

## Primary lithium batteries ER13150 3.6V 450mAh

**3.6V Primary lithium-thionyl chloride  
(Li-SOCl<sub>2</sub>) Energy type  
bobbin cell**

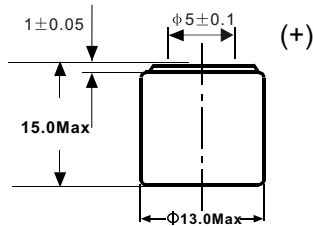
For **low drain / long term operating** applications requesting superior voltage response in -55°C ~+85°C environments.

### Cell size references

### Alternative models

|   |   |                                   |
|---|---|-----------------------------------|
| Electrical characteristics<br>(typical values relative to cells stored for one year or less at +30°C max.)  |   |                                   |
| Nominal capacity<br>(at 0.5 mA +20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).   |   | 0.45Ah                            |
| Open circuit voltage (at +20°C)   |   | 3.66V                             |
| Nominal voltage (at 0.5mA +20°C)  |   | 3.6V                              |
| Pulse capability: Typically up to 20 mA (30 mA/0.1 second pulses, drained every 2 mn at +20°C from undischarged cells with 10 μA base current, yield voltage readings above 3.0V. The readings may vary according to the pulse characteristics, the temperature, and the cell' s previous history. Fitting the cell with a capacitor may be recommended in severe conditions. Consult ABLE) |   |                                   |
| Max. Continuous current   |   | 10mA                              |
| Max. Pulse current  |   | 20mA                              |
| Storage (recommended)<br>(for more severe conditions, consult ABLE)   |   | +30°C (+86°F) max                 |
| Operating temperature range<br>(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult ABLE)   |   | -55°C / +85°C<br>(-76°F / +185°F) |
| Physical characteristics  |   |                                   |
| Diameter (max)  |   | 13mm(0.45 in)                     |
| Height (max)  |   | 15mm(0.6 in)                      |
| Typical weight  |   | 5.5g(0.18oz)                      |
| Available termination suffix  | radial tabs, radial pins, axial leads, flying leads |                                   |

# ER13150 3.6V 450mAh



Unit : mm

### Key features

- ▶ High and stable operating voltage
- ▶ Superior drain capability
- ▶ Low self-discharge rate (less than 1% after 1 year of storage at +20°C)
- ▶ Optional stainless steel container for low magnetic and nickel plated steel container for more safe design
- ▶ Hermetic glass-to-metal sealing
- ▶ Notch technology for safety vent is recommended
- ▶ Non-flammable electrolyte

### Main applications

- ▶ Radiocommunication and other military applications
- ▶ Alarms and security systems
- ▶ Beacons and emergency location transmitters
- ▶ GPS
- ▶ Metering systems
- ▶ Sonobuoys
- ▶ LED lighting applications
- ▶ Others

### Storage

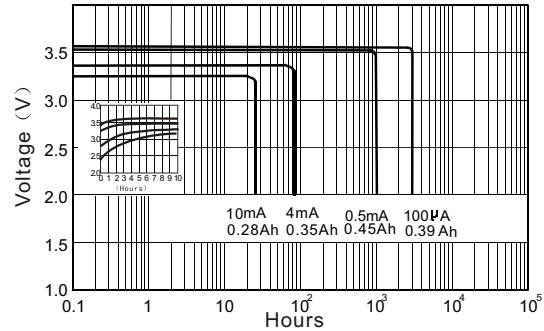
- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

### Warning

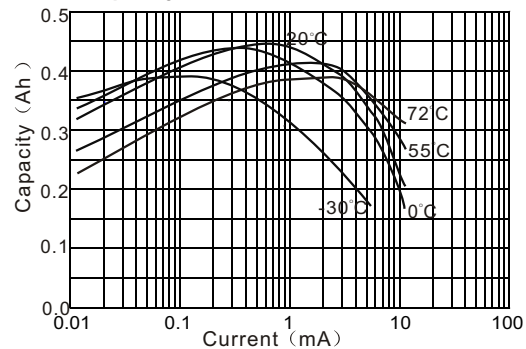
- ▶ Do not use if the battery casing was mangled.
- ▶ Please discharge the battery few minutes with 100mA, if the battery voltage is lower than your need or consult ABLE.
- ▶ Don't use different models of battery in series.
- ▶ Soldering the tag should be finished in few seconds.
- ▶ Do not try to recharge.

## Characteristic curves

### Discharge performance (25°C)



### Capacity VS Current



### Voltage VS Temperature

