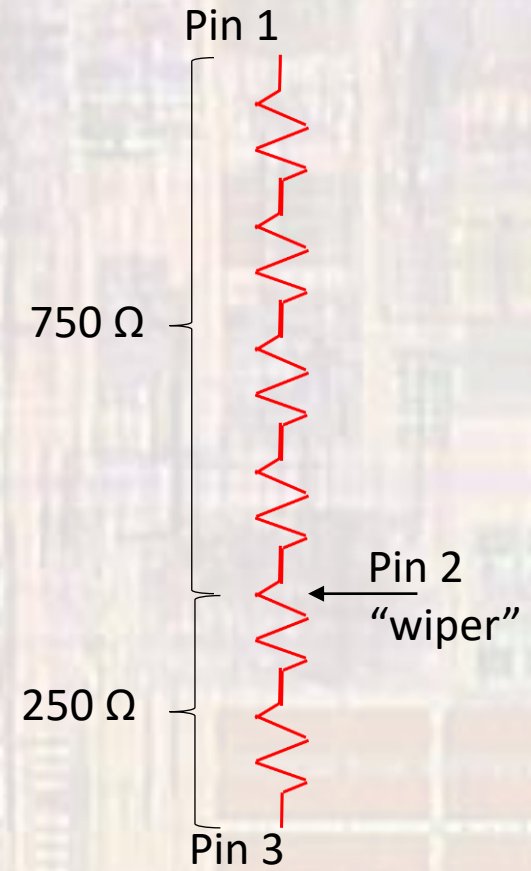
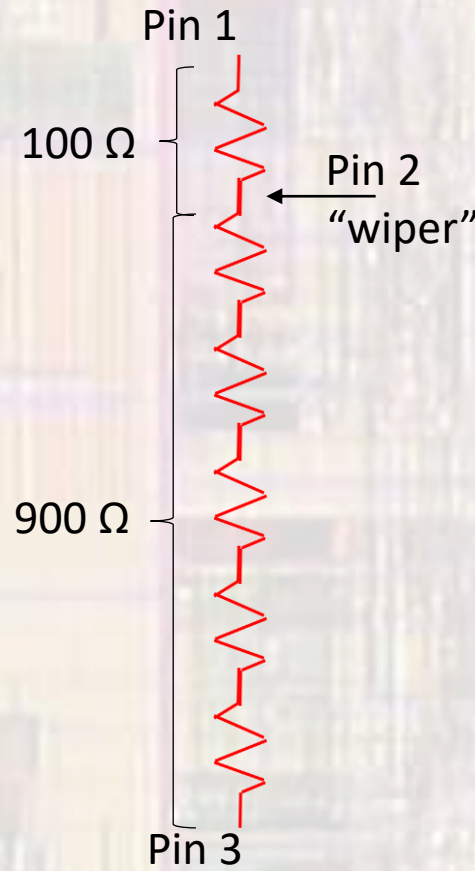
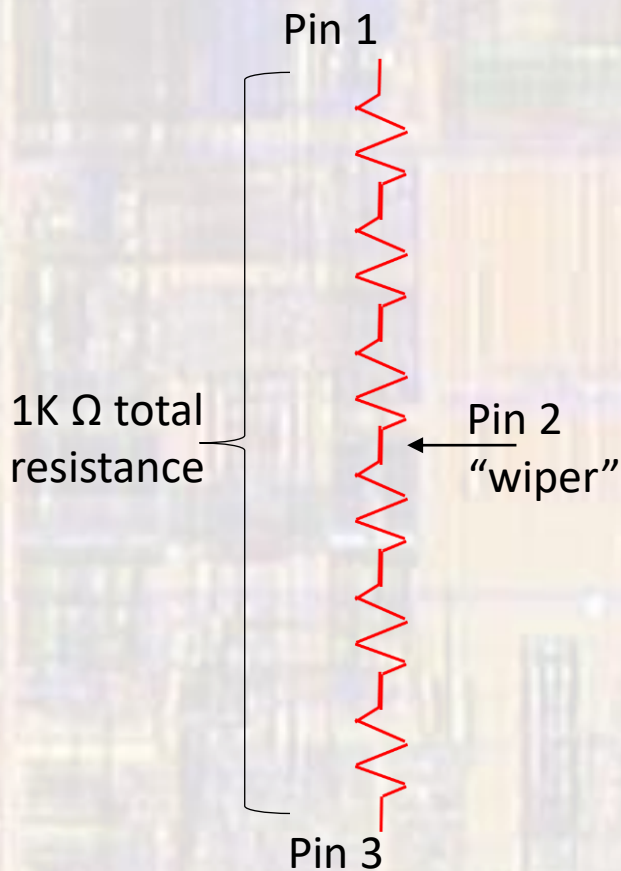


Potentiometer Basics

Last updated 7/15/21

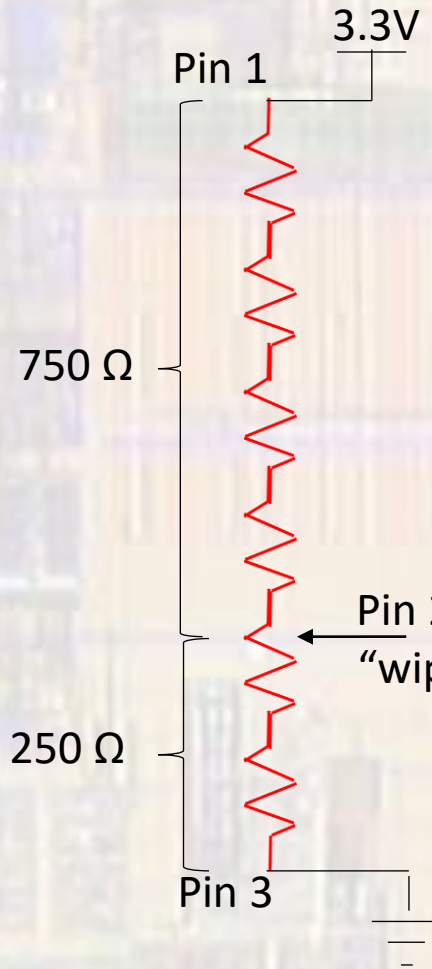
Potentiometer Basics

- Variable resistance
 - 1K Ohm example



Potentiometer Basics

- Variable resistance
- Voltage Divider

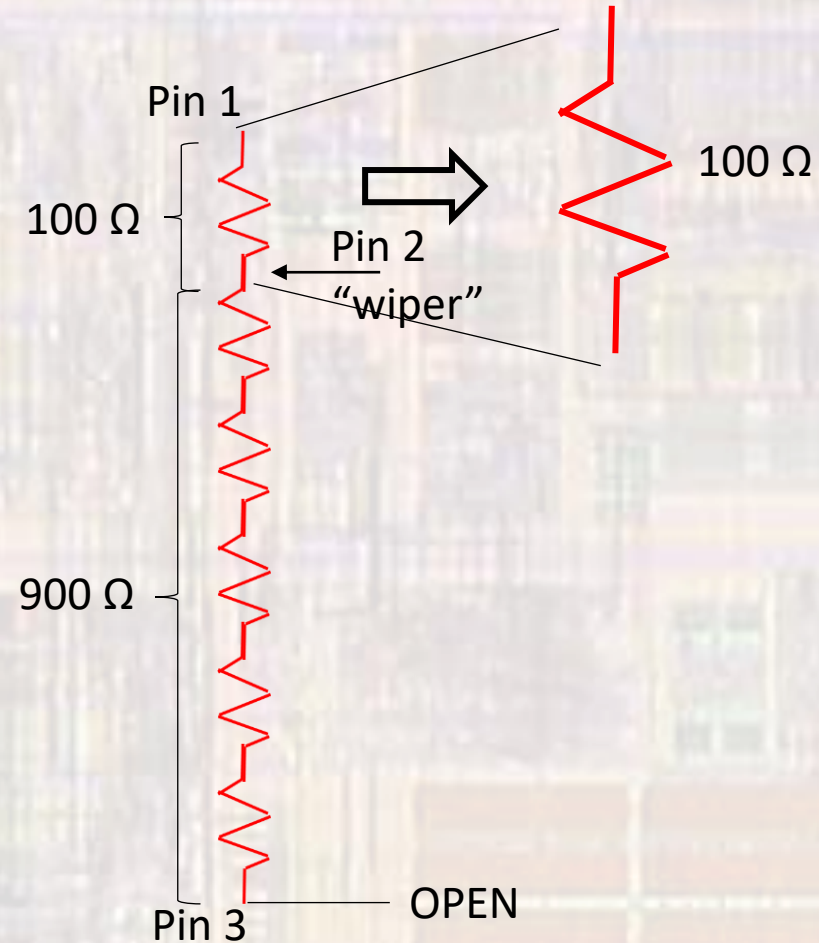
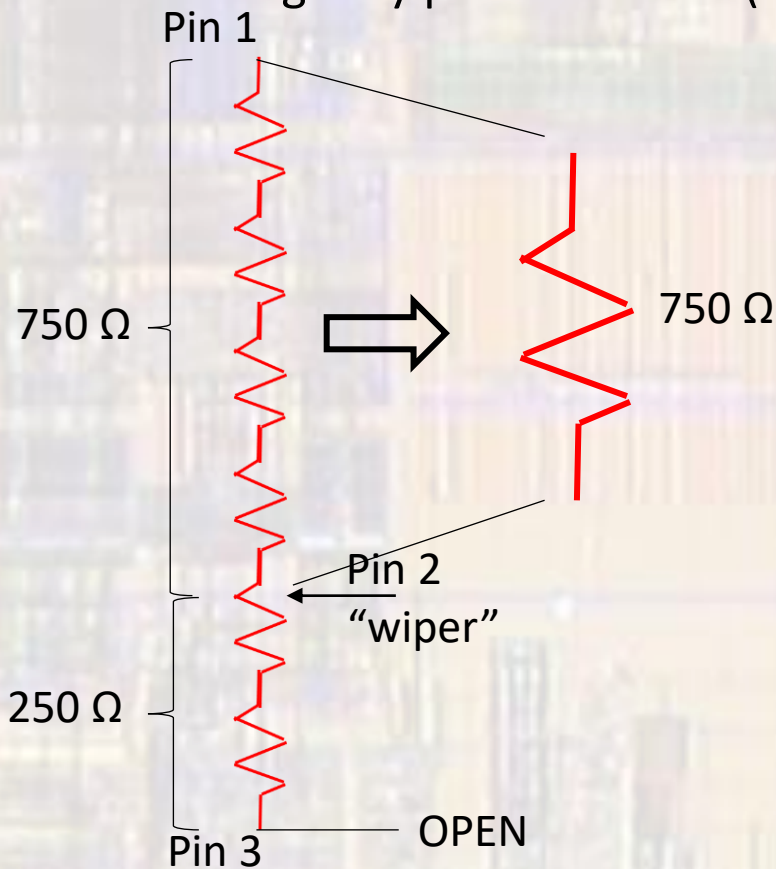


$$V_{out} = \frac{(V_{top} - V_{bottom}) * R_{bottom}}{R_{total}}$$

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

Potentiometer Basics

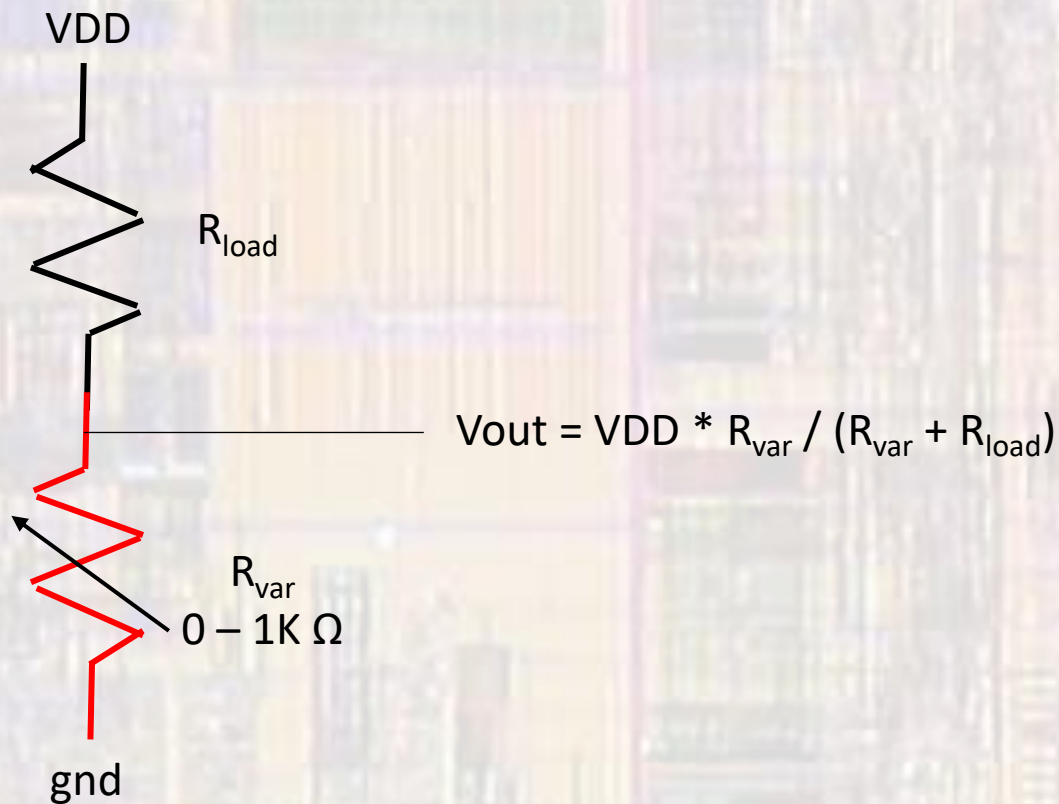
- Variable resistance
- Rheostat – one pin open
- Using only pin1 and Pin 2 (wiper)*



* Pin2 and Pin3 would also work

Potentiometer Basics

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



Potentiometer Basics

- Variable resistance

3352

