Assignment 1

B31DG

Resistor Values

Red LED 1.8 – 2.1V

60 ohms, 68

Orange LED 2 – 2.2V

55 ohms, 56

Green LED 2 - 3.1V

10 ohm, 10

Supply Voltage 3.3V

Resistance formula with LED:

R = (Vs – Vf) / If

R is the resistance value

Vs is the supply voltage (3.3v)

Vf is the desired forward voltage of the LED

If is the forward current through the LED and resistor (20mA used for calculations)

https://uk.rs-online.com/web/content/discovery/tools-and-calculators/led-resistor-calculator