LCD ENABLE MOSFETS

R1 1k
R2 10k
Q1 2N7000
LCD_VSS
GND
GND
LCD_EN

+5V
RV1 10k
LCD_VO 2
R6 1k
Q3 2N7000
R7 10k
GND
GND

LCD_LED−
R4 1k
Q2 2N7000
R3 10k
GND
GND

LCD

U1
74HCT245
+5V
20
VCC
BUS_0 18 B0   A0 2
BUS_1 17 B1   A1 3
BUS_2 16 B2   A2 4
BUS_3 15 B3   A3 5
BUS_4 14 B4   A4 6
BUS_5 13 B5   A5 7
BUS_6 12 B6   A6 8
BUS_7 11 B7   A7 9
GND   A−>B
CE 19
1 LCD_CTRL_RW
GND
10
GND

J4
LCD_VSS 1
+5V 2
LCD_VO 3
LCD_CTRL_RS 4
LCD_CTRL_RW 5
LCD_CTRL_EN 6
7
8
9
10
11
12
13
14
+5V 15
LCD_LED− 16
LCD CONNECTOR

PCB CONNECTORS

J2
POWER CONNECTOR
+5V PWR_FLAG
1
2
GND PWR_FLAG

J1
DATA BUS CONNECTOR
1 BUS_0
2 BUS_1
3 BUS_2
4 BUS_3
5 BUS_4
6 BUS_5
7 BUS_6
8 BUS_7

J3
CONTROL SIGNAL CONNECTOR
1 LCD_CTRL_EN
2 LCD_CTRL_RW
3 LCD_CTRL_RS
4 LCD_EN
R5 10k
GND

TOOLING HOLES

LCD MOUNT HOLES

POWER AND DECOUPLING CAPACITORS
+5V C1 10uF GND
+5V C2 0.1uF GND
+5V C3 0.1uF GND
+5V C4 1uF GND
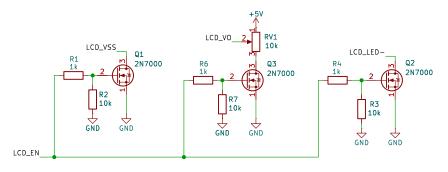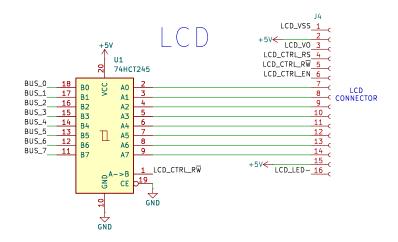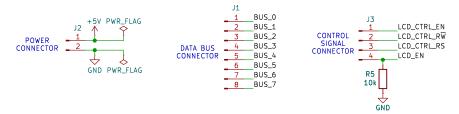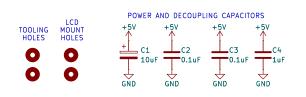
Sheet: /
File: LCD.kicad_sch
Title:
Size: A4   Date:
KiCad E.D.A. 8.0.6
Rev:
Id: 1/1