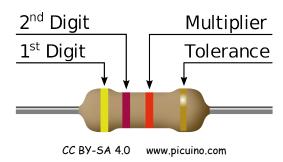
RESISTOR COLOR CODES



- Calculate the missing colors and resistors in the following tables..
- In the last column, calculate the current that will flow through the resistor when connected to a 9 volt battery.
- All values should be written to 3 decimal places and with the multiplier symbol that best corresponds to it (M=Mega, k=kilo, m=mili, μ=micro)

COMMERCIAL SERIES E6: (5%)

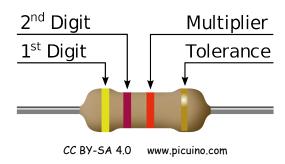
VALUE Ω	1st DIGIT	2nd DIGIT	MULTI- PLIER	TOLE- RANCE	I = 9v / R
4.7 M Ω					
	RED	RED	BLACK	GOLD	
15 Ω					
	ORANG E	ORANG E	GOLD	GOLD	
10 k Ω					
	BROWN	GREEN	BROWN	GOLD	
220 Ω					
	YELLOW	VIOLET	BLACK	GOLD	
3.3 k Ω					
	RED	RED	RED	GOLD	
100 Ω					
	BLUE	GREY	BROWN	GOLD	
22 k Ω					
	BROWN	BLACK	YELLOW	GOLD	
1.0 Ω					
	BLUE	GREY	ORANG E	GOLD	
680 k Ω					
	ORANG E	ORANG E	GREEN	GOLD	

COLOR	VALUE	MULTI- PLIER	TOLE- RANCE
BLACK	0	x 1	
BROWN	1	x 10	± 1%
RED	2	x 100	± 2%
ORANGE	3	x 1000	
YELLOW	4	x 10 000	
GREEN	5	x 100 000	
BLUE	6	x 1000 000	
VIOLET	7		
GREY	8		
WHITE	9		
GOLD		x 0.1	± 5%

COMMERCIAL SERIES E6: (5%)

VALUE Ω	1st DIGIT	2nd DIGIT	MULTI- PLIER	TOLE- RANCE	I = 9v / R
 1.5 kΩ					
	YELLOW	VIOLET	RED	GOLD	
2.2 Ω					
	BROWN	BLACK	BLACK	GOLD	
2.2 M Ω					
	BROWN	GREEN	ORANG E	GOLD	
330 k Ω					
	RED	RED	YELLOW	GOLD	
4.7 Ω					
	BLUE	GREY	GREEN	GOLD	
470Ω					
	BROWN	BLACK	RED	GOLD	
47 k Ω					
	BROWN	GREEN	GOLD	GOLD	
33 Ω					
	BROWN	GREEN	GREEN	GOLD	
150 k Ω					
	BLUE	GREY	GOLD	GOLD	
68 Ω					
	ORANG E	ORANG E	BROWN	GOLD	
1 Μ Ω					
	ORANG E	ORANG E	ORANG E	GOLD	
6.8 k Ω					
	YELLOW	VIOLET	YELLOW	GOLD	

RESISTOR COLOR CODES



- Calculate the missing colors and resistors in the following tables..
- In the last column, calculate the current that will flow through the resistor when connected to a 9 volt battery.
- All values should be written to 3 decimal places and with the multiplier symbol that best corresponds to it (M=Mega, k=kilo, m=mili, μ=micro)

COMMERCIAL SERIES E6: (5%)

MULTI- TOLE-

VALUE

Ω	DIGIT	DIGIT	PLIER	RANCE
4.7 M Ω	YELLOW	VIOLET	GREEN	GOLD
22 Ω	RED	RED	BLACK	GOLD
15 Ω	BROWN	GREEN	BLACK	GOLD
3.3 Ω	ORANG E	ORANG E	GOLD	GOLD
10 k Ω	BROWN	BLACK	ORANG E	GOLD
150 Ω	BROWN	GREEN	BROWN	GOLD
220 Ω	RED	RED	BROWN	GOLD
47 Ω	YELLOW	VIOLET	BLACK	GOLD
3.3 k Ω	ORANG E	ORANG E	RED	GOLD
2.2 k Ω	RED	RED	RED	GOLD
100 Ω	BROWN	BLACK	BROWN	GOLD
680 Ω	BLUE	GREY	BROWN	GOLD
22 k Ω	RED	RED	ORANG E	GOLD
100 k Ω	BROWN	BLACK	YELLOW	GOLD
1.0 Ω	BROWN	BLACK	GOLD	GOLD
68 k Ω	BLUE	GREY	ORANG E	GOLD
680 k Ω	BLUE	GREY	YELLOW	GOLD
3.3 M Ω	ORANG E	ORANG E	GREEN	GOLD

I = 9v / R
1,91 μΑ
409 mA
600 mA
2,73 A
900 μΑ
60,0 mA
40,9 mA
192 mA
2,73 mA
4,09 mA
90,0 mA
13,2 mA
409 μΑ
90,0 μΑ
9,00 A
132 μΑ
13,2 μΑ
2,73 μΑ

COLOR	VALUE	MULTI- PLIER	TOLE- RANCE
BLACK	0	x 1	
BROWN	1	x 10	± 1%
RED	2	x 100	± 2%
ORANGE	3	x 1000	
YELLOW	4	x 10 000	
GREEN	5	x 100 000	
BLUE	6	x 1000 000	
VIOLET	7		
GREY	8		
WHITE	9		
GOLD		x 0.1	± 5%

COMMERCIAL SERIES E6: (5%)

I = 9v / R

6,00 mA

1,91 mA

4,09 A

900 mA

4,09 μΑ

600 μΑ

27,3 μΑ

40,9 μΑ

1,91 A

1,32 μΑ

19,2 mA

9,00 mA

192 μΑ

6,00 A

273 mA

6,00 μΑ

60,0 μΑ

1,32 A

132 mA

27,3 mA

9,00 μΑ

273 μΑ

1,32 mA

19,2 μΑ

VALUE Ω	1st DIGIT	2nd DIGIT	MULTI- PLIER	TOLE- RANCE
1.5 k Ω	BROWN	GREEN	RED	GOLD
4.7 k Ω	YELLOW	VIOLET	RED	GOLD
2.2 Ω	RED	RED	GOLD	GOLD
10 Ω	BROWN	BLACK	BLACK	GOLD
2.2 M Ω	RED	RED	GREEN	GOLD
15 k Ω	BROWN	GREEN	ORANG E	GOLD
330 k Ω	ORANG E	ORANG E	YELLOW	GOLD
220 k Ω	RED	RED	YELLOW	GOLD
4.7 Ω	YELLOW	VIOLET	GOLD	GOLD
6.8 M Ω	BLUE	GREY	GREEN	GOLD
470Ω	YELLOW	VIOLET	BROWN	GOLD
1 k Ω	BROWN	BLACK	RED	GOLD
47 k Ω	YELLOW	VIOLET	ORANG E	GOLD
1.5 Ω	BROWN	GREEN	GOLD	GOLD
33 Ω	ORANG E	ORANG E	BLACK	GOLD
1.5 M Ω	BROWN	GREEN	GREEN	GOLD
150 k Ω	BROWN	GREEN	YELLOW	GOLD
6.8 Ω	BLUE	GREY	GOLD	GOLD
68 Ω	BLUE	GREY	BLACK	GOLD
330 Ω	ORANG E	ORANG E	BROWN	GOLD
1 ΜΩ	BROWN	BLACK	GREEN	GOLD
33 k Ω	ORANG E	ORANG E	ORANG E	GOLD
6.8 k Ω	BLUE	GREY	RED	GOLD
470 k Ω	YELLOW	VIOLET	YELLOW	GOLD