

## LITHIUM BATTERY

### Primary lithium batteries CR14190

**3.0V Primary lithium-manganese dioxide  
(Li-MnO<sub>2</sub>) Power type  
spiral cell**

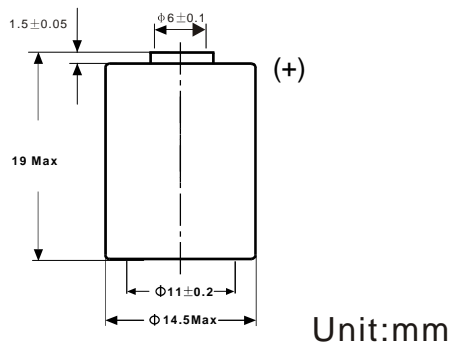
For high drain/high pulses applications requesting superior voltage response in -40°C~+60°C environments.

#### Cell size references

Electrical characteristics (typical values relative to cells stored for one year or less at +30°C max.)	
Nominal capacity (at 1 mA +20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).	0.45Ah
Open circuit voltage (at +20°C)	3.0V
Nominal voltage (at 1mA +20°C)	3.0V
Pulse capability: Typically up to 200 mA (200 mA/0.1 second pulse, drained every 2 mn at +20°C from undischarged cells with 10 µA base current, yield voltage readings above 3.0V. The readings may vary according to the pulse characteristics, the temperature, and the cell' s previous history. Fitting the cell with a capacitor may be recommended in severe conditions. Consult pbq)	
Max. Continuous current	50mA
Max. Pulse current	100mA
Storage (recommended) (for more severe conditions, consult pbq)	+30°C max
Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult pbq)	-40°C / +60°C
Physical characteristics	
Diameter (max)	14.5mm(0.57 in)
Height (max)	19mm(0.76 in)
Typical weight	8g(0.26oz)
Available termination suffix	radial tabs, radial pins, axial leads, flying leads

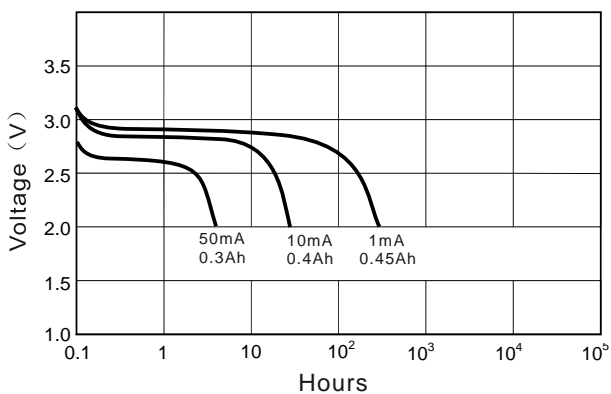
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#### Characteristic curves

##### Discharge performance (25°C)



Nominal capacity 0.45Ah (1mA to 2.0V) .

#### Key features

- ▶ High and stable operating voltage
- ▶ Superior drain capability
- ▶ Low self-discharge rate (1 ~ 2% after 1year of storage at +20°C)
- ▶ Hermetic glass-to-metal sealing
- ▶ Notch technology for safety vent is recommended
- ▶ Non-flammable electrolyte

#### Main applications

- ▶ Radiocommunication and other military applications
- ▶ Alarms and security systems
- ▶ Beacons and emergency location transmitters
- ▶ GPS
- ▶ Metering systems
- ▶ Sonobuoys
- ▶ LED lighting applications
- ▶ Others

#### Storage

- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

#### Warning

- ▶ Do not use if the battery casing was mangled.
- ▶ Don' t use different models of battery in series.
- ▶ Do not try to recharge.