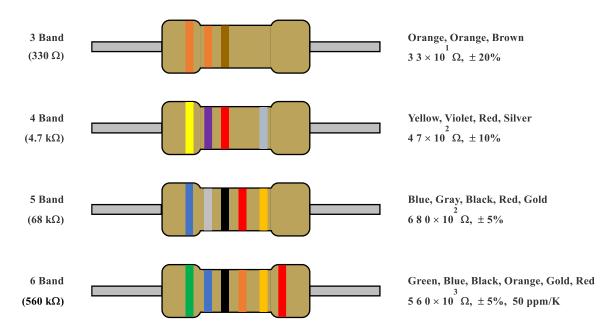
How to Read Resistor Color Codes

Note that the wider gap between bands should be on the r.h.s. for proper reading orientation.



Color
Black
Brown
Red
Orange
Yellow
Green
Blue
Violet
Gray
White
Gold
Silver
None

		3 rd Digit (5&6 Band
1 st Digit	2 nd Digit	Only)
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

Multiplier
$10^0 = 1$
10¹ = 10
$10^2 = 100$
10 ³ = 1 k
10 ⁴ = 10 k
10 ⁵ = 100 k
$10^6 = 1 M$
$10^7 = 10 M$
10 ⁸ = 100 M
10 ⁹ = 1 G
10 ⁻¹ = 0.1
10 ⁻² = 0.01
_

Tolerance
Tolerance
± 1%
± 2%
>>
± 0.5%
± 0.25%
± 0.1%
± 0.05%
$>\!\!<$
± 5%
± 10%
± 20%

Temperature
Coefficient
(6 Band Only)
250 ppm/K
100 ppm/K
50 ppm/K
15 ppm/K
25 ppm/K
20 ppm/K
10 ppm/K
5 ppm/K
1 ppm/K



Benny Bengal Roars Over Your Great Big Victory, Game Winner!