I2C Module MCP23008

0100000x	0x40
0100001x	0x42
0100010x	0x44
0100011x	0x46
0100100x	0x48
0100101x	0x4A
0100110x	0x4C
0100111x	0x4E

LED	RESISTOR
BLUE	1K6
RED	2K7
ORANGE	2K7
GREEN	1K6

K1 — I2C

INT, RESET, SCL, SDA, GND, VDD

VDD

INT, RESET, SCL, SDA

C1 10µ

K2 — I2C

INT, RESET, SCL, SDA, GND, VDD

VDD

INT, RESET, SCL, SDA

VDD VDD VDD VDD

R2 4K7   R3 4K7

JP1   JP2

SCL   SDA

IC1 MCP23008

18	VDD
6	RESET
1	SCL
2	SDA
8	INT
3	A2
4	A1
5	A0
9	VSS

GP7 17
GP6 16
GP5 15
GP4 14
GP3 13
GP2 12
GP1 11
GP0 10

RESET
SCL
SDA

JP3 A2
JP4 A1
JP5 A0

C2 100n

R1 2K2 — LED1 Orange
R4 2K2 — LED2 Orange
R5 2K2 — LED3 Orange
R6 2K2 — LED4 Orange
R7 2K2 — LED5 Orange
R8 2K2 — LED6 Orange
R9 2K2 — LED7 Orange
R10 2K2 — LED8 Orange
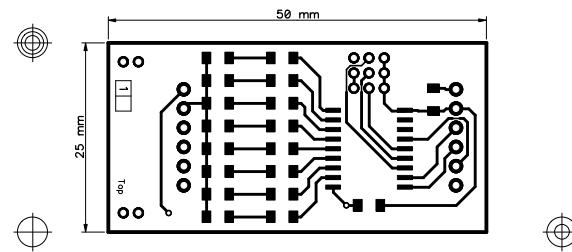
R1 & R2: Do Not Populate.

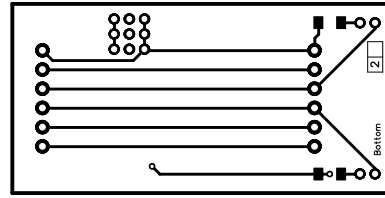http://www.tronix.io/
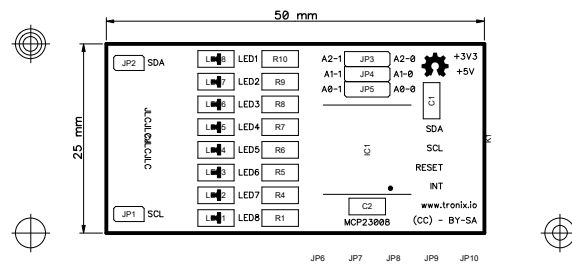
I2C Module MCP23008

MCP23008 LED

Sheet : 1/1 | 05/2020 | Rev.A

50 mm

25 mm

Top

MCP23008-LED - I2C - Rev.A - (05/2020) - SCALE: 100%

MCP23008-LED - I2C - Rev.A - (05/2020) - SCALE: 100%

50 mm

25 mm

JP2 SDA

JL,CJL,CJL,CJL,C

JP1 SCL

LED1 R10
LED2 R9
LED3 R8
LED4 R7
LED5 R6
LED6 R5
LED7 R4
LED8 R1

8
7
6
5
4
3
2
1

A2-1 JP3 A2-0
A1-1 JP4 A1-0
A0-1 JP5 A0-0

+3V3
+5V

SDA
SCL
RESET
INT

IC1

C2
MCP23008

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JP6   JP7   JP8   JP9   JP10

MCP23008-LED - I2C - Rev.A - (05/2020) - SCALE: 100%

+3V3-5V/25mA

VDD	VDD
GND	GND
SDA	SDA
SCL	SCL
RESET	RESET
INT	INT

R3

R2

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MCP23008-LED
202005 - Rev.A

MCP23008-LED - I2C - Rev.A - (05/2020) - SCALE: 100%