

30
double-sided
adhesive tape

40
adhesive tape kapton

10
LP221619

60
wire black (-)
30AWG UL1571

50
wire red (+)
30AWG UL1571

40
adhesive tape
kapton (2x)

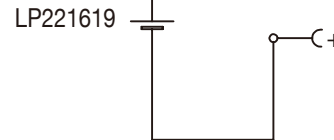
2.2 ^{+0.3}
-0.3

19 ^{+1.0}
-1.0

50 ^{+3.0}
-3.0

16 ^{+0.5}
-0.5

Circuit diagram



Specification

Lithium Polymer Battery Pack LP221619 30mAh 3.7V without 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	▶ LP221619
PCM	▶ No
NTC	▶ No
Configuration	▶ 1S1P
Weight	▶ appr. 0.6g

Electrical Specification

Rated Capacity	▶ 30mAh min, 33mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 0.111Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ± 50mV
Max. Charge Current	▶ 15mA
Max. Continuous Discharge Current	▶ 30mA
Discharge Cut Off	▶ 2.75V
Internal Impedance	▶ <600mΩ
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	▶ 2.0A to 2.5A (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 months 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	Index
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6 · 0,1 over 6 up to 30 · 0,2	Erst. / Orig 30.08.2021	Xie Qingfang		
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 · 0,3 over 100 · 0,5	Gepr./check 30.08.2021	Guo Daxia	Benennung/ Designation LP221619	Zchnng. / Dwg. Nr. 3 FD_1619_22
		Origin:	support@lipolbattery.com	www.LiPolBattery.com	