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Datasheet Lithium Manganese Dioxide Coin Button Battery

RS Stock number 866-0679



Description:

Non-rechargeable lithium coin cells CR type suitable for intermittent high load applications Long shelf life Applications: memory support, watches, calculators and cameras

Specifications:

Capacity: Chemistry: Diameter: Nominal Voltage: Operating Temperature Range: Size: Terminal Type: 610 mAh Lithium Manganese Dioxide 24.5 mm 3 V -30 – 60 °C CR2450 Standard

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



Ratings:

ITEM				UNIT	SPECIFICATIONS	CONDITIONS	
Nominal voltage				V	3.0	Standard discharge	
Nominal capacity				mAh	590	Standard discharge	
Instantaneous short-circ current		ort-circuit	mA	≥350	Time≤0.5second		
Off-load voltage				V	≥3.20	Unit cell	
Storage temperature				°C	0-35		
Standard weight				g	6.5	Unit cell	
Service output	Initial		h	496	Continuous discharge with load 3 k Ω ,till 2.0v		
	After stora	12 age	months	h	486	end-voltage at 20-25°C	

ITEM	CONDITIONS	CHARACTERISTICS
Self-discharge rate	Stored for 12 months at normal temperature, then continuously discharged with 15 k Ω load till 2.0v end-voltage	Less than ≤2%

Performance and Test Methods:

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature 20° C - 25° C; environmental humidity $65 \pm 20\%$

Suggestions and Cautions:

- 1. Install batteries correctly
- 2. Ensure the contact points to be clean and conductive
- 3. Do not mix different types, different brands batteries to serve together
- 4. Do not heat, recharge the batteries
- 5. Do not dispose of the batteries in fire
- 6. Keep away from small children, if swallowed promptly see a doctor
- 7. Pay attention to the producing date

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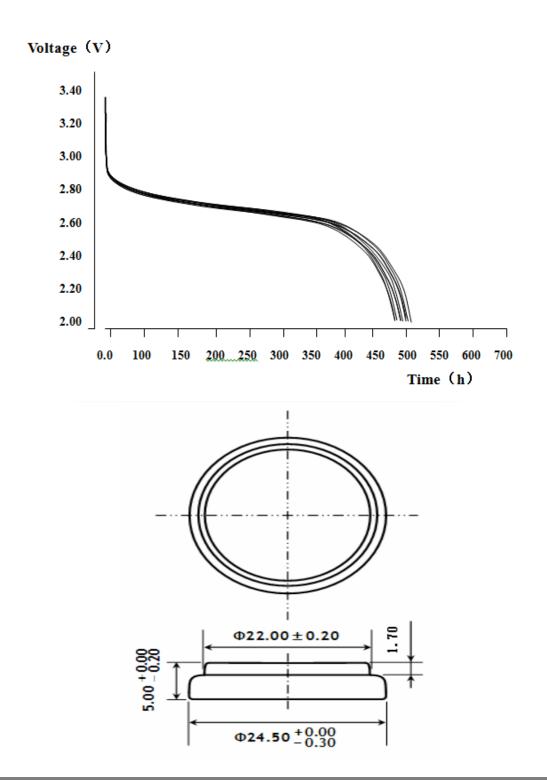
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NO	ITEM	TEST METHODS	STANDARED	
1	Dimensions	Using vernier caliper(accuracy ≥ 0.02) while avoiding short-circuit	Diameter	24.5(- 0.15)mm
			Height	5.00(- 0.20)mm
2	Off-load voltage	Using multimeter(accuracy \ge 0.25%)internal resistance \ge 1M Ω	≥3.20V	
3	Instantaneous Short-circuit current	Time of short-circuit should be less than 0.5 Second and avoid repeated test within half An hour	≥350mA	
4	Appearance	Eyeballing	Bright ,clean leakage, And	, no rust, no no flaw
5	Capacity	Continuously discharge for 8 hour with load 3 k Ω ,temperature at 20-25°C,humidity at 65 \pm 20% till 2.0v end-voltage(for fresh battery only: within 3 months)	≥478h	
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	Characteristic stability	s keep
7	Leakage at high temperature	Stored under temperature(45°C)for 30 days	Leakage rate	2≤0.5%
8	Over Discharge Test	After 2.0v end-voltage, continuously discharged for 5 hours	No leakage	allowed



Discharge Characteristics:

With load 3.0 kΩ (CR2450)



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