

## Excellent Integrated System Limited

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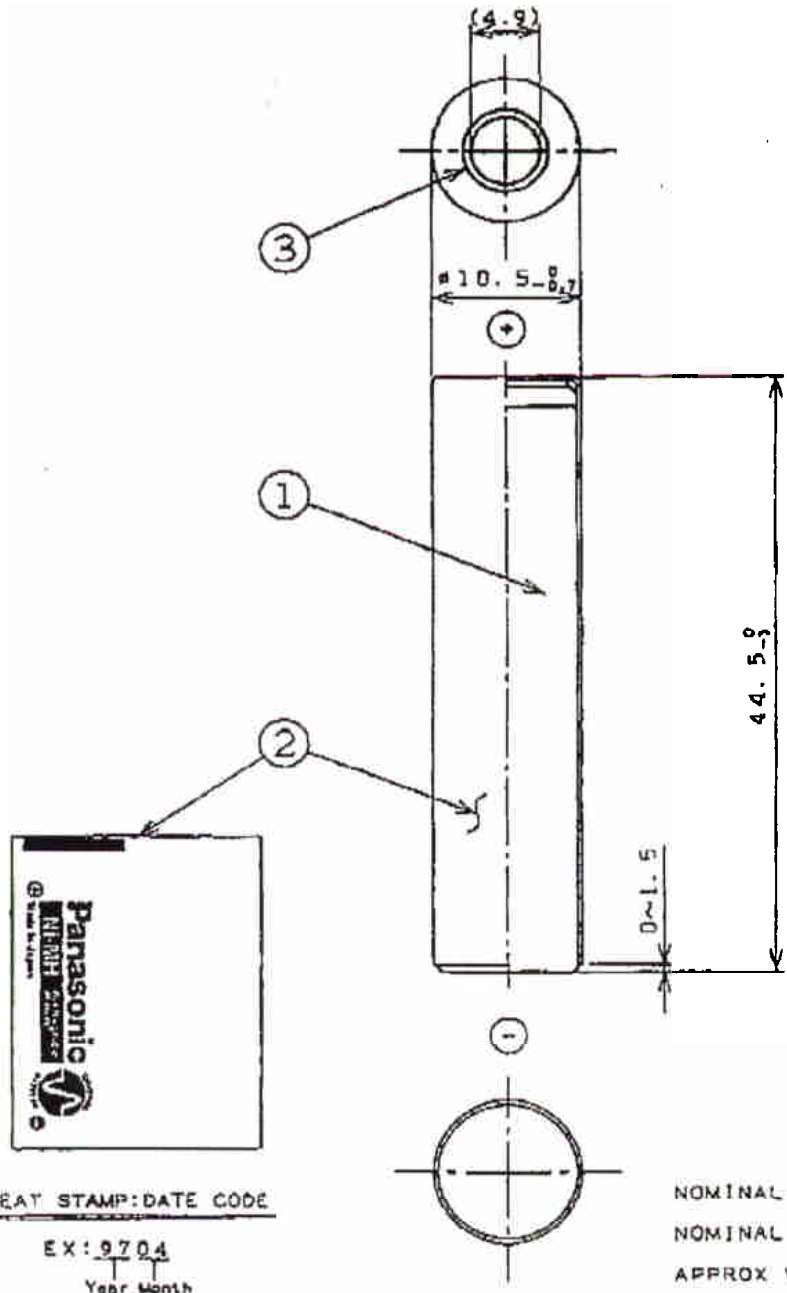
[Panasonic - BSG](#)  
[HHR-55AAAC1F2](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

Commercial Tolerance	Sym.	Date	Revision	Drawn	Checked	Approved

3/8



NOMINAL VOLTAGE : 1.2V  
 NOMINAL CAPACITY : 550mAh  
 APPROX WEIGHT : 12g

3	INSULATOR	PAPER	1		
2	OUTER JACKET	P. V. C. TUBE (FRESH GREEN)	1	PRINT: Panasonic	HEAT STAMP: DATE CODE
1	CELL	HHR-55AAA	1	DISCHARGED	
Sym.	Item or Code No.	Material & Size	qt.	Process	Remark

SEALED NICKEL METAL HYDRIDE BATTERY			Model No.	HHR-55AAC1
			Name	DIMENSION SKETCH
			No.	C2197040201
Scale	Designed	Drawn	Checked	Approved
1	<i>Atsushi Nakajima</i>	<i>Atsushi Nakajima</i>	<i>Atsushi Nakajima</i>	<i>Atsushi Nakajima</i>
	04. APR 97	04. APR 97		

# Cylindrical Ni-MH Battery HHR-55AAA

(Specification)

LEVEL 1

Nominal Voltage		1. 2V/Cell	
Capacity	Current	0. 2C	1. 0C *1
	Nominal	550mAh	510mAh
	Typical	600mAh	550mAh
Dimension (With Tube)	Diameter	10. 5+0 -0. 7mm	
	Height	44. 5+0 -1. 0mm	
Weight		approx. 12g	
Internal Impedance (at 1000Hz)		approx. 30mΩ	
Charge	Standard	55mA×15hours	
	Rapid *2	550mA×1. 5hours (Need Control System)	
Continuous Maximum Discharge Current		1100mA	
Temperature	Charge	Standard	0~45℃
		Rapid	0~40℃
	Discharge		-10~65℃
	Storage		-20~45℃
Continuous Over Charge	Current	0. 05C	
	Term	24hours	
	Temperature	0~45℃	

\*1) Capacity is measured by the condition below.

Charge : 20℃ 550mA×1. 2hrs.  
 Rest : 20℃ 1hr.  
 Discharge: 20℃ 550mA to 1. 0V/cell

\*2) NEED SPECIALLY DESIGNED CONTROL SYSTEM

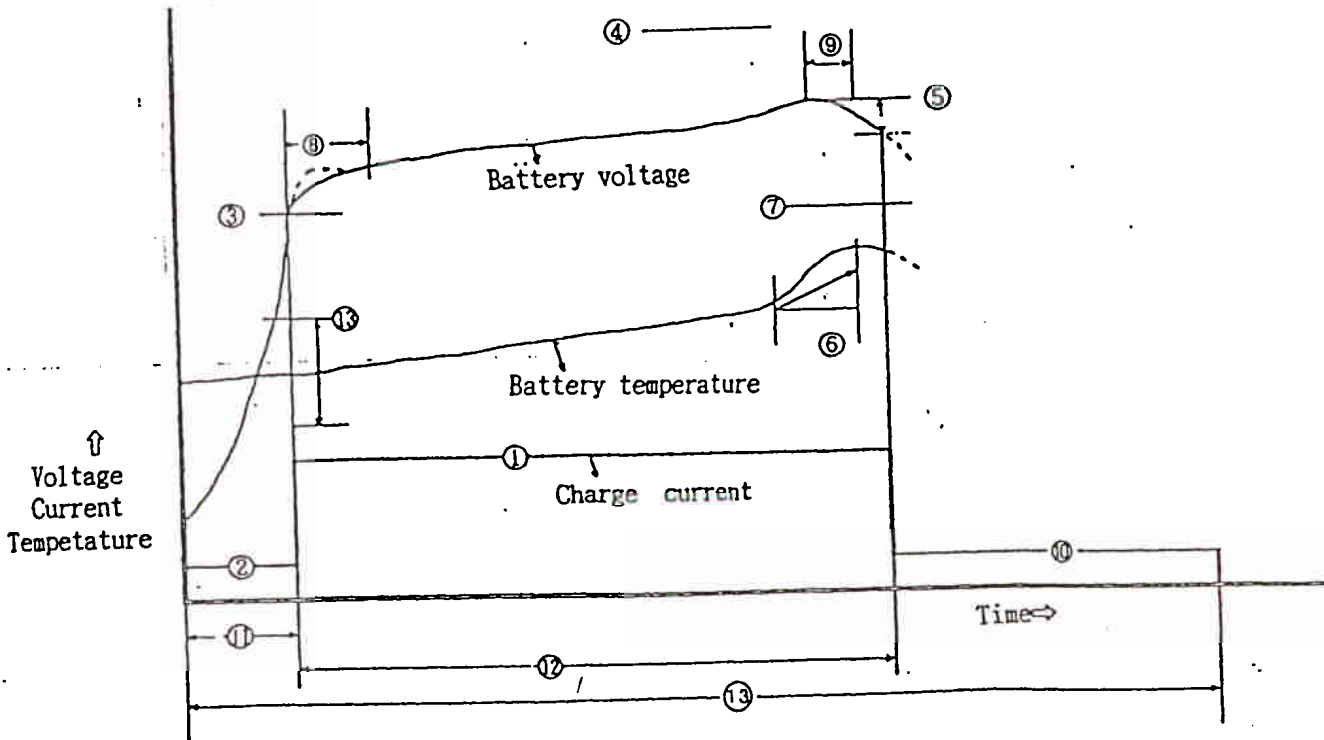
CONTROL  
SYSTEM

-ΔV CUT-OFF; -ΔV=5~10mV/CELL  
 (ΔT/Δt CUT OFF; 1~2℃/min.)  
 AND  
 T-CONTROL ; T=50℃  
 AND  
 RAPID CHARGE TIMER; 75~90min.  
 AND  
 TOTAL TIMER; 10~20hours (TRICKLE CHARGE)

Ni-MH BATTERY; Example on rapid charging system.

1. Basic charging system

- |  |  |
|--|--|
| ①Rapid charge current  | :max. 1CmA   |
| ②Charge current to voltage for rapid charge                          | : 0. 2~0. 3CmA   |
| ③Start voltage of rapid charge                                       | : above about 0. 8V/cell                                       |
| ④Upper limit voltage(to additional charge)                           | : 1. 8V/cell   |
| ⑤Value of minus Delta V(-ΔV)   | : 5~10mV/cell  |
| ⑥Temperature increase rate(dT/dt)                                    | : 1~2 degree C/min.  |
| (This value depends on each appliances. Matching test is important.) |  |
| ⑦Upper limit temperature(TC0)  | : Cylindrical : 55 degree C<br>Prismatic and AAA : 50 degree C |
| ⑧Initial non-detection timer of minus Delta V                        | : 5~10 min.  |
| ⑨Peak Timer  | : 5~10 min   |
| ⑩Additional charge current   | : 1/20~1/30CmA   |
| ⑪Transfer timer to rapid charge                                      | : 60 min.  |
| ⑫Total rapid charge Timer  | : 90 min.  |
| ⑬Total charge timer  | : 10~20 hours  |
| ⑭Ambient temperature of rapid charge                                 | : 0~40 degree C  |



2. Basic Pack Circuit

