

WAMA ELECTRONICS TECH CO.,LTD

1. 【SCOPE】

This specification applies to the following 3.0v lithium button cell CR2450 made by WAMA ELECTRONICS TECH CO.,LTD

2. [RATINGS]

TABLE I:

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	ITEM	UNIT	SPECIFICATIONS	CONDITIONS	
Nomi	Nominal voltage		3.0		
Nomir	Nominal capacity		550	Standard discharge with load 7.5kΩ	
	ous short–circuit current	mA	≥250	Time≤0.5 second	
Off-lo	Off-load voltage		≥3.20		
Operatin	Operating temperature		-20~60		
Stand	lard weight	g	6.2	Unit cell	
Service	Initial Standard 1550 h	1550 h	Continuous discharge with load 7.5kΩ, till 2.0v		
output	After 12 months storage	Standard	1465 h	end-voltage at 20~25°C	

TABLE II:

ITEM	CONDITIONS	CHARAC	TERISTICS
Thermal durability	Kept for 10 days at 50 $^\circ\!$	Standard	1465 h
Self-discharge rate	Stored for 12 months at normal temperature and humidity	*	£5%

3. **[PERFORMANCE AND TEST METHODS]**

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature, 20° C ~25°C; environmental humidity, $65\pm20\%$. Please refer to Table III

4. **[SUGGESTIONS AND CAUTIONS]**

- 4.1 Install batteries correctly.
- 4.2 Ensure the contact points to be clean and conductive.
- 4.3 Do not mix different types, different brands batteries to serve together.
- 4.4 Do not heat, recharge the batteries.
- 4.5 Do not dispose of the batteries in fire.
- 4.6 Keep away from the small children, if swallowed promptly see doctor.
- 4.7 Pay attention to the producing date.



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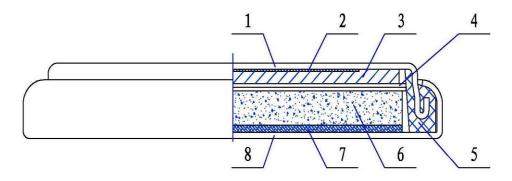
TABLE III:

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No	ITEM	TEST METHODS	STA	STANDARED	
1	Dimensions	Using vernier caliper (accuracy≥0.02) while	Diameter	24.5 (-0.20) mm	
	Dimensions	avoiding short-circuit	Height	5.0 (-0.20) mm	
2	Off-load voltage	Using multimeter (accuracy \geqslant 0.25%) internal resistance \geqslant 1M Ω	· · · · · · /		
3	Instantaneous short-circuit current	Time of short-circuit should be less than 0.5 second and avoid repeated test within half an hour			
4	Appearance	Eyeballing	Bright, cle leakage, Ar	an, no rust, no d no flaw	
5	Capacity	Continuously discharge with load $7.5k\Omega$, temperature at $20~25^{\circ}C$, humidity at $65\pm20\%$ till 2.0v end-voltage (for fresh battery only: within 3 months)	3	:1550 h	
6	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	Characteris	stics keep stability	
7	Leakage at high temperature test	Stored under temperature (60°C) for 7 days	No lea	ıkage allowed	
8	Over discharge Test	After 2.0v end-voltage, continuously discharged for 5 hours	No lea	kage allowed	

5. 【CUTAWAY DIAGRAM OF 3.0V LITHIUM MANGANESE DIOXIDE BUTTON CELL】

3. 0V锂-二氧化锰扣式电池剖面图

Cutaway Diagram of 3.0V Lithium Manganese Dioxide Button Cell



- 1、负极壳
- 2、负极集流网
- 3、负极锂片
- 4、隔膜

- 5、密封胶圈
- 6、正极片
- 7、正极集流网
- 8、正极壳

- 1、Cathode Shell
- 2. Cathode collector net
- 3. Cathode (slice of lithium)
- 4. Septum

- 5. Gasket
- 6, Anode(MnO₂)
- 7. Anode collector net
- 8, Anode shell



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规格参数 SPECIFICATIONS

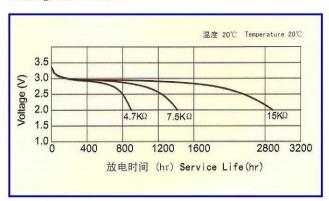


型 号 Model No.	CR2450	结 构 图 Dimensions (mm)
标称电压 Nominal Voltage	3 (V)	
标称容量 Nominal Capacity	550 (mAh)	
标准电阻 Load Resistance	7.5 (kΩ)	
重量 Weight	6.2 (g)	Ø24.5 · 0.3 Ø21 → ₹
使用温度 Using Temperature	-20°C~60°C	

标准曲线 STANDARD CHARACTERISTICS

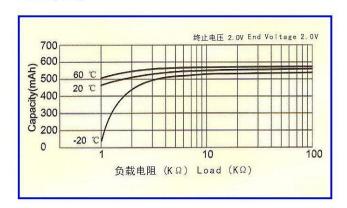
定电阻放电曲线

Discharge Characteristics



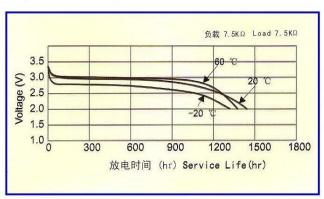
电阻容量曲线

Load-capacity



温度放电曲线

Temperature Characteristics



脉冲放电曲线

Pulse Discharge Characteristics

