muRata
INNOVATOR IN ELECTRONICS

Product Search Data Sheet

Note: This datasheet may be out of date.
Please download the latest datasheet of CR2032W from the official website of Murata Manufacturing Co., Ltd.

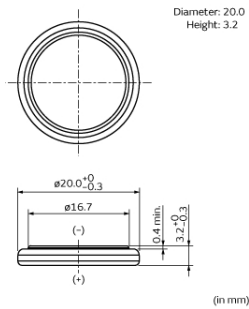http://www.murata.com/en-gb/products/productdetail?partno=CR2032W

CR2032W

The Heat-resistant lithium coin batteries support wider operating temperature -40 to +125 °C and are ideal for devices used in severe temperature environments such as TPMS etc.

In Production   REACH

Appearance & Shape

Diameter: 20.0
Height: 3.2

ø20.0 +0 -0.3
ø16.7
(-)
0.4 min.
3.2 +0 -0.3
(+)

(in mm)

Applications

Other Usage	●Automotive ・TPMS(Tire Pressure Monitoring System) ・Toll collection device ●IoT/Others ・Factory Automation Instruments ・Smart meters ・Tracking devices

Features

• Lightweight, High Voltage and High Energy Density
The battery voltage is 3V, almost double that of normal alkaline or manganese batteries. This means that the number of batteries required for equipment can be halved for maximum space saving and weight reduction.

• Excellent Discharge Characteristics
Voltage characteristics remain stable even for a long period of discharge, greatly improving the reliability of equipment that uses the battery. Such equipment is also maintenance-free (battery replacement is seldom required).

• Outstanding Temperature Characteristics
Murata's original organic electrolyte provides superb characteristics over a wide range of temperature from low to high. -40 to +85 degrees C (Extended temperature) -40 to +125 degrees C (Heat-resistant)

• Excellent Leakage Resistance
The newly developed battery construction and electrolyte ensure maximum leakage resistance over a long span of time.

• Excellent Long-Term Reliability
Carefully selected active materials are used for the active material as well as for the electrolyte. These materials are sealed by Murata's innovative technology to minimize battery self-discharge. The annual self-discharge rate at room temperature and normal humidity is less than 1% of the nominal capacity.

• UL Approved Parts
Sony's Coin Manganese Dioxide Lithium Batteries are approved by UL. (UL1642 File No. MH12566)

• RoHS directive / European Directives
This product does not contain Mercury(Hg), Cadmium(Cd), nor Lead(Pb), and conforms to EC regulation values. (Directive 2006/66/EC, 2013/56/EU)
Battery pack are excluded from RoHS directive (DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment).

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CR2032W

Specifications

Battery type	Coin Manganese Dioxide Lithium Batteries
Nominal Voltage	3.0V
Nominal Capacity	210mAh
Recommended Continuous Discharge Current	1mA or less
Operating Temperature Range	-40℃ to 125℃
Diameter (inch)	0.787inch
Diameter (mm)	20mm
Height (inch)	0.126inch
Height (mm)	3.2mm
IEC (JIS)	CR2032
Mass (oz)	0.109oz
Mass (g)	3.1g

Attention

1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

2.This datasheet has only typical specifications because there is no space for detailed specifications.
Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

URL : https://www.murata.com/

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