

## LESSON 6

## Color Code Practice with +/- 1%

Watch video  
Lesson 6

The resistors shown all have 5 color bands and, because the last band color is Brown, they are all +/- 1% tolerance resistors.

For each resistor, the numbers are filled in that correspond to each band color. Study the answers carefully.

We used the Resistor Color Code to determine the Value in Ohms and Tolerance.

If the 2nd to last color is Silver, move the decimal back 2 places, if it is Gold, move the decimal back only 1 place.



Practice Quiz

## Pictures of +/- 1% Resistors



#R1

(Yellow, Violet, Black, Red, Brown)



#R2

(Red, Black, Black, Yellow, Brown)



#R3

(Green, Blue, Black, Black, Brown)



#R4

(Red, Black, Black, Silver, Brown)



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## Numbers filled in

#R1 Number

Band 1 4Band 2 7Band 3 0Band 4 2 zerosBand 5 1%

Value in Ohms

**47.000 ohms**Tolerance **+/- 1%**

#R2 Number

Band 1 2Band 2 0Band 3 0Band 4 4 zerosBand 5 1%

Value in Ohms

**2.000.000 ohms**Tolerance **+/- 1%**

#R3 Number

Band 1 5Band 2 6Band 3 0Band 4 0 zerosBand 5 1%

Value in Ohms

**560 ohms**Tolerance **+/- 1%**

#R4 Number

Band 1 2Band 2 0Band 3 0Band 4 decimal back 2Band 5 1%

Value in Ohms

**2 ohms**Tolerance **+/- 1%**

## Activity Page Lab 1201

## Pictures of +/- 1% Resistors

## Fill-in Answers

6b


Let's practice using the Resistor Color Code with some +/- 1% resistors which have 5 color bands.

Fill in your answers on the right-hand column of this page.


Remember that 1% resistors have 5 color bands. The same Color Code colors apply but the tolerance color is Brown and not Gold like the 5% resistors.

Take your time. The first 3 colors are numbers followed by the 4th color which is quantity of zeros to add at the end of the first 3 numbers.


The fifth color, Brown, is the Tolerance.

 **#R1**  
(Brown, Gray, Black, Gold, Brown)



 **#R2**  
(Brown, Orange, Black, Brown, Brown)



 **#R3**  
(Brown, Black, Black, Red, Brown)



 **#R4**  
(Violet, Green, Black, Orange, Brown)



<b>#R1</b>	Number	
Band 1	_____	Value in Ohms
Band 2	_____	_____
Band 3	_____	_____
Band 4	_____	Tolerance _____
Band 5	_____	

<b>#R2</b>	Number	
Band 1	_____	Value in Ohms
Band 2	_____	_____
Band 3	_____	_____
Band 4	_____	Tolerance _____
Band 5	_____	

<b>#R3</b>	Number	
Band 1	_____	Value in Ohms
Band 2	_____	_____
Band 3	_____	_____
Band 4	_____	Tolerance _____
Band 5	_____	

<b>#R4</b>	Number	
Band 1	_____	Value in Ohms
Band 2	_____	_____
Band 3	_____	_____
Band 4	_____	Tolerance _____
Band 5	_____	

