

1. [SCOPE]

This specification applies to the following 3.0v lithium button cell CR2016 made by

2. [RATINGS]

TABLE 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		င	0-35		
Standard weight		g	1.8	Unit cell	
Service output	Initial	h	75	Continuous discharge with load 3 k Ω , till	
	After 12 months storage	h	73.5	2.0v end-voltage at 20-25℃	

TABLE II:

ITEM	CONDITIONS	CHARACTERISTICS
Self-discharge rate	Stored for 12 months at normal temperature, then continuously discharged with 30 k Ω 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° C- 25° C; environmental humidity, $65\pm20^{\circ}$.

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)	Diameter	20.0(-0.15)mm	
1	Dimensions	while avoiding short-circuit	Height	1.60(-0.20)mm	
	Off-load	Using multimeter(accuracy ≥	≥3.20V		
2	voltage	0.25%)internal resistance≥1M Ω			
	Instantaneous	Time of short-circuit should be less than			
3	Short-circuit	0.5	≥300mA		
	current Second and avoid repeated test within				
An hour					
4	Appearance Eyeballing		Bright ,clean, no rust, no		
			leakage, And no flaw		
_	Capacity	Continuously discharge for 8 hour with	≥75h		
5		load			
		3k Ω , temperature at 20-25 °C, humidity at			
		65			
		$\pm 20\%$ till 2.0v end-voltage(for fresh			
		battery only: within 3 months)			
		Put battery on the platform of the			
6	Vibration test	vibrations	Characteristics keep stability		
U	vibration test	Machine, start the machine and adjust the			
		Frequency form 10 times per minute to 15	Stability		
	Times per minute. keep it running for				
		hour			
	Leakage at				
7	high	Stored under temperature(45 °C)for 30	Leakage rate≤0.5%		
	temperature	days			
	Over	After 2.0v end-voltage, continuously			
8	Discharge	discharged for 5 hours	No leakage allowed		
	Test				

5. [DISCHARGE CHARACTERISTICS]

With load 3.0 k Ω (CR2016)

PRO-ELEC

Voltage (V)



