

LR Micro Alkaline Batteries



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](http://www.maxell.com.hk/product/LR/micro_battery.html)
http://www.maxell.com.hk/product/LR/micro_battery.html

- [PDF](http://www.maxell.com.hk/product/LR/replacement_e.pdf)
http://www.maxell.com.hk/product/LR/replacement_e.pdf

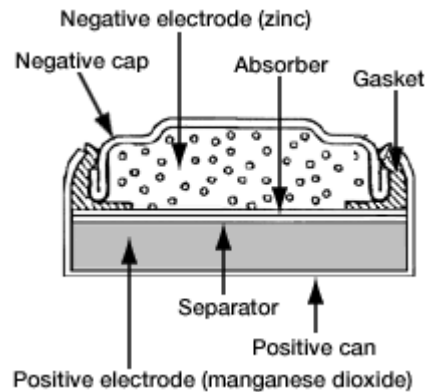
System	Recommended Applications	Millimeters # x #	Inches # x #	Nominal Voltage (V)	Maxell	CORRESPONDING EQUIVALENT
High Drain		11.6 x 6.0	0.457 x 0.231	1.88	SR44SR	SR44
		11.6 x 6.2	0.457 x 0.244	1.50	SR44SR	SR44
		11.6 x 3.05	0.457 x 0.120	1.50	SR1130SR	SR11
		11.6 x 2.05	0.457 x 0.081	1.88	SR1120SR	SR11
		11.6 x 1.95	0.457 x 0.076	1.50	SR1119SR	SR11
		9.8 x 5.8	0.386 x 0.228	1.50	SR9SR	SR9
		9.8 x 2.75	0.386 x 0.107	1.88	SR927SR	SR9
		9.8 x 2.05	0.386 x 0.081	1.50	SR920SR	SR9
		9.8 x 1.80	0.386 x 0.080	1.50	SR918SR	SR9
		7.9 x 5.8	0.311 x 0.228	1.88	SR41SR	SR41
		7.9 x 2.0	0.311 x 0.079	1.50	SR4120SR	SR41
		7.9 x 2.75	0.311 x 0.080	1.50	SR4127SR	SR41
7.9 x 1.88	0.311 x 0.080	1.88	SR4188SR	SR41		

- Data and dimensions are just reference values. For further details, please contact us at your nearest Maxell office.
- Contents on this website are subject to change without notice.

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.

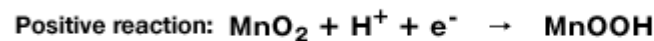
■ Cross-sectional diagram



■ 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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