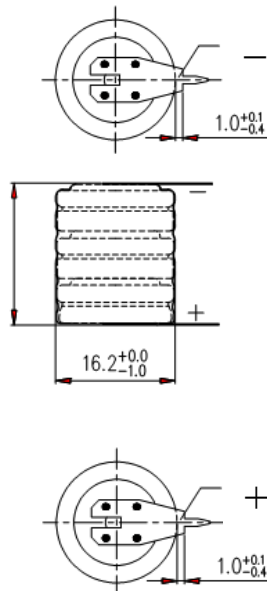


Data Sheet

Z3H80-2PLF

NiMH rechargeable battery (button cell, 2PLF-version for PCB-mounting)

Type:	Z3H80-2PLF
Technology:	Rechargeable Nickel Metal Hydride Battery
Nominal Voltage [V]:	3,6
Open Circuit Voltage *(OCV) [V]:	3,75; within 1~4h after standard charge
Nominal Capacity C [mAh] Standard Charge/Discharge:	80; IEC509: 1988 (4.2.1)
Typical Capacity C [mAh] Standard Charge/Discharge:	90
Weight, approximately [g]:	12
Dimensions [mm]:	



Temperature Ranges [°C]

Charge : 0 ~ +45 details see below ***

Discharge: -20 ~ +45

Storage: +20 ±10

Charging Methods

Standard Charge [mA]: 8 (0,1C) for 14-16h charge at +20±5°C
*** Charging temperature 0°C~+45°C.

Accelerated Charge [mA]: 16 (0,2C) for 8h charge at +20±5°C
*** Charging temperature +10°C~+45°C.

Trickle Charge [mA]: 2,4~4,0 Continuous Charge (0,03C~0,05C).
at*** 0°C~+45°C.

Discharging Methods

Standard Discharge [h]: ≥ 5; discharge at 0,2C (16mA) to a final voltage 3,0V at +20±5°C.

By maximum discharge current [min]: ≥80; discharge at 0,5C (40mA) to a final voltage of 2,7V at +20±5°C.

Discharge at 0±2°C [h]: ≥ 4; discharge at 0,2C (16mA) to a final voltage of 3,0V.

Overcharge [h]: ≥ 4,25; at +20±5°C, charge at 0,1C (8mA) for 28 days , rest for 1~4h, then discharge at 0,2C (16mA) to a final voltage of 3,0V.

Storage

Storage Temperature [°C]: +20±10

Storage Relative Humidity [%]: 65±20

State of Charge : Discharge at 0,2C (16mA) to final voltage of 3V, then store for 12 month.

Charge Retention [h]: ≥ 3,75; after standard charge, store for 28 days at +20±5°C, then discharge at 0,2C (16mA) to a final voltage of 3,0V.

Expected Lifetime : ≥ 500 cycles ; IEC 509: 1988 (4.4)

Max. Discharge Current continuous [mA]: 40

***OCV:** When battery open-circuit voltage is below 3,75V before first time application or after long time storage , the battery shall be charged at 0,1C (8mA) for 16h or at 0,2C (16mA) for 8 h and rested for 1~4h then discharged at 0,2C (16mA) to a final voltage of 3,0V. Recycle for 2~3 times, then charge the battery to restore capacity for using.