LAKUDA

DATASHEET
RECHARGEABLE LI-ION COIN CELL

LIR2032 3.6V 40mAh

RECHARGEABLE LITHIUM-ION BUTTON CELL

REF 100051674
REV 2026.08

APPLICATIONS key fobs & remotes · memory / RTC backup · compact sensors · wearables · IoT modules

ELECTRICAL SPECIFICATIONS

Chemical System	Lithium-Ion, rechargeable
Nominal Voltage	3.6 V
Nominal Capacity	40 ± 5 mAh (0.2C to 2.75V)
Charging Voltage	4.20 V
Open Circuit Voltage	> 4.15 V within 1 h of full charge
Discharge Cut-off V.	2.75 V
Internal Impedance	≤ 600 mΩ 1 kHz AC, charged
Standard Charge	8.0 mA CC → 4.20 V CV to 0.01C
Max. Charge Current	40 mA
Max. Discharge Current	40 mA
Charge Retention	> 85% after 28 days at 20 ± 5 °C
Cycle Life	> 500 cycles (> 70% capacity, 0.2C)

PHYSICAL DIMENSIONS

Diameter	20.0 +0 / −0.2 mm
Height	3.2 +0.1 / −0.2 mm
Typical Weight	~ 2.7 g bare cell

OPERATING CONDITIONS

Charge Temperature	0 ~ +45 °C
Discharge Temperature	-20 ~ +60 °C
Storage Temperature	-20 ~ +60 °C
Storage Humidity	≤ 75% RH
Low-Temp. Capacity	> 60% @ −20 °C, 18 h soak, 0.2C
Leakage Resistance	21 days @ 40 °C / 80% RH, no leakage
Test Conditions	15 ~ 25 °C, 45 ~ 85% RH



LIR2032 · Ø20.0 × 3.2 mm · 3.6V 40mAh

LIR2032 is a rechargeable lithium-ion button cell delivering 40 mAh at a nominal 3.6 V in the standard Ø20.0 × 3.2 mm coin format — the rechargeable counterpart to the CR2032 primary cell, with roughly three times the working voltage of an equivalent Ni-MH or Ni-Cd cell.

- Drop-in Ø20 × 3.2 mm coin format
- > 500 charge/discharge cycles
- > 85% charge retention after 28 days
- > 60% capacity at −20 °C
- Low internal impedance — ≤ 600 mΩ
- Leak-tested 21 days at 40 °C / 80% RH

⚠ Do not short-circuit, disassemble, deform, pierce, solder directly, heat above 60 °C or expose to fire, water or liquids. Observe correct polarity. Do not mix with primary cells or cells of other type, age or capacity. Stop charging if not completed within the specified time. Discontinue use if abnormal heat, odour, discolouration or deformation occurs. Dispose of in accordance with local regulations.

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