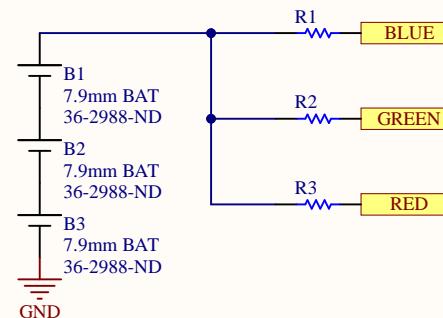


A

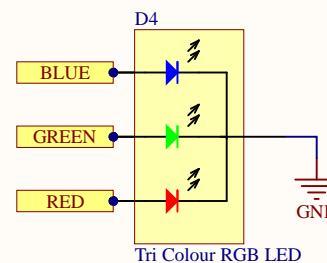
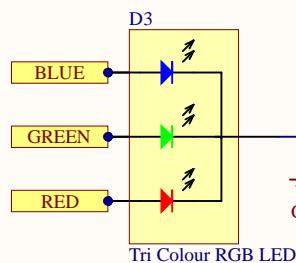
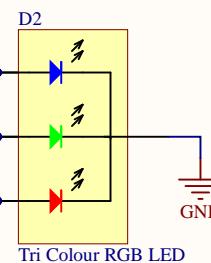
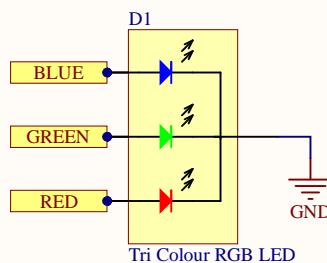
Resistor Calcs for one LED: (15mA max)
 Red: $(4.5-2.0)/(15 \times 10^{-3}) = 166$
 Green: $(4.5-3.0)/(15 \times 10^{-3}) = 100$
 Blue: $(4.5-3.0)/(15 \times 10^{-3}) = 100$

Equivalent Resistances:
 Red: $166/9 = 18$ Ohms
 Green: $100/9 = 10$ Ohms
 Blue: $100/9 = 10$ Ohms

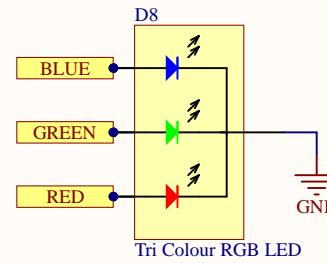
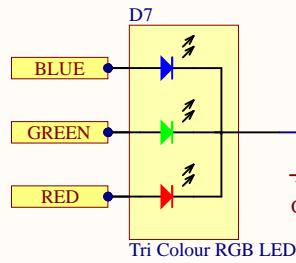
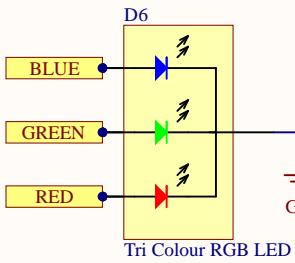
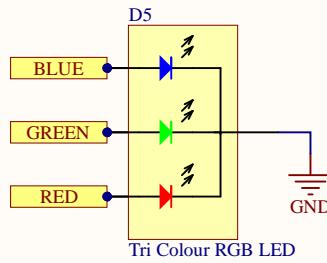
Note: Simulation says 150 ohms on all terminals might be better. In either case, the resistances will be variable



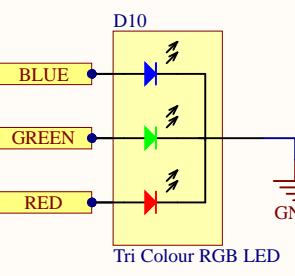
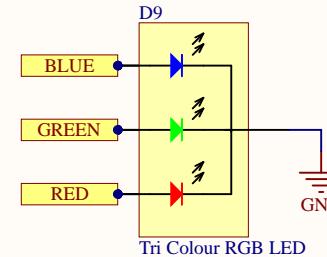
B



C



D



Title: Tron LED Patch

Drawing Engineer: Sahil Kale

Revision: 1.0

Checking Engineer:

Date: 2/14/2021

Notes:

Document Name:

Sheet: 1 of 1



Board Stack Report