

UA-CR1/3N

Technical Datasheet



Technical Specifications

Part No	UA-CR1/3N
IEC	CR11108
Cell Type	Primary, non-rechargeable
Chemistry	Lithium / manganese dioxide
Voltage Range	1.5V to 3.35V
Nominal Voltage	3.0V
Typical Capacity¹	170mAh
Max. Continuous Discharge	80mA
Max. Pulse Discharge	Up to 160mA (life and temperature dependent) Varies according to pulse characteristics, temperature, cell history and the application. Consult ULTRALIFE China
Energy Rating	0.24Wh
Weight	3g
Operating Temperature	-40°C to 70°C
Storage Temperature²	-20°C to 45°C
Humidity	65 ± 20%
Exterior/Housing	Elastomeric wrapped, Ni plated stainless steel
Terminals/Connector	Ni plated steel nub and flat contacts
Size (maximums)	Length: 10.8mm Diameter: 11.6mm
Certifications	UL 1642 (file no. MH30127) UN 38.3-
Transportation³	Excepted Dangerous Goods UN3091: Packed with or contained in equipment Air Shipment: Packing Instruction 969 and 970, Section I Class 9 Dangerous Goods UN3090: Bulk shipment Air shipment: Packing Instruction 968, Section IB
Quality Assurance	Ultralife manufacturing facilities are ISO 9001:2015 and ISO 13485:2016 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

- Lightweight cells with stable output voltages
- High energy density
- Wide working temperature range
- Low self-discharge
(less than 2% after 1 year of storage at 20°C)
- High reliability
- 10 year shelf-life

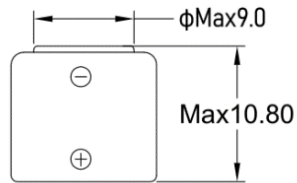
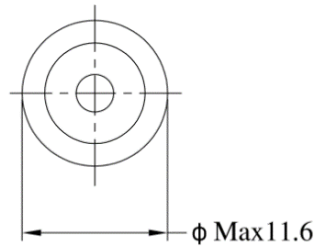
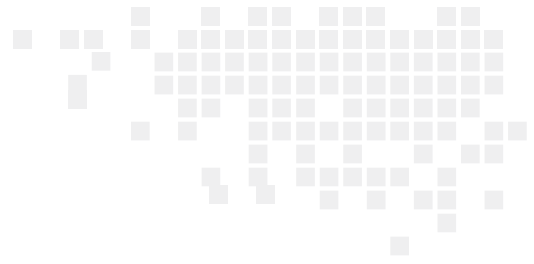
Typical Applications

- Safety and security systems
- Metering systems
- LED flashlights
- Internet of Things (IoT) devices
- Sonobuoys

Notes

1. Discharged using a 3mA load to 1.5V @ 23°C.
2. Cells should be stored in temperatures less than 30°C for a shelf-life of ten years.
Recommended Storage Conditions: Temperatures 5°C to 35°C and humidity <70% RH (to prevent self-discharge caused by corrosion or decrease of insulation). Storage at <-20°C can deform the plastic parts and may cause leakage.
3. For bulk shipments by air that are no more than eight cells and one package, this cell is Excepted Dangerous Goods and can be shipped under Packing Instruction 968, Section II.

Dimensions



Unit: mm

Performance Graphs

