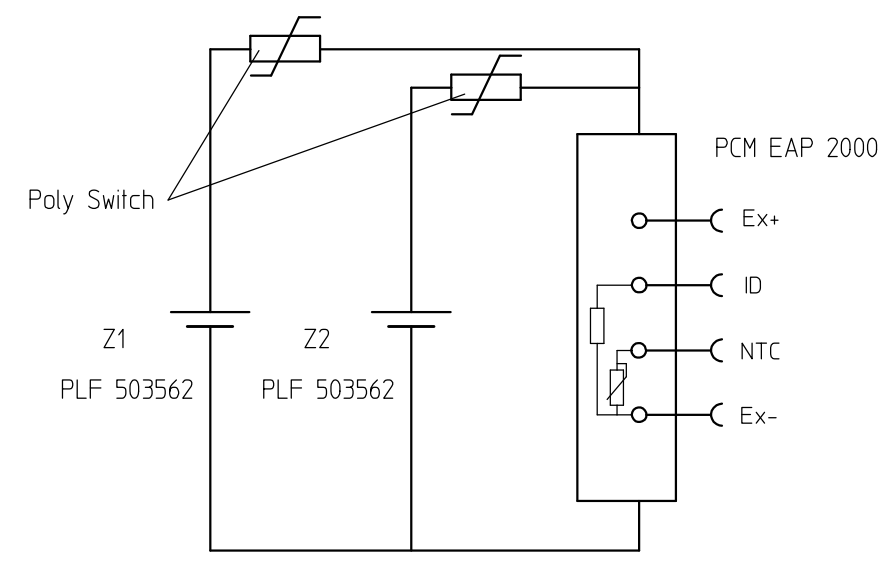


Schaltplan  
circuit diagram



## Specification

- General**  
 PoLiFlex Cell 2P/PLF503562 incl. safety circuit  
 Weight: appr. 46.5g  
 PCM: EAP 2000
- Electrical Specification**  
 Rated Capacity: 1910 mAh min, 2000 mAh typ.  
 (at 0.2C from 4.2V to 3.0V at 20°C)  
 Nominal Voltage: 3.7V  
 Max. Operating Voltage Range: 2.75V to 4.2V  
 Charging Method: Constant current + Constant voltage  
 Charge Voltage [V]: 4.20 (±50mV)  
 Initial charge current [mA]: Standard Charge: 475  
 Rapid Charge : 955  
 Charging cut-off [a) or b)]  
 a) by time [h] Standard Charge: 7  
 Rapid Charge : 4  
 b) by min. current [mA]: 38  
 Max. Continuous Discharge Current: 1910mA  
 Internal Impedance (1kHz): appr. 90mOhm  
 Exp. Cycle Life: >300 cycles >70% of initial cap. (0.5C/0.5C)  
 ID=24kOhm ±1%; NTC=10kOhm ±3%, B-Value 3435K ±3%  
 Cell Protection:  
 Overcharge Detection: max. 4.35V  
 (max. 2sec. delay, resume min. 4.0V)  
 Overdischarge Detection: min. 2.2V  
 (max. 250msec. delay, resume by charge)  
 Overcurrent Detection: 3.0A to 5.5A (4 to 16 msec. delay)
- Ambient Conditions**  
 Temperature Range  
 -Charge: 0 to +45°C  
 -Discharge: -20 to +60°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
- Safety**  
 Please follow Handling and Safety Precautions Poliflex

Index	Änderung / Alteration	Date	Name
07	PCM EAP1000 into EAP2000 chgd., Tolerance for ID ±1%, for NTC ±3% added	26.07.04	bschweinst
06	text "Do not handout without NDA" changed into "Patent pending"	15.07.04	bschweinst
05	Specification revised	23.06.04	bschweinst
04	Spec. updated. Dimension contact depth add.	04.06.04	erichter

Freimaßtoleranzen General tolerances up to 6 ± 0,1 over 6 up to 30 ± 0,2 over 30 up to 100 ± 0,3 over 100 ± 0,5	Maßstab 2:1 Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten. Proprietary data, company confidential, all rights reserved.	Diese Maße werden besonders geprüft This dimensions are considered inspectable		Material VKB-Nr. 66380 712 099 PC black
		Date	Name	
		05.02.04	bschweinst	Benennung / Designation <b>2P/PLF503562 PCM.KSK</b> easy-pack-battery
		09.08.04	bschweinst	
Maße in mm All dimensions are in mm		Projection:	2	Zchng. / Dwg.Nr. <b>688822</b>
VARTA THE BATTERY EXPERTS Origin: KE_1370_00		repl.f.:	repl.by:	Alloc.: VZE01

VARTA Microbattery GmbH, Daimlerstr.1, 73479 Ellwangen

Patent pending