

50 ± 3mm

PCM

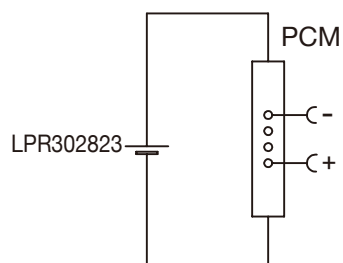
LiPo Battery 3.8V
LPR302823 140mAh

23 ±1.0mm

28 ±1.0mm

28 ±0.5mm

Circuit Diagram



Specification

Lithium Polymer Battery Pack LPR302823 3.8V 140mAh 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	▶ LPR302823
PCM	▶ Yes
NTC	▶ No
Configuration	▶ 1S1P
Weight	▶ appr. 3.00g

Electrical Specification

Rated Capacity	▶ 140mAh min, 145mAh typ.
Nominal Voltage	▶ 3.8V
Wat-Hour Rating	▶ 0.53Wh
Max. Operating Voltage Range	▶ 2.75V to 4.35V
Max. Charge Voltage	▶ 4.35V ± 50mV
Max. Charge Current	▶ 70mA
Max. Continuous Discharge Current	▶ 140mA
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	▶ 4.355 ±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%
	▶ 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.AkkuPlus.de

Mae in mm All dimensions in mm	Freimatoleranzen Generaltolerances	Date 20.09.2026	Name W. Pelich	Akkuplus.de Akku leer? Kein Problem!	
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6 : 0,1 over 6 up to 30 : 0,2	Erst. / Orig. 20.09.2026	W. Pelich		
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 : 0,3 over 100 : 0,5	Benennung/ Designation LPR302823		Zchnng. / Dwg. Nr. 3 FD_6110_20	Index
		Origin:		info@akkuplus.de	www.AkkuPlus.de