





#### **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

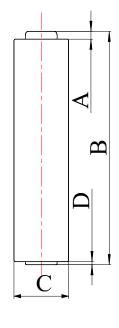
Model: AAA / R03

Chemical System: Zn/ZnCL—H2O/MnO2

Nominal voltage: 1.5V

Heavy Metal Contents:

Hg	Cd	Pb
ND	<20ppm	<800ppm



## 2.Ratings

Nominal Voltage	1.5V		
Temperature Range	Standard Temperature	20°C ±2°C	
for operation	Special Temperature	<b>30</b> ℃±2℃	
	High temperature	<b>45</b> ℃±2℃	
Humidity Range for	Standard Humidity	45%~75%	
Storage			
	Special Humidity	35%~65%	
Dimension	Diameter	9.5~10.5mm	
	Height	43.3~ 44.5mm	
Appro weight		7.8g	



# **3.Electrical Characteristic**

Condition: on-load resistance 3.9  $\Omega$  ,precision  $\pm$  0.5%,time:0.3S, temperature: 20  $^{\circ}C \pm$  2  $^{\circ}C$ . Testing should be done within 15 days upon receiving batteries.

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

## 4. Discharge Characteristic

Condition: temperature:  $20^{\circ}C \pm 2^{\circ}C$ .

Testing should be done within 15days upon receiving batteries

	Discharge condition			Minimum average Discharge time		
	on-load	Discharge	end	fresh Battery	stored for 12	
refere	resistance	time per day	Voltage(V)		months under	
nce					Room Temp	
stand	<b>3.9</b> Ω	24h/day	0.9V	≥38m	≥35m	
ard						
	<b>3.6</b> Ω	15s/min,	0.9V	≥185cycles	$\geq$ 166cycles	
		24h/day				
	<b>5.1</b> Ω	4m/h , 8h/d	0.9V	≥95m	≥85m ≥2.5h	
	<b>10</b> Ω	1h/d	0.9V	≥2.8h		
	<b>24</b> Ω	15s/1m,	1.0V	≥7.6h	≥6.8h	
		8h/day				
	<b>75</b> Ω	4h/d	0.9V	≥26h	≥23 h	

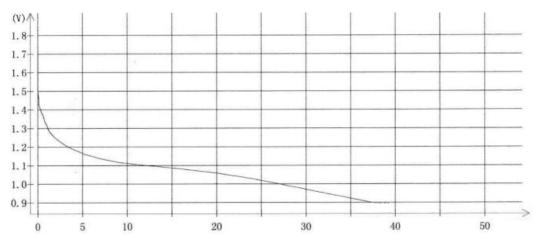
Inspect standard:

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. Discharge 9 samples for each condition.

#### **Nominal Capacity**

195mAh (conditions: with 3.9R resistance load, 24h/d, end voltage: 0.9V, operating temperature: 20±2°C)





### DISCHARGE CURVES

# 5. Anti-leakage characteristic

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

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

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

Do not mix old with new battery or different types of batteries..

Remove batteries from appliances if unused for extended periods of time.