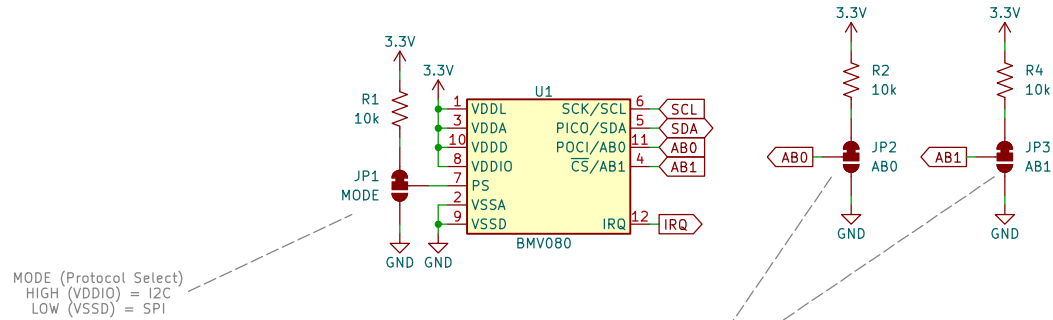# Particulate Matter Sensor BMV080

VCC INPUT ON THIS DESIGN: 3.3V (due to laser sharing VCC)
Otherwise...
VDDIO: 1.2-3.3V
VDDD: 2.5-3.3V
VDDL: 3.3V
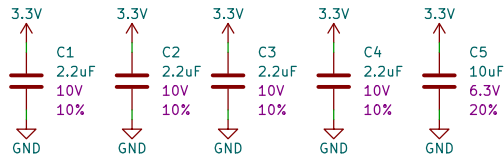VDDA: 2.5V-3.3V

Operating Temperature Range: -10C to +40C

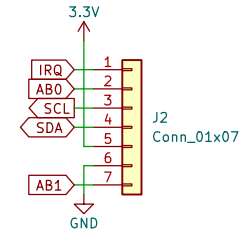# Connectors - PTH Headers

J2
Conn_01x07

MODE (Protocol Select)
HIGH (VDDIO) = I2C
LOW (VSSD) = SPI

Adjust JP2(AB0) and JP3(AB1)
to set desired I2C address.
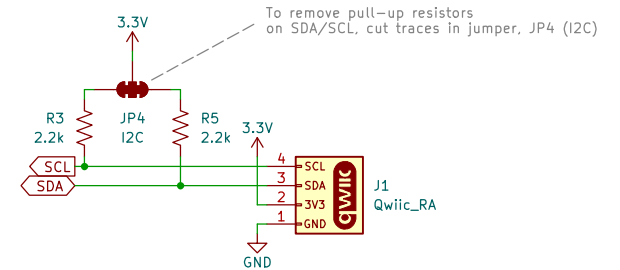Leave AB0 (POCI) open when using SPI.

AB1	AB0	I2C Address
0	0	0x54
0	1	0x55
1	0	0x56
1	1	**0x57 (DEFAULT)**

Qwiic Connector and I2C Pullups

To remove pull-up resistors
on SDA/SCL, cut traces in jumper, JP4 (I2C)

J1
Qwiic_RA

R3 2.2k   JP4 I2C   R5 2.2k

C1 2.2uF 10V 10%
C2 2.2uF 10V 10%
C3 2.2uF 10V 10%
C4 2.2uF 10V 10%
C5 10uF 6.3V 20%