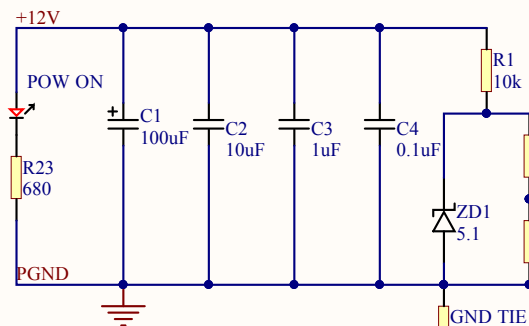
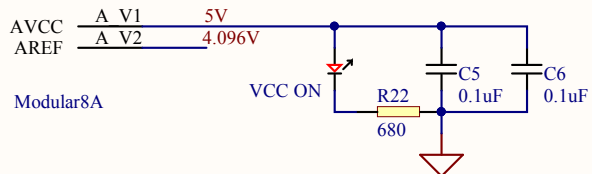


$I_{trip} = 3.5A \text{ rated}$   
 $= V_{REF} / (10 \times R_{SENSE})$   
 $= V_{REF} / 0.05 \text{ ohm}$   
 $V_{REF} = 3.5 \times 0.05 = 0.175V$   
 Voltage divider provides  $5V \times R_2 / (R_1 + R_2) = 0.160V$

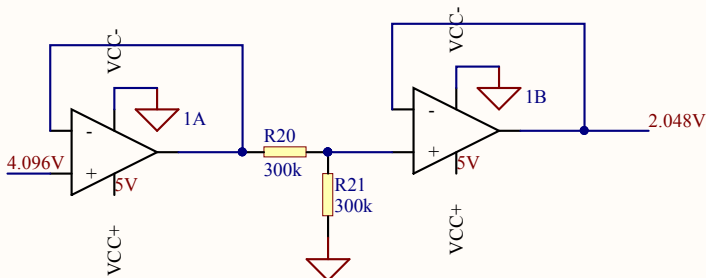
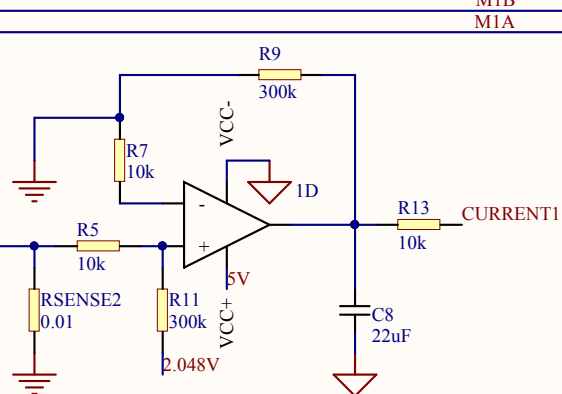
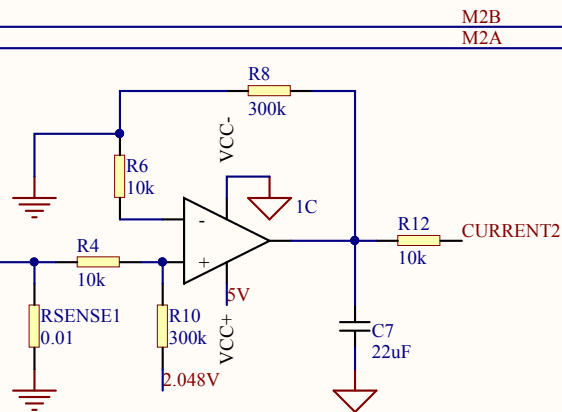
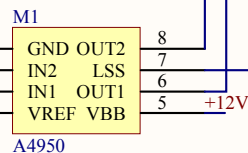
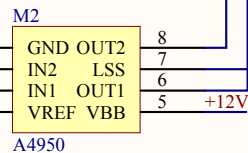
PVCC D VCC +12V B VCC PVCC  
 PGND D GND PGND B GND PGND  
 Modular8D Modular8B



GND A GND AGND  
 0/AN A 0 CURRENT2  
 1/AN A 1 CURRENT1  
 2/SCL A 2  
 3/SDA A 3  
 4 A 4  
 5 A 5  
 6 A 6  
 7 A 7



R4 - R14 high precision resistors



Title		
Preliminary motor driver design		
Size	Number	Revision
A	OPBOT-020	0.12
Date:	8/27/2015	Sheet of
File:	C:\Users\...\A4950_driver.SchDoc	Drawn By: max.prokopenko@gmail.com