ULTRALIFE
BATTERY & ENERGY PRODUCTS

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

Technical Datasheet

HiRate™

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
- Finished product with 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

Replacement For

- LSX14500
- TL2100
- SW-AA02

Technical Specifications	
Part No	UHR-ER14505-X
Model No	ER14505M-X
Cell Type	Primary, non-rechargeable
Chemistry	Lithium Thionyl Chloride
Voltage CCV	3.4 to 3.0V (temperature and load dependent)
Open Circuit Voltage	3.65V
Nominal Capacity at 1mA	2000mAh to 2.0V @ +23°C
Capacity Range	1400 - 2000mAh 0–60°C (temperature and load dependent)
Max. Constant Discharge Current	212mA
Pulse Capability[1]	Up to 800mA, 1.0 second pulse
Weight	19g
Lithium Metal Content	0.59g
Operating Temperature[2]	-55°C to +85°C[3]
Storage Temperature	+30°C max., store at ≤ 20ºC 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 UN 38.3 (transportation) (technician replaceable)
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

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.

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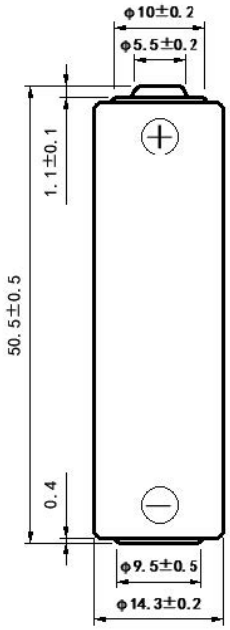
Dimensions



Unit:mm

Performance Graphs