

# 3V Lithium Coin Cell

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## Specifications

Item		Values	Conditions
Nominal Voltage		3V	Standard Discharge
Nominal Capacity		235mAh	
Instantaneous short-circuit current		≥300mA	Time ≤0.5 second
Off-load Voltage		≥3.2V	Unit Cell
Storage Temperature		0-35°C	-
Standard Weigh		3g	Unit Cell
Service Output	Initial	200 hours	Continuous discharge with load 3kΩ, till 2V end-voltage at 20°C ~ 25°C
	After 12 months storage	196 hours	
Self-discharge Rate		Stored for 12 months at normal temperature, then continuously discharged with 15kΩ load till 2V end-voltage	Less than ≤2%

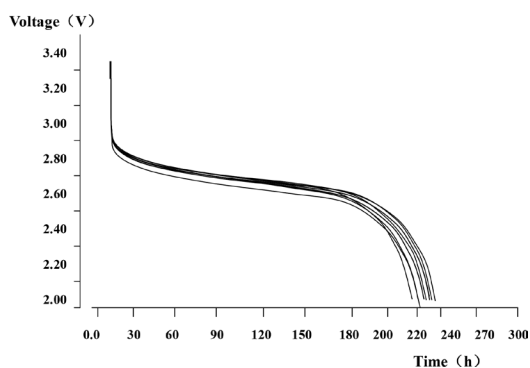
Item	Test Methods	Standard	
Dimensions	Using vernier calliper (accuracy ≥ 0.02) while avoiding short-circuit	Diameter	20mm (-0.15mm)
		Height	3.2mm (-0.2mm)
Off-load Voltage	Using multimeter (accuracy ≥0.25%) Internal Resistance ≥1MΩ	≥3.2V	
Instantaneous Short-circuit Current	Time of short-circuit should be less than 0.5 Second and avoid repeated test within half an hour	≥300mA	
Appearance	Eyeballing	Bright, clean, no rust, no leakage, and no flaw	
Capacity	Continuously discharge for 8 hour with load 3kΩ, temperature at 20~25°C, humidity at 65 ±20% till 2V end-voltage (for fresh battery only: within 3 months)	≥200h	
Vibration Test	Put battery on the platform of the vibrations Machine, start the machine and adjust the Frequency form 10 times per minute to 15 Times per minute. keep it running for an hour	Characteristics keep stability	
Leakage at high temperature	Stored under temperature (45°C) for 30 days	Leakage rate ≤0.5%	
Over Discharge Test	After 2V end-voltage, continuously discharged for 5 hours	No leakage allowed	

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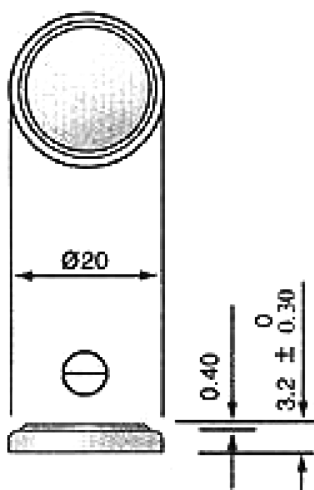
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## Discharge Characteristics

With load 3k $\Omega$  (CR2032)



## Diagram



## Part Number Table

Description	Part Number
3V Lithium Manganese Dioxide, 235mAh, 20mm	298-0040

Dimensions : Millimetres

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