

4. Test Condition

4-1 Test Condition	Unless otherwise specified the test shall be carried out at, Temperature : $25 \pm 5^{\circ}\text{C}$ Humidity : $65 \pm 10\% \text{RH}$
4-2 Test Timing	The test shall be started within a month from delivered day.
4-3 Measurement Instrument	
4-3-1 Voltage Meter	Input impedance : $\geq 10 \text{M}\Omega$
4-3-2 Battery Impedance Meter	Accuracy : $\leq 0.5\%$ Sine-wave AC method (1kHz, 0.1mA) (As a general, Agilent Technologies LCR Meter [4263B] is recommended.)
4-3-3 Caliper	Accuracy : $\leq 1\%$ by JIS
4-3-4 Balance	Sensitivity : $\leq 100 \text{mg}$

5. Measuring Method

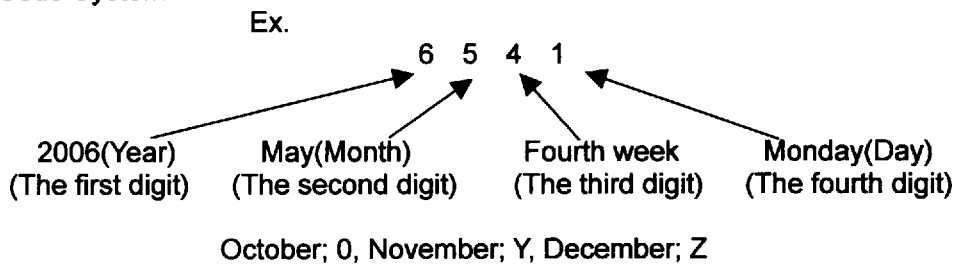
5-1 Dimensions	This shall be measured with the caliper described in item 4-3-3.
5-2 Mass	This shall be measured with the balance described in item 4-3-4.
5-3 Appearance	Deformation or tarnish shall be visually checked.
5-4 Characteristics	
5-4-1 Open Circuit Voltage	This shall be measured with the voltage meter described in item 4-3-1.
5-4-2 Impedance	This shall be measured with the impedance meter described in item 4-3-2.
5-4-3 Duration (Pulse cycles)	This shall be measured by pulse discharge method. The condition is Test temperature : $20 \pm 3^{\circ}\text{C}$ $-20 \pm 3^{\circ}\text{C}$ Pulse pattern : 0.9A 3secON \leftrightarrow 27secOFF End voltage : 1.55V ($20 \pm 3^{\circ}\text{C}$) 1.20V ($-20 \pm 3^{\circ}\text{C}$)
5-4-4 Vibration Test	This test shall be carried out by the following condition according to UN Manual of Test and Criteria, Part III, sub-section 38.3.4.5, Amplitude: 0.8mm Frequency: 7 \leftrightarrow 200Hz Directions: X, Y, Z Duration: 15 minutes, 12 times (each direction)
5-4-5 High Temperature Storage	The battery shall be stored at 60°C for 28 days. After the storage, the battery shall be kept in dry place at $25 \pm 5^{\circ}\text{C}$ during 4hours, then leakage and appearance shall be checked by naked eyes.

6. Indication

6.1 Below items are indicated on the battery or its package.
(Design of indication can be changed without notice.)

Model code	CR123A
Nominal voltage	3V
Manufacture or its brand	Panasonic
Production	Japan or U.S.A.

6.2 Date Code System



6.3 UL Standard

This battery is certificated by UL and listed on the file number MH12210.

6.4 Production Site

Matsushita Battery Industrial Co. (MBI)
1-1 Matsushita-cho, Moriguchi-city, Osaka, 570-8511, Japan

PANASONIC BATTERY CORPORATION OF AMERICA LITHIUM BATTERY DIV.(PBA-LD)
One Panasonic DR Columbus 31907/GA U.S.A.

7. Operations and Modification of This Specification

Modification must be carried out under mutual agreement.

Any Accidents caused by non-described items in this specification must be discussed and solved mutually.

8. Important Notes (Warranty)

1) The batteries are warranted to conform to the description contained in this Specification for a period of twelve [12] months from the ex-factory date and any claim by you (customer) must be made within such period.

During that warranty period, if the Batteries are proved to become defective, non-defective and conforming Batteries will be supplied in due course at sole expense of Matsushita Battery Industrial Co., Ltd. (MBI or PBA-LD) upon MBI(PBA-LD)'s own determination that this is apparently caused by negligence of MBI(PBA-LD).

Any further claims based on the delivery of defective Batteries shall be excluded. Such exclusion shall not affect the liability of MBI(PBA-LD) based on product liability for grossly negligence or intentional behavior of MBI(PBA-LD).

2) Confirmation of the matching and reliability of Batteries into your actual sets or units is your own responsibility.