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Datasheet

Lithium Manganese Dioxide Coin Button Battery

RS Stock number [597-172](#)



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:	36 mAh
Chemistry:	Lithium Manganese Dioxide
Diameter:	12.5 mm
Height:	2 mm
Nominal Voltage:	3 V
Operating Temperature Range:	-30 – 60 °C
Size:	CR1220
Terminal Type:	Standard

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Suggestions and Cautions:

- Install batteries correctly
- Ensure the contact points to be clean and conductive
- Do not mix different types, different brands batteries to serve together
- Do not heat, recharge the batteries
- Do not dispose of the batteries in fire
- Keep away from small children and consult a doctor immediately if swallowed
- Pay attention to the producing date

Performance and Test Methods:

Unless stated, all tests were carried out at a temperature of 20 - 25°C and humidity of 65±20%.

NO	ITEM	TEST METHODS	STANDARED	
1	Dimensions	Using vernier caliper(accuracy ≥ 0.02) while avoiding short-circuit	Diameter	12.5(-0.15)mm
			Height	2.00(-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	$\geq 100mA$	
4	Appearance	Eyeballing	Bright ,clean, no rust, no leakage, And no flaw	
5	Capacity	Continuously discharge for 8 hour with load 4.7k Ω ,temperature at 20-25°C,humidity at 65 $\pm 20\%$ till 2.0v end-voltage(for fresh battery only: within 3 months)	$\geq 60h$	
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	keep stability
7	Leakage at high temperature	Stored under temperature(45°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 4.7 k Ω (CR1220)

