

THE ARDUINO PROJECTS BOOK

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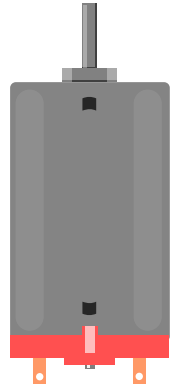
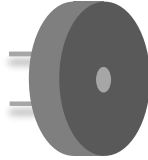
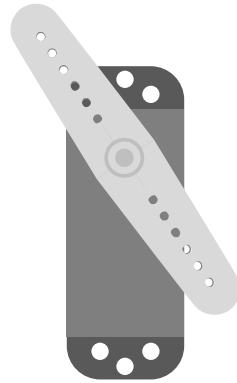
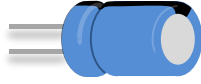
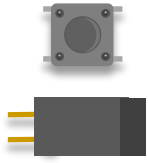
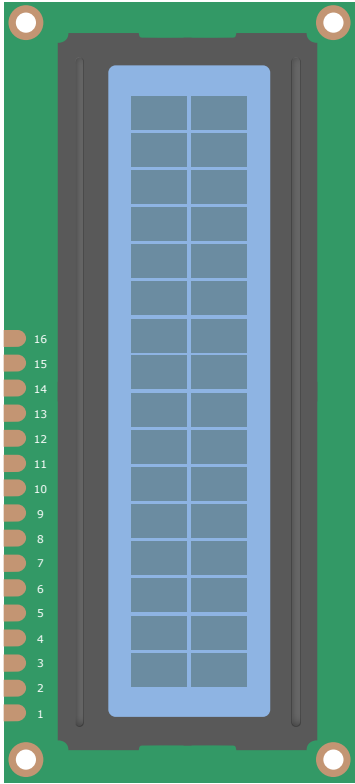
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This book cannot be sold separately from the Arduino Starter Kit.

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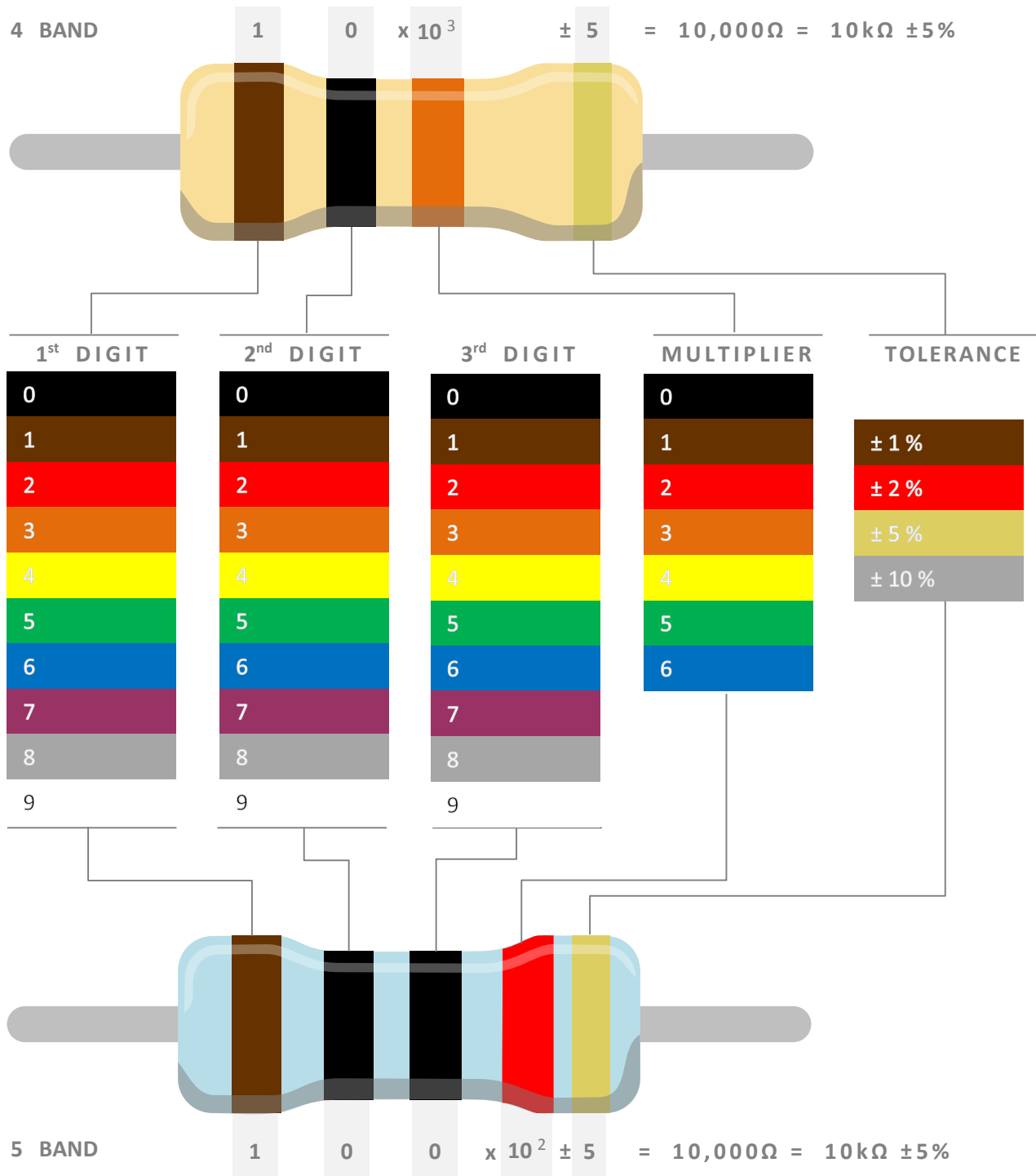
First reprint, December 2012



HOW TO READ RESISTOR COLOR CODES



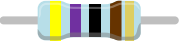




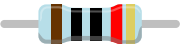






Resistor values are marked using colored bands, according to a code developed in the 1920s, when it was too difficult to write numbers on such tiny objects.

Each color corresponds to a number, like you see in the table below. Each resistor has either 4 or 5 bands. In the 4-band type, the first two bands indicate the first two digits of the value while the third one indicates the number of zeroes that follow (technically it represents the power of ten). The last band specifies the tolerance: in the example below, gold indicates that the resistor value can be 10k ohm plus or minus 5%.



RESISTORS INCLUDED IN THE STARTER KIT

You'll find either a 4 band or a 5 band version

			5 BAND	
<hr/>				
			4 BAND	
220 Ω	560 Ω	4.7 k Ω		
				5 BAND
<hr/>				
				4 BAND
1 k Ω	10 k Ω	1 M Ω	10 M Ω	