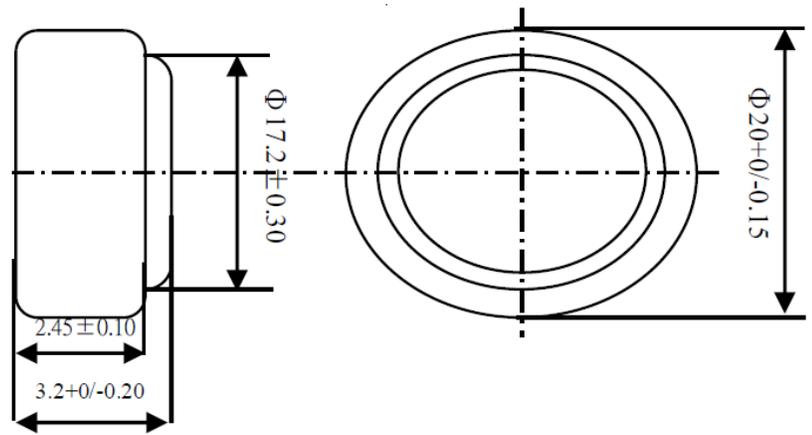# ORION CR2032 3V Lithium Cell
Lithium (Li/MnO₂)

ORION®

Lithium Coin Cells are small discs that are very small and very light, great for small, low-power devices. They're also fairly safe, have a long shelf life and fairly inexpensive per unit. However, they are not rechargeable and have high internal resistance so they can't provide a lot of continuous current. Do not purchase Lithium batteries before reading and understanding these safety cautions. Using a Lithium cell incorrectly may a cause it to leak, generate heat, smoke, catch on fire.

$\Phi 17.2 \pm 0.30$

2.45 ± 0.10

$3.2 + 0/-0.20$

$\Phi 20 + 0/-0.15$

SAFETY

+The cell must stay in the operating temperatures outlined in its data sheet.

+The cell must not exceed voltage, current, and other ratings in its data sheet.

+Store batteries separately, and do not transport without proper packaging.

+Never store or transport together with conductive or metallic objects particularly in a pocket or bag.

+Do not keep in the sun, in a hot car, or anywhere with direct heat.

+If the cell is attached to a PCB, keep it away from high-static environments.

+Recycle discontinued batteries according to local regulations and cover terminals with insulating tape before disposal.

+Discharge end or cut-off voltage in data sheet is lower-limit for discharge cycle and should not be exceeded.

+Charger or device should implement warning for over-voltage, over current, and over-temperature, control of overcharge, and charge timer.

+Be careful not to short-circuit.

TECHNICAL DATA

Cell Dimensions	20x3.2mm
Cell Weight	3g
Cell Capacity (68kΩ continuous to 2.0V)	200mAh
Voltage (nominal)	3V
Discharge Cut-off Voltage	2V
Temperature range	-20°C to 80°C
Recommended Storage Temperature	20°C ± 5°C
Open Circuit Voltage (fresh)	3.10V ~ 3.30V
Open Circuit Voltage (after 12 months)	3.10V ~ 3.30V
Closed Current Voltage (fresh)	≥ 3.0V (load 15kΩ for 0.8s)
Closed Current Voltage (after 12 months)	≥ 3.0V (load 15kΩ for 0.8s)
Service Life (15kΩ)	≥1100hours (cut off: 2.0V)
Service Life (15kΩ after 12 months)	≥1000hours (cut off: 2.0V)