

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 ¹	600mAh
Max. Continuous Discharge	75mA
Max. Pulse Discharge	Up to 300mA (life and temperature dependent) Varies according to pulse characteristics, temperature, cell history and the application. Consult ULTRALIFE China
Energy Rating	1800mWh
Weight	4.5g
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: 5.2 mm
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
Quality Assurance	Ultralife manufacturing facilities are ISO 9001:2015, ISO 14001:2015 and ISO13485:2016 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.

Features

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

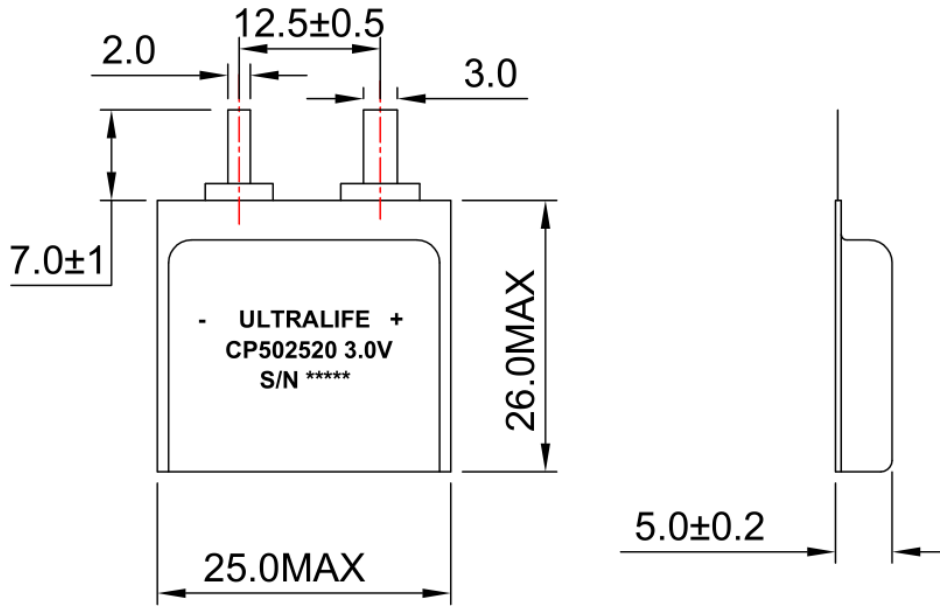
Applications

- “Smart” security cards
- Asset tracking tags
- Bank theft tracking systems
- Electronics record tracking systems
- Medical devices
- RF

Notes

1. Discharged using 10mA to 1.5V @ +23°C.
2. For a >5 years life, storage should not exceed +30°C.
3. 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.

Dimensions



Unit: mm

Performance Graphs

