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MERCURY

# New Murata Watch Battery

with high quality & performance



Murata has been the sole manufacturer of Sony branded watch batteries since our acquisition of Sony's micro battery business in 2017. With the introduction of the SR series, Murata is launching its own line-up of micro batteries for watches.

Silver Oxide (SR) Battery  
with high reliability & technical performance

- Development of the world's first mercury-free silver oxide battery in 2004
- Unique manufacturing process for strong anti-leakage performance
- Cumulative production total of over 10 billion units

**muRata**

INNOVATOR IN ELECTRONICS

# Silver Oxide (SR) Battery with high reliability & technical performance

## Development of the world's first mercury-free silver oxide battery in 2004

Historically, mercury has been used in button batteries to reduce hydrogen gas generated inside the battery because the elimination of mercury was considered technically impossible. Murata undertook the challenge of designing mercury-free silver oxide batteries to contribute to the protection of the environment and consumers. Murata successfully introduced the world's first mercury-free silver oxide batteries in 2004 and went on to develop a mercury-free alkaline manganese button battery in 2009.

## Unique manufacturing process for strong anti-leakage performance

Murata's button batteries have superior anti-leakage performance thanks to its unique sealing material and technology. Our patented "J-shaped gasket" was invented as a unique sealing solution to maintain air pressure inside the battery. Optimization of the gasket shape results in the reduction of leakage risks during long-term storage.

## Cumulative production total of over 10 billion units

In 1977, Murata started its production of button batteries. We have achieved a cumulative production total of over 10 billion units during the period 1977 to 2017. Murata continues to focus our R&D efforts towards developing battery solutions which protect the environment while exceeding customer expectations for reliability and performance.



## Fulfilling lineup to meet customer needs

**SR Series** \* Nominal Voltage 1.55V, Operating Temperature Range -10°C to +60°C

Part Number	SR416SW	SR421SW	SR512SW	SR516SW	SR521SW	SR527SW	SR616SW	SR621SW	SR626SW	SR626W
Diameter (mm)	4.8	4.8	5.8	5.8	5.8	5.8	6.8	6.8	6.8	6.8
Height (mm)	1.65	2.15	1.25	1.65	2.15	2.70	1.65	2.15	2.60	2.60
Part Number	SR712SW	SR714SW	SR716SW	SR721SW	SR721W	SR726SW	SR726W	SR731SW	SR41	SR48
Diameter (mm)	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
Height (mm)	1.25	1.45	1.65	2.10	2.10	2.60	2.60	3.10	3.60	5.40
Part Number	SR916SW	SR920SW	SR920W	SR927	SR936SW	SR1116	SR1120	SR1130	SR43	SR44
Diameter (mm)	9.5	9.5	9.5	9.5	9.5	11.6	11.6	11.6	11.6	11.6
Height (mm)	1.65	2.05	2.05	2.70	3.60	1.65	2.05	3.05	4.20	5.40

**LR Series** \* Nominal Voltage 1.5V, Operating Temperature Range -10°C to +60°C

Part Number	LR41	LR1120	LR1130	LR43	LR44
Diameter (mm)	7.9	11.6	11.6	11.6	11.6
Height (mm)	3.60	2.05	3.05	4.20	5.40

**CR Series** \* Nominal Voltage 3V, Operating Temperature Range -30°C to +70°C

Part Number	CR1216	CR1220	CR1616	CR1620	CR1632	CR2016	CR2025	CR2032	CR2430	CR2450
Diameter (mm)	12.5	12.5	16.0	16.0	16.0	20.0	20.0	20.0	24.5	24.5
Height (mm)	1.60	2.00	1.60	2.00	3.20	1.60	2.50	3.20	3.00	5.00

## About Murata

Murata contributes to the advancement of society and the electronics industry by creating innovative products and solutions, in close cooperation with our customers and other stakeholders. Headquartered in Kyoto, Japan, we service our customers with a global network of manufacturing facilities and sales support.

Trade Name	Murata Manufacturing Co., Ltd.
Date of Incorporation	December 23, 1950 (established in October 1944)
Chairman of the Board and President	Tsuneo Murata
Head Office	10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto 617-8555
Sales Amount	Consolidated basis: 1,575,026 million yen (as of March 31, 2019)
Number of Employees	Consolidated basis: 77,571 (as of March 31, 2019)
Common Stock	69,444 million yen (as of March 31, 2019)

Murata Manufacturing Co., Ltd.  
[https://go.murata.com/en\\_microbatteries\\_watch](https://go.murata.com/en_microbatteries_watch)

