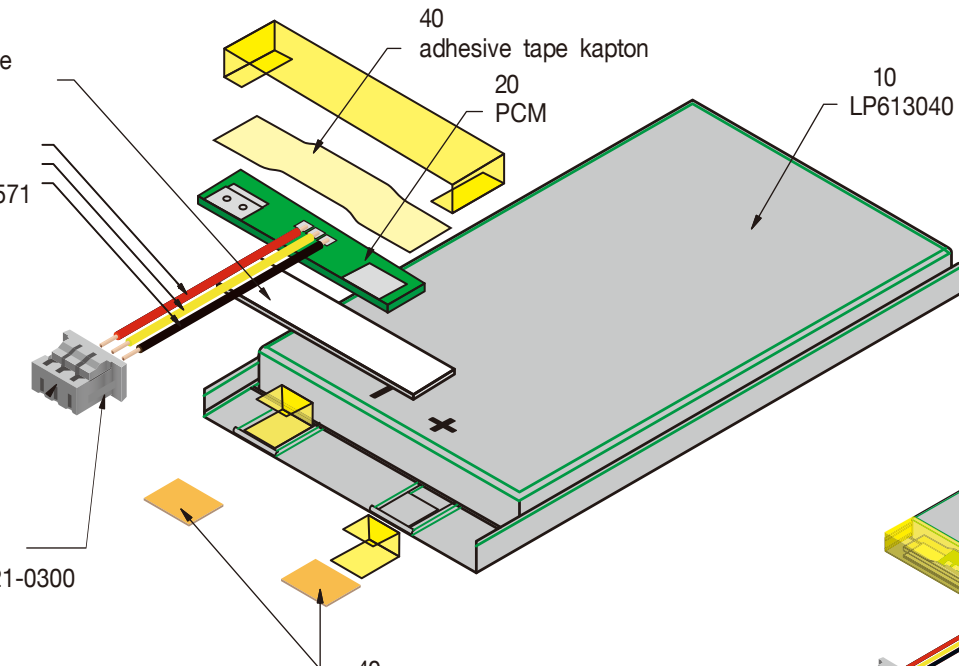
60  
wires  
28AWG UL1571

50  
connector  
Molex 51021-0300

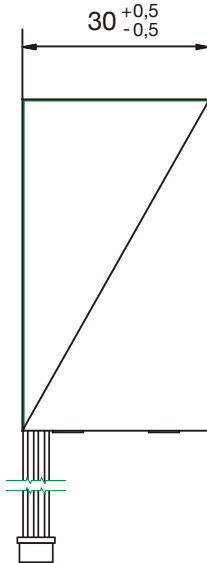
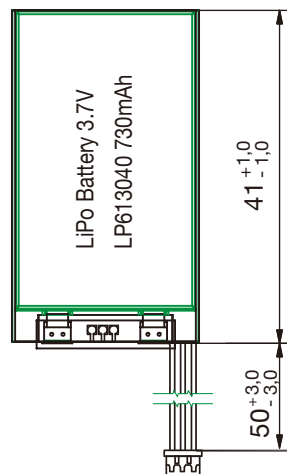
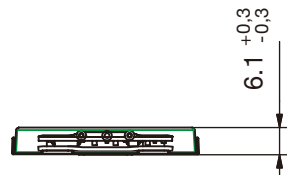
40  
adhesive tape kapton

20  
PCM

10  
LP613040



40  
adhesive tape  
kapton (2x)



# Specification

Lithium Polymer Battery Pack LP613040 730mAh 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 ▶ LP613040
- PCM ▶ Yes
- NTC ▶ 10KΩ 1% +25C B3435
- Configuration ▶ 1S1P
- Weight ▶ appr. 14.6g
- Connector ▶ Molex 51021-0300

## Electrical Specification

- Rated Capacity ▶ 730mAh min, 730mAh typ.
- Nominal Voltage ▶ 3.7V
- Wat-Hour Rating ▶ 2.70Wh
- Max. Operating Voltage Range ▶ 2.75V to 4.20V
- Max. Charge Voltage ▶ 4.20V ±50mV
- Max. Charge Current ▶ 365mA
- Standard Charge Current ▶ 146mA
- Max. Discharge Current ▶ 730mA
- Standard Discharge Current ▶ 365mA
- 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 4.075V ±50mV)
- Overdischarge Detection ▶ 2.75V ±50mV (14 to 26msec. delay, resume 3.05V ±50mV)
- Overcurrent Detection ▶ 2A to 2.5A (8 to 16msec. delay)

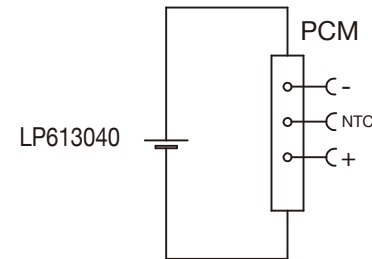
## Ambient Conditions

- Charge Temp. Range ▶ +10°C to +45°C
- Discharge Temp. Range ▶ -20°C to +60°C
- Storage Temp. Range ▶ 1 year at -20°C to +30°C >70%
- ▶ 3 moths at -20°C to +45°C >70%
- ▶ 1 month at -20°C to +60°C >70%

## 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](http://www.lipolbattery.com/support.html)

## Circuit diagram



Mae in mm All dimensions in mm	Freimatoleranzen Generaltoleranzen	Date	Name	<b>+ LiPol Battery</b>	Zchnng. / Dwg. Nr. <b>1 FD_4723_10</b>	Index		
		Erst./ Orig	05.25.2021				Xie Qingfang	
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6	· 0,1	Gepr./Check				05.25.2021	Guo Daxia
	over 6	· 0,2	Benennung/ Designation					
Proprietary data, company confidential, all rights reserved.	over 30	· 0,3	LP613040					
	over 100	· 0,5	Origin:	support@lipolbattery.com		www.LiPolBattery.com		