

L1131

TECHNICAL SPECIFICATION FOR ALKALINE MANGANESE DIOXIDE BUTTON CELL

AS USED IN BLR121 ALKALINE BATTERY

Approved

Date: 01 MAR 2010

SPEC. NO. : TD-SAS01-AG10-001

The Manufacturer reserves the right to modify product specification and data stated herein without prior notice.

1. Cross Reference :

IEC	JAPAN	Ray-O-Vac	U.S.A SWITZERLAND	GERMANY	H.K PRODUCTS
LR54	LR1130	RW39	390	V390	AG10

2. Chemical System : Zinc-Manganese Dioxide (Potassium Hydroxide Electrolyte)

3. Nominal Voltage : 1.50V

4. Standard Capacity : 75mAh (continuously discharge at 20±2°C under 15kΩ load to 0.9V end-point voltage)

5. Approximate Weight : 1.10g

6. Dimensions & Structure : Dimensions & structure of the cell are shown in the attached Fig. 1.

7. Terminal Materials :
 Negative : Ni/ST/Cu clad
 Positive : Ni plated steel

8. Characteristics : Characteristics of the cell are shown in the following table.

Items	Storage	Characteristics	Conditions
8.1 Electric Characteristics			
Open-Circuit Voltage	Initial	≥ 1.500V	DC Voltmeter : The tolerance is ±0.005V and the input resistance is 1MΩ or more.
	After 12 months	≥ 1.490V	
Closed-Circuit Voltage	Initial	≥ 1.490V	DC Voltmeter : Same as above. Load Resistance : 15kΩ, 0.8Sec.
	After 12 months	≥ 1.480V	
8.2 Service Output			
Service Life 15kΩ Continuous Discharge	Initial	940hrs or longer	Discharge Resistance : 15kΩ End-Point Voltage : 0.9V
	After 12 months	846hrs or longer	
8.3 Observation after discharged to End-Point Voltage			
Observation after discharged to End-Point Voltage: 0.9V	There are no bulging or deformation of cells in excess of maximum dimensions shown in attached Fig. 1 by 0.2mm or more. There are no visible electrolyte leakage.		Temperature : 20±2°C Humidity : (65±20)%RH Observation Time : 48hrs (Observe after having reached specified end-point voltage)

9. Discharge Curve :

Load Resistance : 15kΩ

End-Point Voltage : 0.9V

Voltage (V)

Discharge Time (hrs) 630 840 (小时) 1050

- 10. Markings on Product :**
- (1) Battery Type : L1131 / AG10
 - (2) Brand : NEUTRAL
 - (3) Polarity : "+" at the bottom ("--" not indicated)
 - (4) Other specified markings

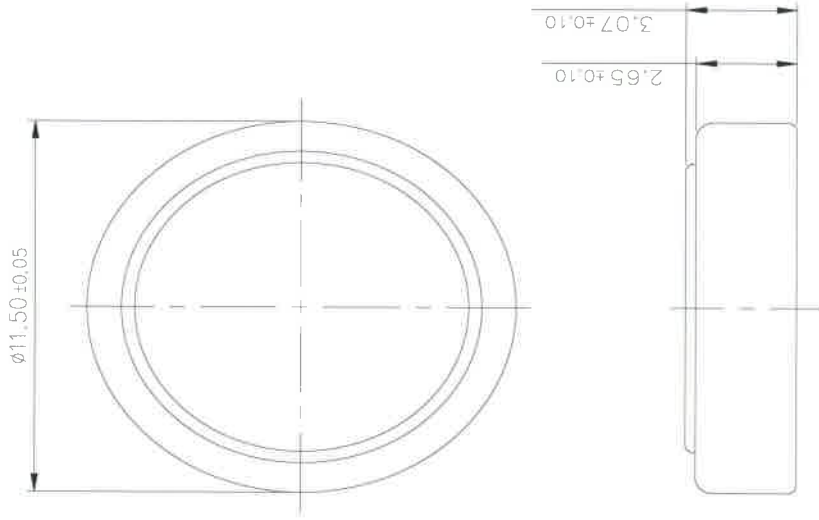
- 11. Caution for Use :**
- (1) Since the button cell is not manufactured for recharging, there are risks of electrolyte leakage or causing damage to the device if the cell is charged.
 - (2) The button cell shall be installed with its "+" and "--" sign according to the instruction shown on the applied device.
 - (3) Short-circuiting, heating, disposing of in fire, or disassembling the button cell shall be prohibited.

12. Warranty : 12 months shelf life after delivery.

- 1) Storage Conditions: Temperature 20±2°C, Relative humidity: 65±20% RH
- 2) 90% of the capacity will be maintained after 1 year storage

AG10 DIMENSIONS & STRUCTURE

Dimensions (in mm) :



Structure :

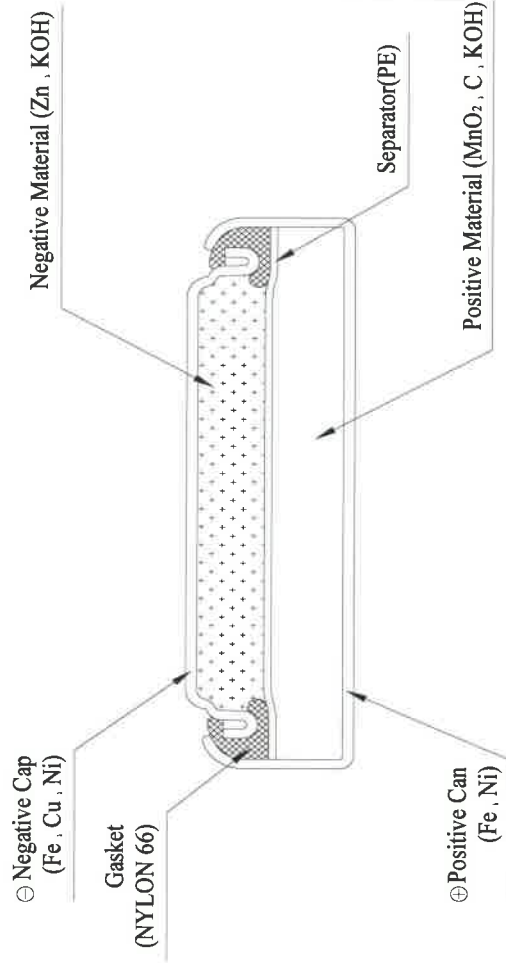


Fig. 1