

April 15, 2025

Maxell, Ltd.

**Maxell to Begin Mass Production of
Coin Type Lithium Manganese Dioxide Battery CR2032S**
High-Capacity Technology Extends Battery Life*¹, Increasing Wireless Communication Time
by 11%*² for Compact Electronic Devices



Coin type lithium manganese dioxide battery CR2032S

Maxell, Ltd. (President and Representative Director: Keiji Nakamura / hereinafter “Maxell”) is pleased to announce that it will begin mass production of the coin type lithium manganese dioxide battery CR2032S, which incorporates high-capacity technology, on April 17, 2025.

In recent years, there has been a growing demand for compact electronic devices that utilize Bluetooth[®] Low Energy communication, such as smart keys, Remote Keyless Entry (RKE) systems, logistics and tracking tags, Continuous Glucose Monitoring (CGM), and wearable devices.

To address the need for higher discharge currents required for these applications, Maxell has developed the CR2032S. This new battery improves operational time by 11%*² in pulse discharge tests specifically intended for compact electronic devices. Being developed based on the conventional coin type lithium manganese dioxide battery CR2032H, the CR2032S achieves higher capacity and enhanced pulse performance by optimizing the balance between battery structure and materials. This innovation enables devices to operate stably over longer periods while reducing the frequency of battery replacements compared to the CR2032H, thus contributing to waste reduction and lower environmental impact.

In addition to industrial sales, the CR2032S will also be available to general consumers in the Asia region through our overseas sales companies.

Maxell utilizes its analog core technologies to create high-capacity, long-life, and sustainable batteries, driving progress toward a sustainable society.

*1 Extends Battery Life: In comparison to the standard capacity of the conventional CR2032H.

*2 Increasing Wireless Communication Time by 11%, improves operational time by 11%: In comparison to the Depth of Discharge (DoD) characteristics of the conventional CR2032H.

Trademark

- All company and product names mentioned herein are trademarks or registered trademarks of their respective companies.
- Bluetooth is a registered trademark of Bluetooth SIG, Inc.

Coin Type Lithium Manganese Dioxide Batteries (CR) Web Page

https://biz.maxell.com/en/primary_batteries/cr_coin.html

Contacts

Sales & Marketing Div., Maxell, Ltd.

https://biz.maxell.com/en/primary_batteries/inquiry_form_input1.html

Appendix

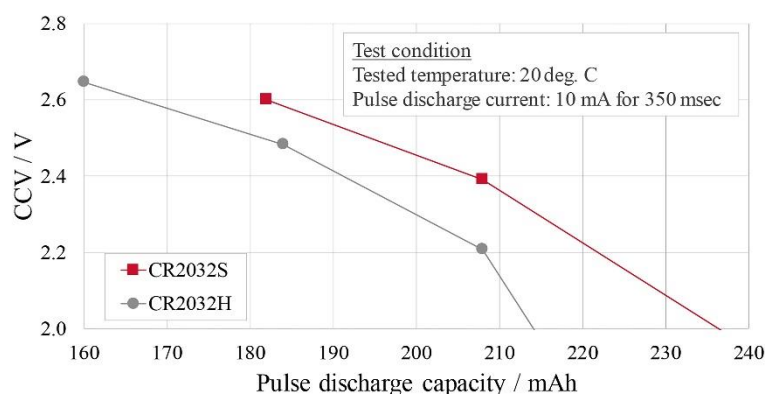
Features of the coin type lithium manganese dioxide battery CR2032S

1. Increased capacity

The CR2032S achieves a higher standard capacity of 250mAh, compared to 240mAh in the conventional CR2032H. This improvement is made possible by optimizing its internal structure to increase internal volume and improve the material filling rate, while maintaining the same level of reliability despite the thinner battery case.

2. 11% longer wireless communication time for compact electronic devices^{*1}

By optimizing electrode materials and electrolyte design, the utilization rate in pulse discharge characteristics has been improved by 11%^{*1}. This enhancement extends the wireless communication time for compact electronic devices.



Comparison of pulse discharge characteristics between the conventional CR2032H and the CR2032S

3. Reduction in battery material usage

A thinner battery case reduces metallic material usage by 30%.

^{*1} 11% longer wireless communication time, the utilization rate in pulse discharge characteristics has been improved by 11%: In comparison to the Depth of Discharge (DoD) characteristics of the conventional CR2032H.

Specifications

Model		CR2032S
Nominal voltage (V)		3
Nominal capacity (mAh) ^{*2}		250
Nominal discharge current (mA)		0.2
Operating temperature range (deg. C) ^{*3}		-20 to +85
Dimensions ^{*4}	Diameter (mm)	20.0
	Height (mm)	3.2
Weight (g) ^{*4}		2.8

^{*2} Nominal capacity indicates duration until the voltage drops to 2.0 V when discharged at a nominal discharge current at 20 deg. C.

^{*3} When using these batteries at temperatures outside the range of 0 to +40 deg. C, please consult Maxell in advance for conditions of use.

^{*4} Dimensions and weight are for the battery itself, but may vary depending on the shape of terminals or other factors.

- Specifications are subject to change without notice.