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Please download the latest datasheet of CR3677X-HE1 from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-gb/products/productdetail?partno=CR3677X-HE1

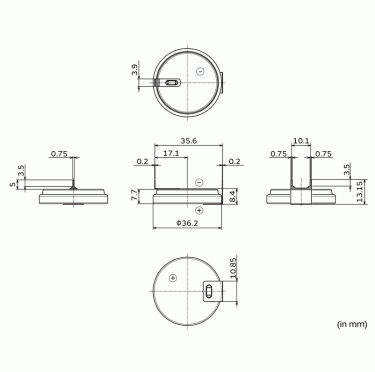
CR3677X-HE1

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	●Automotive ・TPMS(Tire Pressure Monitoring System) ・Toll Collection Device ・Drive counter ●IoT/Others ・Smart meters ・Factory Automation Instruments ・Tracking devices/Sensor node

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 -30ºC to 70ºC, the range of the Extended Temperature has been expanded from -40ºC to 85ºC. This type supports electronic components and IC of which operating temperature range is up to 85ºC 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 85ºC.

• Maximum capacity with coin lithium battery*1
The largest capacity "CR3677X" 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

• 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

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.

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CR3677X-HE1

Specifications

Battery type	Coin Manganese Dioxide Lithium Batteries
Nominal Voltage	3.0V
Nominal Capacity	2000mAh
Recommended Continuous Discharge Current	3mA or less
Maximum Pulse Discharge Current(mA) *Assumption: Current to keep higher than 2V at 50% discharge with 23℃ and pulse length 3sec.	80mA
Operating Temperature Range	-40℃ to 85℃
Diameter (inch)	1.437inch
Diameter (mm)	36.5mm
Height (inch)	0.303inch
Height (mm)	7.7mm
Mass (oz)	0.705oz
Mass (g)	20g

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