

Resistor Color Codes

- Color Chart
 - Count the number of bands on the resistor first (4 or 5)

COLOR	1 ST BAND	2 ND BAND	3 RD BAND	MULTIPLIER	TOLERANCE
Black	0	0		1Ω	
Brown	1	1		10Ω	± 1% (F)
Red	2	2		100Ω	± 2% (G)
Orange	3	3		1KΩ	
Yellow	4	4		10KΩ	
Green	5	5		100KΩ	± 0.5% (D)
Blue	6	6		1MΩ	± 0.2% (C)
Violet	7	7		10MΩ	± 0.10% (B)
Grey	8	8			± 0.05%
White	9	9			
Gold				0.1Ω	± 5% (J)
Silver				0.01Ω	± 10% (K)

4-Band-Code

Green 5
Blue 6
Yellow 4
(5x10 + 6) x 10⁴ = 560,000Ω = 560KΩ

Gold +/- 5%

560KΩ +/- 5%

Note – we use Engineering Notation

5-Band-Code

red – orange – violet – black – brown
(2x100 + 3x10 + 7) x 10⁰ = 237Ω +/- 1%