

Resistor Color Coding Worksheet

Resistor Color Code Chart

Colour	Black	Brown	Red	Orange	Yellow	Green	Blue	Purple	Grey	White
Digit	0	1	2	3	4	5	6	7	8	9
Multiplier	10^0	10^1	10^2	10^3	10^4	10^5	10^6	10^7	10^8	10^9

Tolerance: Gold $\pm 5\%$, Silver $\pm 10\%$, none $\pm 20\%$

A) Using the international color code above, give the value of the following resistors given the colors.

1. brown, black, orange 10 000 $\pm 20\%$
2. blue, gray, brown 680 $\pm 20\%$
3. yellow, violet, yellow 470 000 $\pm 20\%$
4. brown, black, green 1000 000 $\pm 20\%$
6. brown, black, brown 100 $\pm 20\%$
7. Brown, black, black 10 $\pm 20\%$
8. red, red, red 2200 $\pm 20\%$

B) Give the color code of the following resistors

1. 1,500 ohm BROWN, GREEN, RED
2. 1,000,000 ohm BROWN, BLACK, GREEN
3. 330 ohm ORANGE, ORANGE, BROWN
4. 470 ohm YELLOW, PURPLE, BROWN
5. 2 200 ohm RED, RED, RED
6. 1000 ohm BROWN, BLACK, RED
7. 100 ohm BROWN, BLACK, BROWN
8. 150 ohm BROWN, GREEN, BROWN

C) What would the colours on the resistor be if the resistance of the resistor was $6800 \Omega \pm 10\%$?

- A) Red, blue, grey, black
 B) Red, blue, red, silver
 C) Blue, grey, black, black
 D) Blue, grey, red, silver