

Lesson 20 Four Digital Seven Segment Display

Overview

In this lesson, you will learn how to use a 4-digit 7-segment display.

When using 1-digit 7-segment display, please notice that if it is common anode, the common anode pin connects to the power source; if it is common cathode, the common cathode pin connects to the GND.

When using 4-digit 7-segment display, the common anode or common cathode pin is used to control which digit is displayed. Even though there is only one digit working, the principle of Persistence of Vision enables you to see all numbers displayed because each the scanning speed is so fast that you hardly notice the intervals.

Component Required:

- (1) x Elegoo Uno R3
- (1) x 830 tie-points breadboard
- (1) x 74HC595 IC
- (1) x 4 Digit 7-Segment Display
- (4) x 220 ohm resistors
- (23) x M-M wires (Male to Male jumper wires)

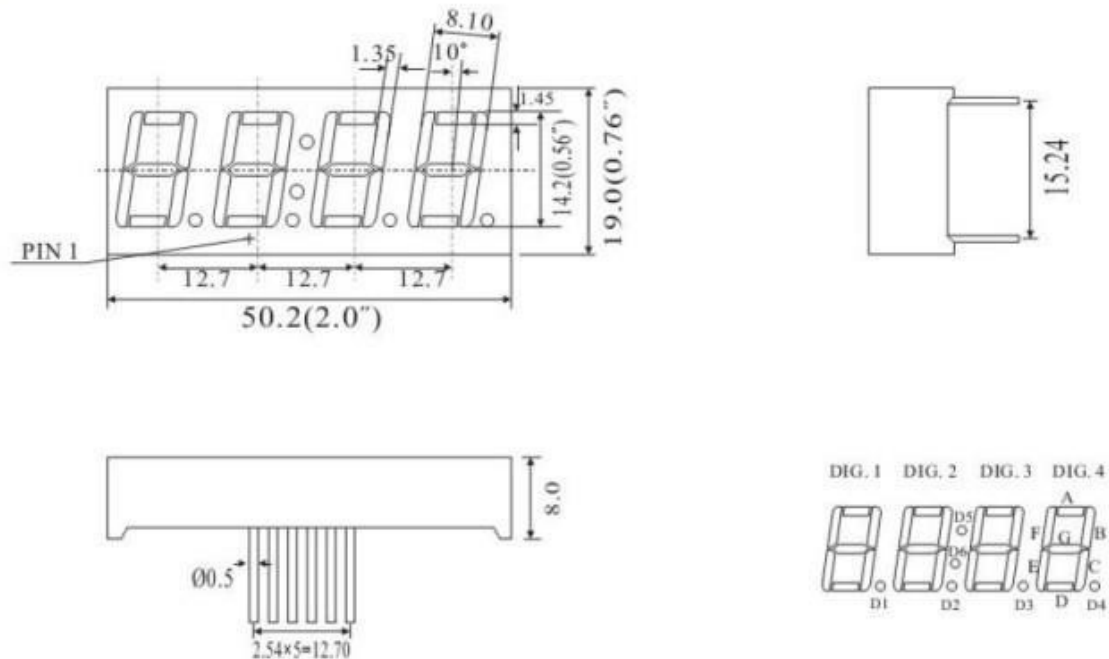


Component Introduction

Four Digital Seven segment display

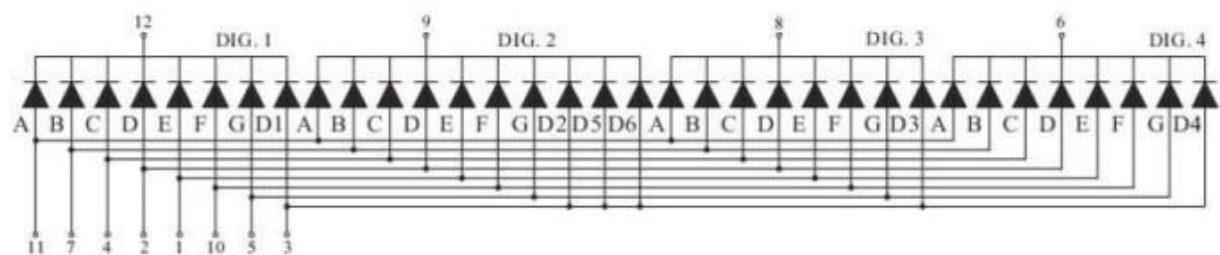
Package Dimensions

CPS05643AB

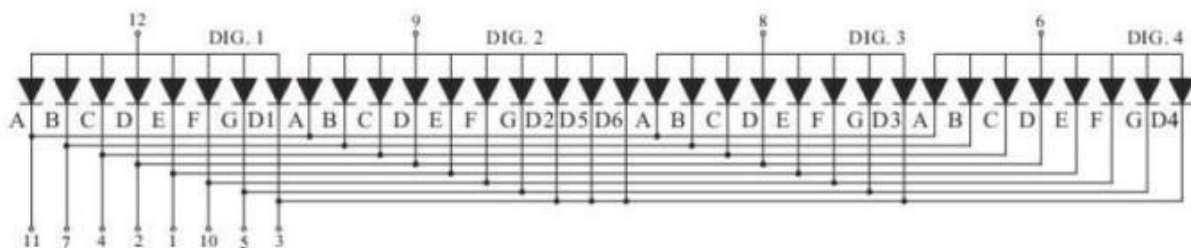


UNIT: MM(INCH) TOLERANCE: $\pm 0.25(0.01")$

Internal Circuit Diagram

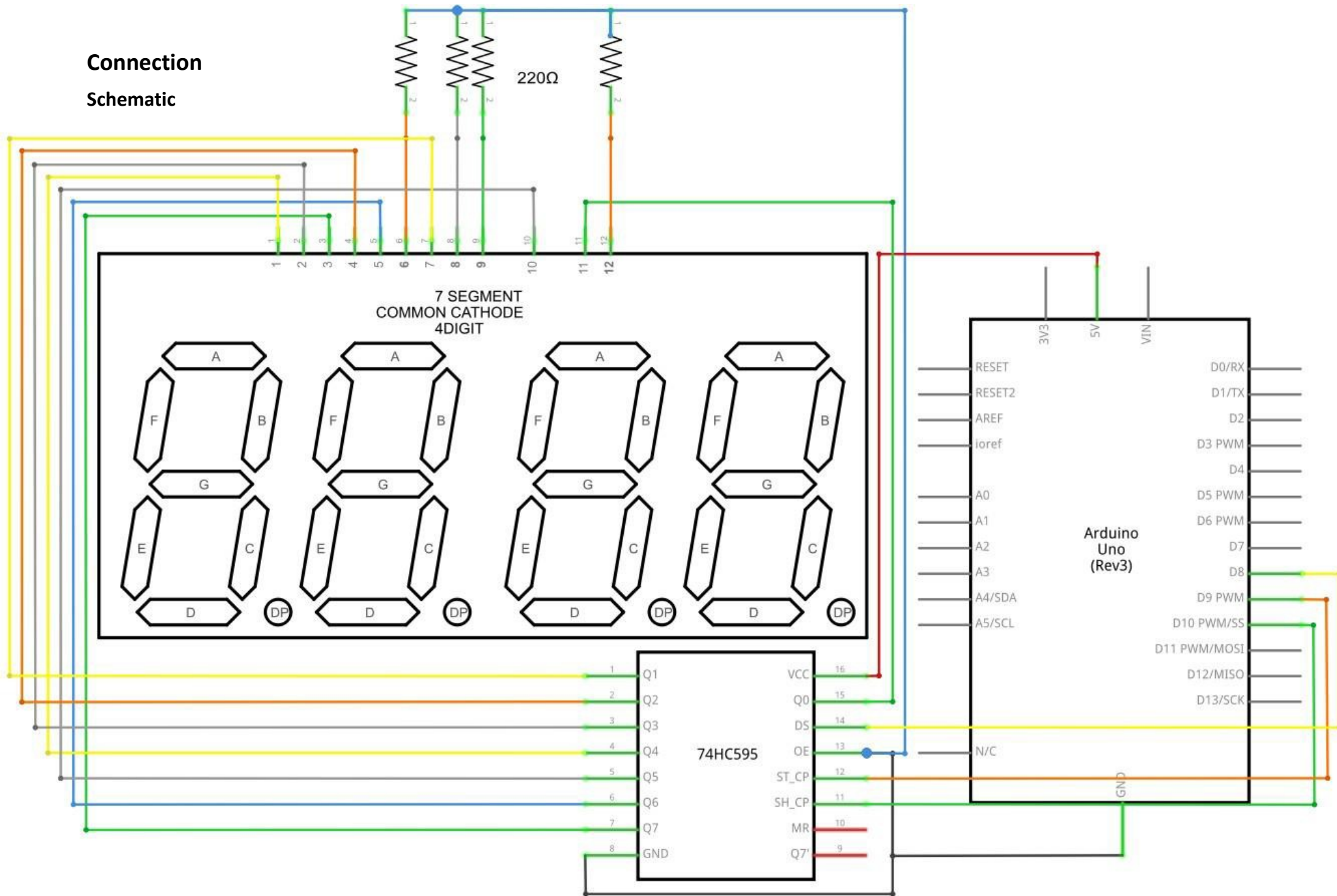


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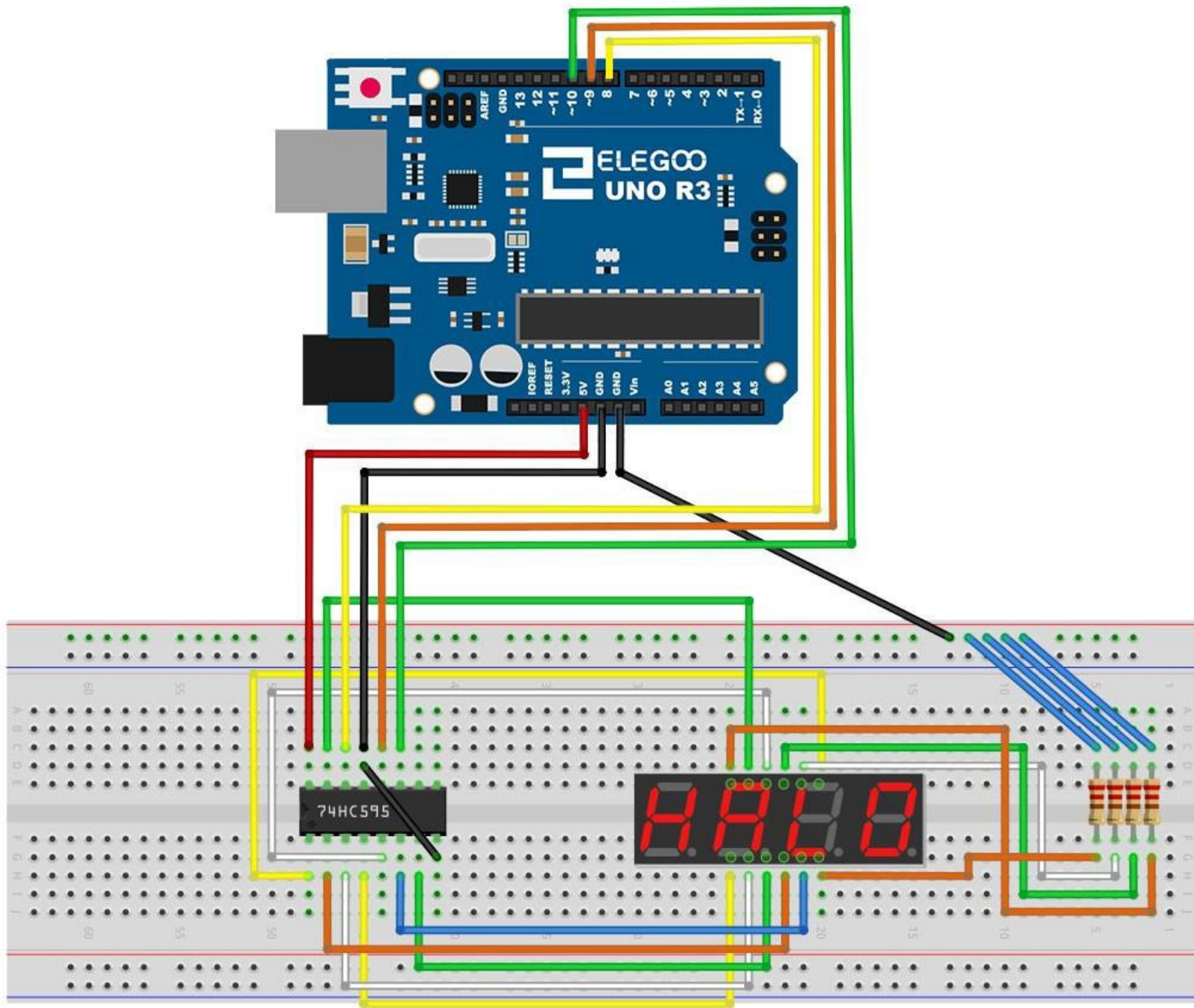


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Connection Schematic



Wiring diagram



Code

After wiring, please open the program in the code folder- Lesson 20 Four Digital Seven Segment Display and click UPLOAD to upload the program. See Lesson 2 for details about program uploading if there are any errors.

Example picture

