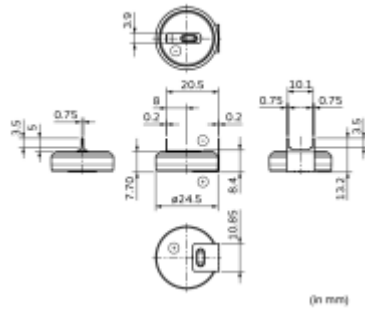
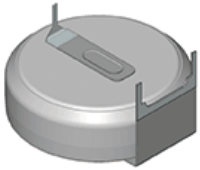


# CR2477X-HE2

The Extended Temperature lithium coin batteries support wider operating temperature **-40 to +85 °C** and are ideal for automotive devices and outdoor IoT systems. Also CR3677X can be used as an alternative solution to conventional cylindrical batteries.

In Production **REACH**

## Appearance & Shape



## Applications

Other Usage	<ul style="list-style-type: none"> <li>●Automotive             <ul style="list-style-type: none"> <li>·TPMS(Tire Pressure Monitoring System)</li> <li>·Smart Key/Keyless entry</li> <li>·Toll Collection Device</li> <li>·Drive counter</li> </ul> </li> <li>●IoT/Others             <ul style="list-style-type: none"> <li>·Smart meters</li> <li>·Factory Automation Instruments</li> <li>·Tracking devices/Sensor node</li> </ul> </li> </ul>
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### Attention

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- 2.This datasheet has only typical specifications because there is no space for detailed specifications.  
Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

# CR2477X-HE2

## Features

### • Lightweight, High Voltage and High Energy Density

The battery voltage is 3V, almost double that of normal alkaline or manganese batteries. This means that the number of batteries required for equipment can be halved for maximum space saving and weight reduction.

### • Excellent Discharge Characteristics

Voltage characteristics remain stable even for a long period of discharge, greatly improving the reliability of equipment that uses the battery. Such equipment is also maintenance-free (battery replacement is seldom required).

### • Wide Operating Temperature Range

While the operating temperature range of the Standard is from -30°C to 70°C, the range of the Extended Temperature has been expanded from -40°C to 85°C. This type supports electronic components and IC of which operating temperature range is up to 85°C in many cases. Also, the excellent storage characteristics minimize the voltage drop compared with the Standard even when the Extended Temperature is stored for 100 days or more at 85°C.

### • Maximum capacity with coin lithium battery\*1

The largest capacity "CR3677X"\*2 in the Extended Temperature has the largest capacity\*1 among coin lithium batteries. This model has a nominal capacity higher than the CR123A battery and CR2 battery, and contributes to downsizing and slimming of electronic devices.

\*1 Murata Research, September 28, 2018

\*2 Shipment of mass-produced CR3677X is scheduled to start at the end of 2019

### • Excellent Leakage Resistance

The newly developed battery construction and electrolyte ensure maximum leakage resistance over a long span of time.

### • Excellent Long-Term Reliability

Carefully selected active materials are used for the active material as well as for the electrolyte. These materials are sealed by Murata's innovative technology to minimize battery self-discharge. The annual self-discharge rate at room temperature and normal humidity is less than 1% of the nominal capacity.

### • UL Approved Parts

Murata's Coin Manganese Dioxide Lithium Batteries are approved by UL. (UL1642 File No. MH12566)

### • RoHS Directive / European Directives

This product does not contain Mercury(Hg), Cadmium(Cd), nor Lead(Pb), and conforms to EC regulation values. (Directive 2006/66/EC, 2013/56/EU)

Battery pack are excluded from RoHS directive (DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment).

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# CR2477X-HE2



## Specifications

Battery type	Coin Manganese Dioxide Lithium Batteries
Nominal Voltage	3.0V
Nominal Capacity	1000mAh
Recommended Continuous Discharge Current	1mA or less
Maximum Pulse Discharge Current(mA) *Assumption: Current to keep higher than 2V at 50% discharge with 23°C and pulse length 3sec.	30mA
Operating Temperature Range	-40°C to 85°C
Diameter (inch)	0.965inch
Diameter (mm)	24.5mm
Height (inch)	0.303inch
Height (mm)	7.7mm
IEC (JIS)	-
Mass (oz)	0.353oz
Mass (g)	9.9g

### Attention

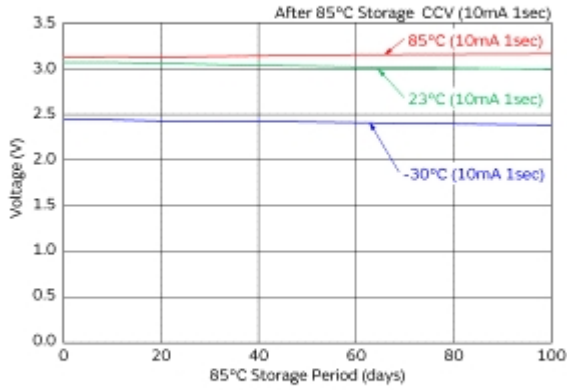
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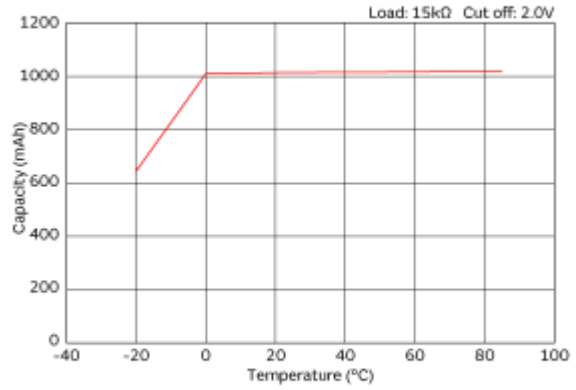
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# CR2477X-HE2

## Product Data



Storage Characteristic



Discharge Temperature Characteristics

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