

Lab Report: Glucose monitor

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November 30, 2015

1 Voltage Source

Having my younger siblings visiting for Family Weekend, I asked them to find a pair of resistors ending in "k" with a ratio of approximately 2 : 3. The resulting resistor values were nominally $4k\Omega$ and $6.04k\Omega$, for a theoretical voltage divider output of

$$5V * \frac{4k\Omega}{4k\Omega + 6.04k\Omega} = 1.992V$$

The actual measured value was slightly lower, at $1.97V$, but the difference wasn't significant enough to be a problem.

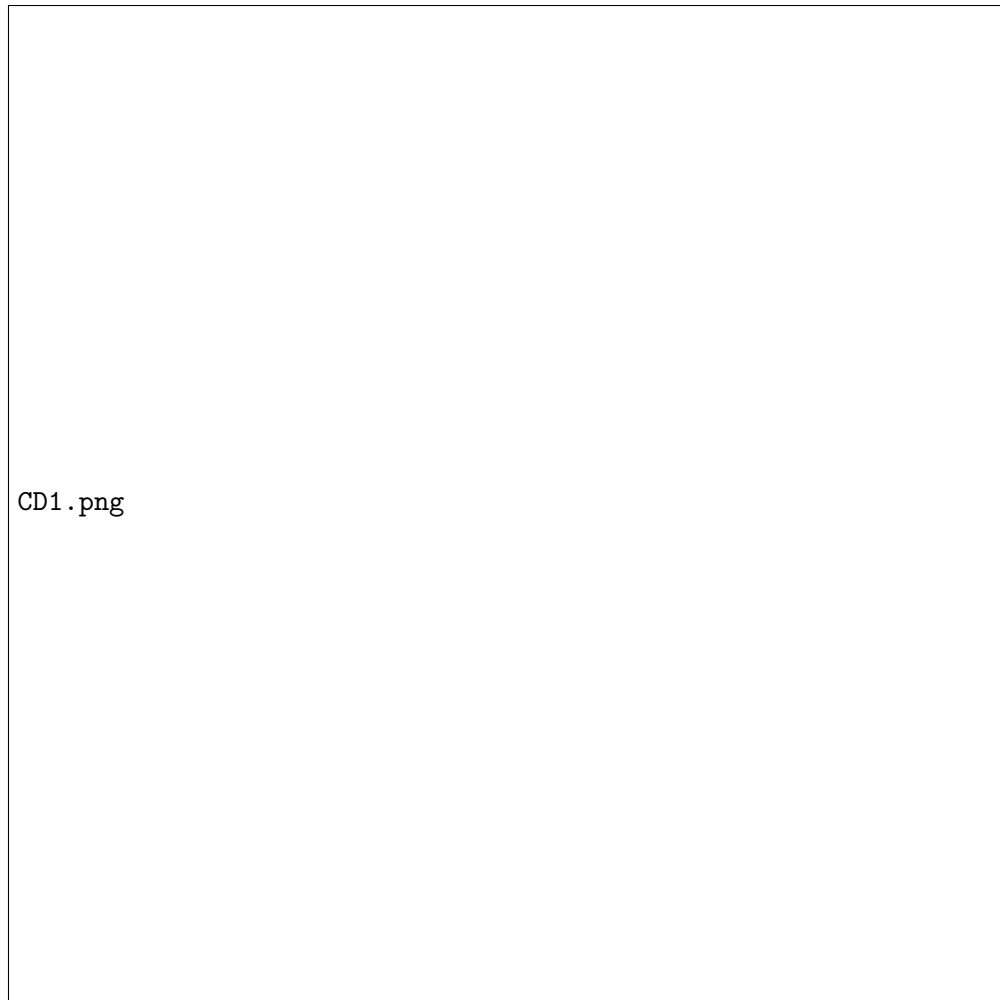


Figure 1: Voltage Divider circuit

Ch	Name	Value
C1	Average	1.976 V

Figure 2: Voltage Divider results

2 Measure Resistance