

## Four Digital Seven Segment Display

### Overview

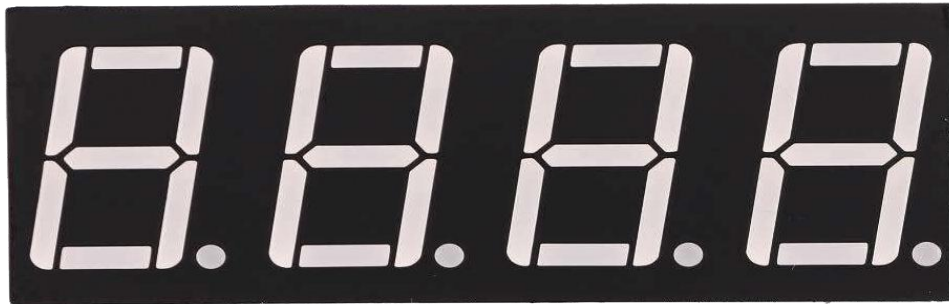
In this lesson, you will learn how to use a 4-digit 7-segment display.

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 Mega2560 R3
- 1 x 830 tie-points breadboard
- 1 x 4 Digit 7-Segment Display
- 8 x 220 ohm resistors

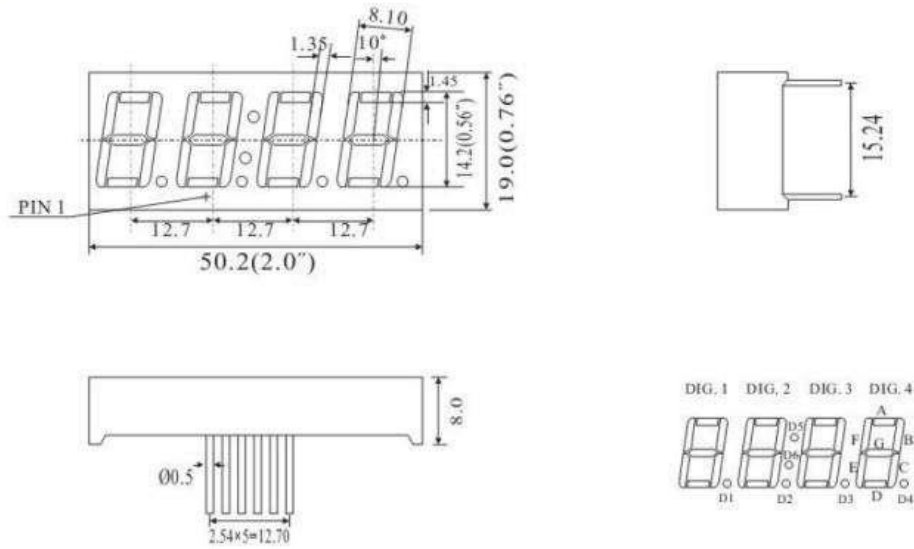


### Component Introduction

Four Digital Seven segment display

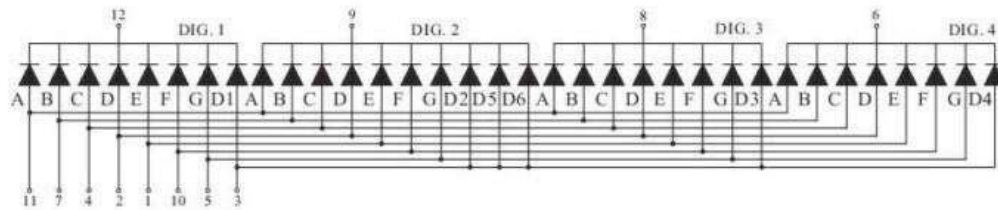
## Package Dimensions

CPS05643AB

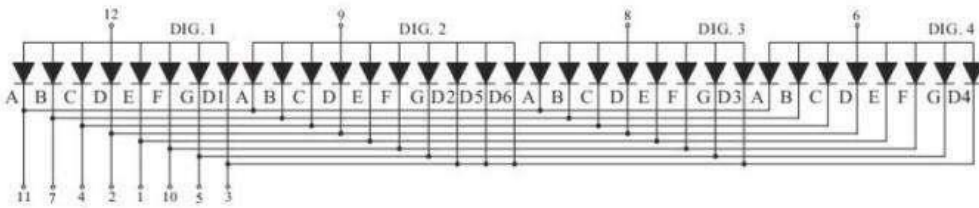


UNIT: MM(INCH) TOLERANCE:  $\pm 0.25(0.01'')$

## Internal Circuit Diagram



5643A

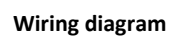


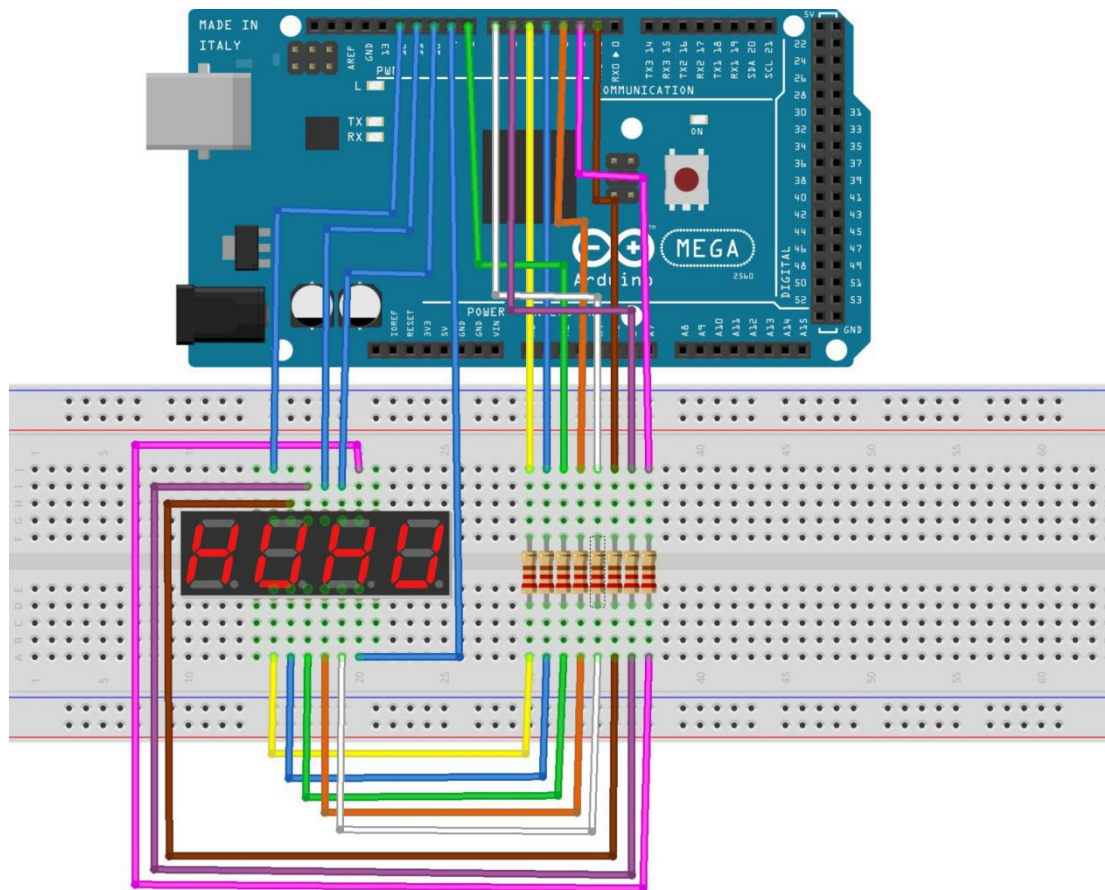
5643B

## Four Digits Displays Series

Connection

Schematic





## Code

After wiring, please open the program in the code folder- [“Four Digital Seven Segment Display”](#) and click [UPLOAD](#) to upload the program. See [“Blink”](#) for details about program uploading if there are any errors.

Experimental results for digital tube display 1234