Types of Components

In the field of electrical engineering, you will be studying a variety of different components which all have a variety of uses. Understanding these components can prove to be difficult at first, but with a little practice it becomes easier over time. Below is a list of commonly used elements in electronics, with their symbol and usage grouped together.

- } } -	DIODE	Used to represent devices that only allow current to flow in one direction. Ex: LED lights
⊣⊢	CAPACITOR	Stores electrical energy, similar to a battery.
	INDUCTOR	Tries to resist the change of an electrical signal.
	RESISTOR	Resists the flow of current. Keeps parts from being overloaded.
⊣ +	DC VOLTAGE SOURCE	Stands for direct current. Allows current to flow constantly in one direction. Ex: a battery
\bigcirc	AC VOLTAGE SOURCE	Stands for alternating current. Allows current to alternate between directions. Ex: the electricity running through each house



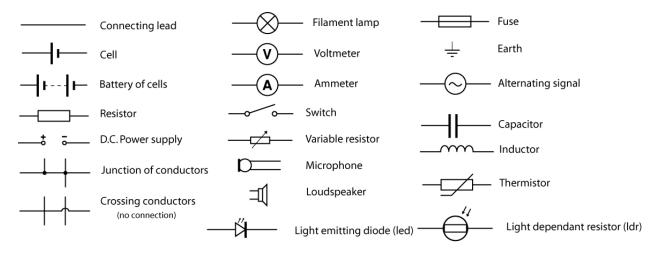


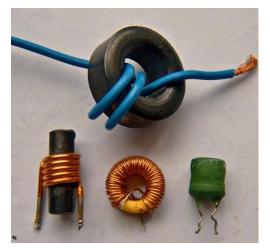


Figure 2: Diodes



Below are some other commonly used symbols:





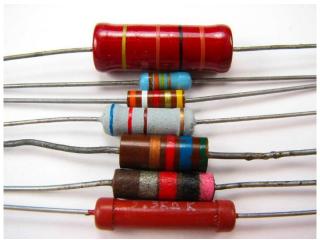


Figure 3: Inductors (left) and resistors (right)

FAU Courses

EGN1002 - Fundamentals of Engineering

EEL3111 - Circuits I

CDA 3201C – Logic Design

EEE3300 - Electronics 1

Sources

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