Shenzhen CLN Electronics Co., Ltd

1. [SCOPE]

This specification applies to the following 3.0v lithium button cell CR2016 made by Shenzhen CLN Electronics Co., Ltd.

2. [RATINGS]

TABLE I:

TIBLE I.						
ITEM		UNIT	SPECIFICATIONS	CONDITIONS		
Nominal voltage		V	3.0	Standard discharge		
Nominal capacity		mAh	75	Standard discharge		
Instantaneous short-circuit current		mA	≥300	Time ≤0.5second		
Off-load voltage		V	≥3.20	Unit cell		
Storage temperature		$^{\circ}\mathbb{C}$	0-35			
Standard weight		g	1.8	Unit cell		
Service output	Initial	h	75	Continuous discharge with load 3 k Ω ,till 2.0v end-voltage at 20-25°C		
	After 12 months storage	h	73.5			

TABLE II:

ITEM	CONDITIONS	CHARACTERISTICS	
	Stored for 12 months at normal	Less than ≤2%	
Self-discharge	temperature, then continuously		
rate	discharged with 30 k Ω load till 2.0v		
	end-voltage		

3. [PERFORMANCE AND TEST METHODS]

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature,20 $^{\circ}$ C-25 $^{\circ}$ C; environmental humidity,65 \pm 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 form the small children, if swallow promptly see doctor
- 4.7 Pay attention to the producing date

TABLE III:

NO	ITEM	TEST METHODS	STANDARED	
		Using vernier caliper(accuracy ≥ 0.02) while	Diameter	20.0(-0.15)mm
1	Dimensions	avoiding short-circuit	Height	1.60(-0.20)mm
2	Off-load voltage	Using multimeter(accuracy \geq 0.25%)internal resistance \geq 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	≥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 $20-25 ^{\circ} C$, 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	

5. [DISCHARGE CHARACTERISTICS] With load 3.0 k Ω (CR2016)

