

CP403838: Thin Cell

Technical Datasheet



Technical Specifications

Part No	CP403838 (previously known as U10004)	
Cell Type	Primary, non-rechargeable	
Chemistry	Lithium Manganese Dioxide	
Voltage Range	1.5V to 3.3V	
Nominal Voltage	3.0V	
Typical Capacity ¹	1600mAh	
Max. Continuous Discharge	125mA	
Max. Pulse Discharge	Up to 250mA (life and temperature dependent)	
Energy Rating	4800mWh	
Energy Density		
Gravimetric	320Wh/kg	
Volumetric	1294Wh/L	
Weight	15.0g	
Operating Temperature	-20°C to +60°C	
Storage Temperature ²	-40°C to +60°C	
Exterior/Housing	Laminated aluminium foil	
Terminals/Connector	Ni-stainless steel tabs (Ni-Ni optional)	
Size (maximums)	Length:	44.5mm
	Width:	48.0mm
	Height:	4.4mm
Certifications	UL 1642 UN 38.3	
Safety	AL/MSDS-RD-004	
Transportation ³	Dangerous Goods Class 9: Miscellaneous UN3090 Air shipment: Packing Instruction 968, Section IB	
	Ultralife manufacturing facilities are ISO 9001:2008 and ISO 14001:2004 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.	
Quality Assurance		

Notes

- Discharged using 10mA to 1.5V @ +23°C.
- For a >5 years life, storage should not exceed +30°C.
- For shipments by air that are no more than 8 cells and 1 package, this cell is Excepted Dangerous Goods and can be shipped under Packing Instruction 968, Section II.

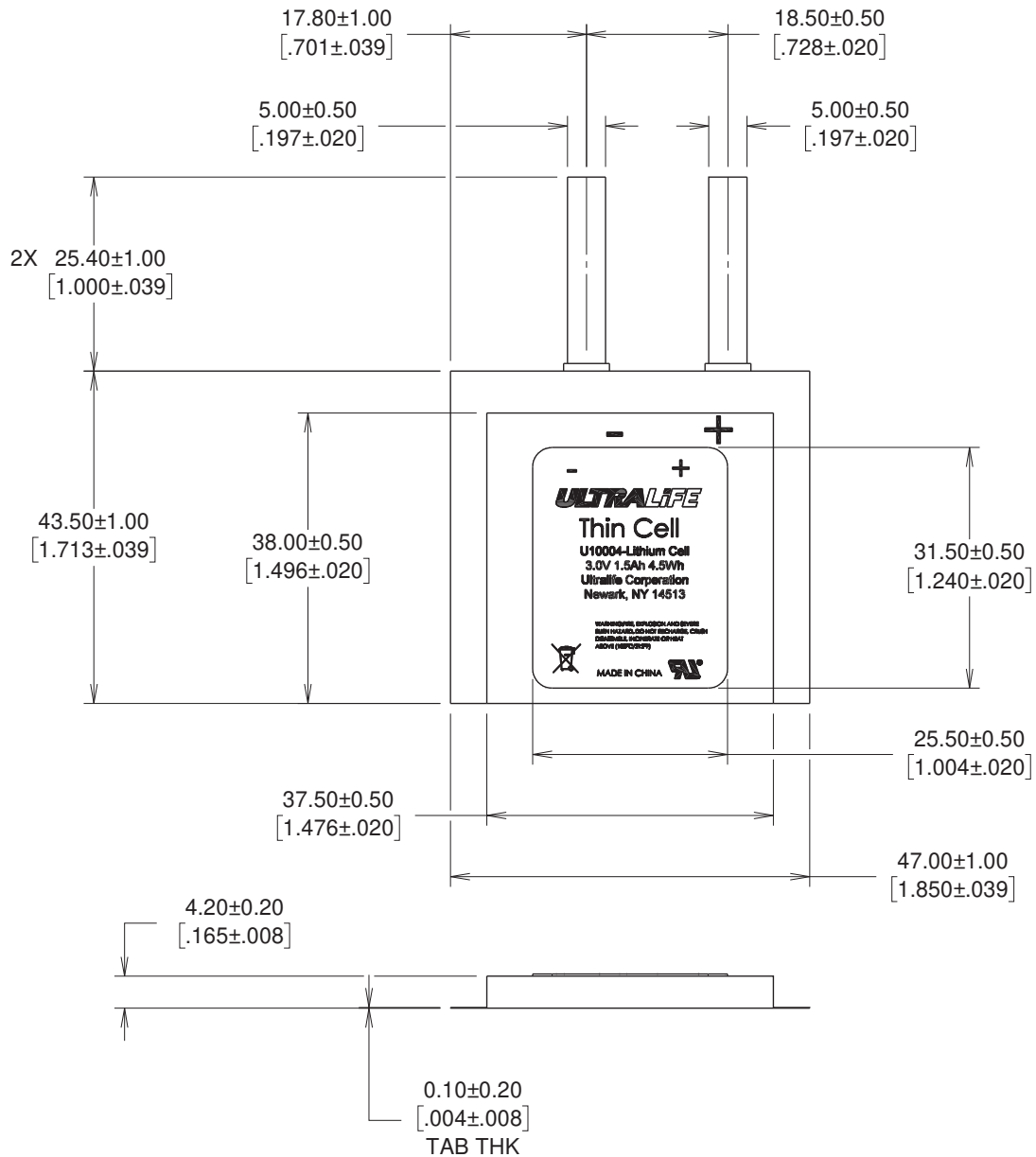
Features

- Flat discharge curve
- High power and higher energy for the whole battery life
- Long shelf life
- Low self-discharge rate (less than 2% after 1 year of storage at +20°C)
- High energy density
- Wide operating temperature range
- Lightweight

Applications

- "Smart" security cards
- Asset tracking tags
- Toll pass tags
- Bank theft tracking systems
- Electronics record tracking systems
- Medical devices
- RFID

Dimensions



Performance Graphs

