

# Electronics GUIDE

## SYMBOLS



## LEDS

LEDs are semiconductor devices that emit light when an electric current passes through them. They are widely used in various applications, from indicator lights to displays.

## TRANSISTORS

Transistors are semiconductor devices that can amplify or switch electronic signals. They are fundamental components in modern electronics.



## CAPACITORS

Capacitors are passive electronic components that store electrical energy in an electric field. They are used in various circuits for timing, filtering, and energy storage.

## RESISTORS

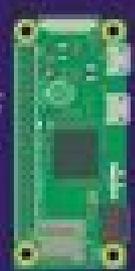
Resistors are passive electronic components that oppose the flow of electric current. They are used to control current and voltage in circuits.

## Arduino

Arduino is an open-source electronics prototyping platform based on accessible and customizable microcontroller boards. It is widely used for learning and prototyping electronics.

## Raspberry Pi

Raspberry Pi is a small, single-board computer that is powerful enough to run a full operating system. It is used for a wide range of applications, from education to robotics.



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