

Resistor Colour Code



Why the Colour Code?

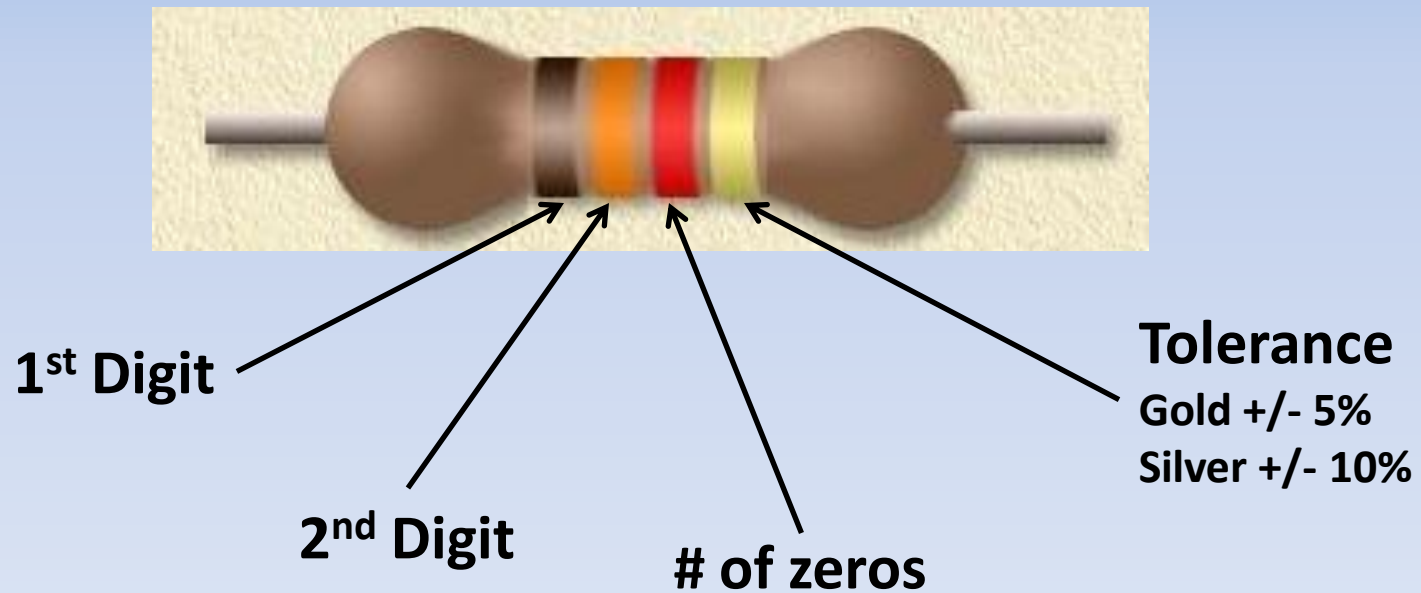
The Colour code was developed to overcome two basic problems;

- Difficult to print and see numbers on a small resistor
- Even if you could see the numbers, placement on a circuit board might hide the number



The Code

- When you read the colour code the resistor should be read with the gold (or silver) on the **RIGHT!!**





1st Digit

2nd Digit

of zeros

Tolerance

Gold +/- 5%

Silver +/- 10%

Black	0
Brown	1
Red	2
Orange	3
Yellow	4
Green	5
Blue	6
Violet	7
Grey	8
White	9

This resistor is read as;

1st Digit is 1

2nd Digit is 3

of zeros is 2

Answer is 1300 ohms

Examples

Black	0
Brown	1
Red	2
Orange	3
Yellow	4
Green	5
Blue	6
Violet	7
Grey	8
White	9

1) Red, Red, Brown, gold

220 ohm

2) Blue, Black, Orange, gold

60,000ohm
Or 60K

3) Yellow, Violet, Yellow, gold

470,000ohm
Or 470K

4) Brown, Black, Blue, gold

10,000,000ohm
Or 10M

5) Grey, White, Red, gold

8900 ohm
Or 8.9K

Note: **1000ohm = 1k**
 1,000,000ohm = 1M

