

### ENGLISH

# Datasheet Lithium Manganese Dioxide Coin Button Battery

RS Stock number 866-0669



### 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: Height: Nominal Voltage: Operating Temperature Range: Size: Terminal Type: 90 mAh Lithium Manganese Dioxide 20 mm 1.6 mm 3 V -30 – 60 °C CR2016 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:

NO	ITEM	TEST METHODS	STANDARD
1	Dimensions	Using vernier caliper(accuracy ≥ 0.02) while avoiding short-circuit	Diameter 20.0(- 0.15)mm
			Height 1.60(- 0.20)mm
2	Off-load voltage	Using multimeter(accuracy $\ge$ 0.25%)internal resistance $\ge$ 1M $\Omega$	≥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	≥300mA
4	Appearance	Eyeballing	Bright ,clean, no rust, no leakage, And no flaw
5	Capacity	Continuously discharge for 8 hour with load $3k\Omega$ ,temperature at 20-25°C,humidity at 65 $\pm$ 20% till 2.0v end-voltage(for fresh battery only: within 3 months)	≥75h
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≤0.5%
8	Over Discharge Test	After 2.0v end-voltage, continuously discharged for 5 hours	No leakage allowed

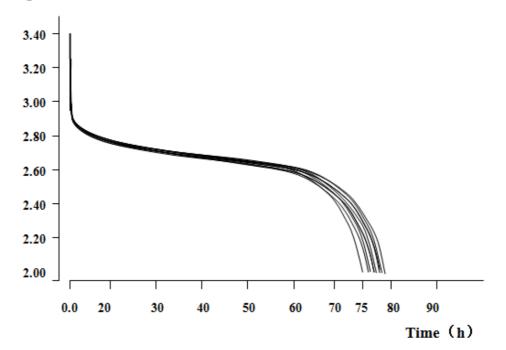


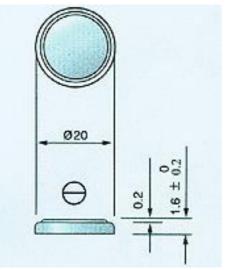
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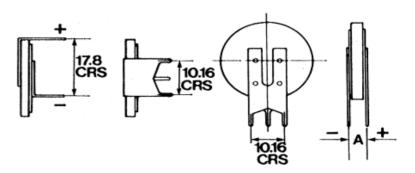
### **Discharge Characteristics:**

With load 3.0 k $\Omega$  (CR2016)









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