

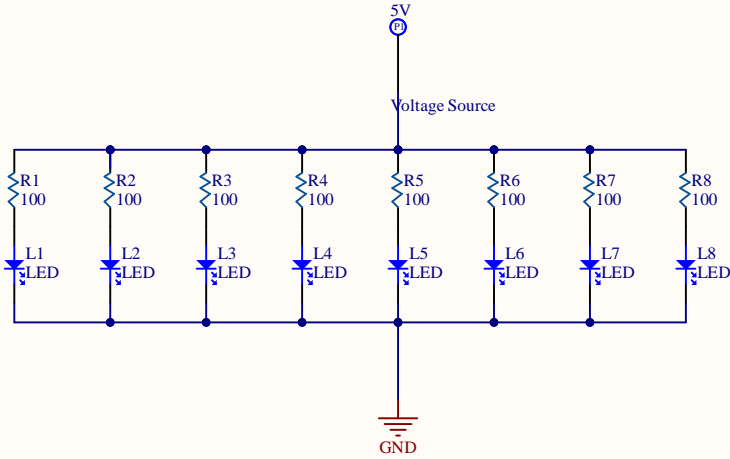
Resistor Calculations:
Voltage Range: 5V
Forward Voltage: 3.3V
Desired LED Current: 15mA
 $R = (\text{Power Supply V} - \text{Forward V}) / \text{Desired Current}$
 $R = (5V - 3.3V) / 15mA = 113.34 \text{ Ohms}$
With 100 Ohm Resistor:
 $I = (5V - 3.3V) / 100 = 17mA$
Max Current: 20mA

Note: VIN will be connected to voltage source.

LED Strip Length is 22cm

Length: Components are spaced 2cm apart.

Width: Wing width is 10mm, LEDs are 3mm long and resistors are 1.60mm long.



Title Navigation Lights		
Size A4	Number	Revision V113
Date:	3-22-2022	Sheet of
File:	C:\Users\...\NavLightsSchem.SchDoc	Drawn By: Neel.B and Kevin.S