

# Resistor



## Introduction

A resistor is an electrical or electronic component that **resists** the flow of electrons in a circuit.

There are several types of resistors including carbon, ceramic, fixed wirewound, variable wirewound, stationary adjustable wirewound and forms of integrated circuits.

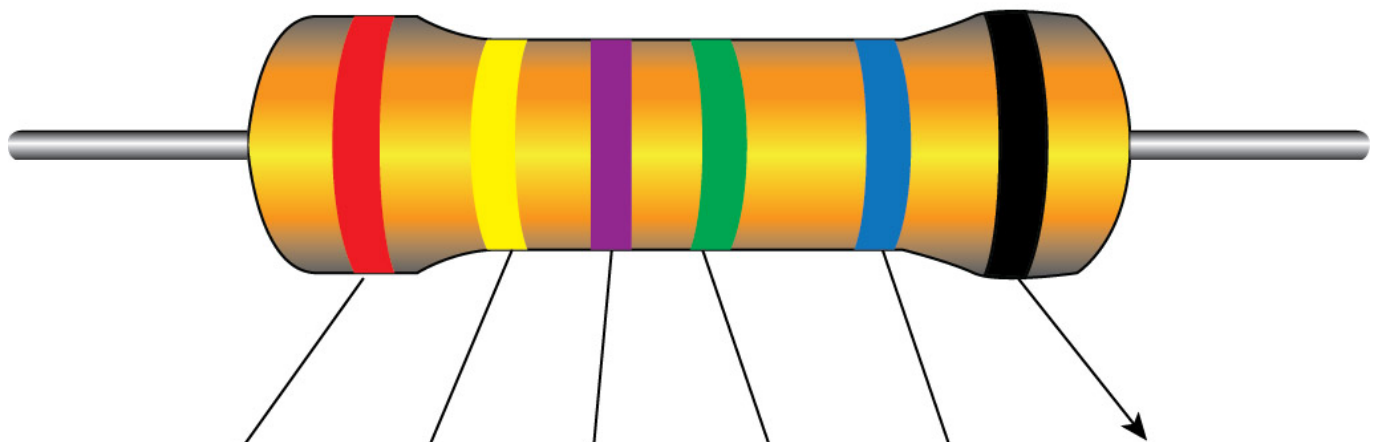
How much a resistor impedes the current flow is called **resistance** and is measured in **ohms**. Most resistors have a fixed value as to how much resistance they will display. Wattage, qualities and tolerance values vary according to needs.

Most of the resistors used in the MBHP hardware platform are 1/4W 5% tolerance.

You should buy a bunch of resistors @ Ebay , this is a costless investment you will find very useful in the end!

[Resistor Wattage?](#)

## RESISTOR COLOR CODE



| 1st digit | 2nd digit | 3rd digit | Multiply | Tolerance | TCR |
|-----------|-----------|-----------|----------|-----------|-----|
| 0         | 0         | 0         | 1        | 1%        |     |
| 1         | 1         | 1         | 10       | 2%        |     |
| 2         | 2         | 2         | 100      |           |     |
| 3         | 3         | 3         | 1K       |           |     |
| 4         | 4         | 4         | 10K      |           |     |
| 5         | 5         | 5         | 100K     | 0.5%      |     |
| 6         | 6         | 6         | 1M       | 0.25%     |     |
| 7         | 7         | 7         | 10M      | 0.1%      |     |
| 8         | 8         | 8         | 100M     | 0.05%     |     |
| 9         | 9         | 9         | 1G       |           |     |
|           |           |           | 0.1      | 5%        |     |
|           |           |           | 0.01     | 10%       |     |

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