

## ◆ Capacitance Test

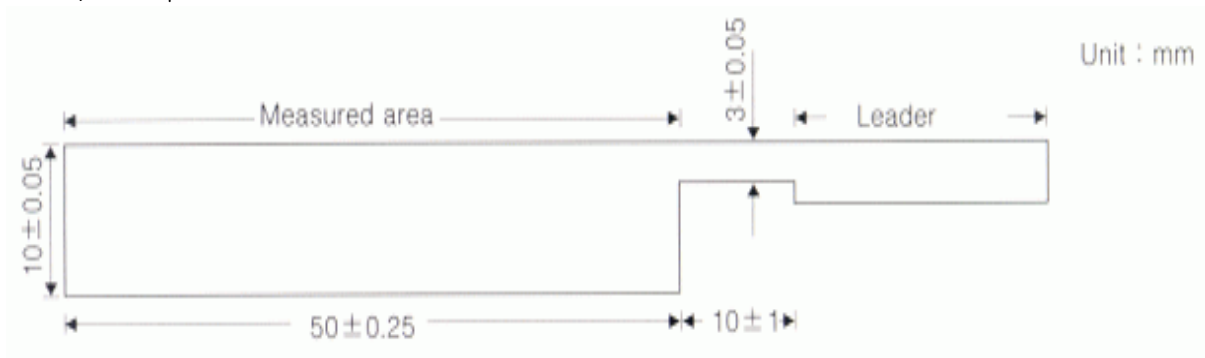
This test method is applied only to the cathode foil for 0V capacitance.

### 1. Test equipments

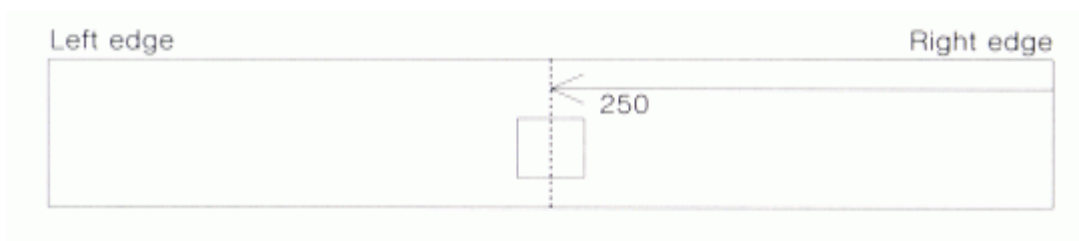
- 1) Measuring bath : Glass beaker, 200 ml or 300 ml.
- 2) Capacitance meter : JIS C 5102-7,8,1. Accuracy  $\pm 2\%$  of the measured value.  
Measuring frequency 120 Hz  $\pm 5\%$ .  
Measuring voltage  $\leq 0.5V_{rms}$ .

### 2. Test piece and sampling specifications

#### 1) Test piece



#### 2) Sampling specification

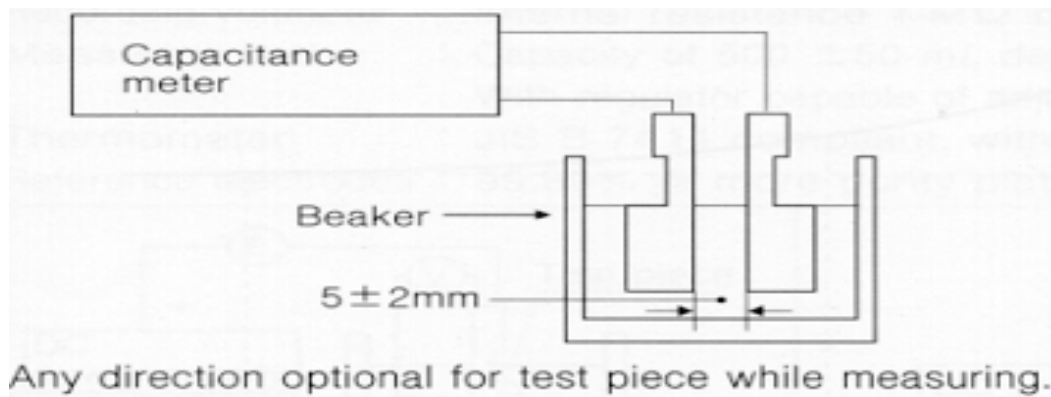


### 3. Measuring electrolyte

#### 1) Electrolyte

- Pure water : 1,000 ml
- Ammonium adipate : 150g
- Specific res. : 6.5  $\Omega\text{cm}/70 \pm 2^\circ\text{C}$
- PH : 6.7 /  $50 \pm 2^\circ\text{C}$

## 2) Test circuit



- The test pieces must be immersed in the electrolyte so that the upper edge of its main portion coincides with the surface of the electrolyte.
- The chemicals shall be of electrolyte capacitor grade.

## 3) Test procedure

- Electrolyte temp :  $30 \pm 2^\circ\text{C}$
- Formula :  $C = (C_m \times 2) \div 5 = \mu\text{F}/\text{cm}^2$

C : Capacitance of foil ( $\mu\text{F}/\text{cm}^2$ )
$C_m$ : Capacitance measured on test pieces ( $\mu\text{F}$ )

## 4. The others

- 1) Measuring electrolyte should be renewed after using it for 1 week.
- 2) If there is a suspected fault, it must be renewed immediately.
- 3) Electrolyte must be kept from impurity substances in the air.
- 4) It must be stored at a cool place.