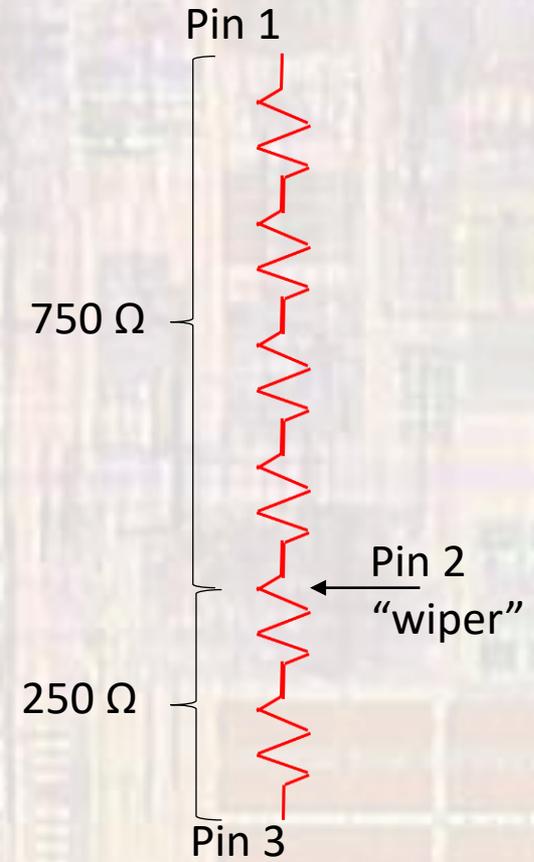
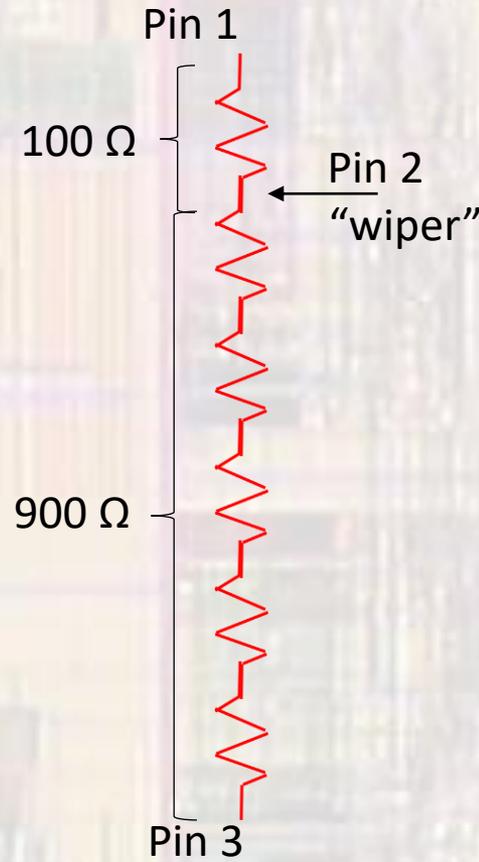
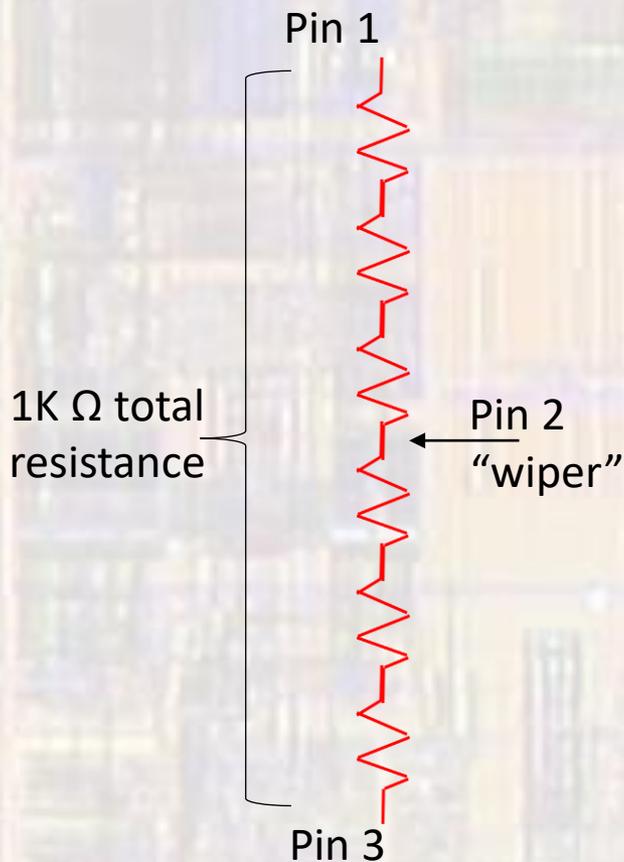


Potentiometer Basics

Last updated 7/15/21

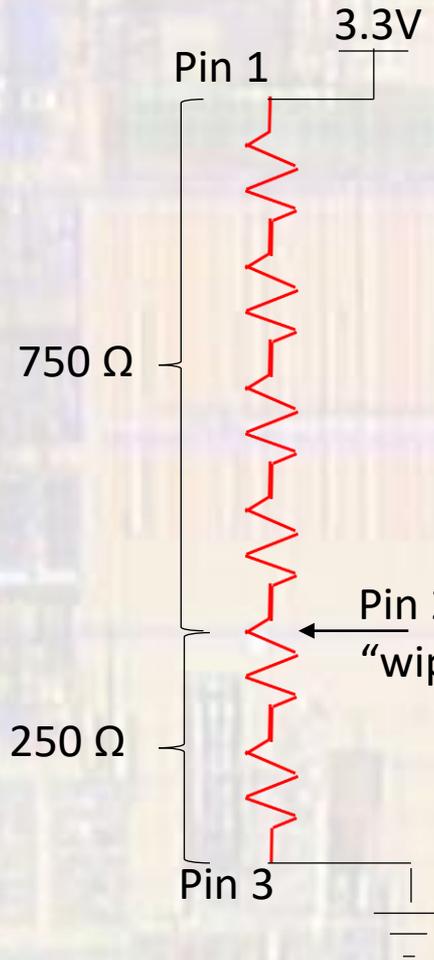
Potentiometer Basics

- Variable resistance
- 1K Ohm example



Potentiometer Basics

- Variable resistance
- Voltage Divider

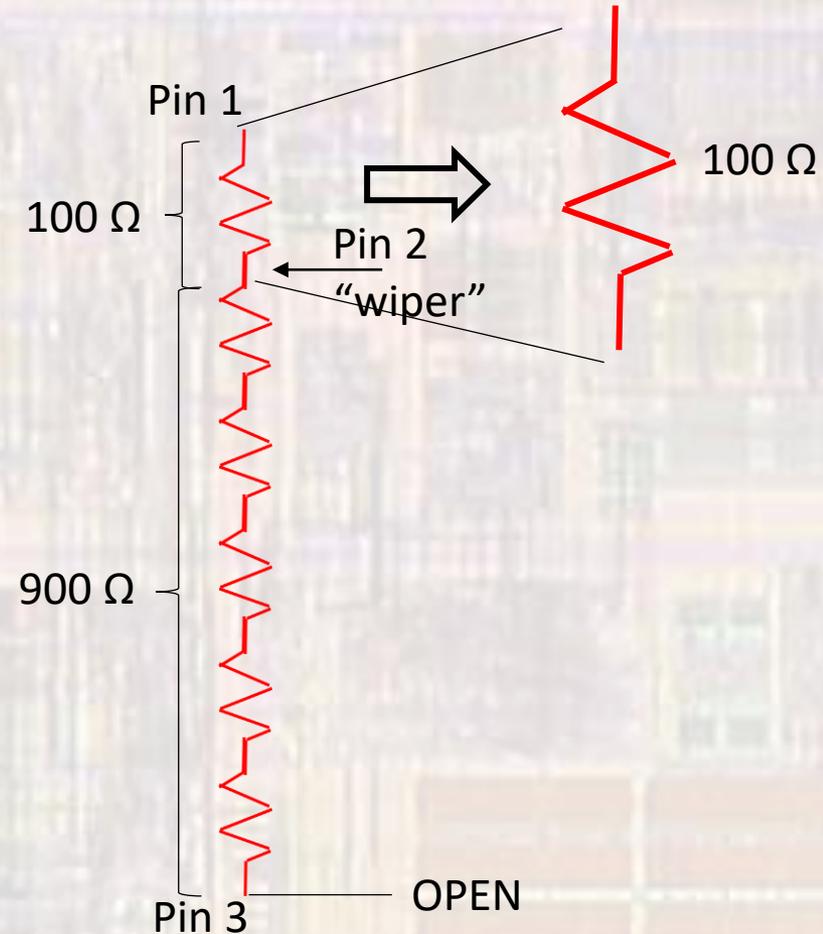
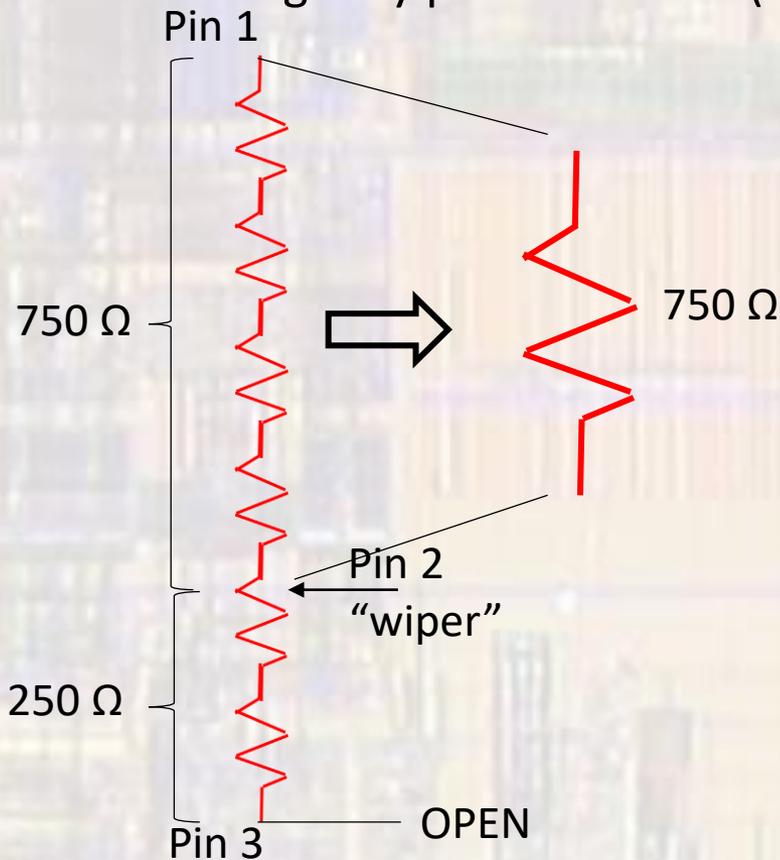


$$V_{\text{out}} = \frac{(V_{\text{top}} - V_{\text{bottom}}) * R_{\text{bottom}}}{R_{\text{total}}}$$

$$\frac{(3.3\text{V} - 0\text{V}) * 250 \Omega}{250 \Omega + 750 \Omega} = 0.825 \text{ V}$$

Potentiometer Basics

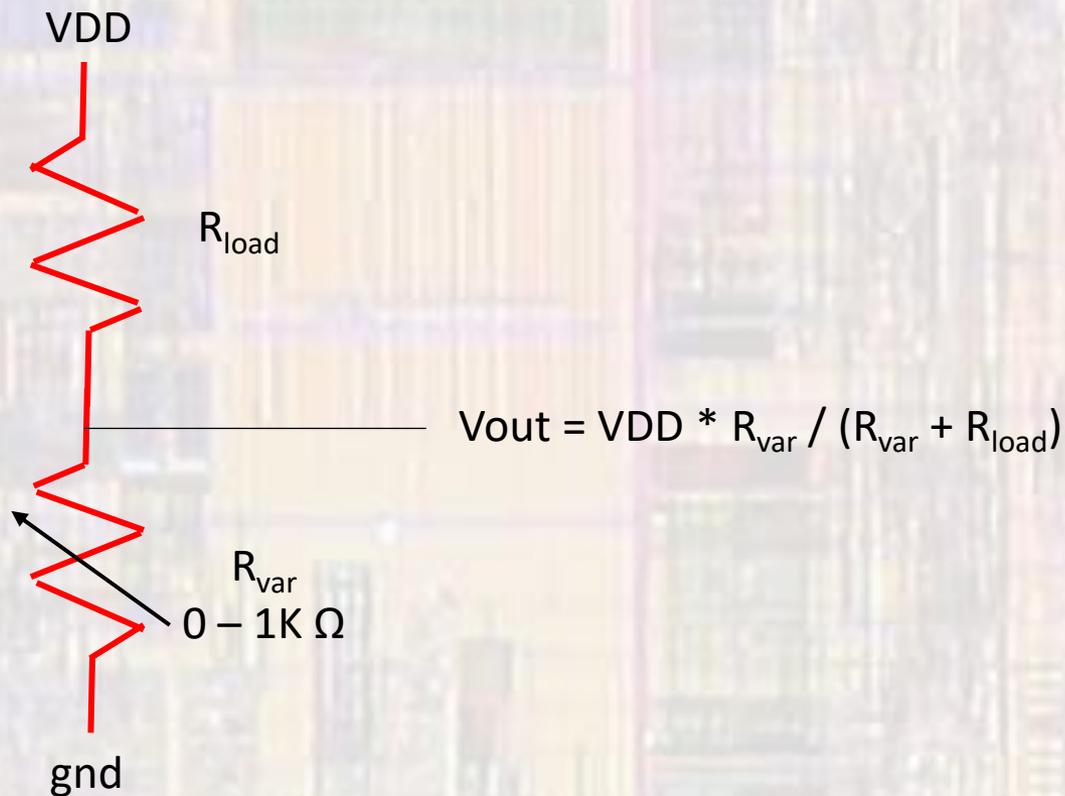
- Variable resistance
- Rheostat – one pin open
- Using only pin1 and Pin 2 (wiper)*



* Pin2 and Pin3 would also work

Potentiometer Basics

- Variable resistance
 - Rheostat – one pin open
 - 1K Ω example



Potentiometer Basics

- Variable resistance

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