

CR2032

锂-二氧化锰扣式电池

LITHIUM MANGANESE DIOXIDE BUTTON BATTERY

技术规格

TECHNICAL SPECIFICATION

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日期/Date : 2020.3.16

规格型号/Model : Ref-CR2032-FS

(本公司对本产品技术规格如有更改 , 不另行通知)

The Manufacturer reserves the right to modify product specification and data stated herein without prior notice

1. Scope/范围

This specification applies to lithium manganese dioxide button battery .
本规格书的各种技术参数适用于锂锰扣式电池。

Model/型号: CR2032

Reference Document/参考标准: IEC60086-1-2015, IEC60086-2-2015
GB/8897-1-2013, GB/8897-2-2013

2. Nominal Voltage 公称电压 3.0V

3. Nominal Capacity 公称容量 210mAh

Condition: Continuous discharge at $20\pm2^{\circ}\text{C}$ under load $15\text{k}\Omega$ for 24 hrs/day to EPV 2.0V
条件: 在 $20\pm2^{\circ}\text{C}$, 负载电阻 $15\text{k}\Omega$ 下连续放电, 终止电压 2.0V

4. Off-load Voltage/开路电压 $\geq 3.2\text{V}$

Acceptance Standard: MIL-STD-105E, Class II, Double Sampling, AQL=0.4
验收标准 正常检验两次抽样, AQL=0.4

5. Temperature Range/工作温度 $-30\sim 70^{\circ}\text{C}$

6. Average Weight/平均重量 2.75g

7. Chemical System/化学构成 Li/MnO₂

8. Discharge Performance/放电性能

	Minium Average Duration 平均最小放电时间 (h)	Conditions/条件
New battery/新电池 Tested within 30days after delivery	1000	Continuous discharge at $20\pm2^{\circ}\text{C}$, $55\pm 20\text{RH}\%$ under load $15\text{k}\Omega$ for 24 hrs/day to EPV 2.0V 在 $20\pm2^{\circ}\text{C}$, $55\pm 20\text{RH}\%$ 负载电 阻 $15\text{k}\Omega$ 下连续放电, 终止电 压 2.0V
After 12 mth.at $20\pm2^{\circ}\text{C}$ 在 $20\pm2^{\circ}\text{C}$ 下存放 12 个月	990	
After 3 mth.at $45\pm2^{\circ}\text{C}$ 在 $45\pm2^{\circ}\text{C}$ 下存放 3 个月	990	

Acceptance Standard

验收标准

(1) Test nine batteries

抽取 9 只电池放电

(2) Calculate the average without the exclusion of any result

计算 9 只电池的平均放电时间

- (3) If this average is equal to or greater than the specified figure and no more than one battery has a service output of less than 80% of the specified figure, the battery are considered to conform to service output.

如果平均值等于或大于规定值，则判放电时间合格

(4) One re-test is allowed to confirm the previous result.

如以上结果不合格，可做一次重测。

9. Leakage/漏液

Item 项目	Requirements 要求	Test Condition 测试条件
Leakage 漏液	No Leakage 没有漏液	45±2°C, 55±20RH%, 30days 45±2°C, 55±20RH%, 30 天

10. Self-discharge/自放电: $\leq 1\%$ /year (Condition: 20±2°C, 55±20RH%, 12mth)

11. Shelf Life/存放期: 1 year (Condition: 20±2°C, 55±20RH%)

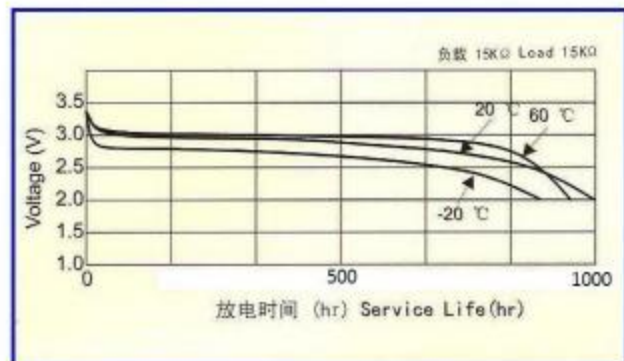
12. Discharge Characteristics/放电图

标准曲线 STANDARD CHARACTERISTICS

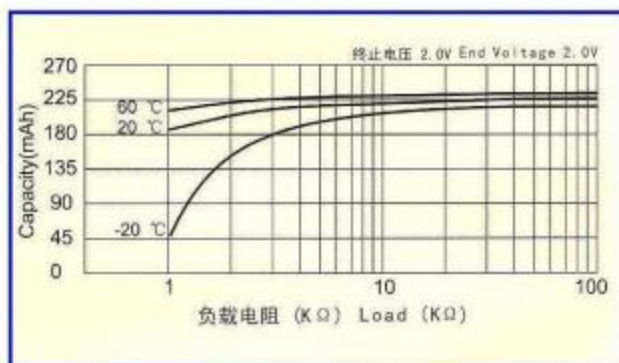
定电阻放电曲线
Discharge Characteristics



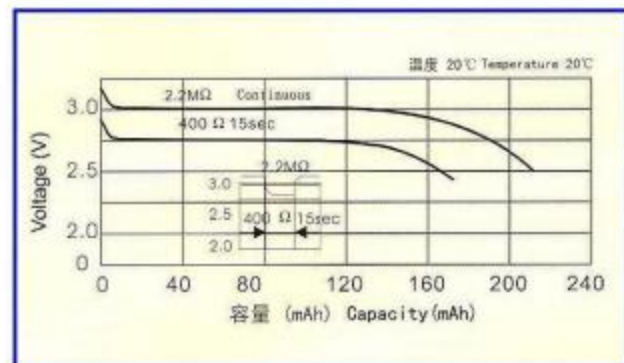
温度放电曲线
Temperature Characteristics



电阻容量曲线
Load-capacity



脉冲放电曲线
Pulse Discharge Characteristics

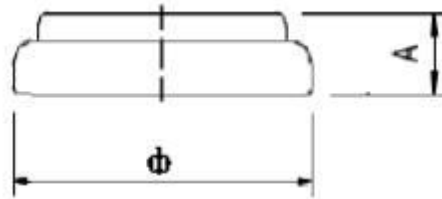


13. Compliance & Environmental Information/环保法规信息

This product complies with EU Battery Directive 2006/66/EC, RoHS Directive
本产品符合欧盟电池指令 2006/66/EC 和 RoHS 指令。

14. Battery Dimensions

电池尺寸



$\Phi=19.7\sim20.0\text{mm}$ $A=2.9\sim3.3\text{mm}$

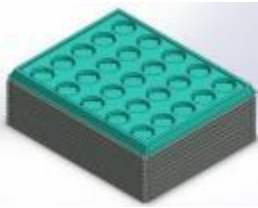
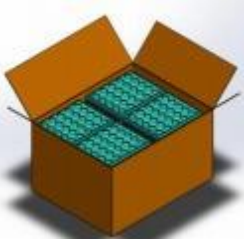
15. Caution for Use/使用注意事项

- (1) The battery shall be installed with its “+” and “-” polarity in correct position, otherwise may cause short circuit.
正确安装和使用电池，避免装错正负极防止短路。
- (2) Short-circuiting, heating, disposing of into fire and disassembling the battery are prohibited
请勿将电池短路、加热、投入火中或拆解电池。
- (3) New and used batteries cannot be used at the same time.
新、旧电池不能混用
- (4) Keep away from the small children, if swallowed promptly see doctor.
妥善保管电池，以防幼儿误吞。
- (5) Do not recharge the batteries.
请勿对电池进行充电

16. Marking on battery/标记

- | | |
|-------------------------------|--------|
| (1) Model/型号 | CR2032 |
| (2) Voltage/电压 | 3V |
| (3) Polarity Marking/正极标记 | “+” |
| (4) Brand of manufacturer/商标: | |
| (5) Others/其它 | |

17. Packing Specifications/包装资料

包装名称		材料	尺寸	数量
Single Battery		/	Ø19.7~20.0mm Thickness;2.9~3.3mm	1
Tray		Plastic	134*165*7.5(mm)	5*5=25
Inner package		PVC Film	135*165*50(mm)	10*25=250
Carton Box		A=B	34.5*27.5*20.5(CM)	250*20=5000
Sealing Box		/	/	/