

What is Series and Parallel?

When designing and building circuits, multiple resistors are used. Resistor in the circuits can be placed by themselves or grouped in **series** or **parallel.**



These resistors are connected end-to-end making a single path for current to flow.

These resistors are connected across from each other making two paths for current to flow.





Resistance Formulas in Series and Parallel

Calculating Resistance in Series

Resistors in Series & Parallel

Calculating Resistance in Parallel

The overall resistance of two resistors in **parallel** is always less than the same resistors in series. The measure of resistance here is 500 Ω !

Let's Figure Out the Total Resistance Value of The Resistors in Series!

Let's figure out the resistance value of these resistors in Parallel!

