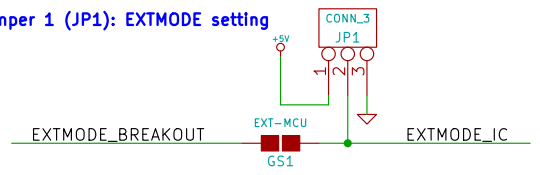


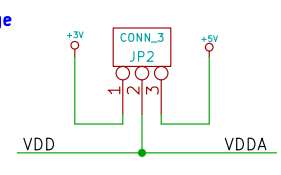
Connect unused inputs 2 & 3 to ground if not using a -H series part with bus-hold.

Jumper 1 (JP1): EXTMODE setting



Shunt Position determines method for LCD polarity inversion:
 1-2: EXTMODE pulled HIGH for MCU PWM control via EXTCOMIN
 2-3: EXTMODE pulled LOW for MCU software control over serial
 NC: Short EXT-MCU with solder to allow setting EXTMODE HIGH/LOW via dedicated MCU output pin. (Not Recommended)
 NB: GS is open circuit by default – shunt used to determine EXTMODE

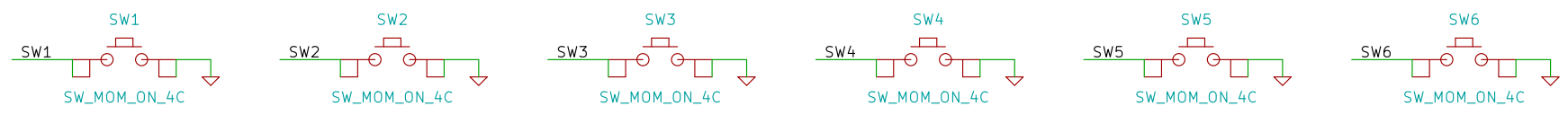
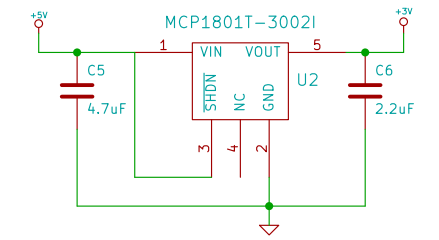
Jumper 2 (JP2): LCD Supply Voltage



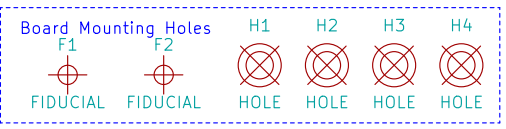
Shunt position determines LCD supply voltage:
 1-2: Supply 3V from onboard regulator to LCD for model: LS013B4DN04
 2-3: Supply 5V from Vin to LCD for model: LS013B4DN02
 NB: Requires Vin = 5V

3V Power Supply for LCD

(150 mA max)



Switches are optional. If used, enable MCU pins as inputs and enable their internal pull-up resistors.



www.MakerDyne.com	
File: MemoryLCD_Breakout.sch	
Sheet: /	
Title: Sharp 1.35" MemoryLCD Breakout Board for LS013B4DN02 and LS013B4DN04	
Size: A4	Date: 16 may 2013
KiCad E.D.A.	Rev: Id: 1/1