

up to form a compact cylindrical package, or multiple sections may be combined.

On the other, the power source will respond to the plate attached to the negative side of the source and will tend to repel electrons from the other plate. This may be thought of as creating positive charges on the other plate or as attracting positive charges, as shown in Figure 12.1. When the capacitor is disconnected from the power source, the opposite charges on its plates will persist in equilibrium as a result of their mutual attraction, although the voltage will gradually dissipate as a result of leakage either through the dielectric or via other pathways.

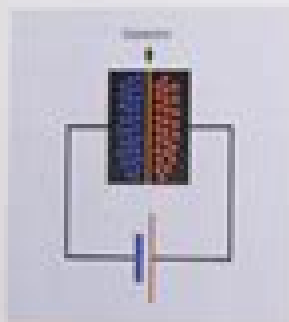


Figure 12.1 Shows the action of a capacitor connected only to a battery. The positive plate is connected with positive and negative charges when connected with a DC power source. An opposite charge attracts each other. They will become imbalanced on either side of the dielectric, which is an insulating layer. The battery symbol is shown from common polarity.

When a **resistor** is placed across the leads of a charged capacitor, the capacitor will discharge fast through the resistor at a rate limited by the resistance. Similarly, if a capacitor is charged through a resistor, the resistor will limit the charging rate.

A resistor in series with a capacitor is known as an **RC circuit**. Resistor-Capacitor networks are

Figure 12.2, an RC circuit is shown with a DC source that charges or discharges the capacitor in a series resistor. The voltage at point A changes continuously relative to the negative side of the power supply while the capacitor charges, and decreases continuously while the capacitor discharges, as suggested by the graph. At any moment, the total sum of the capacitor's equivalent AC voltage difference between its two charge and the voltage being supplied is V_0 , known as the **total capacitance** for the circuit. In "The Total Capacitance" on page 10, the author's formulation.

When a capacitor is connected to a new and up age voltage, each surge of electrons in the dielectric induces an equal and opposite positive surge the other plate, and when polarity of the power supply reverses, the charges on the plates reverse. These surges may make it seem like the capacitor is conducting AC, even though the dielectric that separates the plates is an insulator. See Figure 12.4. Often a capacitor is referred to "pass" AC, even though this is not really the point. For convenience, and because this concept is widely established, this capacitor refers to capacitors as "passing" AC.

Depending on the size of the capacitor, it will filter some AC frequencies while passing others. Generally speaking, a smaller capacitor will filter high frequencies relatively efficiently, as with the surge of current into each plate. Another situation is complicated by the inductor resistance (which creates the effective and inductance of inductance, as discussed below) in connecting current, and Capacitor Resistor in page 100.

Variants

Form

The three most common packages for capacitors are cylindrical, disc, and rectangular solid.

A cylindrical capacitor may have one end with a lead attached to each end, or a circular disc with emerging from one end. Radial capacitors are

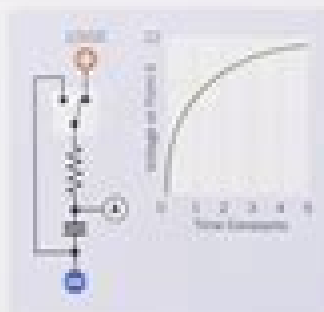


Figure 12.3 An RC circuit charges and discharges a capacitor. At the top, the voltage goes up exponentially. At the bottom, the voltage decays exponentially.

most widely used as they allow easy insertion into a circuit board. The capacitor is usually packaged in a small aluminum can closed at one end, capped with an insulating disc at the other end, and wrapped in a thin layer of insulating plastic. Some examples are shown in Figure 12.5 and Figure 12.6.

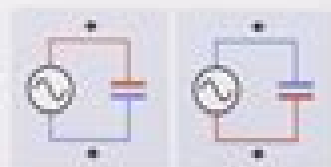


Figure 12.4 In the left diagram, a source of alternating current charges the upper plate of a capacitor positively and the lower plate negatively. The positive plate is the AC conventional current entering the source. A current flows when the AC current flows opposite the direction of entry, creating the movement that the capacitor "passes" AC current.



Figure 12.5 Cylindrical capacitors with radial leads, an electrolytic.

A disc capacitor, sometimes referred to as a flat disc capacitor, is usually used in an insulating ceramic component, and has radial leads. Modern small-value ceramic capacitors are more likely to be dipped in epoxy, or to be surface-mount. Some examples are shown in Figure 12.6.

A surface-mount capacitor is square or rectangular, but usually a few millimeters in each dimension,

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