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Industrial Battery Lineup

- Rechargeable: Li-ion
- Backup: CR Heat Resistant, CR Cylindrical, CR Coin-Type
- Button: ER, ML Coin-Type, TC Button-Type
- SR, LR

► LR Micro Alkaline Batteries

Outline of Products / Warnings



Product list

Model	Nominal Voltage (V)	Diameter (mm)	Height (mm)	Weight (g)
LR44	1.5	11.6	5.40	2.0
LR43	1.5	11.6	4.20	1.5
LR1130	1.5	11.6	3.05	1.1
LR1120	1.5	11.6	2.05	0.8
LR41	1.5	7.9	3.60	0.6
4LR44	6.0	13.0	25.20	10.5

- Data and dimensions are reference values only. For further details, please contact your nearest Maxell office.

Micro Battery Replacement Guide

Compatible-battery cross-reference chart

This chart lists Maxell's button- and coin-type batteries, along with the corresponding batteries of other brands.

- [HTML](#) (open in a new window)
- [PDF](#) (open in a new window)

System	Recommended Alternatives	Millimeters #10	Inches #10	Nominal Voltage (V)	Maxell	ENERGIZER	RAYOVAC	DAIICHI	DAIICHI	DAIICHI
Watch High Drain		11.6 x 5.4	0.457 x 0.213	1.55	SR44SR	367	367	367	367	367
		11.6 x 3.05	0.457 x 0.120	1.55	SR1130W	369	369	369	369	369
		11.6 x 2.05	0.457 x 0.081	1.55	SR1120W	369	369	369	369	369
		11.6 x 1.65	0.457 x 0.065	1.55	SR1100W	369	369	369	369	369
		8.5 x 3.8	0.335 x 0.142	1.55	SR4000					
		8.5 x 2.73	0.335 x 0.107	1.55	SR3070	368				
		8.5 x 2.65	0.335 x 0.091	1.55	SR3050	370				
		8.5 x 1.83	0.335 x 0.072	1.55	SR3010	372				
		7.8 x 3.8	0.311 x 0.142	1.55	SR4100	362				
		7.8 x 2.8	0.311 x 0.102	1.55	SR3200	366				
		7.8 x 2.5	0.311 x 0.093	1.55	SR3210	361				
		7.8 x 1.83	0.311 x 0.072	1.55	SR3100	374				

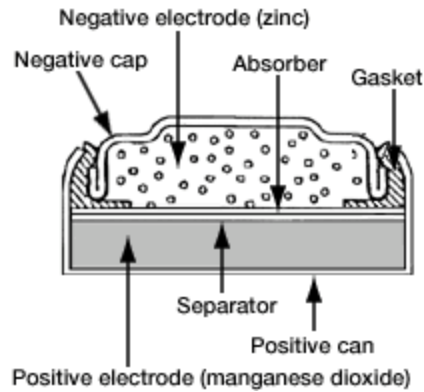
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Outline

The Maxell's LR battery is a compact, light and economical alkaline battery having a

nominal voltage of 1.5V. The LR battery is less expensive than silver oxide batteries and usable with a wide variety of equipment, ranging from electronic calculators to electric toys. Based on many years of experience and know-how in the field of silver oxide batteries, the LR battery boasts high quality and high reliability.

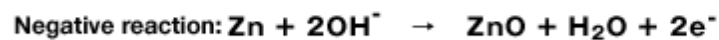
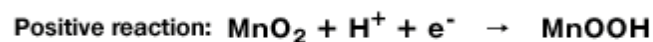
■ Cross-sectional diagram



■ Principle and reaction

The button-type alkaline battery uses manganese dioxide (MnO_2) as its positive active material and zinc (Zn) as its negative active material. Potassium hydroxide (KOH) is used as an electrolyte.

Battery Reactions



■ Features

- Excellent cost-performance
Unlike silver oxide batteries that use the precious metal, silver, the alkaline battery features good cost-performance because it uses low-cost manganese dioxide as its active material.
- Superior leakage* resistance
Like silver oxide batteries, the LR battery is manufactured using the Maxell's original leak-resistant processing that suppresses the electrolyte from rising up and seeping out — a basic phenomenon of alkaline electrolytes.
- Excellent heavy load characteristics
The LR battery offers excellent heavy load characteristics and employs a separator featuring low internal resistance, good liquid holding properties and high-drain characteristics.

(* Leakage is defined as an unintended escape of liquid from a battery.)

■ Applications

Mini-game machines, electronic calculators, electronic clocks, electronic watches, measuring instruments, electronic lighters, electronic thermometers, cameras, compact radios, and various types of remote controllers, etc.

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