

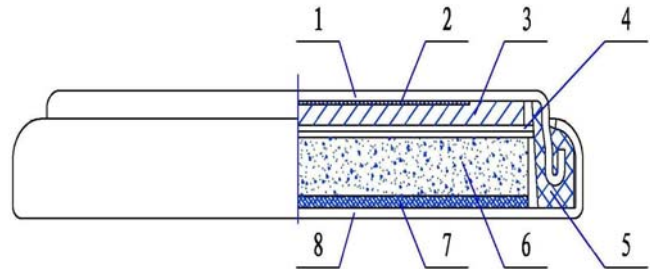
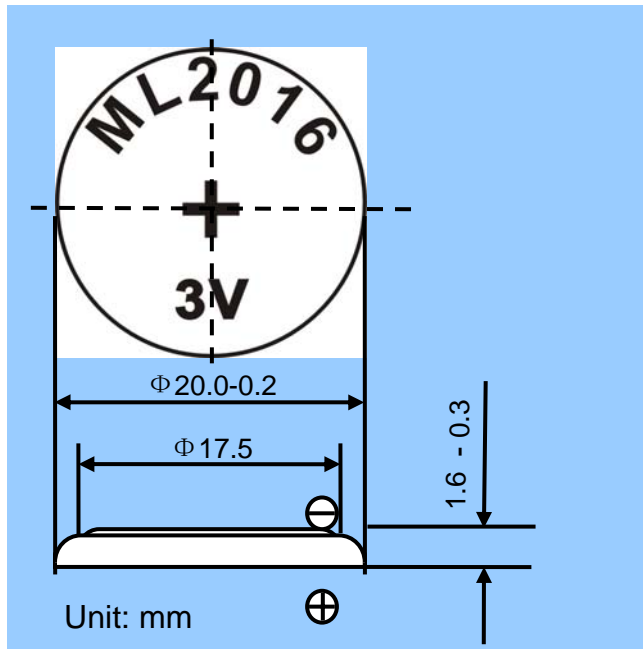
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ML2016 Lithium Manganese Rechargeable Button Cell

TECHNICAL DATA



1. Anode shell
2. Anode collector net
3. Anode (slice of lithium)
4. Separator
5. Gasket
6. Cathode(LixMnO₂)
7. Cathode collector net
8. Cathode shell

| ITEM | CHARACTERISTICS | NOTES |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Nominal voltage | 3.0V | No load |
| Nominal capacity | 30mAh | Under normal temperature, discharging at the rate of 0.2 mA to 2.0V. |
| Charge and discharge current | ≤ 0.2 mA | Normal temperature. |
| Cycle life | 200~300 | Discharge current 0.2mA, in the case of 10% discharge depth, can be recycled 200-300 times . |
| Charging voltage | 3.1 ~3.3 V | Small current charging |
| Open circuit voltage | ≥ 3.0 V | No load |
| Storage temperature | 20~25°C | RH: 50±10% |
| Standard weight | 1.7 g | Each cell |
| Dimension of shape | Diameter: 20.0(-0.2) mm Height: 1.6(-0.3) mm | Using the vernier caliper of the accuracy. |
| Self-discharge rate | $\leq 5\%$ | Stored for 12 months under the condition of normal temperature and humidity. |
| Appearance | Appearance is level, smooth and clear, no distortion, no rust | Eyeballing |
| Vibration test | Put the charger on the vibrator and use the 10-15 times per minute frequency to vibrate the charger for one hour, the charger performance is stable. | The charger performance is stable. |
| Falling test | Put the charger from 2m height to the floor by vertical direction and free direction, after 5 times, the charger performance is stable. | The charger performance is stable. |

TECHNICAL CHARACTERISTICS

1. The methods of testing

A: environment and temperature: 20~25°C; the environment humidity of 50±10%.

B: Charge at the rate of the constant current 0.2mA to 3.25V, changing it into the constant current for 60 minutes, keeping it still for 10 minutes; Discharge at the rate of the constant current 0.2mA to 2.0V.

2. Caution

- 4.1 Install and use the cells right, avoid short circuit and shun reversing anode and cathode.
- 4.2 Check the cell polarity and the equipment including its conjunction before installing, ensuring the cleanness and conductivity, the equipment should not cause short circuit.
- 4.3 Do not mix the new cells with the old ones, and not mix the different volume, brand, grade, type cells lest affecting characteristics and the possibility of leaking.
- 4.4 The cells should not be heated and collided after being used lest explosion, damage and liquid-leaking.
- 4.5 Don't use too high current to charge and discharge when using the cells, do not overcharge and discharge lest affecting the cycle life of the cells.
- 4.6 To avoid danger, don't put the cells into the fire disassemble the cells.
- 4.7 Taking care of the micro-cells well lest the infants swallow.
- 4.8 Pay attention to the storage expiry of the cells.

3. 【SPECIFICATIONS】

| | | |
|-----------------------------------------------|---------------------------------|------------------------------|
| Nominal Capacity | | 30 mAh |
| Nominal Voltage | | 3.0 V |
| Standard Charge/Discharge Current | | 0.2 mA |
| Charge/Discharge Cycle Characteristics | Discharging Depth of 10% | 300 times |
| | Discharging Depth of 20% | 100 times |
| Temperature Range | | -20~60 °C |
| Weight | | 1.7 g |
| Dimensions | Diameter | 20 mm |
| | Height | 1.6_{-0.3} mm |
| | d | 17.5 mm |