

UHR-ER14505-X: AA size spiral cell (Generation X)

Technical Datasheet



Technical Specifications	
Part No	UHR-ER14505-X
Model No	ER14505M-X
Cell Type	Primary, non-rechargeable
Chemistry	Lithium Thionyl Chloride
Equivalent Models	LSX14500/TL2100/SW-AA02
Voltage CCV	3.4 to 3.0V depending on mA load and temperature
Open Circuit Voltage	3.65V
Nominal Capacity at 1mA	2000mAh to 2.0V @ 23°C
Capacity Range	1400 - 2000mAh 0–60°C temperature and rate dependent
Max. Constant Discharge Current	212mA
Pulse Capability ¹	Up to 800mA, 1.0 second pulse
Weight	19g
Lithium Metal Content	0.589g
Operating Temperature ²	-55°C to 85°C ³
Case Expansion at Maximum Temperature	At 85°C, fully discharged, max. 1.0mm case expansion maximum
Storage Temperature	30°C max., store at ≤ 20°C to minimize passivation and self-discharge
Exterior/Housing	304 stainless steel
Terminals/Connector	Button cap, radial tabs, radial pins, axial leads, flying leads, wire. Custom termination available
Protection	PTC anti-short-circuit device
Safety	UL 1642 - pending UN 38.3 (transportation)
Transportation	Excepted Dangerous Goods UN 3091: Packed with or contained in equipment Air Shipment: Packing Instruction 969 and 970, Section I Class 9 Dangerous Goods UN 3090: Bulk shipment Air shipment: Packing Instruction 968, Section IB

Features

- High and stable operating voltage
- Superior current capability
- Low self-discharge rate (less than 2% after 1 year of storage at 23°C)
- Hermetic glass-to-metal seal
- Non-flammable, non-heavy metal electrolyte
- Internal PTC for safety
- Laser welded can seal

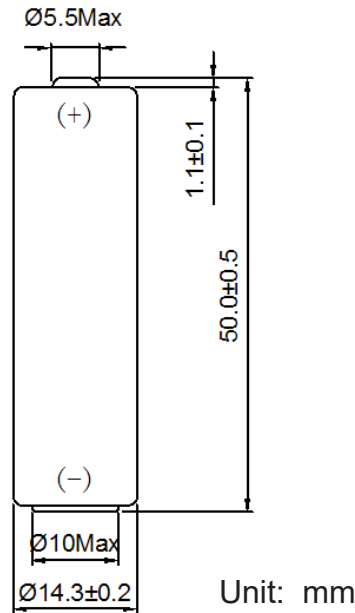
Applications

- Utility metering
- Radio communication and other military applications
- Alarms and security systems
- Transmitters
- GPS
- LED lighting applications
- Pulse discharge
- Sensors

Note(s)

1. Varies according to pulse characteristics, temperature, cell history and the application. Consult Ultralife for exact performance under your pulse load.
2. Operation at extreme ranges (temperature or current) may lead to reduced capacity and lower voltage readings at beginning of pulses. Consult with Ultralife for your application.
3. Exceeding the maximum temperature rating of 85°C may cause cell leaks, excessive expansion of case hardware, and / or decomposition of case shrink wrap.

Dimensions



Performance Graphs

