

CP502537: Thin Cell®

Technical Datasheet



Technical Specifications

Part No	CP502537	
Cell Type	Primary, non-rechargeable	
Chemistry	Lithium Manganese Dioxide	
Voltage Range	1.5V to 3.3V	
Nominal Voltage	3.0V	
Typical Capacity at 10mA	1200mAh to 1.5V @ +23°C	
Max. Continuous Discharge	150mA	
Max. Pulse Discharge ¹	Up to 300mA (life and temperature dependent)	
Energy Rating	3600mWh	
Energy Density		
Gravimetric	378Wh/Kg	
Volumetric	640Wh/L	
Weight	9.0g	
Lithium Metal Content	0.47g	
Operating Temperature	-20°C to +60°C	
Storage Temperature ²	-40°C to +60°C	
Humidity	65±20%RH	
Exterior/Housing	Laminated aluminium foil	
Terminals/Connector	Ni-stainless steel tabs (Ni-Ni optional)	
Size (maximums)	Length:	43.0mm
	Width:	25.0mm
	Height:	5.2mm
Certifications	UL 1642 UN 38.3 IEC 60086-4	
Safety	AL/MSDS-RD-004	
Transportation	UN 3090 Dangerous Goods Class 9, Lithium Content >0.3g, <1.0g If packed in or with equipment (UN 3091), contact Ultralife for guidance or other questions. UN Testing Summary- UNTS-0064	
Quality Assurance	Ultralife manufacturing facilities are ISO 9001 and ISO 13485 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.	

Notes

- Varies according to pulse characteristics, temperature, cell history and the application. Consult with Ultralife.
- For a >5 years life, storage should not exceed +30°C.

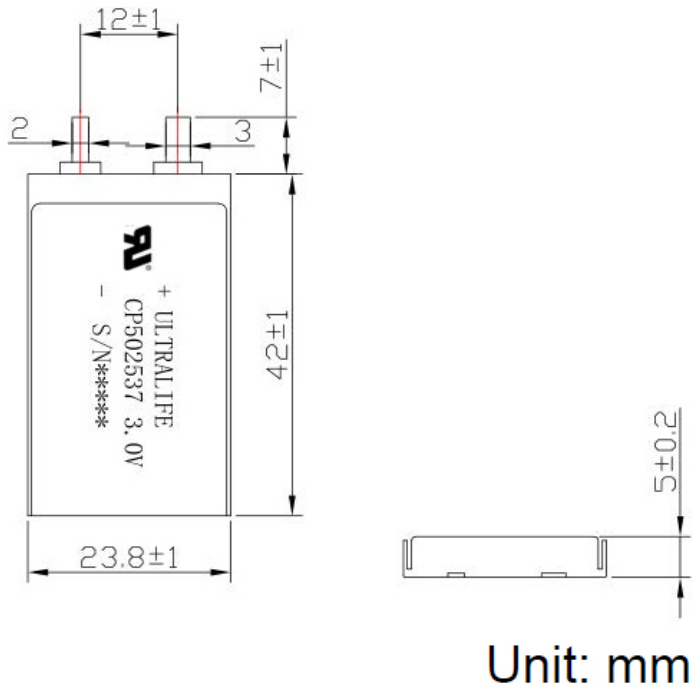
Features

- Flat discharge curve
- High power and higher energy for the whole battery life
- Shelf life > 10 years
- Low self-discharge rate (less than 1% after 1 year of storage at +20°C)
- High energy density
- Wide operating temperature range
- Lightweight

Applications

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

Dimensions



Performance Graphs

