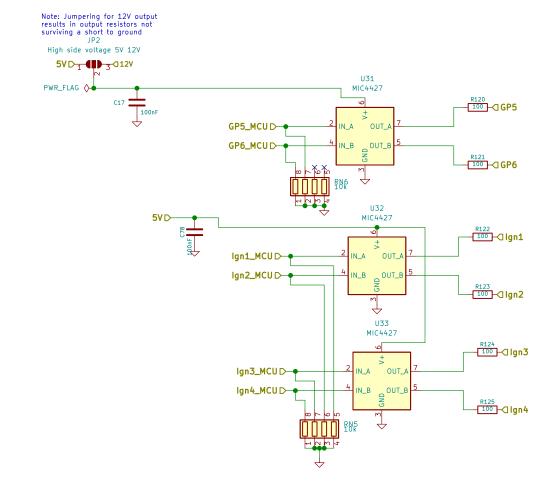


## 6 channel high / low side driver



AI60D Donald Becker

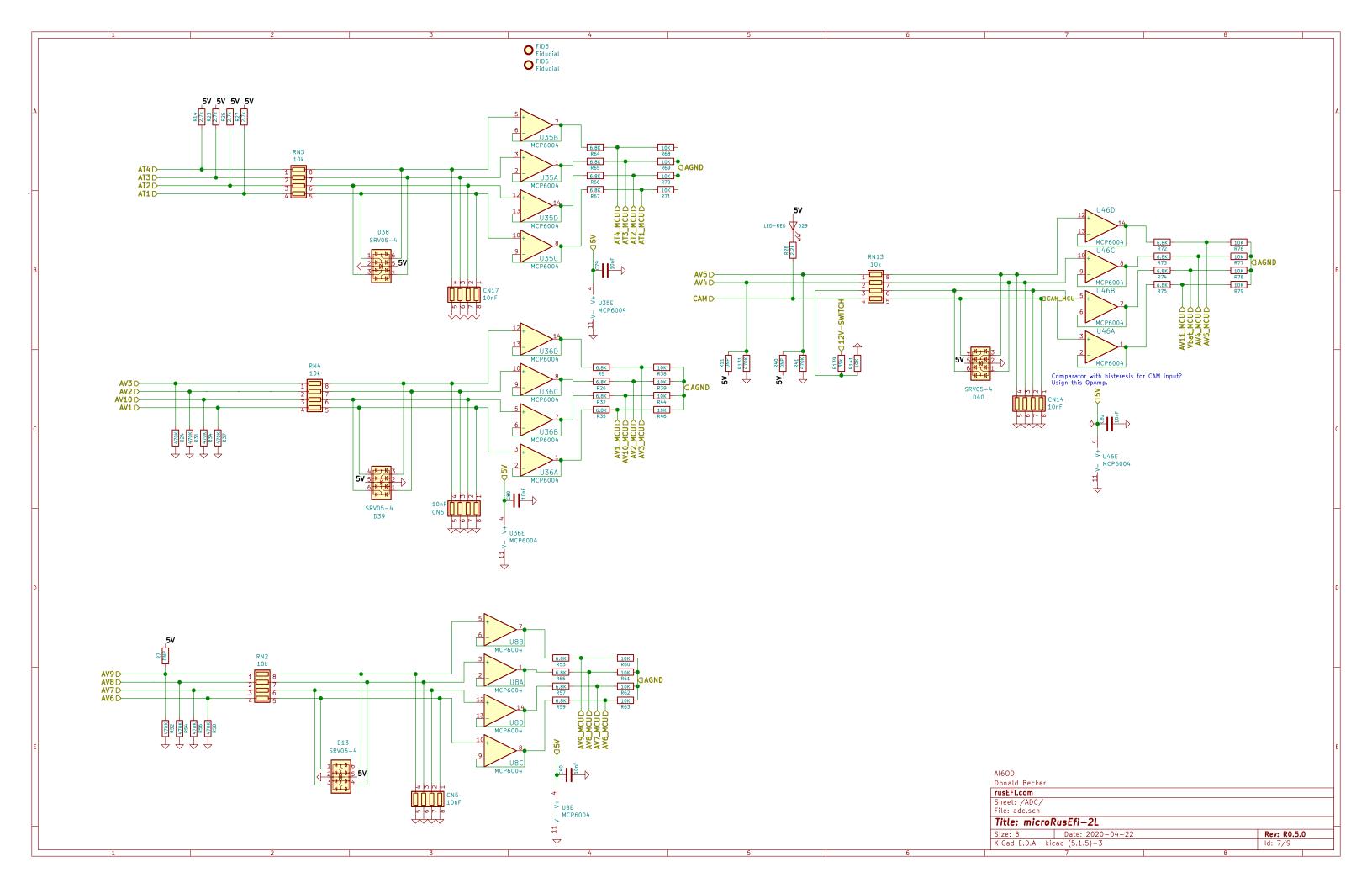
rusEFI.com

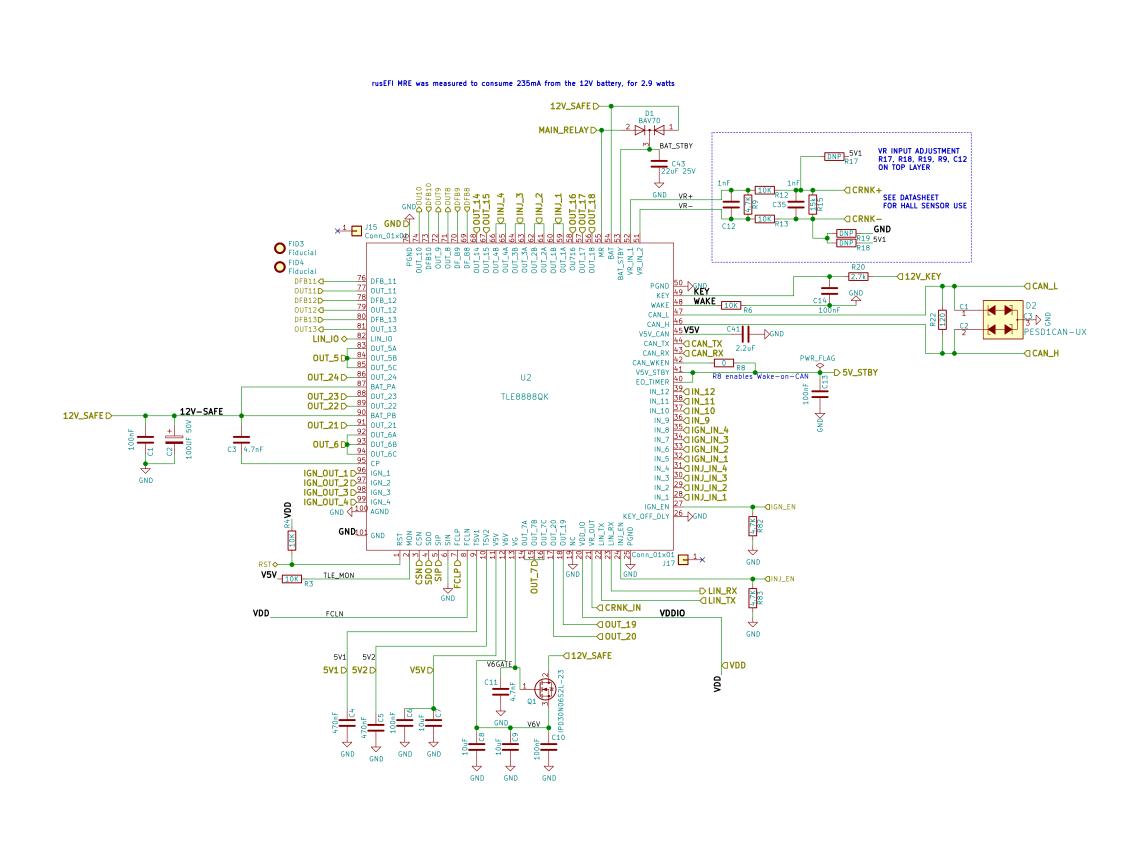
Sheet: /hi-lo/ File: hi-lo.sch

Title: microRusEfi-2L

Size: B Date: 2020-04-22 KiCad E.D.A. kicad (5.1.5)-3

**Rev: R0.5.0** Id: 6/9





AI60D

Donald Becker

rusEFl.com

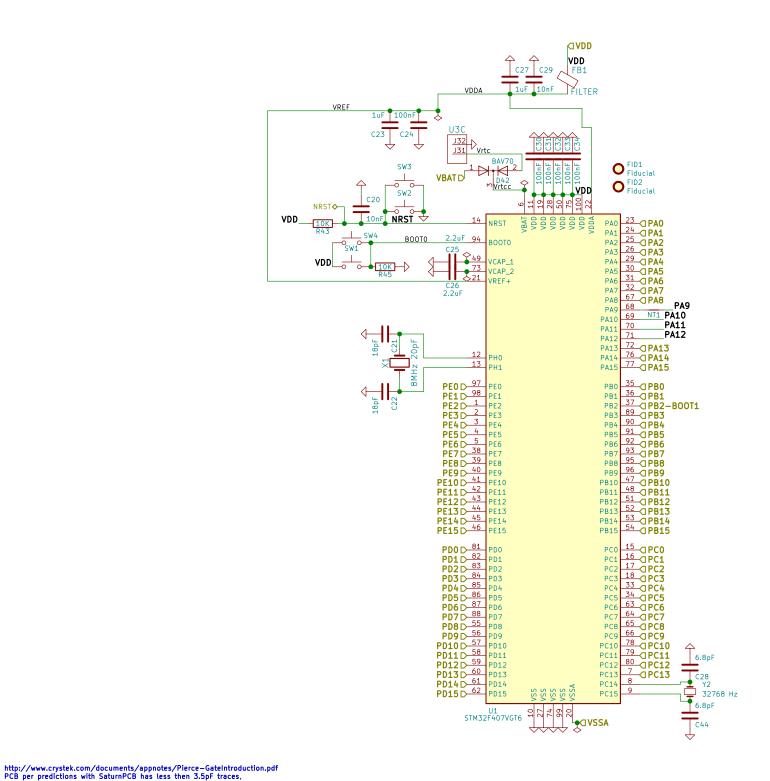
Sheet: /TLE8888-1QK/
File: TLE8888-1QK.sch

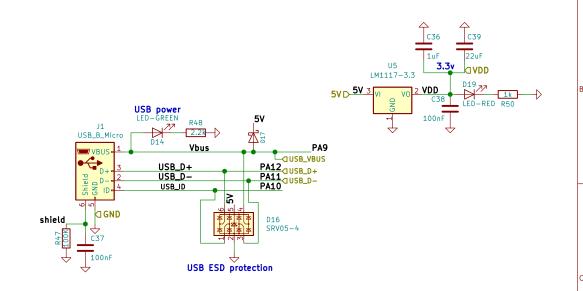
 Title: microRusEfi—2L

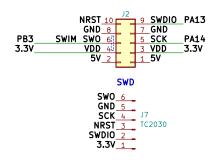
 Size: User
 Date: 2020-04-22

 KiCad E.D.A. kicad (5.1.5)-3
 8

**Rev: R0.5.0** Id: 8/9







AI60D Donald Becker

Dollato Becker

rusEFI.com Sheet: /MCU/

File: stm32.sch

Title: microRusEfi-2L

 Size: B
 Date: 2020-04-22
 Rev: R0.5.0

 KiCad E.D.A. kicad (5.1.5)-3
 Id: 9/9

STM32 pins assumed 5pF
ESR = 80ohms max???
Rf = 2meg could be between 1meg and 10meg.
Cload should be 8pF per XTAL datasheet
$Cload = ([Cin+C1][C2+Cout])/(Cin+C1+C2\_Cout)+PCBstray$
Cload = $([5+4.7][4.7+5])/(5+4.7+4.7+5)+3.5=[8.35pF]$
C1=C2=C166=C167 = 4.7pF
Rs = 1/(2piFC2) = 1/(2*pi*8MHz*4.7pF) = 4.2ohms.