

30
double-sided
adhesive tape

60
wire black (-)
AWG22 UL1007

50
wire red (+)
AWG22 UL1007

40
adhesive tape kapton

20
PCM

10
LPHD7840078

40
adhesive tape kapton (2x)

7,8^{+0,3}
-0,3

78^{+1,0}
-1,0

50^{+3,0}
-3,0

40^{+0,5}
-0,5

LiPo Battery 3.7V 8C
LPHD7840078 2700mAh

Circuit Diagram

LPHD7840078

PCM

C -

C +

Specification

Lithium Polymer Battery Pack LPHD7840078 3.7V 2700mAh 8C 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	▶ LPHD7840078
PCM	▶ Yes
NTC	▶ No
Configuration	▶ 1S1P
Weight	▶ appr. 54g

Electrical Specification

Rated Capacity	▶ 2700mAh min, 2730mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 9.99Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ±50mV
Max. Charge Current	▶ 5400mA/2C
Max. Continuous Discharge Current	▶ 13.5A/5C
Discharge Cut Off	▶ 2.75V
Internal Impedance	▶ < 100mΩ
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	▶ 20A to 20.5A (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 23.08.2019	Xie Qingfang Guo Daxia		
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 · 0,3 over 100 · 0,5	Benennung/ Designation LPHD7840078		Zchgng. / Dwg. Nr. 3 FD_3600_70	
		Origin: support@lipolbattery.com		www.LiPolBattery.com	