

# 2001 2

: (1)~(4) 10 , (5)~(7) 20

(1) RC

70.7%가

,  $R = 1592\Omega$ ,  $C = 1\mu F$ .

(2) 2

volume conductor

current dipole

가

(3)

(4)

(5)

$t=0$

가

가

NaCl

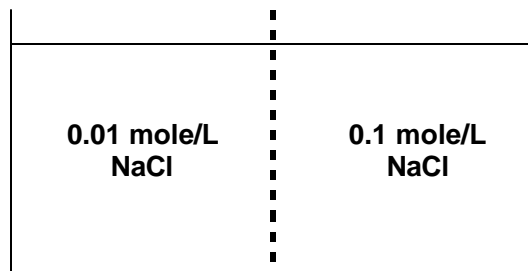
$Na^+$

,  $Cl^-$

가?

가?

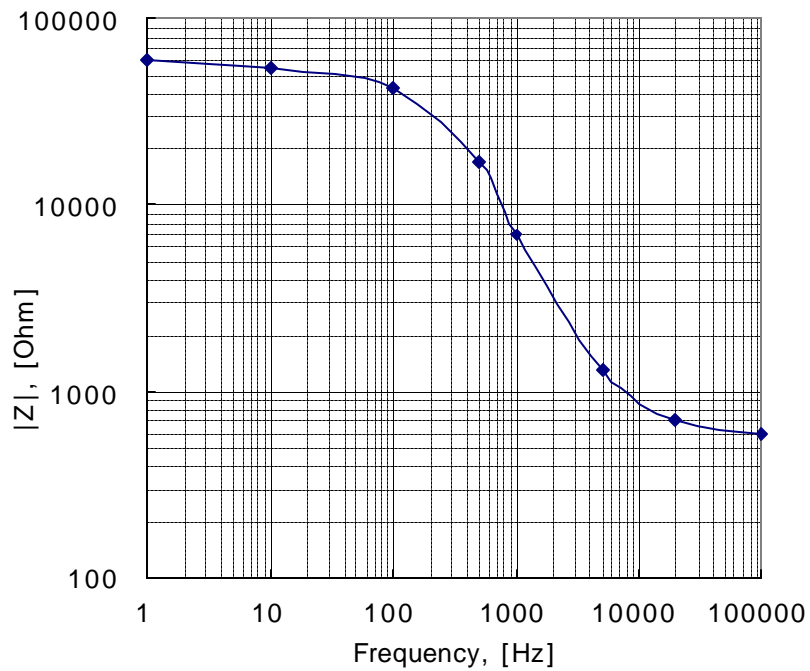
$$E = 0.0615 \log_{10} \left( \frac{y}{x} \right) \text{ [V]}$$



(6) Half-cell potential 200mV

가

가



(7)

ECG

OP amp

1MHz 가

:  $\pm 9V$ ,

: 1000,

: 0.5 ~ 100Hz, dc offset

:  $\pm 300mV$ .