WAMA ELECTRONICS TECH CO.,LTD

1. **This specification applies to the following 3.0v lithium button cell CR927 made by WAMA ELECTRONICS TECH CO.,LTD.**

2. Battery Type and Performance
3.1 Type (IEC Designation): CR927
3.2 Nominal voltage : 3.0 volts
3.3 Nominal discharge capacity : 35mAh (Load: 30kΩ, End voltage:2.0V)
3.4 Outside dimensions : As per drawing attached
3.5 Standard weight : 0.8g
3.6 Guarantee : 3 year
3.7 Characteristics
3.7.1 Open circuit voltage : Will satisfy the figure in Table 1.
3.7.2 Service life : Ditto
3.7.3 Electrolyte leakage resistance: Ditto
3.7 Appearance :
Will be free from flaw, stain, deformation, uneven tone, electrolyte leakage and other defects which impair the value of the commodity.

1. Open circuit voltage
Initial 3. 3 to 3. 4 v
After 12 moths storage 3. 0 to 3. 2 v

2. Service life
Load resistance 30000 ohms
Discharge method 24 hours/day
End voltage 2..0 v
Minimum duration (Initial) 280 hours
Minimum duration (After 12 months storage) 250hours

3. Electrolyte leakage resistance
No electrolyte leakage will take place during a term of the test of
Item 1 to Item 2 in Table 1.

Initial test: A test commencing with one month after delivery.
Stored test: A test conducted after 12 moths storage under the specified conditions after delivery.

4. Test
4.1 Temperature and Humidity.
4.1.1 Measurement conditions
Unless otherwise specified, the measurement will be executed at temperature of 20±2℃ and at relative humidity of 65±20%.
4.1.2 Storage conditions
Unless otherwise specified, the storage conditions for sample batteries will be at the temperature of less than 25℃ and at relative humidity of less than 75%
The test after storage will be commenced within 1 month after storage.

4.2. Measuring instruments and devices
4.2.1 Voltage measurement will be carried out using the DC voltmeter, which can measure from OV to 4V. The precision of the voltmeter will be ±1mV or more precise and the input impedance will be more than 10MΩ.
4.2.2 Load resistance will include all the resistance of the external circuit and its tolerance will be within 0.5%..
4.2.3 Dimension measurement will be carried out using the caliper whose measuring range is from 0mm to 150mm and precision is 5/100mm or more precise.

4.3. Test method (Testing procedure)
4.3.1 Dimensions
Use the measuring instrument as specified in the Item 4.2.3.
4.3.2 Appearance
Examination will be carried out by visual inspection.
4.3.3 Open circuit voltage
Measure the voltage between both terminals using the voltmeter specified in the Item 4.2.1.
4.3.4 Service life
Leave the battery samples at the temperature of 20±5℃ for above 12 hours, and discharge them continuously through the discharge load specified in Table 1. Carry out the discharge test until the discharge voltage falls down to not less than the final voltage specified in Table 1, and the service life will be discharge time while the discharge voltage keeps above the specified final voltage.
4.3.5 Electrolyte leakage resistance
Check the state of the leakage by the naked eye 30 cm away from them under the light of the 40-watt fluorescent lamp one meter above.