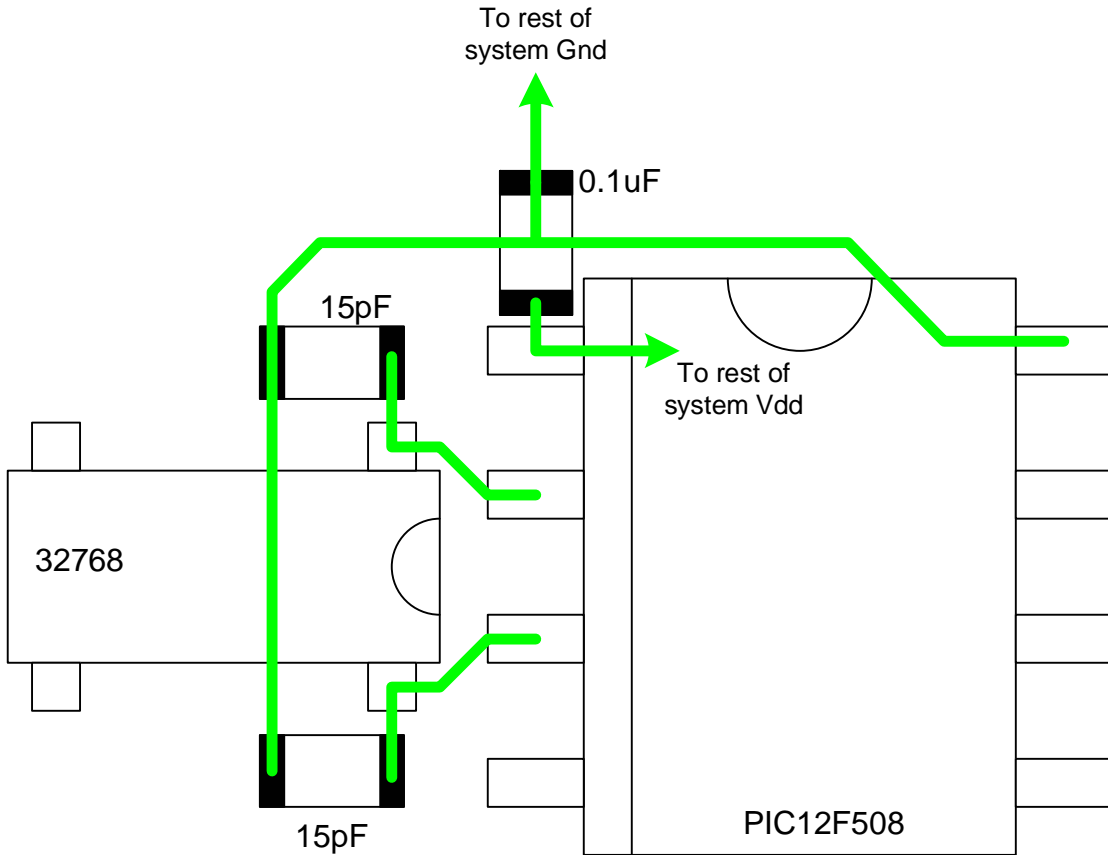
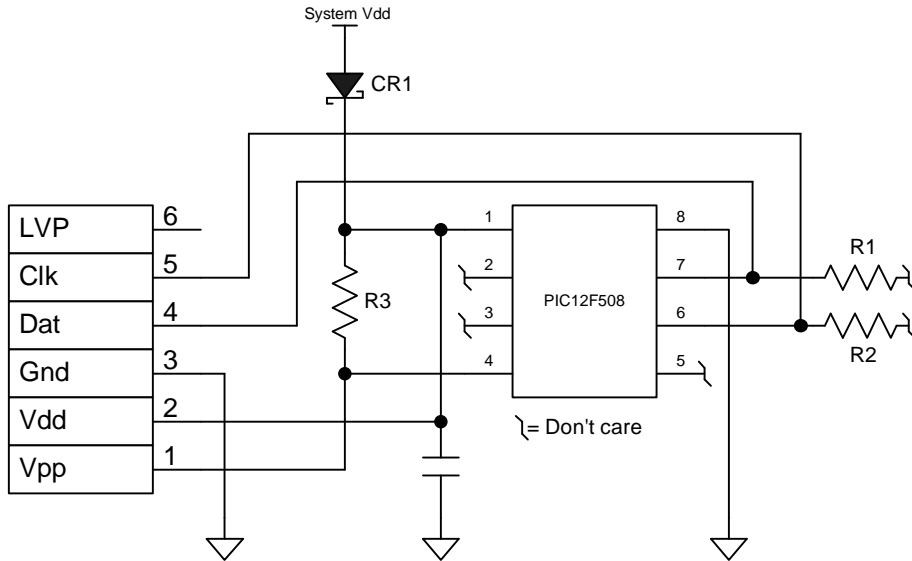


Typical crystal and Vdd bypassing for 8 pin PIC



In Circuit Serial Programming (ICSP) for the PIC12F508



1. CR1 allows the programmer to power the PIC without powering the rest of the board. Note the voltage drop, hence the Schottkey diode shown (~0.2V).

2. R1 and R2 isolate the programming signals from whatever those pins are connected to. A good value for these is 22K

3. R3 is a pull up for pin 4. If pin 4 is connected to other circuits (i.e. for the halt function) the other circuits need to be protected from the 13.5V programming voltage.

4. I usually just put a 6 pin header on the main board and solder the PIC in permanently.