

Activity

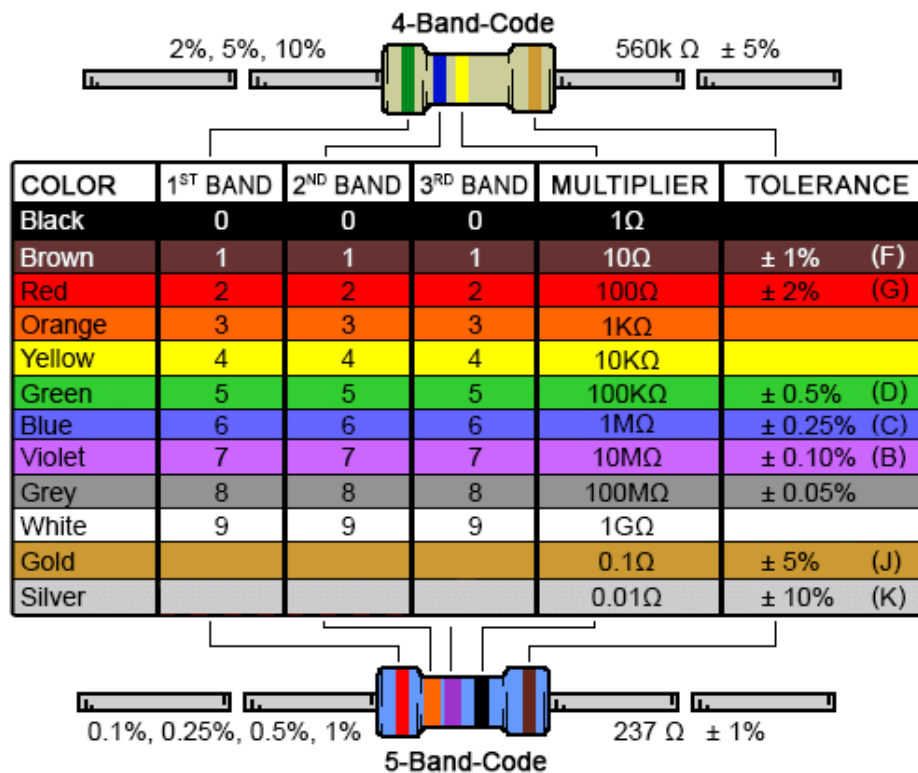
Basics of Electronics - Current & Resistance

Calculating Resistor Value

In this activity, you will also learn how to calculate the value of resistor using colour code.

COMPONENTS

Resistors of different values.



STEP-BY-STEP

Take a resistor and identify the four colours. Then calculate the resistance value in the following way:



- First Band** – Red, that means 2 (From the table).
- Second Band** – Red, that means 2.
- Multiplier** – Brown, that means 10. Hence the value of the resistance is $(2 \times 10 + 2) \times 10 = 220 \Omega$.
- Tolerance Band** – Gold, that means $\pm 5\%$ variation in the value.

