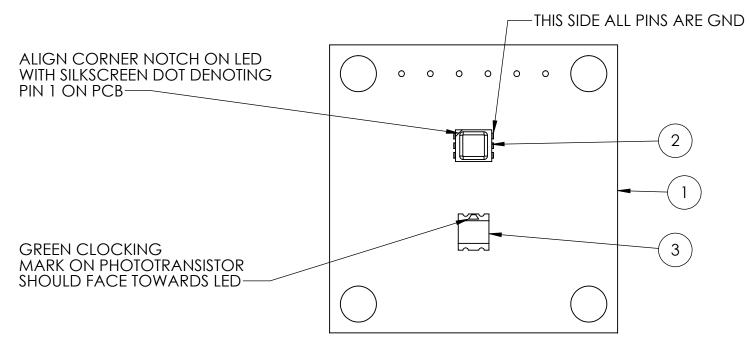
Part	Engineer	Manager	Date	Rev.
LED+Sensor Assembly	Nick Wright	Dan Block	Aug 8, 2018	1.0



NOTES:

- 1. SIX PIN HEADER (OR WIRES) SHOULD BE SOLDERED NORMALLY AND THEN TRIMMED FLUSH WITH PCB SURFACE.
- 2. ON REVERSE, USE THE FOLLOWING 1206 PACKAGE COMPONENT VALUES:

RIGHT SIDE RESISTORS: QTY(3) - 220 OHM AS INDICATED FOR RGB LED'S

LEFT SIDE RESISTOR: QTY(1) - 68.1 KOHM FOR PHOTOTRANSISTOR OR QTY(1) - 2.2 KOHM FOR PHOTORESISTOR

LEFT SIDE CAPACITOR: QTY(1) 0.1 µF FOR PHOTOTRANSISTOR. MAY BE OMITTED IF USING PHOTORESISTOR

- 3. TEST LED'S PRIOR AND SUBSEQUENT TO SOLDERING USING MULTIMETER'S CONTINUITY SETTING
- 4. HEADER PIN VALUES:

VCC = 3.3V INPUT VOUT = (OUTPUT CURRENT PROPORTIONAL TO LIGHT INTENSITY) X (RESISTOR VALUE) GND = GROUND R = GPIO INPUT TO RED LED G = GPIO INPUT TO GREEN LED B = GPIO INPUT TO BLUE LED

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	LED_PCB	PCB for LED + Phototransistor	1
2	AAAF3529SEKJ3ZGKQBKS	3.5 x 2.8 mm Surface Mount SMD Chip RGB LED	1
3	AP\$3227\$P1C-P22	Ambient Light Photo Sensor (Phototransistor)	1