

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

On induction the power source will register on its scale attached to the negative side of the power and will tend to register electrons from the other plate. This may be thought of as creating positive charges on the other plate or an attracting positive charge, 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.

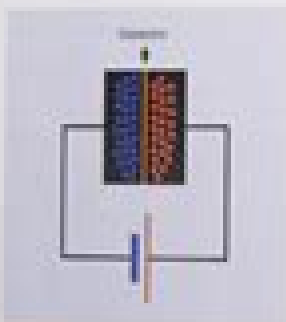


Figure 12-2 Shows the action of a capacitor connected only to a battery. The positive capacitor plate attracts and registers charges when connected with a 100% power source. An opposite charge attracts each other. They will become opposites on either side of the dielectric, which is an insulating layer. The battery symbol is shown from positive to negative.

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 12-3, an RC circuit is shown with a 100% power that charges or discharges the capacitor at a series resistor. The voltage at point A is always continuously positive to the negative side of the power supply while the capacitor charges, and decreases continuously when the capacitor is discharging, as suggested by the graph. At any moment, the total sum of the capacitor's equivalent of the difference between its own charge and the voltage being supplied is 0, known as the "zero condition" for the circuit. In "The Zero Condition" see page 10 for additional information.

When a capacitor is connected to a new and/or age source, each surge of electrons it receives induces an equal and opposite positive surge the other plate, and when polarity of the new supply reverses, the charges on the plates reverse. These surges may make it seem like the capacitor is conducting AC current, 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 its surge of current fills each plate. Another situation is complicated by the inductor resistance (which creates the effective and equivalent of inductance, as discussed below) in connecting current, and Capacitor-Resistor (see page 100).

Variants

Format

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

A cylindrical capacitor may have one end (left) attached to earth and/or other ends (right) with emerging from one end. Radial capacitors are

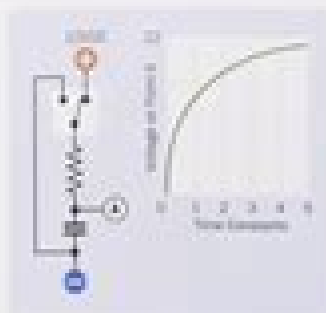


Figure 12-3 AC (Resistor-Capacitor network with a switch to control charge and discharge of a capacitor). At 100%, the voltage gives an approximate view of the charging behavior of the capacitor. In addition, the curve denotes an inductance behavior.

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.

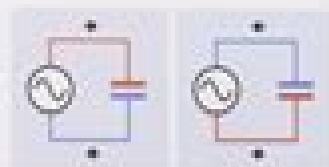


Figure 12-4 In the left diagram, a source of alternating current charges the upper plate of a capacitor positively and the lower plate negatively. This positive wave is the AC sinusoidal current charging the circuit. A current flows when the AC current flows opposite, for the same reason, creating the movement that the capacitor "passes" AC current.



Figure 12-5 Cylindrical capacitor with radial leads, disc capacitor, and rectangular.

A disc capacitor (sometimes referred to as a flat-iron capacitor) is usually used in an insulating organic compound, 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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