

Preliminary Drawing
Subject to Engineering Change

Specification

1. General:

PoLiFlex Cell PLF423566 B incl. safety circuit and wires
Weight: appr. 21g
PCM 301

2. Electrical Specification:

Rated Capacity: 960 mAh min, 1000 mAh typ.
Nominal Voltage: 3.7 V
Max. Operating Voltage Range: 2.75V to 4.2V
Charging Method: Constant Current + Constant Voltage
Charge Voltage [V] 4.2 (± 50 mV)
Initial Charge Current [mA]: Standard Charge: 480
Rapid Charge: 960

Charging Cut-Off [a) or b)]

a) by time [h] Standard Charge: 5
Rapid Charge: 3

b) by min. current [mA]: 19

Max. Continuous Discharge Current: 1920 mA
Internal Impedance (1 kHz): appr. 120 mOhm
Exp. Cycle Life: >500 cycles >70% of initial cap. (0.5C/0.5C)

Cell Protection

Overcharge Detection: 4.325 ± 25 mV

(0.5 to 2.0 sec. delay, resume 4.075 ± 50 mV)

Overdischarge Detection: $2.50 \text{ V} \pm 80$ mV

(62.5 to 250 msec. delay, resume $2.9 \text{ V} \pm 100$ mV)

Overcurrent Detection: 3.0 A to 5.5 A (4 to 16 msec. delay)

3. Ambient conditions:

Temperature Range

- Charge: 0 to $+45^\circ\text{C}$

- Discharge: -20 to $+60^\circ\text{C}$

- Charge Retention/Storage [%]: 1 year at -20 to 20°C >70
3 month at -20 to 45°C >70
1 month at -20 to 60°C >70

Humidity: 65 ± 20 %RH

4. Safety:

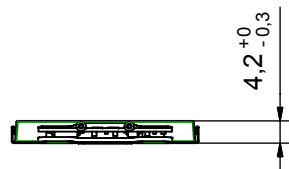
Please follow Handling and Safety Precautions Poliflex

A (5:1)

70
adhesive tape
Kapton
0,05 x 6 x 25

30
double-sided
adhesive tape
0,8 mm height

40
adhesive tape
Kapton (2x)
0,05 x 6 x 10

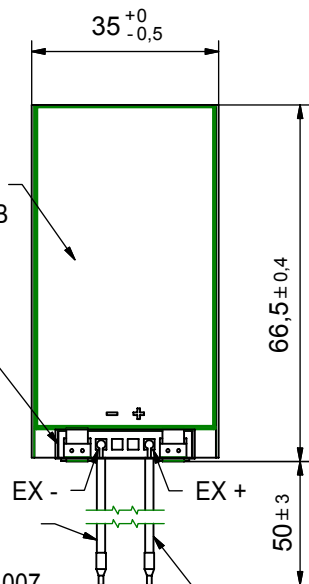


10
PLF423566 B

20
PCM 301

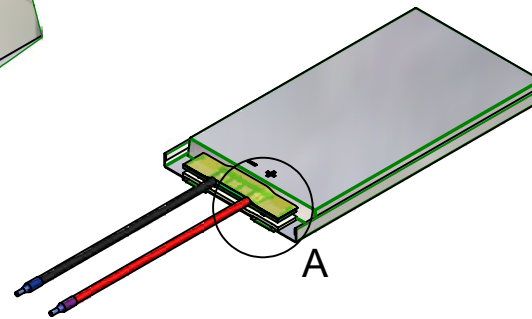
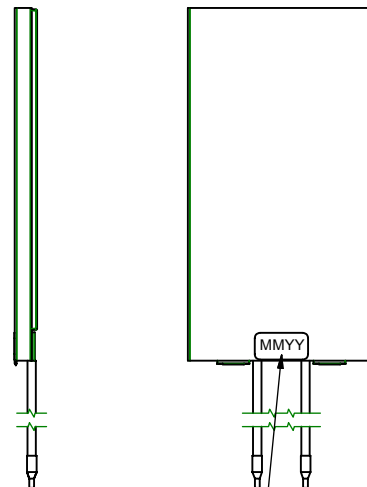
60
Wire black
AWG24 UL1007

80
Sumitube (2x)
wire ends to be
stripped and tinned,
insulated with Sumitube

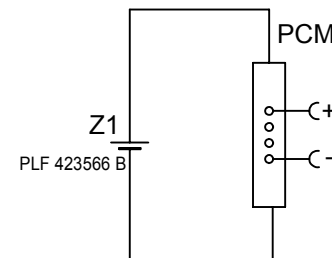


50
Wire red
AWG24 UL1007

90
Label date code



Schaltplan
circuit diagram



06	Specification and dimensions to version B (03) changed							23.02.2005	e. richter
Index	Änderung / Alteration							Date	Name
Projection:							Diese Maße werden besonders geprüft This dimensions are considered inspectable		Maßstab / Scale 1:1 (5:1)
							Material 66452 111 099		
Maße in mm All dimensions in mm		Freimaßtoleranzen Generaltolerances		Date 29.09.2003 R. Hahn 23.02.2005 E. Richter		Benennung / Designation 1/PLF423566 B PCM.LT50 PoLiFlex			
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.		up to 6 ± 0,1	over 6 up to 30 ± 0,2	Gepr./Check.		Zchnng. / Dwg.Nr. 3 688118			
Proprietary data, company confidential, all rights reserved.		over 30 up to 100 ± 0,3	over 100 ± 0,5			Index 06			
				Origin:		repl.f.:		repl.by:	
						Alloc.: VZE10			