ENERGIZER CR2032

Industry Standard Dimensions

mm (inches)

3.20 (0.126)
2.90 (0.114)
17.70 (0.697)
20.00 (0.787)
19.70 (0.776)
0.20 (0.008) Maximum Ref.
Permissible deflection from a flat.

0.10 (0.004) Minimum Ref.
(Appplies to top edge of gasket or
edge of crimp, whichever is higher.)

Specifications

Classification: "Lithium Coin"
Chemical System: Lithium / Manganese Dioxide (Li/MnO2)
Designation: ANSI / NEDA-5004LC, IEC-CR2032
Nominal Voltage: 3.0 Volts
Typical Capacity: 240 mAh (to 2.0 volts)
(Rated at 15K ohms at 21°C)
Typical Weight: 3.0 grams (0.10 oz.)
Typical Volume: 1.0 cubic centimeters (0.06 cubic inch)
Typical IR: 10,000 - 40,000 mΩ
Max Rev Charge: 1 microampere
Energy Density: 198 milliwatt hr/g, 653 milliwatt hr/cc
Typical Li Content: 0.109 grams (0.0038 oz.)
UL Recognized: MH29980
Operating Temp: -30°C to 60°C
Self Discharge: ~1% / year

Safety:

(1) KEEP OUT OF REACH OF CHILDREN. Swallowing may lead to serious injury or death in as little as 2 hours due to chemical burns and potential perforation of the esophagus. Immediately see doctor; have doctor phone (202) 625-3333.

(2) Battery compartment design. To prevent children from removing batteries, battery compartments should be designed with one of the following methods: a) a tool such as screwdriver or coin is required to open battery compartment or b) the battery compartment door/cover requires the application of a minimum of two independent and simultaneous movements of the securing mechanism to open by hand. Screws should remain captive with the battery door or cover.

Continuous Discharge Characteristics

Load: 15K ohms - continuous 21°C (70°F)
Typical Drain @ 2.9V: 0.19 mA

Cross Section

Simulated Application test

Typical Performance at 21°C (70°F)

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Typical Drains:</th>
<th>Load</th>
<th>Cutoff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous</td>
<td>0.19 mA</td>
<td>15,000</td>
<td>1263</td>
</tr>
</tbody>
</table>

Important Notice

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**Pulse Characteristics**

Load: 100 ohms - 21°C (70°F)

Pulse Duration: 2 seconds

**Pulse Discharge Characteristics**

Bkgnd Drain: Continuous

Pulse Drain: 2 seconds X 12 times/day

21°C (70°F)

15K ohms

0.19 mA @2.9V

~6.8 mA @2.7V

Bkgnd Drain: None

Pulse Drain: 1mSec ON / 14mSec OFF

21°C (70°F)

120 ohms

~23 mA @2.7V

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