

## SHENZHEN M&LAK INDUSTRY CO., LTD. QUALITY APPROVAL STANDARD

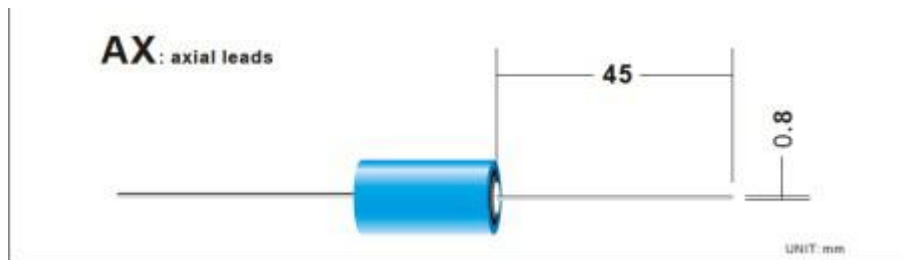
### **1.Model: ER14250AX**

#### **2.Specification**

- |                                    |   |
|------------------------------------|---|
| 1) Nominal voltage:                | 3.6V  |
| 2) Nominal capacity:               | 1200mAh(0.5mA / 2.0V)                           |
| 3) Nominal discharge current:      | 3mA(1.1k $\Omega$ )                             |
| 4) Rapid discharge:                | 10mA(330 $\Omega$ )                             |
| 5) Discharge end-voltage:          | 2.0V  |
| 6) Operating voltage:              | 3.3V(330 $\Omega$ , in 5s)                      |
| 7) Max constant discharge current: | 50mA  |
| 8) Max. pulse current:             | 100mA   |
| 9) Ambient temperature range:      | -55~ +85 $^{\circ}$ C                           |
| 10) Storage life:                  | $\geq$ 10 year, Yearly self-discharge $\leq$ 1% |

#### **3. Appearance & Dimension/Weight**

- |                    |                              |
|--------------------|------------------------------|
| 1) Appearance:     | cylinder shape               |
| 2) Max dimension : | $\phi$ 14.5 $\times$ h25.0mm |
| 3) Max weight:     | 11g                          |



#### **4. Performance Testing**

Unless otherwise request , all tests are carried out in ambient temperature 20 $\pm$ 5 $^{\circ}$ C.

Tests should be made within 45 days after receipt of the batteries.

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Item	Measuring Procedure	Standard
1.Appearance	Visual check	Clean, unscratched and clearly labeled
2.Dimensions	Measured by calipers with precision of 0.02mm	$\phi 14.5 \times 25.0$ mm max
3.Weight	Weighed by balance with precision of 0.1g	11g max
4.Open-circuit voltage	Measure by volt-meter with precision of 0.01V	$\geq 3.65$ V
5.Operating voltage	Measure by volt-meter with precision of 0.01V, connecting an impedance of 1200 $\Omega$ in series, Reaching the target voltage in 5 seconds.	$\geq 3.30$ V
6.Nominal discharge	1.1K $\Omega$ , $20 \pm 2$ $^{\circ}$ C , Constant discharge to 2.0V.	$\geq 900$ mAh
7.Rapid discharge	330 $\Omega$ , $20 \pm 2$ $^{\circ}$ C , Constant discharge to 2.0V..	$\geq 700$ mAh
8. Discharge at high temperature	Put battery in constant ambient temperature of $55 \pm 2$ $^{\circ}$ C for 16 hours, discharge at 1.1K $\Omega$ to 2.0V/cell..	$\geq 950$ mAh
9.Discharge at low temperature	Put battery in constant ambient temperature of $-40 \pm 2$ $^{\circ}$ C for 16 hours, discharge at 1.1K $\Omega$ to 2.0V/cell	$\geq 450$ mAh
10.Charge	Prohibited	Prohibited
11.Over-discharge	Prohibited	Prohibited
12.Self discharge	Store the batteries at constant temperature of $20 \pm 5$ $^{\circ}$ C , Measure the nominal capacity yearly for 10 years.	$\leq 1$ %

**Examination procedure & standard**

Unless otherwise request , all tests are carried out in ambient temperature  $20 \pm 5$   $^{\circ}$ C. Tests should be made within 45 days after receipt of the batteries.