

**SPECIFICATION FOR
CARBON ZINC DRY BATTERY
6F22R**

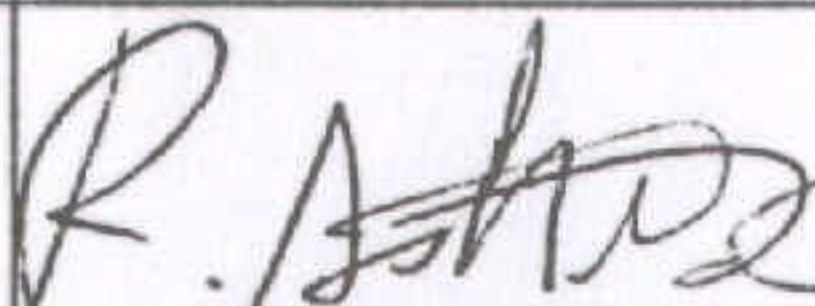
PRODUCT SPECIFICATIONS	
Individual Product Specification	Serial No. 26041ME-01
REFERENCE : IEC 60086-1, 60086-2	
1. MODEL NO. 6F22R [IEC DESIGNATION : 6F22]	
2. NOMINAL VOLTAGE 9Volts	
3. AVERAGE WEIGHT 38.5g	
4. PERFORMANCE Duration should be over the value in Table-1 after the test of 9(testing method). O.C.V. and resistance to leakage should meet the Table-1 after the test of 9(testing method).	

Table -1		Test condition						MBI SPEC (1)*		
		Temp. & Humd.	load (Ω)	Discha -rging time /day	End point (V)	Unit		Initial	2 0 °C	
									After 12 months	After 18 months.
O.C.V		20±2°C 65±20% (RH)	—	—	—	V		9.3+1.05 0	9.2+1.15 0	9.0+1.35 0
Duration			180	30 min	4.8	min		440	380	340
			270	1 h	5.4	h		10.5	9.0	8.0
			620	2 h	5.4	h		27	23	21
Resistance to Leakage	over discharge		After usual discharging test, the discharge is repeated until CCV drops for the first time below 3.6V.				There shall be neither evidence of electrolyte leakage on the surface of any battery nor deformation of the specified dimension.			
	under high temperature	45±2 °C below 70% (RH)	After storage for 30 days.				There shall be neither evidence of electrolyte leakage on the surface of any battery nor deformation of the specified dimension.			

Note (1)* Expiry code is the period in which batteries satisfy duration.

This type of batteries shall have life of 18 months after manufactured.

5. INSULATION RESISTANCE	It should be more than 10M Ω (500V/DC) both between terminal and outer jacket, and between terminals which is not connected electrically.
6. DIMENSIONS	As per attached drawings.
7. TERMINALS	Snap terminal There should be no rust or deformation, which will cause hindrance on use.
8. APPEARANCE	There should be no stain, scratch and deformation which will cause hindrance on use.

Date of stipulation:	Date of revision 0:	Stipulated	Checked	Described
February,4,1999				T. Ishida

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9. TESTING METHOD

- 9.1

Storage condition

:

The temperature of 20°C storage shall be 20±2°C and the relative humidity shall be 65±20%.

However, during 3 months that it is short periods only, it may be 20±5°C.
- 9.2

Environmental condition

:

If not specified, the temperature is 20±15°C and the relative Humidity is 65±20% as normal environmental condition of JIS Z 8703.
- 9.3

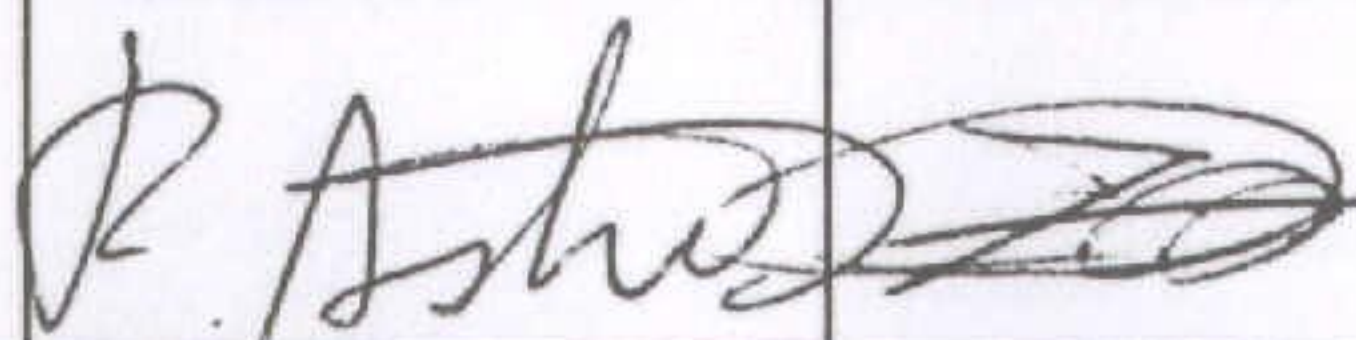
Testing condition

:

Refer to Table-2.

Table -2

Service Life	Battery shall be discharged as specified condition until the voltage on load drops for the first time below the specified end point. 1)Commencement :after storing more than 8 hours under the condition of Table-1. 2)Discharging method : Table-1 3)Calculation of average service life. Test nine batteries and calculate the average.
Open Circuit Voltage	After storing more than 8 hours, measure with a voltmeter mentioned below under the condition of Table-1. The accuracy of voltmeter shall be within 0.25% of the nominal voltage. The resistance shall be with minimum 1MΩ.
Resistance to Leakage at Over Discharge	Test under the condition of Table-1.
Resistance to Leakage at High Temperature	Test under the condition of Table-1.
Resistance	Equipment shall have rated voltage 500V as specified JIS C 1302, or has more 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 visual.

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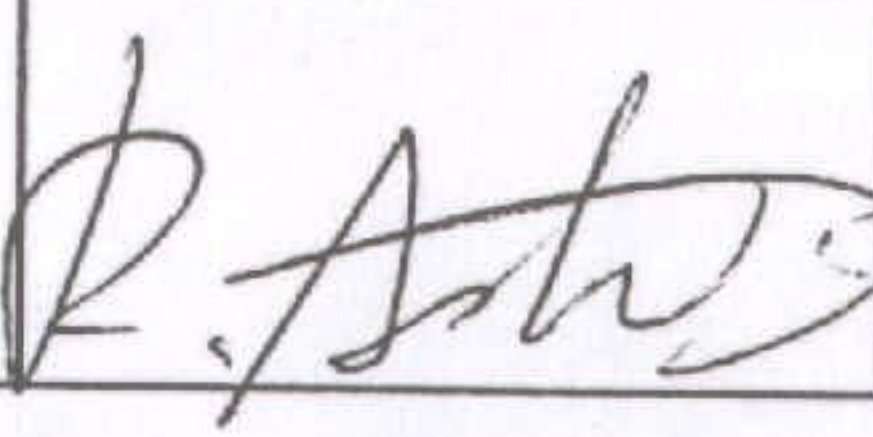
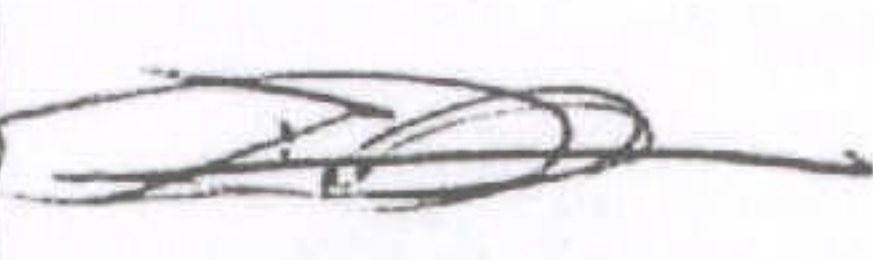
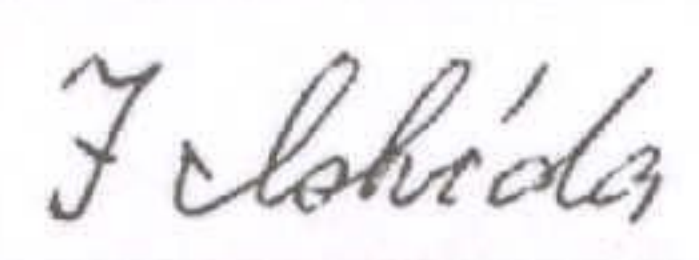
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10. MARKING

- a) Battery system : Carbon Zinc battery
- b) Designation : 6F22R
- c) Nominal voltage : 9V
- d) Polarity of terminal : ⊕ , ⊖
- e) Name or trade mark of the manufacturer : Specified as the drawing of designs
- f) Expiry code : Specified as the drawing of designs
- g) Precaution : Specified as the drawing of designs

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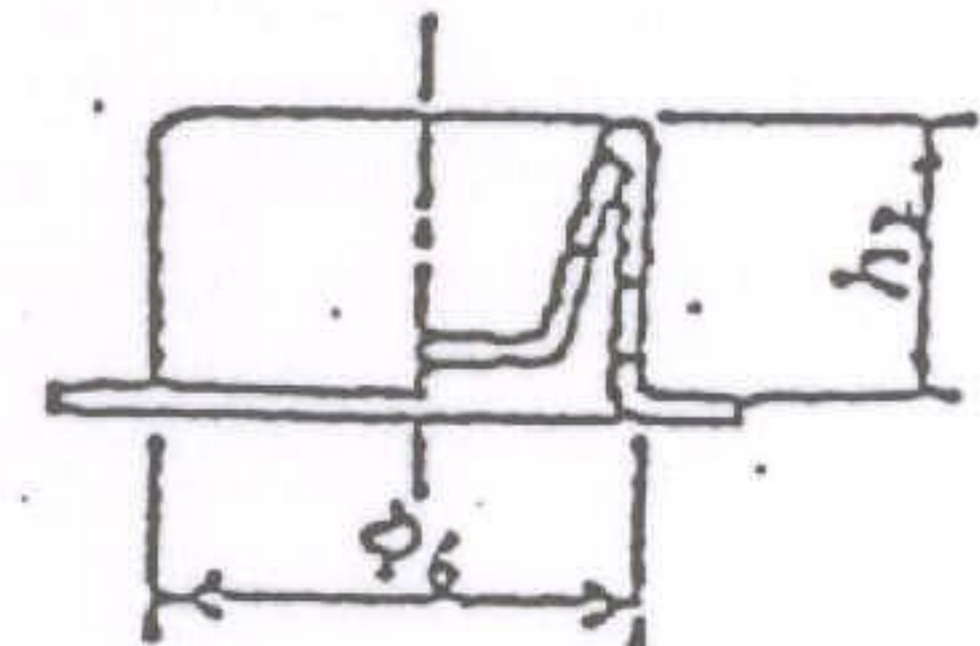
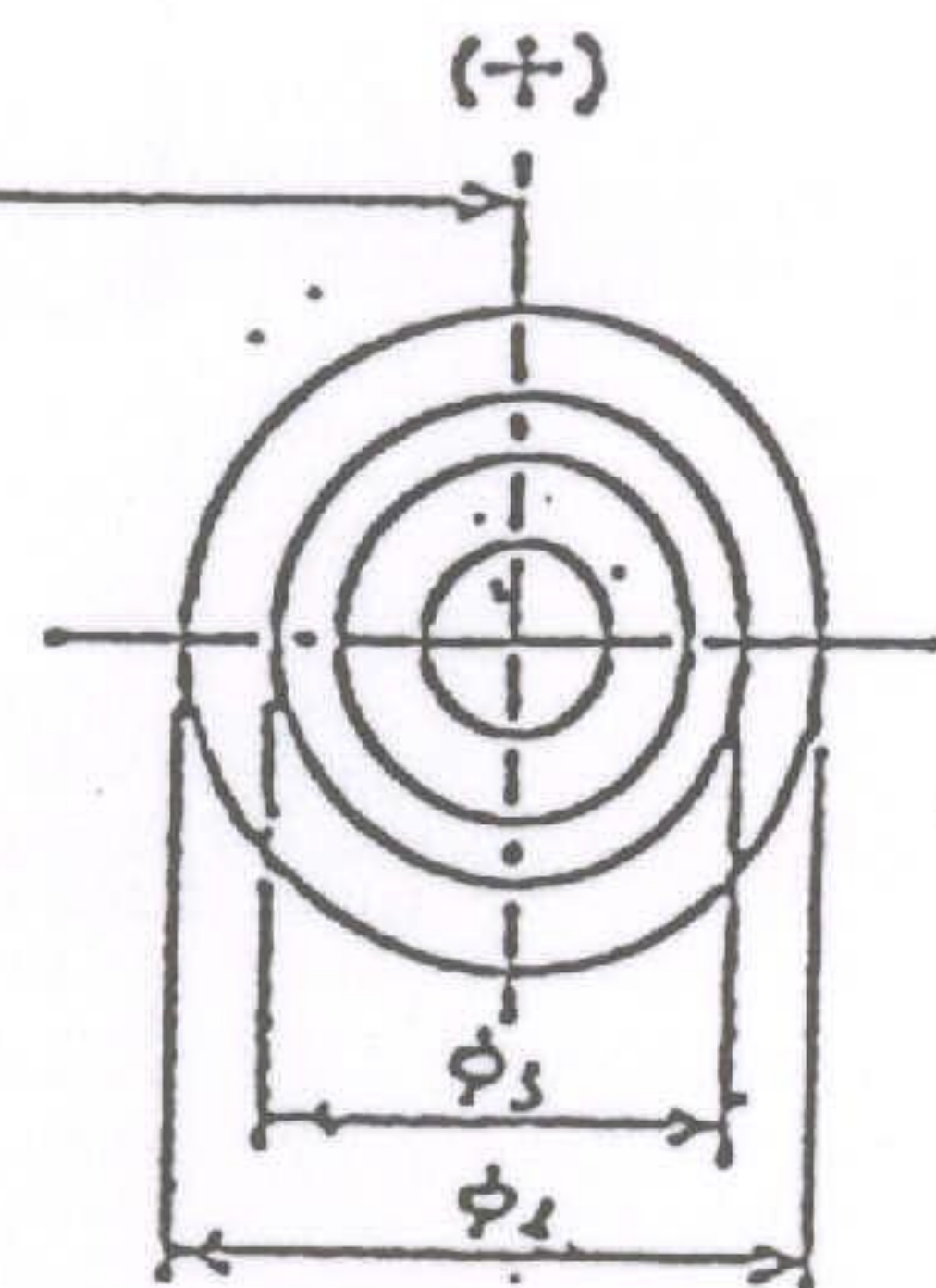
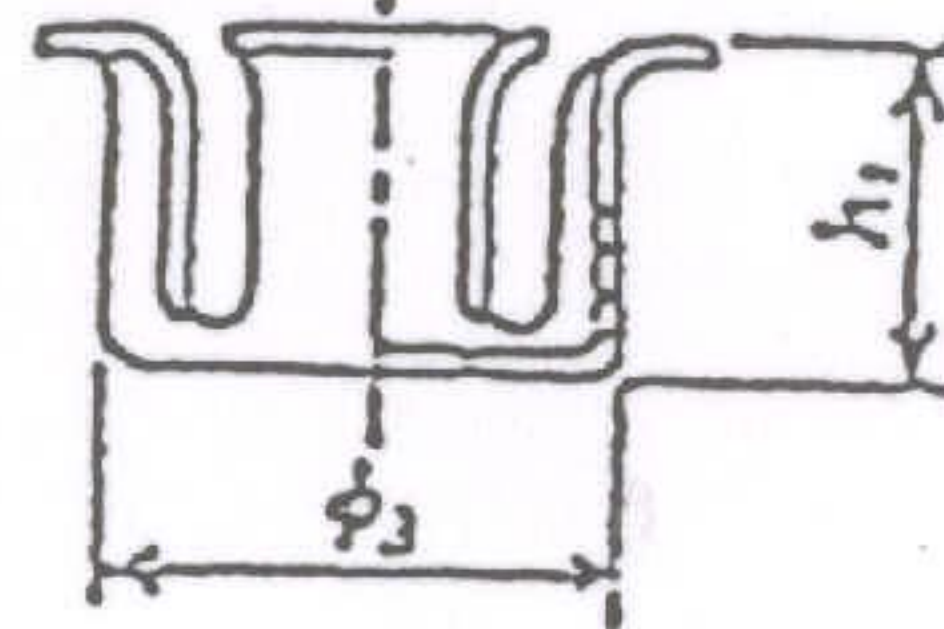
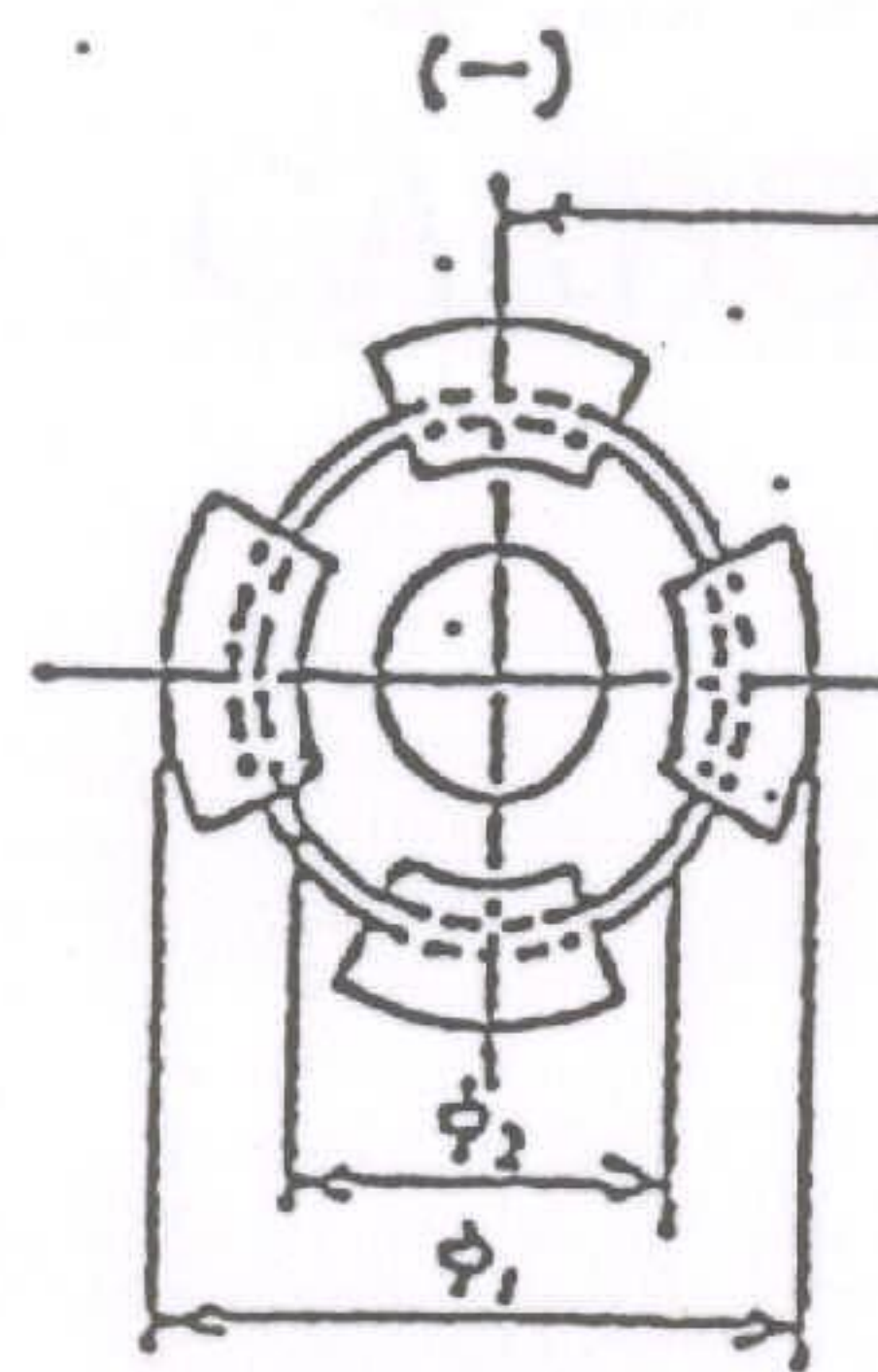
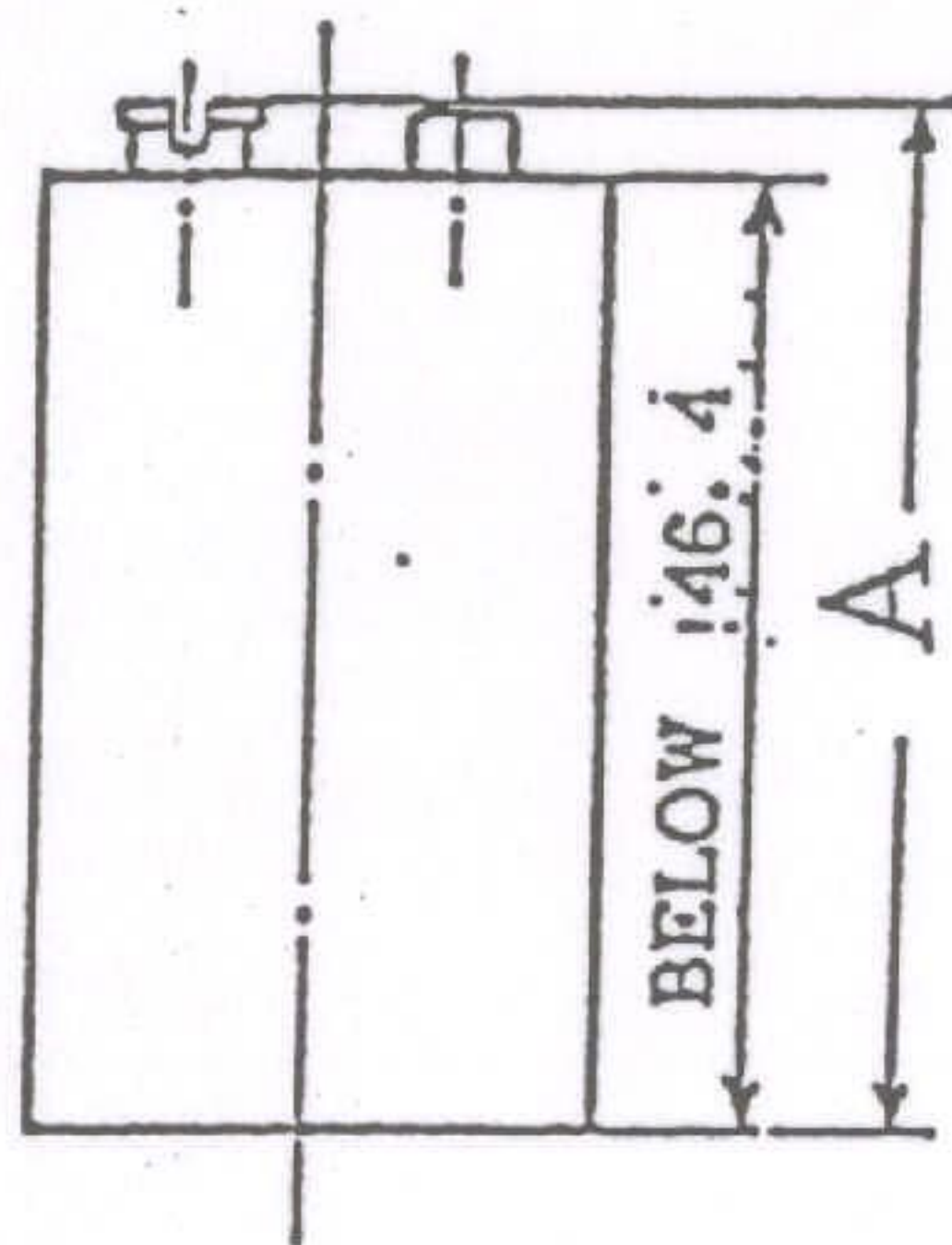
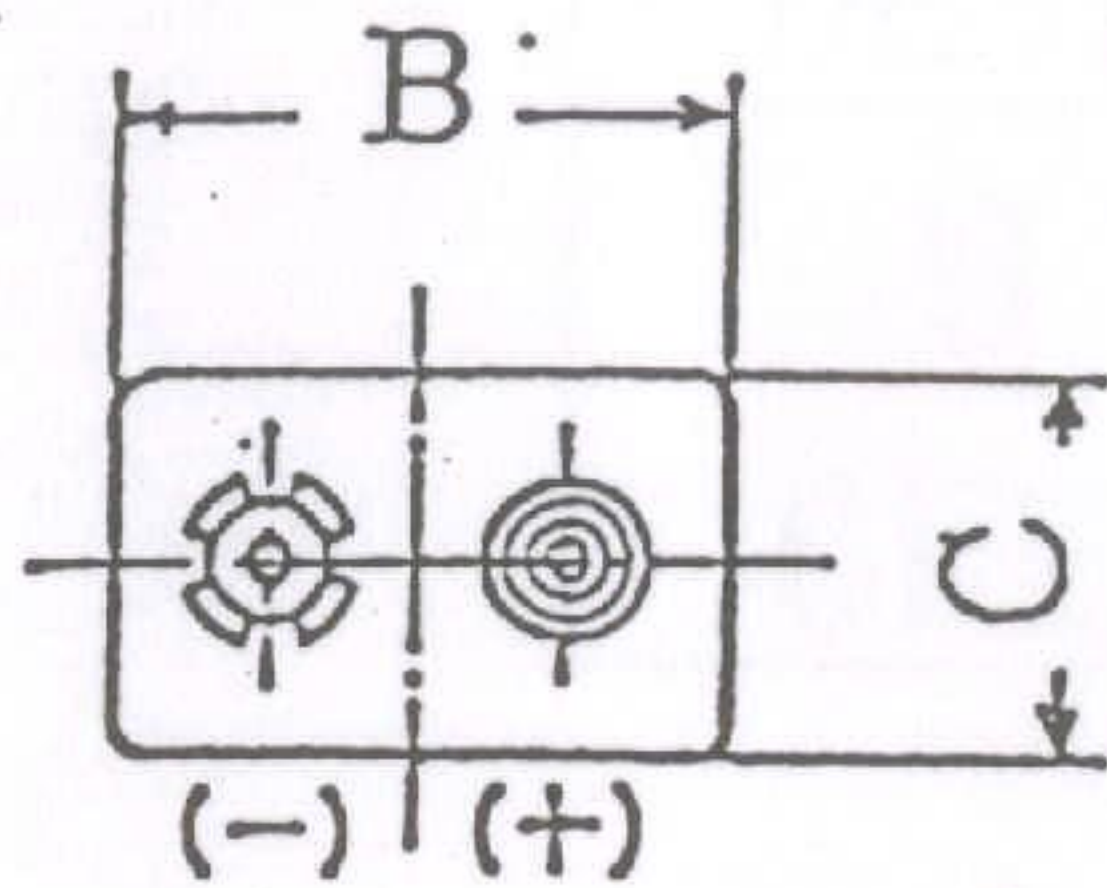
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Unit::mm

	Max	Min
A	48.5	46.5
B	26.5	24.5
C	17.5	15.5



6F22

	$\phi 1$	$\phi 2$	$\phi 3$	$\phi 4$	$\phi 5$		$\phi 6$		H1	H2		D	
					max	min	max	min		max	min	max	min
6F22Y (2)*	below (8.2)	(5.4)	(6.3)	below (8.2)	5.9	5.7	(5.5)		(3.9)	3.3	2.9	13.1	12.5
6F22 (3)*					5.77	5.67	5.43	5.33		3.1	2.9	12.95	12.45

Note: (2)* Detail dimensions of snap terminal for 6F22Y(NB)

(3)* Detail dimensions of snap terminal differs between 6F22Y and 6F22.

Remarks: Figures in parenthesis are referrence values.

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February,4,1999

R. Ashida

[Signature]

F. Ashida