

Resistor Calculations:

Voltage Range: 5V

Forward Voltage: 3.3V

Desired LED Current: 15mA

$R = (\text{Power Supply } V - \text{Forward } V) / \text{Desired Current}$

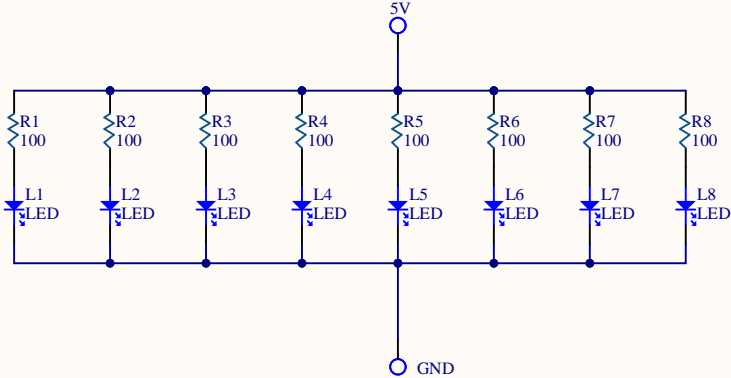
$R = (5V - 3.3V) / 15mA = 113.34 \text{ Ohms}$

With 100 Ohm Resistor:

$I = (5V - 3.3V) / 100 = 17mA$

Max Current: 20mA

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		
Nav Lights		
Size	Number	Revision
A4		
Date:	3-25-2022	Sheet of
File:	C:\Users\...\NavLightsSchem.SchDoc	Drawn By: Neel B and Kevin S