ULTRALIFE
BATTERY & ENERGY PRODUCTS

UHE-ER14250-X: 1/2AA size bobbin cell (Generation X)

Technical Datasheet

Features

- High and stable operating voltage
- Superior drain capability
- Low self-discharge rate (less than 2% after 1 year of storage at +23°C)
- Hermetic glass-to-metal seal
- Non-flammable electrolyte
- +85°C & 85%RH 100h no leak

Applications

- Utility metering
- Electronic toll collection
- Radio communication and other military applications
- Alarms and security systems
- Transmitters
- GPS
- LED lighting applications

Replacement For

- LS14250
- TTL-5902
- TL4902
- TLH-5902

Technical Specifications	
Part No	UHE-ER14250-X
Model No	ER14250-X
Cell Type	Primary, non-rechargeable
Chemistry	Lithium Thionyl Chloride
Voltage Range	2.0 to 3.7V
Nominal Voltage	3.6V
Nominal Capacity at 0.5mA	1,200mAh to 2.0V @ +23°C
Capacity Range	700-1,200mAh 0–60°C (temperature and load dependent)
Max. Constant Discharge Current	50mA
Max. Pulse Discharge Current[1]	Up to 100mA
Energy Rating	4.32Wh
Gravimetric Energy Density	432Wh/kg
Weight	10g
Lithium Metal Content	0.66g
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	Stainless steel
Terminals/Connector	Radial tabs, radial pins, axial leads, flying leads. Stainless steel end caps with other terminals.
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
Quality Assurance	Ultralife manufacturing facilities are ISO 9001:2015 and ISO 13485:2016 registered. Its products are listed under the Component Recognition Program of Underwriters Laboratories (UL) and have passed UN transportation testing, which is required for international transportation of all lithium batteries.

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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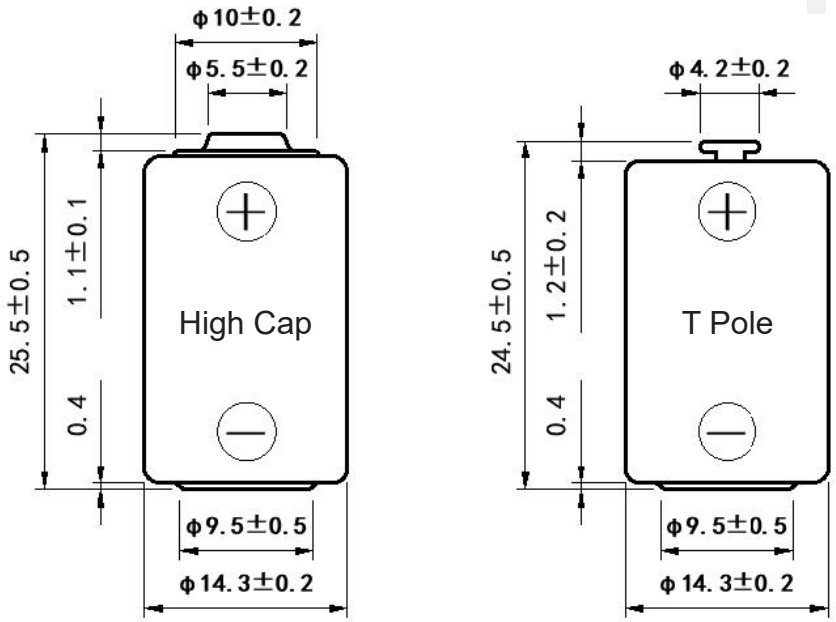
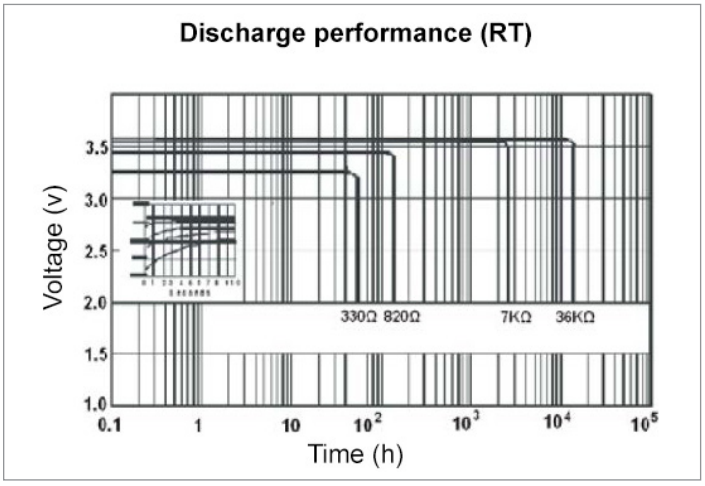
Dimensions

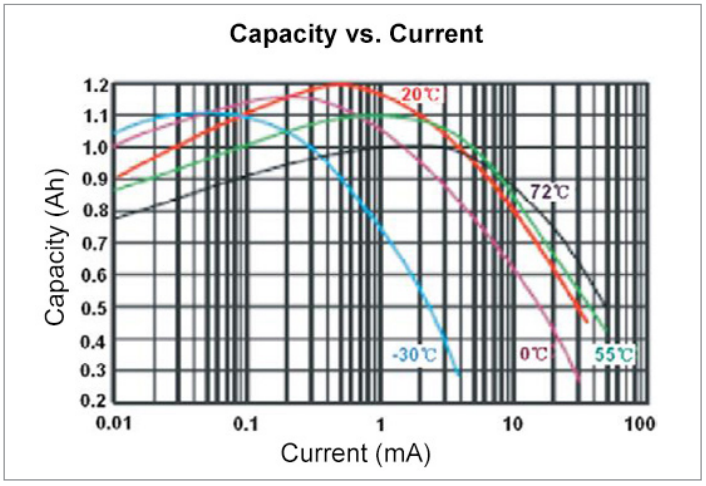


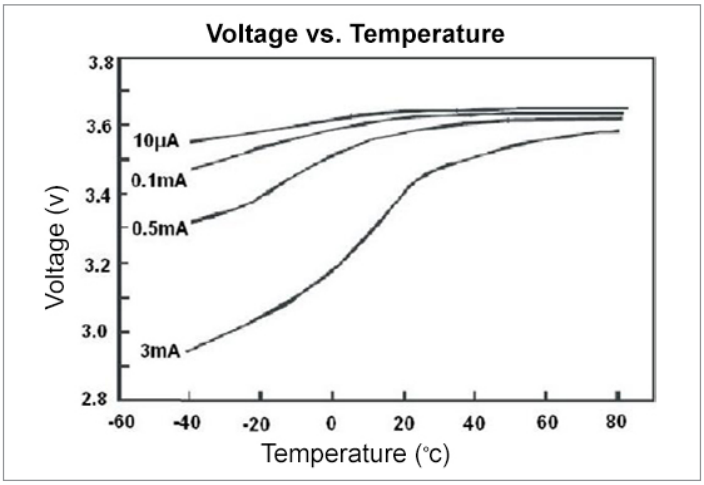
* Dimensions for reference, for details please refer to the specific drawings.
* T Pole is for use in gas metering.

Unit: mm

Performance Graphs







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