

# CP502520: Thin Cell

## Technical Datasheet



### Technical Specifications

<b>Part No</b>	CP502520	
<b>Cell Type</b>	Primary, non-rechargeable	
<b>Chemistry</b>	Lithium Manganese Dioxide	
<b>Voltage Range</b>	1.5V to 3.3V	
<b>Nominal Voltage</b>	3.0V	
<b>Typical Capacity<sup>1</sup></b>	600mAh	
<b>Max. Continuous Discharge</b>	75mA	
<b>Max. Pulse Discharge</b>	Up to 300mA (life and temperature dependent)	
<b>Energy Rating</b>	1800mWh	
<b>Energy Density</b>		
<b>Gravimetric</b>	400Wh/kg	
<b>Volumetric</b>	1258Wh/L	
<b>Weight</b>	4.5g	
<b>Operating Temperature</b>	-20°C to +60°C	
<b>Storage Temperature<sup>2</sup></b>	-40°C to +60°C	
<b>Exterior/Housing</b>	Laminated aluminium foil	
<b>Terminals/Connector</b>	Ni-stainless steel tabs (Ni-Ni optional)	
<b>Size (maximums)</b>	Length:	26.0mm
	Width:	25.0mm
	Height:	5.2mm
<b>Certifications</b>	IEC 60086-4 UL 1642 UN 38.3	
<b>Safety</b>	AL/MSDS-RD-006	
<b>Transportation</b>	Excepted Dangerous Goods UN3090 Air shipment: Packing Instruction 968, Section II	
<b>Quality Assurance</b>	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.	

### 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

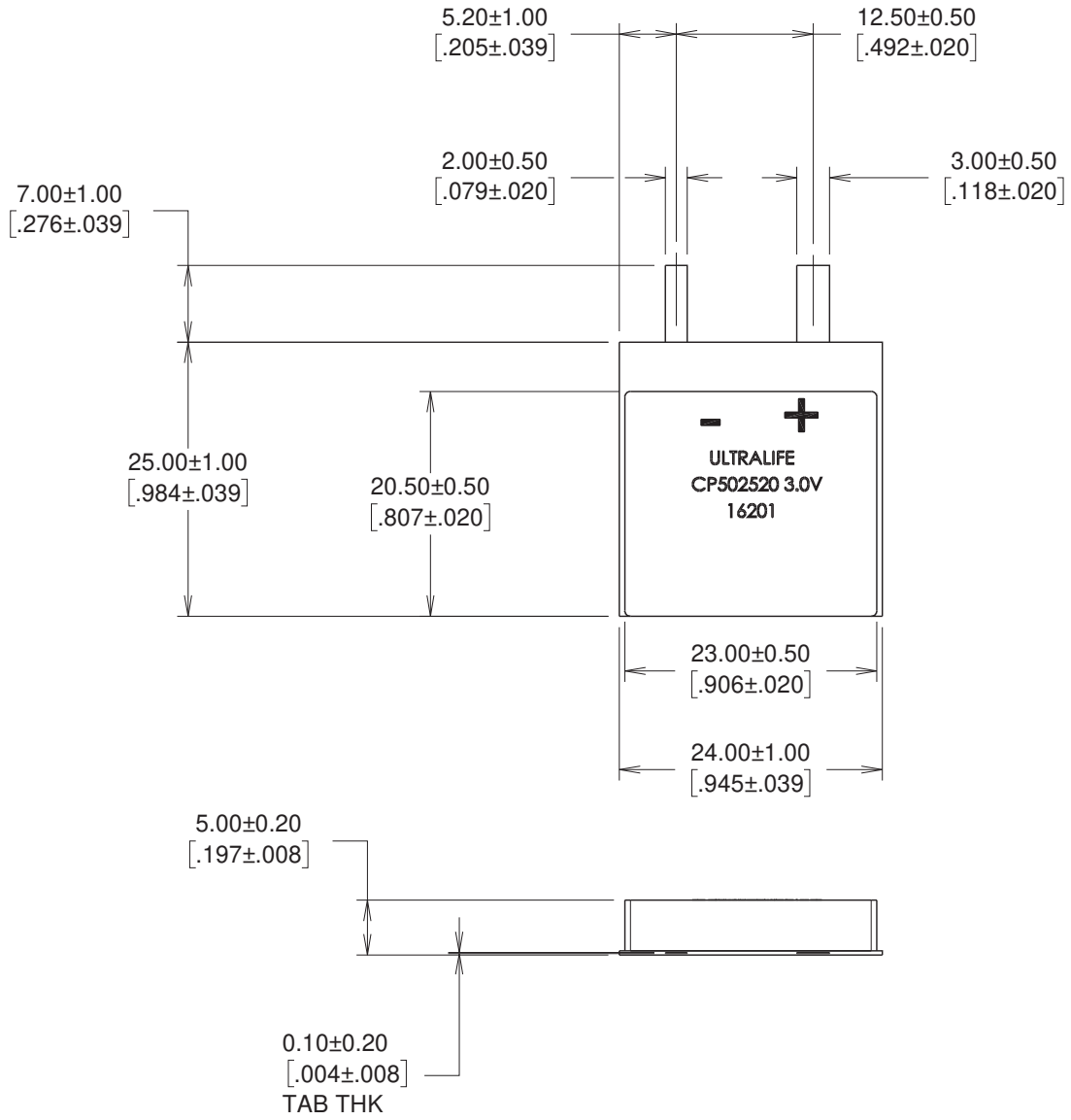
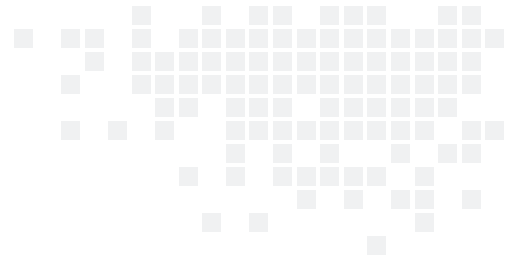
### Applications

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

### Notes

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

# Dimensions



# Performance Graphs

