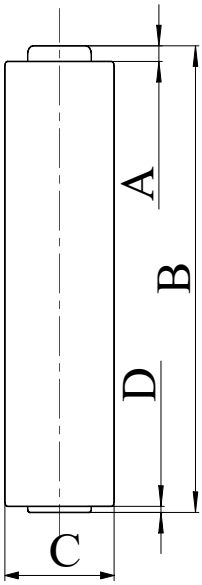
PRODUCT SPECIFICATION

1.Scope

This specification is suitable for the performance of following battery：

A:1.8-2.3mm	C:9.5-10.5mm
B:43.3-44.5mm	D:0.6-0.8mm



Model：AAA / R03

Chemical System： Zn/ZnCL—H_2O/MnO_2

Nominal voltage： 1.5V

Heavy Metal Contents：

Hg	Cd	Pb
ND	<20ppm	<800ppm

2.Ratings

Nominal Voltage		1.5V
Temperature Range for operation	Standard Temperature	20℃±2℃
	Special Temperature	30℃±2℃
	High temperature	45℃±2℃
Humidity Range for Storage	Standard Humidity	45%~75%
	Special Humidity	35%~65%
Dimension	Diameter	9.5~10.5mm
	Height	43.3~ 44.5mm
Appro weight		7.6g

3.Electrical Characteristic

Condition: on-load resistance 3.9Ω ,precision±0.5%,time:0.3S, temperature: 20℃±2℃.
Testing should be done within 15 days upon the receipt of goods.

	Off-load Voltage(V)	On-load Voltage(V)	Instance current(A)
Fresh Battery	1.67-1.72	1.400	3.0
Stored for 12 months under Room Temp	1.65-1.68	1.300	2.5

4. Discharge Characteristic

Condition: temperature: 20℃±2℃.
Testing should be done within 15days upon receiving batteries

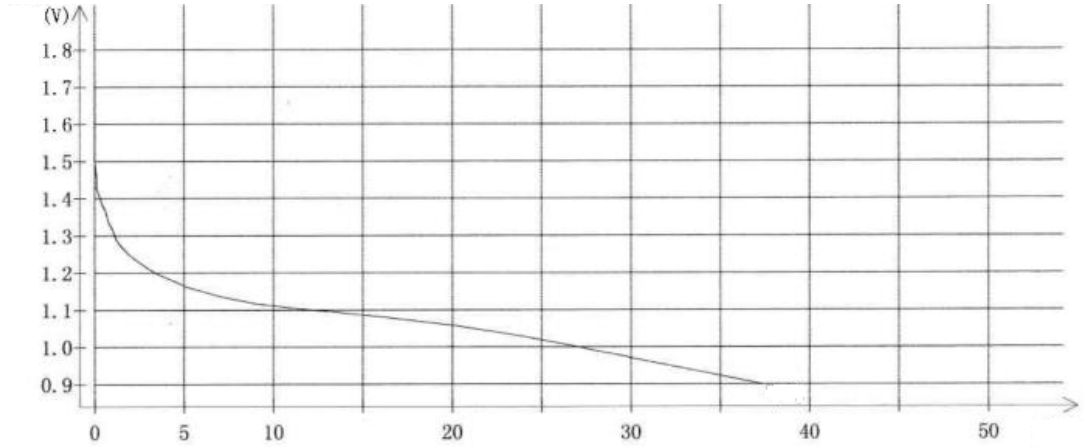
	Discharge condition			Minimum average Discharge time	
reference standard	on-load resistance	Discharge time per day	end Voltage(V)	fresh Battery	stored for 12 months under Room Temp
	3.9Ω	24h/day	0.9V	⩾35m	⩾30m
	3.6Ω	15s/min, 24h/day	0.9V	⩾180cycles	⩾153cycles
	5.1Ω	4m/h , 8h/d	0.9V	⩾90m	⩾75 m
	10Ω	1h/d	0.9V	⩾2.7h	⩾2.3h
	24Ω	15s/1m, 8h/day	1.0V	⩾7.5h	⩾6.5h
	75Ω	4h/d	0.9V	⩾25h	⩾21 h

Inspect standard: discharge 9 samples for each condition. If this average is equal to or greater than the specified figure and no more than one battery has a service output of less than 80 % of the specified figure, the batteries are considered to conform to service output.

Nominal Capacity

175mAh (conditions: with 3.9R resistance load, 24h/d, end voltage: 0.9V, operating temperature: 20±2°C)

DISCHARGE CURVES



5. Anti-leakage characteristic

Discharge condition	on-load resistance	Discharge time per day	end Voltage (V)	Characteristic	Inspect standard
temp：20℃±2℃ Hunl： 45%~75%	3.9Ω	24h/d	0.35V	Deformation is less than 0.2mm and no visual leakage	N=30,AC=0, Re=1

6.Marks:

The following message will be printed or stamped on the body of the battery:

(1) Model
(2) Nominal Voltage
(3) Pole
(4) Warning
(5) Period of validity

7.Storage life

Under room temp & suitable environment, its shelf time is 3years.

8. **Notices**

(1) Make sure batteries are installed correctly (+/-).

(2) Do not attempt to decomposition, recharge or heat the battery.

(3) Do not mix old with new batteries or different types of batteries.

(4) Remove batteries from appliances if unused for extended period of time.