Electrical characteristics
(Stored for one year or less)

- **Nominal Capacity**: 450 mAh (0.5 mA to 2.0V, at 25°C)
- **Nominal voltage**: 3.6V
- **Max continuous discharge current**: 10 mA
- **Max. Pulse current**: 30 mA
  - Current value is obtaining 2.0V cell voltage when pulse is applied for 15 seconds at 50% discharge depth at 25°C
- **Storage temperature**: 20°C ~ 30°C
- **Operating temperature**: -55°C ~ 85°C
- **Weight (approx)**: 6g

**WARNING**: Fire, explosion and severe burn hazard. Do not recharge, crush disassemble heat above 100°C, incinerate or expose contents to water.

**Key features**
- High and stable operating voltage
- Low self-discharge rate
  - Less than 1% after 1 year of storage at 20°C
- Stainless steel container
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 86-4 safety standard
- Non-restricted for transport
- UL Component Recognition
  - File Number MH45782

**Main applications**
- TPMS
- Alarms and security system
- Memory back-up
- Tracking system
- Automotive electronics
- Professional electronics
- Computer real-time clocks
**LITHIUM BATTERIES**

**SPECIFICATIONS**

**LITHIUM BATTERIES**

**ER13150**

lithium-thionyl chloride batteries

**Typical discharge at 25°C**

![Graph of Voltage platea u versus Current and Temperature]

- Voltage (V)
  - 4.0
  - 3.5
  - 3.0
  - 2.5
  - 2.0
  - 1.5
  - 1.0

- Current (mA)
  - 0.1
  - 1
  - 10
  - 10^2
  - 10^3
  - 10^4
  - 10^5

- Time (Hour)
  - 0.1
  - 1
  - 10
  - 10^2
  - 10^3
  - 10^4
  - 10^5

**Voltage plateau versus Current and Temperature**

- Voltage (V)
  - 4.0
  - 3.5
  - 3.0
  - 2.5
  - 2.0
  - 1.5
  - 1.0

- Current (mA)
  - 0.01
  - 0.1
  - 1
  - 10

- Temperature
  - 20°C
  - -40°C

**Capacity versus Current and Temperature**

- Capacity (Ah)
  - 0.5
  - 0.4
  - 0.3
  - 0.2
  - 0.1
  - 0.0

- Current (mA)
  - 0.1
  - 1
  - 10
  - 100

- Temperature
  - 20°C
  - -40°C

**Available Terminations**

- /P Axial Pin
- /T /PT2 Radial Pin
- /PT /TP Polarized Tab

**Unit: mm**

**Guangzhou Markyn Battery Co., Ltd.**

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