

Resistor Color Code

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

Tolerance Bands

Red	Gold	Silver	None
2%	5%	10%	20%

How to read the code

- 1st Find the tolerance band normally not grouped with other 3 bands
- Starting from the other end, identify the first band – write down the number associated with that color
- Now read the next color and write down the number associated with it
- Then read the third color or the 'multiplier' band (this number is the number of zeros)
- If the 'multiplier' band is gold move the decimal point one to the left. If the 'multiplier' band is silver move the decimal point two places to the left.

Example 1:

Blue	Red	Red	Gold
1 st Significant Figure	2 nd Significant Figure	Multiplier	Tolerance
6	2	00	5%

6200 Ohm or 6.2K Ohm

Example 2:

Brown	Black	Green	Red
1 st Significant Figure	2 nd Significant Figure	Multiplier	Tolerance
1	0	00000	2%

1000000 Ohm or 1Meg Ohm

Example 3:

Gray	Orange	Violet	
1 st Significant Figure	2 nd Significant Figure	Multiplier	Tolerance
8	3	0000000	20%

830000000 Ohm or 830 Meg Ohm

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