

## LESSON 5

## Color Code Practice with +/- 5%

Watch video  
Lesson 5

The resistors shown all have 4 color bands and because the last band color is Gold, they are all +/- 5% 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.

Technicians and engineers become proficient in the use of the Resistor Color Code in their daily work.



Practice Quiz

## Pictures of +/- 5% Resistors



#R1

(Brown, Black, Brown, Gold)



#R2

(Brown, Black, Red, Gold)



#R3

(Brown, Blue, Red, Gold)



#R4

(Red, Black, Brown, Gold)



#R5

(Orange, Orange, Black, Gold)



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## Numbers filled in

#R1	Number	Value in Ohms
Band 1	<u>1</u>	<b>100 ohms</b>
Band 2	<u>0</u>	
Band 3	<u>1 zero</u>	Tolerance <u>+/- 5%</u>
Band 4	<u>5%</u>	

#R2	Number	Value in Ohms
Band 1	<u>1</u>	<b>1000 ohms</b>
Band 2	<u>0</u>	
Band 3	<u>2 zeros</u>	Tolerance <u>+/- 5%</u>
Band 4	<u>5%</u>	

#R3	Number	Value in Ohms
Band 1	<u>1</u>	<b>1600 ohms</b>
Band 2	<u>6</u>	
Band 3	<u>2 zeros</u>	Tolerance <u>+/-5%</u>
Band 4	<u>5%</u>	

#R4	Number	Value in Ohms
Band 1	<u>2</u>	<b>200 ohms</b>
Band 2	<u>0</u>	
Band 3	<u>1 zero</u>	Tolerance <u>+/-5%</u>
Band 4	<u>5%</u>	

#R5	Number	Value in Ohms
Band 1	<u>3</u>	<b>33 ohms</b>
Band 2	<u>3</u>	
Band 3	<u>0 zeros</u>	Tolerance <u>+/-5%</u>
Band 4	<u>5%</u>	

## Activity Page Lab 1201

Let's practice using the Resistor Color Code.

Here are some common +/- 5% resistors.

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

Note: You need to know how to use the Resistor Color Code to find values of resistors **but** you do not need to memorize it because you can always look it up when you need it.

If you use it a lot, you will automatically memorize it.

## Pictures of +/- 5% Resistors



**#R1**

(Red, Yellow, Red, Gold)



**#R2**

(Brown, Black, Blue, Gold)



**#R3**

(Yellow, Orange, Brown, Gold)



**#R4**

(Blue, Gray, Brown, Gold)



## Fill-in Answers

5b

**#R1**

Number \_\_\_\_\_

Value in Ohms \_\_\_\_\_

Band 1 \_\_\_\_\_

Band 2 \_\_\_\_\_

Band 3 \_\_\_\_\_

Band 4 \_\_\_\_\_

Tolerance \_\_\_\_\_

**#R2**

Number \_\_\_\_\_

Value in Ohms \_\_\_\_\_

Band 1 \_\_\_\_\_

Band 2 \_\_\_\_\_

Band 3 \_\_\_\_\_

Band 4 \_\_\_\_\_

Tolerance \_\_\_\_\_

**#R3**

Number \_\_\_\_\_

Value in Ohms \_\_\_\_\_

Band 1 \_\_\_\_\_

Band 2 \_\_\_\_\_

Band 3 \_\_\_\_\_

Band 4 \_\_\_\_\_

Tolerance \_\_\_\_\_

**#R4**

Number \_\_\_\_\_

Value in Ohms \_\_\_\_\_

Band 1 \_\_\_\_\_

Band 2 \_\_\_\_\_

Band 3 \_\_\_\_\_

Band 4 \_\_\_\_\_

Tolerance \_\_\_\_\_

