

## 1 . [SCOPE]

This specification applies to the following 3.0v lithium button cell CR2032 made by

**PRO-ELEC**

## 2. [RATINGS]

TABLE I:

ITEM		UNIT	SPECIFICATIONS	CONDITIONS
Nominal voltage		V	3.0	Standard discharge
Nominal capacity		mAh	235	Standard discharge
Instantaneous short-circuit current		mA	300	Time ≤ 0.5 second
Off-load voltage		V	≥ 3.20	Unit cell
Storage temperature			0-35	
Standard weight		g	3.0	Unit cell
Service output	Initial	h	200	Continuous discharge with load 3 k ,till 2.0v end-voltage at 20-25
	After 12 months storage	h	196	

TABLE II:

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

## 3. [PERFORMANCE AND TEST METHODS]

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature, 20 -25 ; environmental humidity, 65±20%.

## 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 swallow promptly see doctor
- 4.7 Pay attention to the producing date

TABLE III:

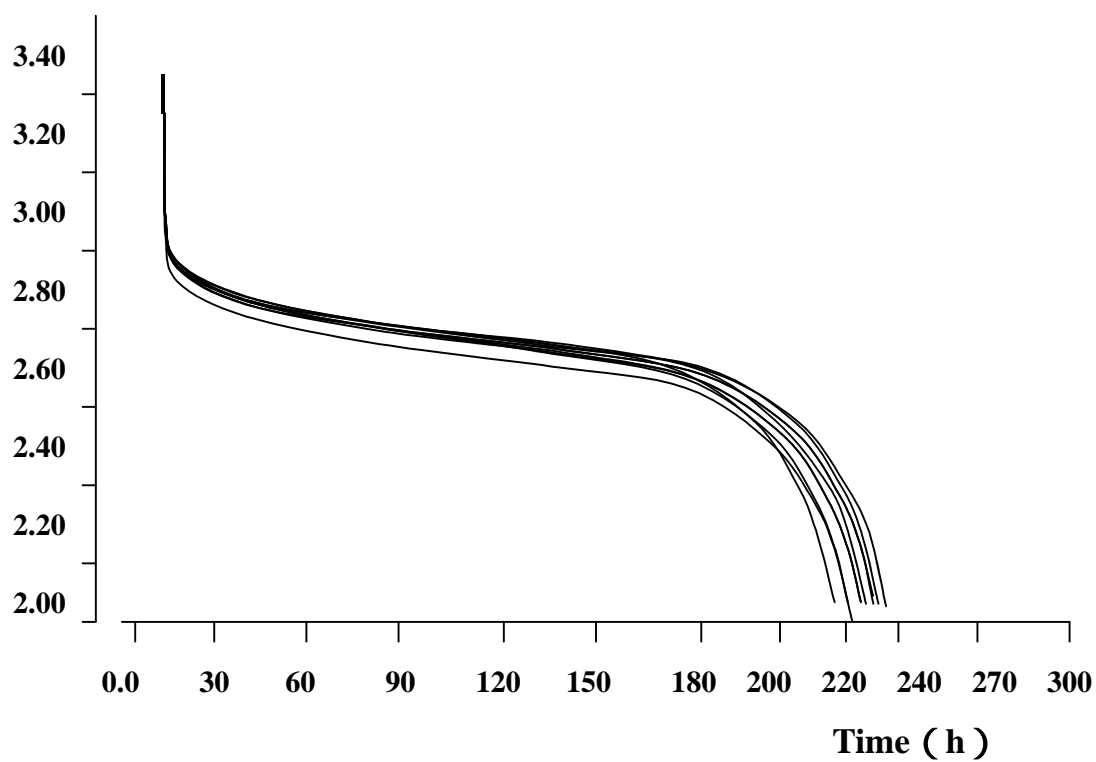
NO	ITEM	TEST METHODS	STANDARD	
1	Dimensions	Using vernier caliper(accuracy $\geq$ 0.02) while avoiding short-circuit	Diameter	20.0(-0.15)mm
			Height	3.20(-0.20)mm
2	Off-load voltage	Using multimeter(accuracy $\geq$ 0.25%)internal resistance $\geq$ 1M	$\geq$ 3.20V	
3	Instantaneous Short-circuit current	Time of short-circuit should be less than 0.5 Second and avoid repeated test within half An hour	$\geq$ 300mA	
4	Appearance	Eyeballing	Bright ,clean, no rust, no leakage, And no flaw	
5	Capacity	Continuously discharge for 8 hour with load 3k ,temperature at 20-25 ,humidity at 65 $\pm$ 20% till 2.0v end-voltage(for fresh battery only: within 3 months)	$\geq$ 200h	
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

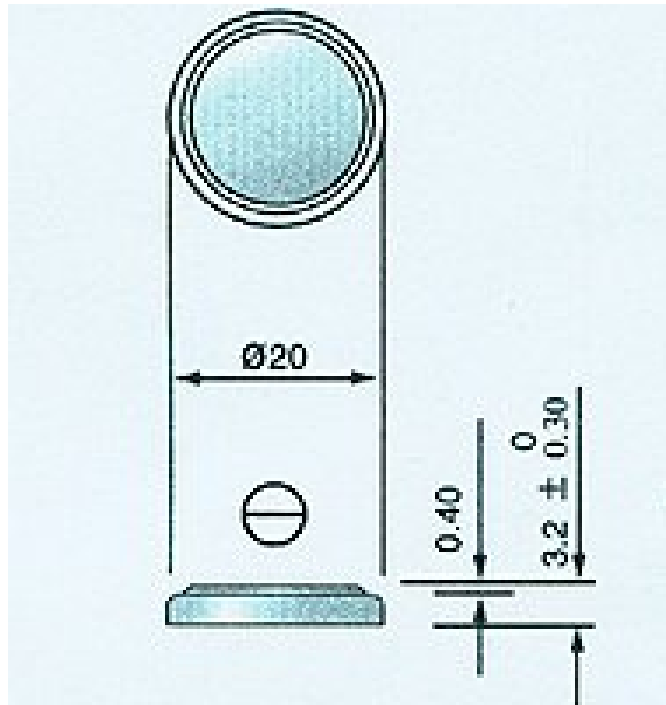
7	Leakage at high temperature	Stored under temperature(45 )for 30 days	Leakage rate $\leq$ 0.5%
8	Over Discharge Test	After 2.0v end-voltage, continuously discharged for 5 hours	No leakage allowed

## 5 . [DISCHARGE CHARACTERISTICS]

With load 3.0 k (CR2032)

Voltage ( V )





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