

CP301322 Thin Cell[®]

Technical Datasheet



Technical Specifications

| | | |
|---|---|--------|
| Part No | CP301322 | |
| Cell Type | Primary, non-rechargeable | |
| Chemistry | Lithium Manganese Dioxide | |
| Voltage Range | 1.5V to 3.3V | |
| Nominal Voltage | 3.0V | |
| Typical Capacity at 2mA | 115mAh to 1.5V @ +23°C | |
| Max. Continuous Discharge | 35mA | |
| Max. Pulse Discharge¹ | Up to 70mA (life and temperature dependent) | |
| Energy Rating | 345mWh | |
| Energy Density | | |
| Gravimetric | 313Wh/kg | |
| Volumetric | 354Wh/L | |
| Weight | 1.1g | |
| Lithium Metal Content | 0.03g | |
| Operating Temperature | -20°C to +60°C | |
| Storage Temperature² | -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: | 22.5mm |
| | Width: | 13.5mm |
| | Height: | 3.2mm |
| Certifications | UL 1642 UN 38.5 IEC 60086-4 | |
| 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. | |

Features

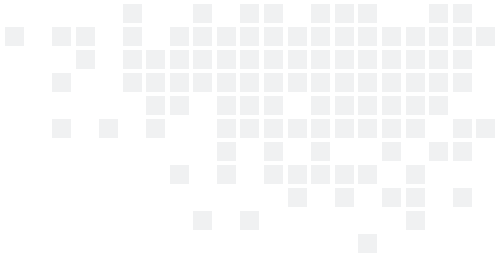
- Wafer thin
- Flat discharge curve
- High power and higher energy for the whole battery life
- Long shelf life
- Low self-discharge rate (less than 1% after 1 year of storage at +20°C)
- High energy density
- Wide operating temperature range
- Lightweight

Applications

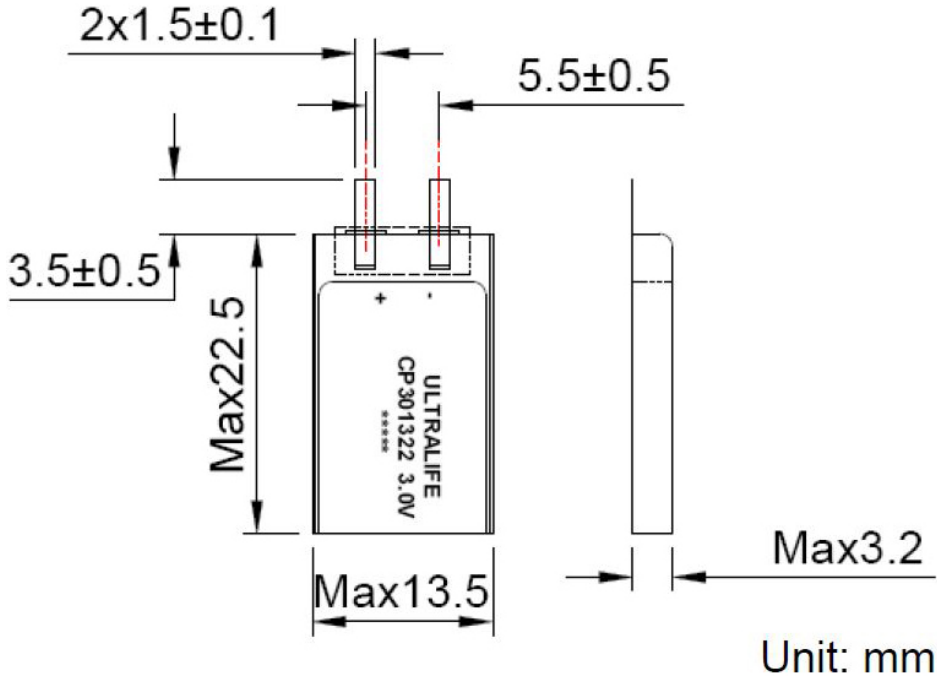
- "Smart" security cards
- Asset tracking tags
- Bank theft tracking systems
- Electronics record tracking systems
- Medical devices
- RFID

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.



Dimensions



Performance Graphs

