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Datasheet

Lithium Manganese Dioxide Coin Button Battery

RS Stock number [494-2425](#)



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

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Ratings:

ITEM	UNIT	SPECIFICATIONS	CONDITIONS
Nominal voltage	V	3.0	Standard discharge
Nominal capacity	mAh	540	Standard discharge
Instantaneous short-circuit current	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	Continuous discharge with load 3 kΩ,till 2.0v end-voltage at 20-25°C
	After 12 months storage	h	

ITEM	CONDITIONS	CHARACTERISTICS
Self-discharge rate	Stored for 12 months at normal temperature, then continuously discharged with 15 kΩ 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 ± 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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NO	ITEM	TEST METHODS	STANDARD	
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 $\geq 0.25\%$)internal resistance $\geq 1M\Omega$	$\geq 3.20V$	
3	Instantaneous Short-circuit current	Time of short-circuit should be less than 0.5 Second and avoid repeated test within half An hour	$\geq 350mA$	
4	Appearance	Eyeballing	Bright ,clean, no rust, no leakage, And no flaw	
5	Capacity	Continuously discharge for 8 hour with load 3 k Ω ,temperature at 20-25 $^{\circ}C$,humidity at 65 $\pm 20\%$ till 2.0v end-voltage(for fresh battery only: within 3 months)	$\geq 478h$	
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	Characteristics stability	keep
7	Leakage at high temperature	Stored under temperature(45 $^{\circ}C$)for 30 days	Leakage rate $\leq 0.5\%$	
8	Over Discharge Test	After 2.0v end-voltage, continuously discharged for 5 hours	No leakage allowed	

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Discharge Characteristics:

With load 3.0 kΩ (CR2450)

