



- Notes:
1. On-off switch DP-DT
  2. IR emitter current (80 mA) monitored through 15 Ohm resistor
  3. Place bypass capacitor close to opamp
  4. Series diodes added to increase sensitivity on the low-end of distances and to linearize some of the output.
  5. Designed with green LEDs
  6. To program, disable power to the board and using an ISP board connect cable to jumper pins. These pins will be headers that break off of the RXD, TXD, RST, VCC and GND pins. In order to use this method a bootloader must have already been loaded onto the board. If no bootloader, chip must be removed and programmed externally.
  7. Jumpers included to disconnect power and reset from rest of circuit for programming purposes.

Title		
IR Proximity Sensor Design		
Size	Document Number	Rev
B	PCB Layout Schematic Kevin Fronczak	1.2
Date:	Tuesday, February 07, 2012	Sheet 1 of 1