MODEL ER14250
Lithium Thionyl Chloride
(Li-SOCl₂) Battery
(International size reference: 1/2AA, ER14250)

**ELECTRICAL CHARACTERISTICS**
(typical values for cells stored for one year or less, at 25°C)

- **Nominal capacity** 1.20Ah
  (at 1.0 mA, +25°C, 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off voltage.)

- **Rated voltage** 3.6 V

- **Maximum recommended continuous current** 40 mA
  (to get 50% of the nominal capacity at +25°C with 2.0V cut off. Higher currents possible. Consult Omnicel.)

- **Pulse capability**: varies according to pulse characteristics (frequency and duration), temperature, cell history (storage conditions prior to usage) and the application's acceptable minimum voltage.

- **Maximum pulse current capability** 100 mA
- **Rated 1 sec. pulse capability (to 3V)** 20 mA

- **Storage**
  - recommended: 30°C max
  - possible without leakage: -55° / +120°C

- **Operating temperature range** -55° / +85°C
  (Operation at temperature different from ambient may lead to reduced capacity and lower voltage plateau readings.)

**WARNING:**
Fire, explosion and severe burn hazard. Do not recharge, crush, disassemble, heat above 212°F (100°C), incinerate, or expose contents to water.

**KEY FEATURES**

- High and stable operating voltage
- High minimum voltage during pulsing
- Low self discharge rate (less than 1% after 1 year of storage at +25°C)
- Stainless steel container
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety
- Non restricted for transport

Underwriters Laboratories (UL) Component Recognition (File Number MH 47566)

**MAIN APPLICATIONS**

- Utility metering
- Alarms and security devices
- Memory back-up
- Tracking systems
- Tollgate systems
- Automotive electronics
- Professional electronics
- etc.

Note: Any representations in this data sheet concerning performance are for informational purpose only and are not construed as warranties, either expressed or implied, of future performance.
**DISCHARGE CHARACTERISTICS @ +25°C**

- Voltage vs. Temperature
- Capacity vs. Current

**ER14250**

**AVAILABLE TERMINATIONS**
- Suffix-/-S Standard
- Suffix-/-T Solder Tabs
- Suffix-/-P Axial Pins
- Suffix-/-2PT Polarized Tabs
- Suffix-/-3PT Polarized Tabs
- Suffix-/-3FP Polarized Tabs
- Suffix-/-3PF Polarized Tabs
- Suffix-/-4PF Polarized Tabs

**PHYSICAL CHARACTERISTICS**
- Diameter (max) 14.5 mm (0.571”)
- Height (max) 25.4 mm (0.992”)
- Typical weight 10 g (0.353oz)

**PULSE DISCHARGE CHARACTERISTICS**
- Pulse discharge: 60mA (Activated) Temperature: 25°C

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**Physical Characteristics**
- Diameter (max) 14.5 mm (0.571”)
- Height (max) 25.4 mm (0.992”)
- Typical weight 10 g (0.353oz)

**Available Terminations**
- Suffix-/-S Standard
- Suffix-/-T Solder Tabs
- Suffix-/-P Axial Pins
- Suffix-/-2PT Polarized Tabs
- Suffix-/-3PT Polarized Tabs
- Suffix-/-3FP Polarized Tabs
- Suffix-/-3PF Polarized Tabs
- Suffix-/-4PF Polarized Tabs

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**OmniCel**

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Latest version can be downloaded from the OmniCel website