CAPACITORS

Capacitors are used to store charge . They offer high resistance to direct current and low resistance to alternating current. The capacitance of a capacitor is measured in farads. A Capacitor consists of a dielectric placed in between two conductors. Capacitance depends on the type of dielectric, distance between the pltes and area of the conducting plates. Thaey are mainly classified on the basis of the type of dielectric they use. Paper capacitor, mica capacitor, ceramic capacitor, electrolytic capacitors are some of the mainly used capacitors among which electrolytic capacitors offer highest capacitance.

When connected to a voltage source, electrons on one side of the capacitor moves to the positive terminal of the voltage source and electrons from the negative terminal gets deposited on the otjher side. This creates positive charge on one side and negative charge on the other side. As a result a potential difference gets forced across the capacitor. This potential difference becomes equal to the voltage source once it gets fully charged. This is the working of a capacitor.