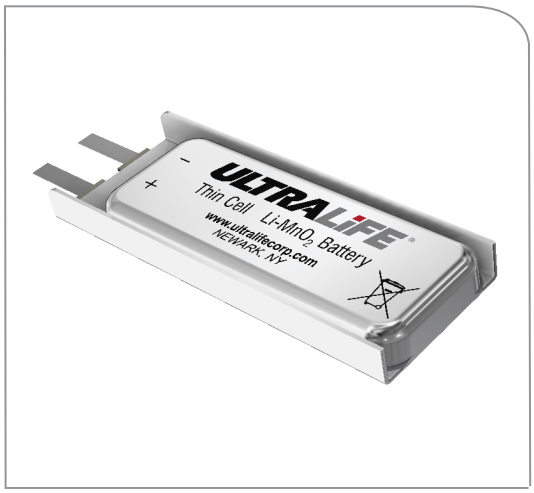
ULTRALIFE
BATTERY & ENERGY PRODUCTS

CP301030 Thin Cell
Technical Datasheet



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

Technical Specifications	
Part No	CP301030
Cell Type	Primary, non-rechargeable
Chemistry	Lithium Manganese Dioxide
Voltage Range	1.5V to 3.3V
Nominal Voltage	3.0V
Typical Capacity at 2mA	150mAh to 1.5V @ 23°C
Max. Continuous Discharge	30mA
Max. Pulse Discharge[1]	Up to 100mA (life and temperature dependent)
Energy Rating	450mWh
Energy Density **Gravimetric** **Volumetric**	 321Wh/Kg Pending
Weight	1.4g
Lithium Metal Content	0.05g
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: 30.0mm Width: 11.2mm Height: 3.2mm
Certifications	UL 1642 UN 38.3
Safety	AL/MSDS-RD-006
Transportation	Excepted Dangerous Goods UN3091: Packed with or contained in equipment Air Shipment: Packing Instruction 969 or 970, Section II UN3090: Bulk shipment Air shipment: Packing Instruction 968, Section II
Quality Assurance	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.

Notes

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

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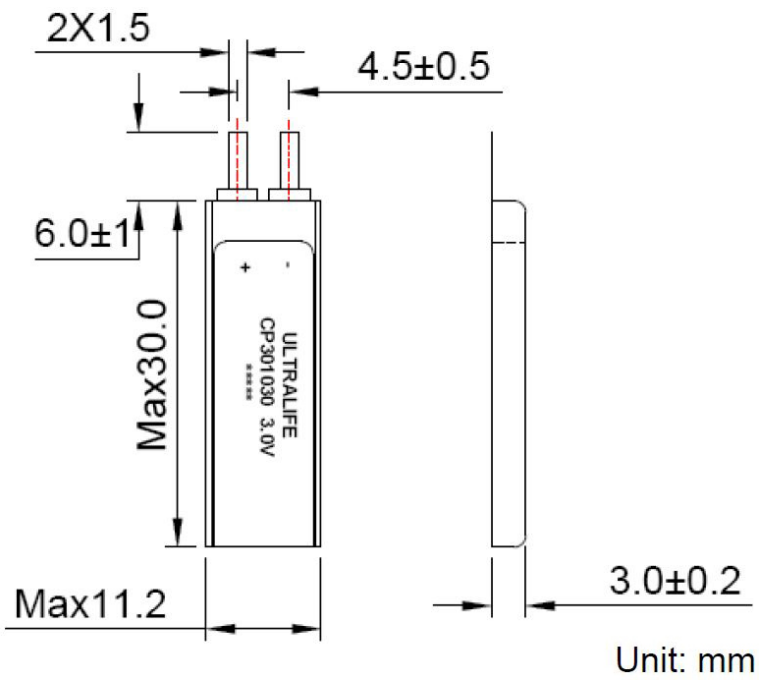
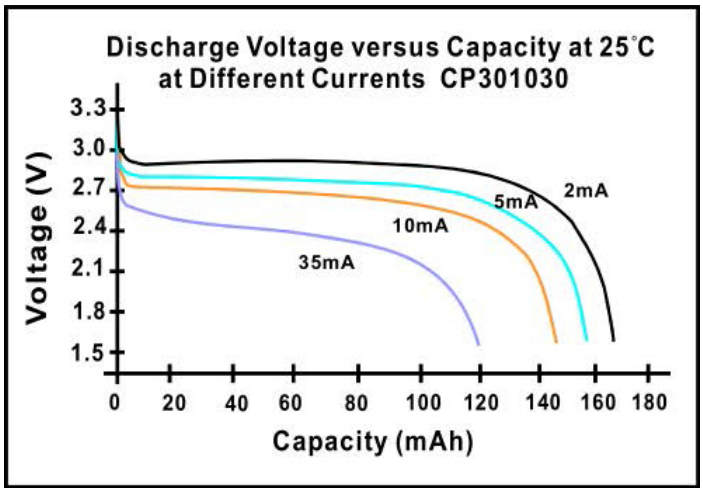
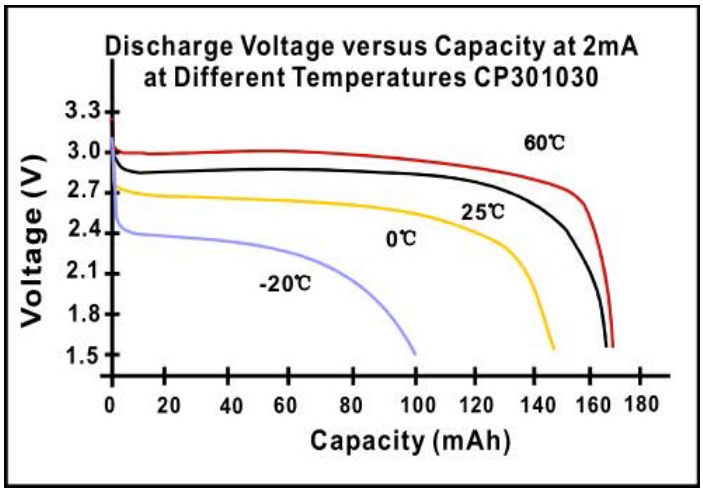
Dimensions



Performance Graphs





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