

CP502520: Thin Cell®

Technical Datasheet



Technical Specifications	
Part No	CP502520
Cell Type	Primary, non-rechargeable
Chemistry	Lithium Manganese Dioxide
Voltage Range	1.5V to 3.3V
Nominal Voltage	3.0V
Typical Capacity at 10mA	600mAh to 1.5V @ +23°C
Max. Continuous Discharge	75mA
Max. Pulse Discharge	Up to 300mA (life and temperature dependent)
Energy Rating	1800mWh
Energy Density	
Gravimetric	400Wh/kg
Volumetric	1258Wh/L
Weight	4.5g
Lithium Metal Content	0.18g
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: 26.0mm Width: 25.0mm Height: 5.2mm
Certifications	UL 1642 UN 38.3
Safety	AL/MSDS-RD-006
Transportation	UN 3090 Dangerous Goods Class 9, Lithium Content <0.3g If packed in or with equipment (UN 3091), contact Ultralife for guidance or other questions. UN Testing Summary- RZUN2016-3731-TS CP502520
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.

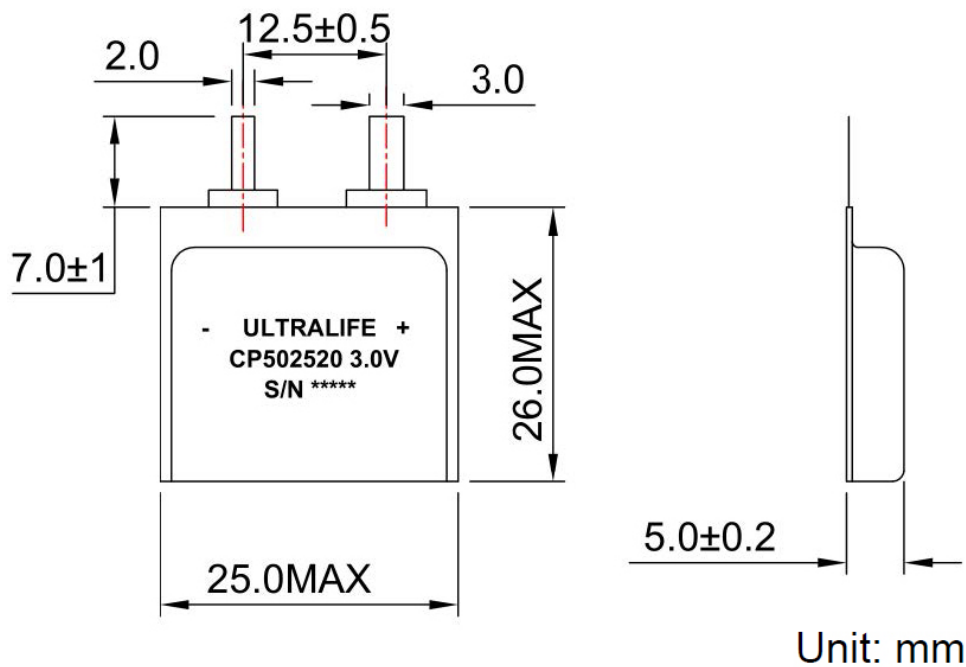
Features

- 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

