

Capacitance:

A capacitor is a device used to store electric charge.

A capacitor consists of 2 non touching conductors.
(Parallel Plates)

The potential difference between the plates is called the capacitance, C.

$Q = CV$ (Charge = Capacitance x Voltage)

$$C = \frac{Q}{V}$$

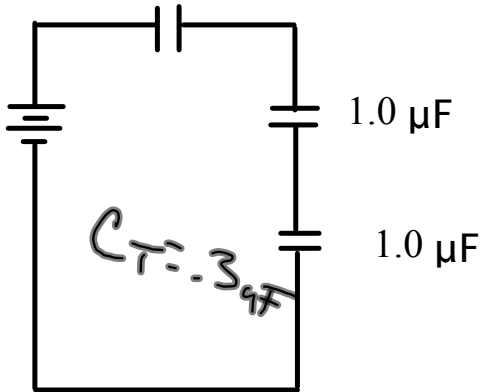
$E = 1/2QV = 1/2CV^2$

Capacitance is measured in farads

$$1\text{F} = \text{C/V} = \frac{\text{A}^2\text{s}^3}{\text{Kg m}^2}$$

$$\frac{1}{C_T} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$

1.0 μF



$$C_T = C_1 + C_2 + C_3$$

$C_T = 3 \mu\text{F}$

