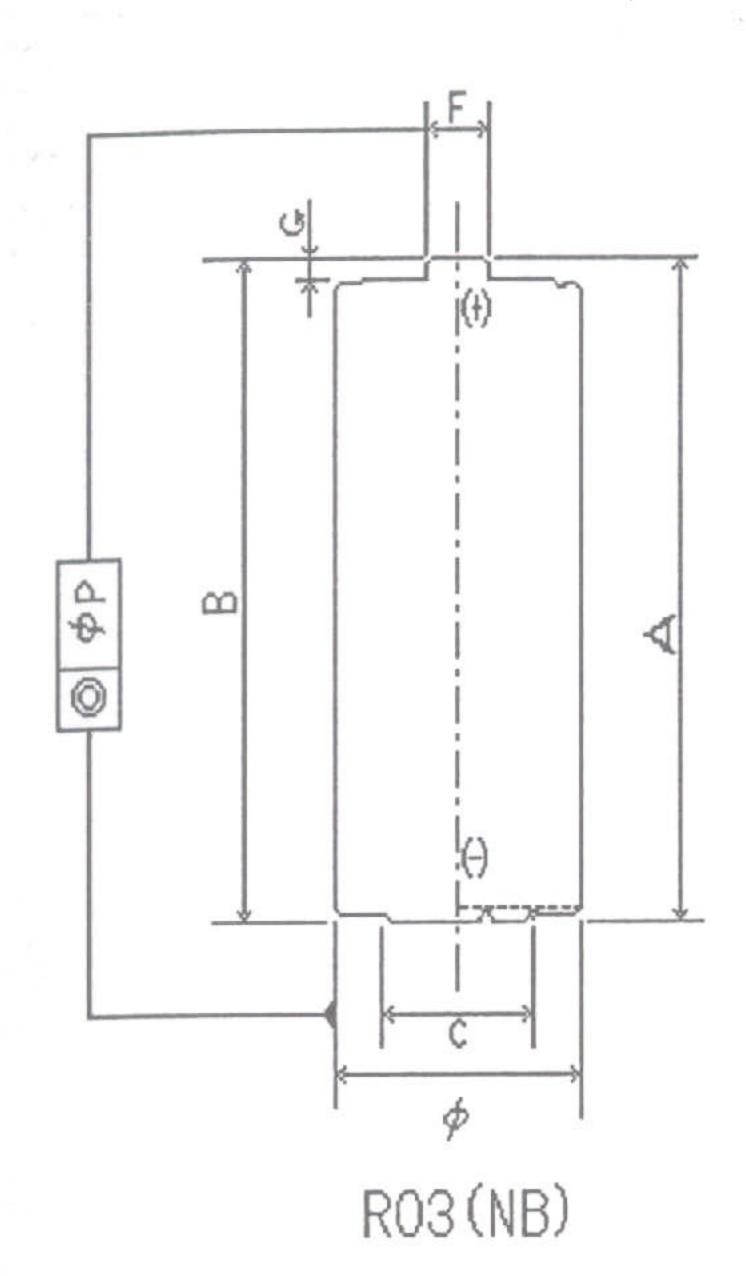
## SPECIFICATION FOR ZINC-CARBON DRY BATTERY R03(NB)

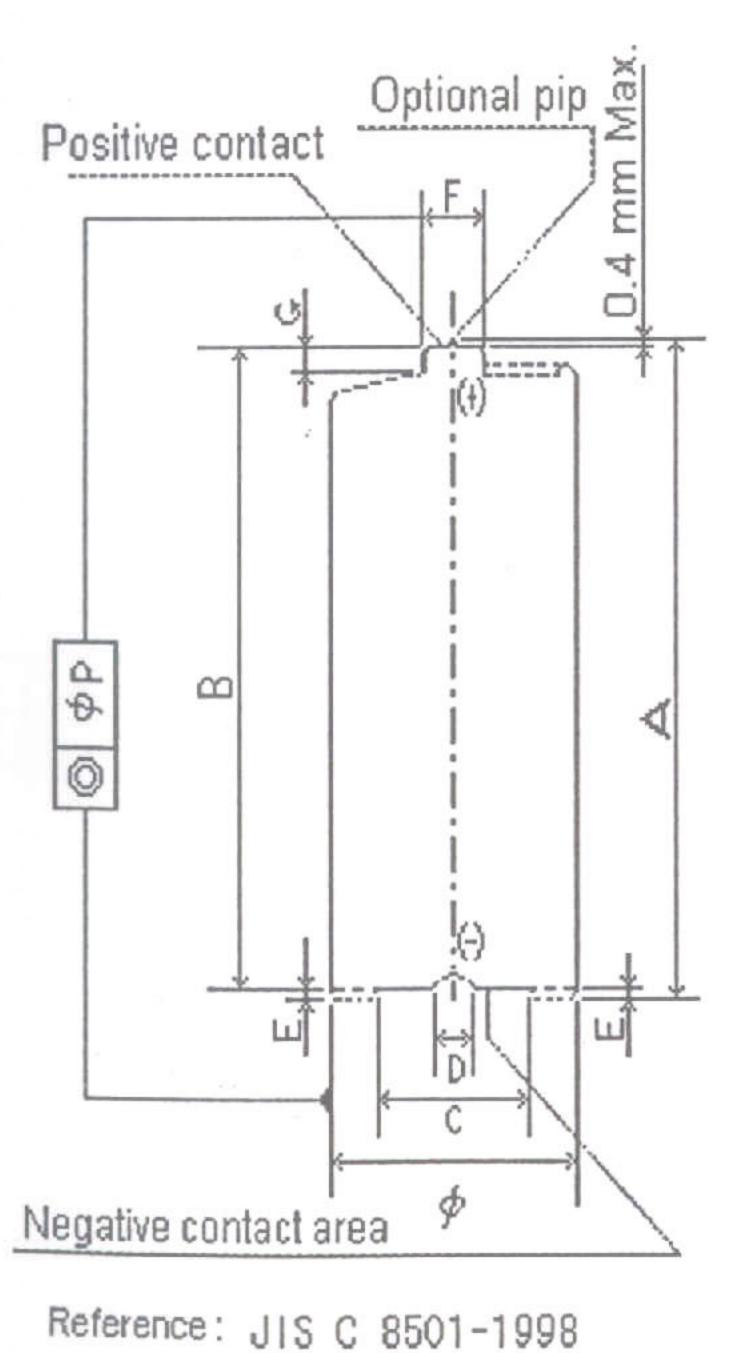
## PRODUCT SPECIFICATIONS SPECIFICATION NAME R03TYPE CARBON ZINC BATTERY PRODUCT NAME JIS C 8501, IEC 60086-1, 60086-2 REFERENCE R03 (NB) NOMINAL 1.5 Volts VOLTAGE AVERAGE 9.2 g WEIGHT Duration should be over the value in Table-1 after the test of 9(testing method). PERFORMANCE O.C.V. and resistance to leakage should meet the Table-1 after the test of 9(testing method). MBI SPEC JIS C 8501 Test condition Table - 1 Initial Initial Unit Discha End 20°C 20°C Temp. load point -rging After After After 12 $(\Omega)$ Humd. (V) time months 24 /day months months. & Expiry(3) 1.52+0.205 1.54+0.185 1.53+0.195 1.725 20±2°C Max V O.C.V 1.5 65±20% Min (RH) 127 143 160 3.6 120 96 15/60s 0.9 cycle cont.(1) 67 74 45 36 62 min 5.1 0.9 4 min × 8times(2) Duration 1.1 2.1 1.9 2.4 1.4 h 0.9 10 1 h 23.5 25.5 16 28.5 0.9 20 75 h After usual discharging test, There shall be neither evidence of electrolyte leakage on the surface of any battery nor deformation the discharge is repeated until discharge over of the specified dimension. CCV drops for the first time below 0.6V. 45±2 °C There shall be neither evidence of electrolyte leakage on After storage for 30 days. under high temperature the surface of any battery nor deformation of the below 70% specified dimension. (RH) Continuously repeat the cycle of 15s On/45s Off with specified load resistance. note The cycle of 4min of beginning at hourly / 56min off, intervals for 8h per day with specified load resistance. Expiry code is the period in which batteries satisfy duration. This type of batteries shall have life of 2 years after manufactured. It should be more than $10M\Omega$ (500V/DC) both between terminal and outer Insulation Resistance jacket, and between terminals which is not connected electrically. Dimensions As per attached drawings. 6. Terminals (+)Cap, (-) Base There should be no rust or deformation, which will cause hindrance on use. There should be no stain, scratch and deformation which will cause hindrance 8. Appearance on use. Described Date of stipulation: Stipulated Checked Date of revision: Raisi JUNE, 25, 1998

SPECIFICAT	ION NAME	PRODUCT	SPECIFICAT	IONS		
PRODUCT NAME		R03TYPE CARBON ZINC BATTERY				
REFERENCI		JIS C 8501,	IEC 60086-1	1, 60086-2		
9. Testing meth	od					
9.1 Storage con		The temperature of the humidity shall be 65		all be 20±2°C	and the relative	
			However, during 3 months that it is short periods only, it may be $20\pm5^{\circ}\text{C}$ .			
		If not specified, the temperature is $20\pm15^{\circ}\text{C}$ and the relative Humidity is $65\pm20\%$ as normal environmental condition of JIS Z 8703. Refer to Table-2.				
3.5 Tosting cont		1 (0101 (0 1 01010 2.				
Table - 2						
Service Life	drops for the fire 1)Commencem 2)Discharging re 3)Calculation of	discharged as spec st time below the spec ent :after storing mo nethod : Table-1 f average service life teries and calculate t	ecified end point. re than 8 hours u			
Open Circuit	After storing mo	ore than 8 hours, me	asure with a voltr	meter mentione	d below under	
Voltage	the condition of Table-1. The accuracy of voltmeter shall be within 0.25% of the nominal voltage. The resistance shall be with minimum $1M\Omega$ .					
Resistance to Leakage at Over Discharge	Test under the	condition of Table-1.				
Resistance to	Test under the	condition of Table-1.			•	
Leakage at						
High Temperature Resistance	Equipment shall have rated voltage 500V as specified JIS C 1302, or has more					
1 (0010101100	accuracy.					
Dimensions	Measure with a caliper which has under 200mm measuring range and 0.05mm minimum scale value as specified JIS B 7507 or an instrument which has more accuracy.					
Terminal & Appearance	Inspect by visua	al.				
Date of stipulation:	Date of	revision:	stipulated	Checked	Described	
JUNE,25,199	8		71	Dal fo	Logino	

SPECIFICATION NAME	PRODUCT SPECIFICATIONS
PRODUCT NAME	R03TYPE CARBON ZINC BATTERY
REFERENCE	JIS C 8501, IEC 60086-1, 60086-2



		unit : m	m
Α	44.5	(43.3)	
В		43.3	
С		4.3	
D			
E	0.5		
F	3.8	(2.0)	
G		0.8	
φ	10.5	9.5	
φΡ	0.4	_	
pip	0.4		
φΡ	0.4	9.5	



O. The same ballousing

Note 1. Numerical value in parentheses; reference

2. The symbols of dimensions are as following.

A = Overall height

B = Distance between (+) and (-) terminals, excluding

C = pip.

D = Outer diameter of (-) flat contact surface

Diameter of concave part of central (-) terminal.

E = This model has none of concave part.
Recess of (-) flat contact surface from

outside cover.

This model has the projected (-) contact.
Diameter of the specified projection of (+)

G = terminal.

 $\phi$  = Projected height of (+) contact, excluding pip.

 $_{\phi}P$  = Diameter of the battery

Difference in coaxiality between (+) contact

and cylindrical corner side.

Pip = Optional projection on (+) contact.

Date of stipulation:	Date of revision	Stipulated	Checked	Described
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