

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 _____
2. blue, gray, brown _____
3. yellow, violet, yellow _____
4. brown, black, green _____
6. brown, black, brown _____
7. Brown, black, black _____
8. red, red, red _____

B) Give the color code of the following resistors

1. 1,500 ohm _____
2. 1,000,000 ohm _____
3. 330 ohm _____
4. 470 ohm _____
5. 2 200 ohm _____
6. 1000 ohm _____
7. 100 ohm _____
8. 150 ohm _____

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

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