



### 1. Application Range

This specification applies to Manganese dioxide lithium batteries manufactured by Matsushita Battery Industrial Co., Ltd (MBI).

### 2. Nominal Specification

2-1 Model Number	CR-123PE/BE (Bare cell: CR123A)
2-2 Nominal Voltage	3V
2-3 Nominal Capacity	1,400mAh (Nominal capacity is based on the standard discharge current and cut-off voltage 1.8V at 20°C.)
2-4 Standard Discharge Current	20mA
2-5 Maximum Continuous Discharge Current	1000mA at 20°C
2-6 Dimensions	See attached drawing
2-7 Mass	Approximately 17g
2-8 Appearance	No noticeable deformation
2-9 Temperature	Operation -20 to +60°C Storage -20 to +45°C (Note: Contact Panasonic in case continuous high-temperature over +60°C usage conditions.)
2-10 Recommendable Storage Condition	Temperature: 5°C to 35°C Humidity: Less than 70%RH
2-11 Battery Composition	Lithium primary battery composed of cathode from Manganese dioxide, anode from lithium, and electrolyte from organic solvent and lithium salt.

### 3. Characteristics

3-1 Open Circuit Voltage	
3-1-1 Initial	Between 3.0 and 3.5V (The measuring method described in item 5-4-1.)
3-1-2 After 1 year (at 25±5°C)	Between 3.0 and 3.5V (The measuring method described in item 5-4-1.)
3-2 Impedance	
3-2-1 Initial	Between 0.1 and 1.0Ω (The measuring method described in item 5-4-2.)
3-1-2 After 1 year (at 25±5°C)	Between 0.1 and 1.0Ω (The measuring method described in item 5-4-2.)
3-3 Duration(Pulse cycles)	
3-3-1 Initial	1500cycles MIN. (20±3°C) 700cycles MIN. (-20±3°C) (The measuring method described in item 5-4-3.)
3-3-2 After 1 year (at 25±5°C)	1500cycles MIN. (20±3°C) 700cycles MIN. (-20±3°C) (The measuring method described in item 5-4-3.)
3-4 Vibration Resistance	Deterioration of performance (3-1) shall not occur after the test described in item 5-4-4.
3-5 High Temperature Storage	The battery shall not show leakage or salting after the high temperature storage described in item 5-4-5.