Color Sensor — OPT4048

VDD Range: 1.71V – 3.6V

3.3V
R3
10k

U1

VDD   INT
      ADDR
SDA
GND   SCL

OPT4048

3.3V

C1
0.1uF

GND   GND

3.3V

INT
ADDR

SDA
SCL

Jumpers

3.3V

I2C_PU

R1
2.2k

R2
2.2k

Cut traces to remove I2C
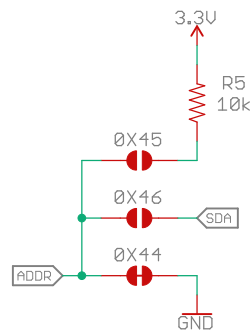pull-up resistors.

SDA
SCL

3.3V

R4
4.7k

D1
RED

LED

Cut trace to
disconnect Power
LED.

GND
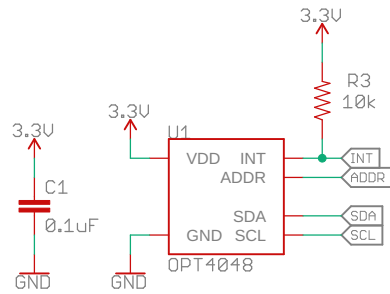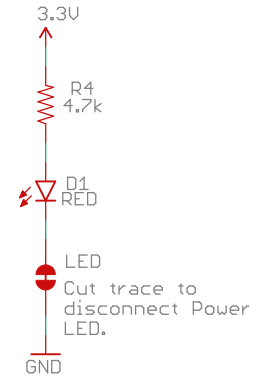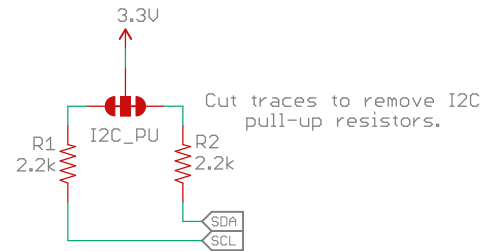
Address Selection Jumpers

Close Jumper to select
Address

3.3V

R5
10k

0X45

0X46

0X44

ADDR

SDA

GND

7-bit Unshifted Address	NET
0x44 (Default)	GND
0x45	3.3V/VDD
0x46	SDA

Connectors
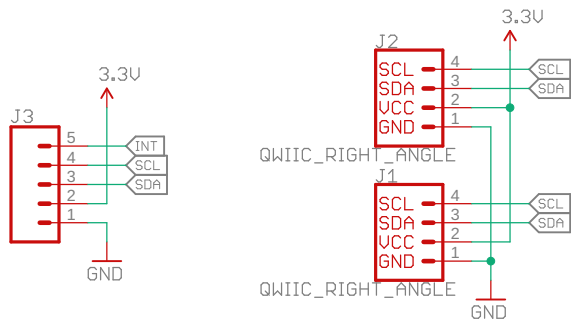
3.3V

J3

5   INT
4   SCL
3   SDA
2
1

GND

J2

SCL   4
SDA   3
VCC   2
GND   1

QWIIC_RIGHT_ANGLE

3.3V

SCL
SDA

J1

SCL   4
SDA   3
VCC   2
GND   1

QWIIC_RIGHT_ANGLE

GND

SCL
SDA

open hardware   qwiic   sparkfun

Special Instructions

TITLE: SparkFun_Color_Sensor_OPT4048

Design by: Elias Santistevan

REV:
v10

Date: 7/26/2023 10:01 AM   Sheet: 1/1