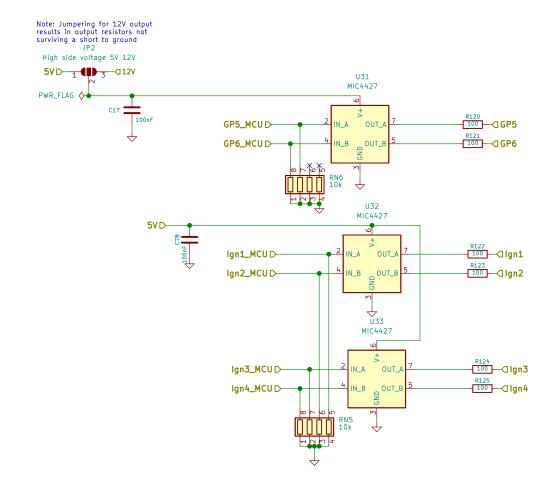


## 6 channel high / low side driver

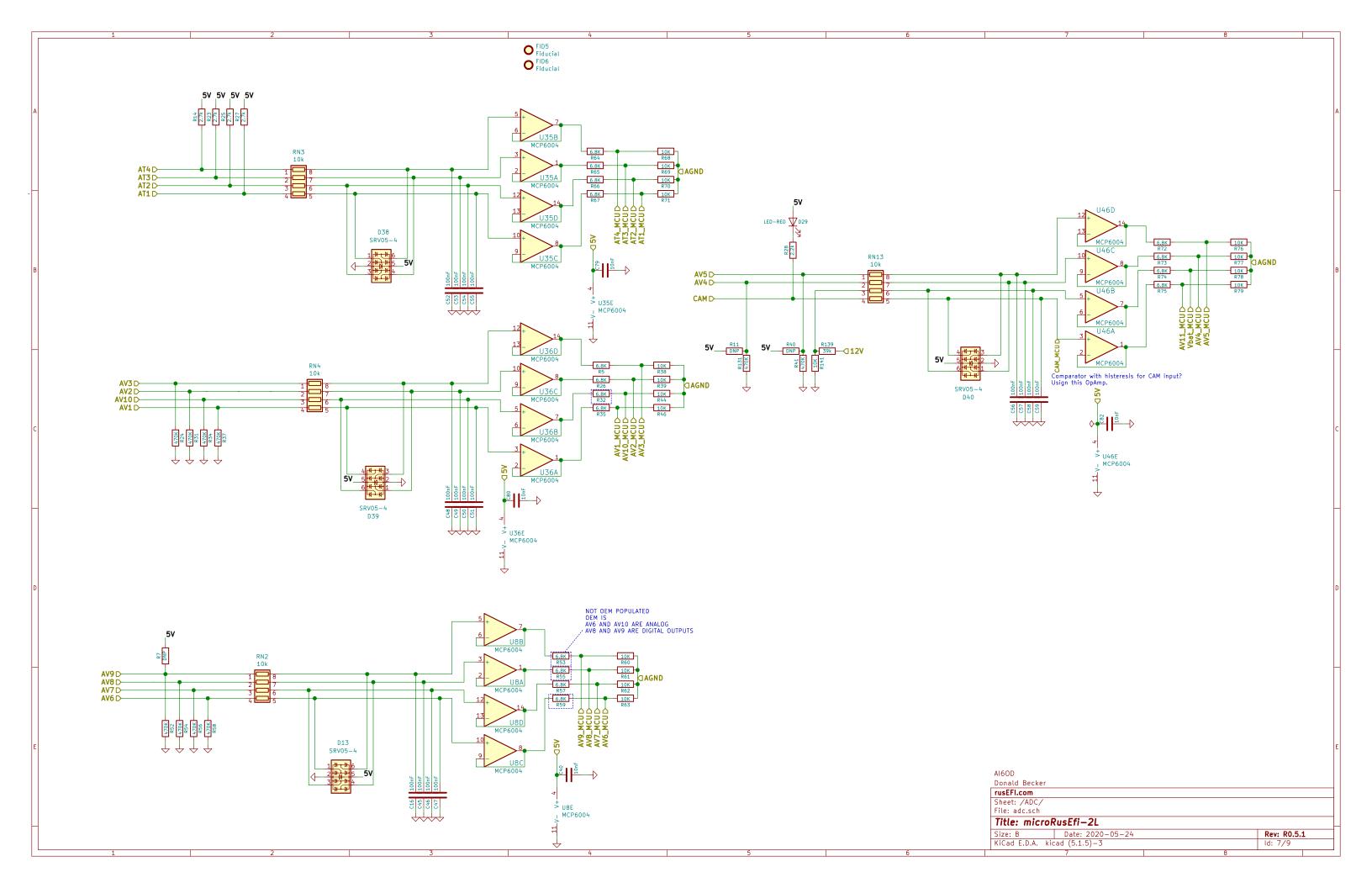


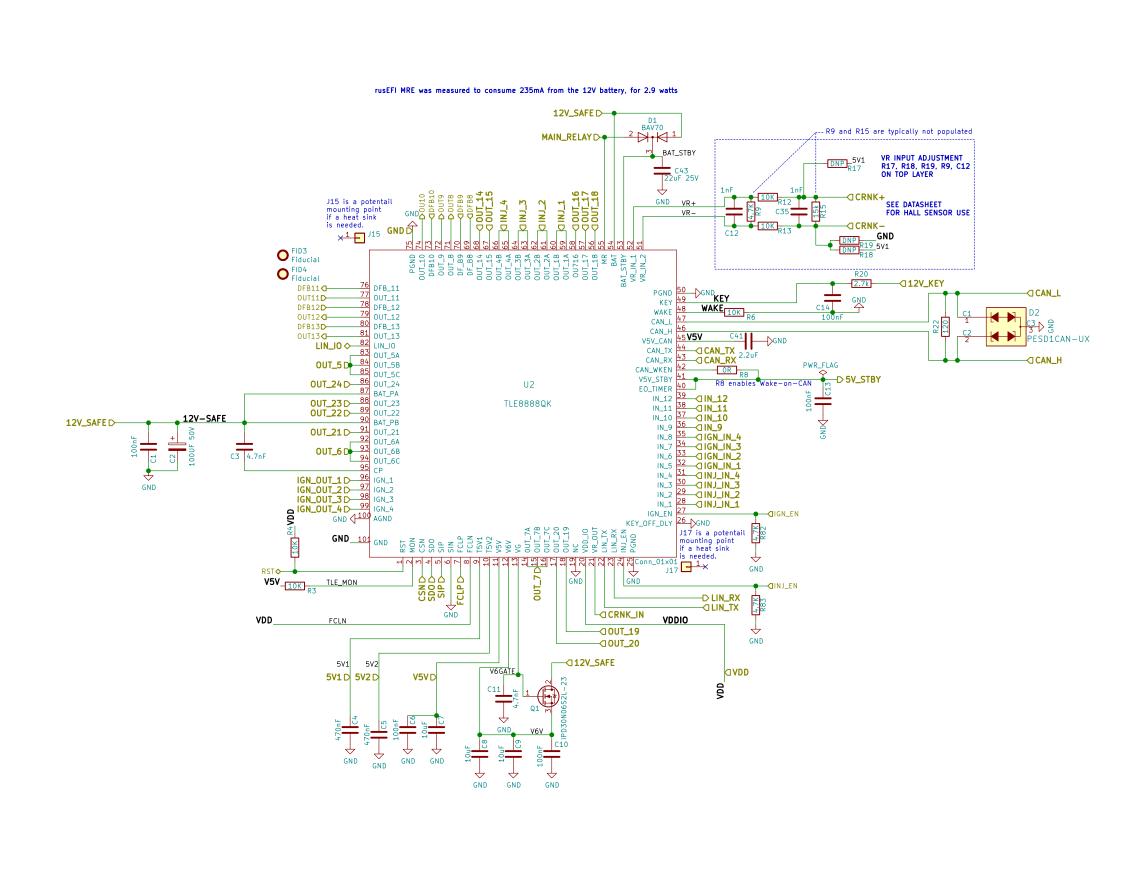
AI60D Donald Becker rusEFI.com

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

Title: microRusEfi-2L

Size: B Date: 2020-05-24 KiCad E.D.A. kicad (5.1.5)-3 **Rev: R0.5.1** Id: 6/9





AI60D

Donald Becker

rusEFl.com

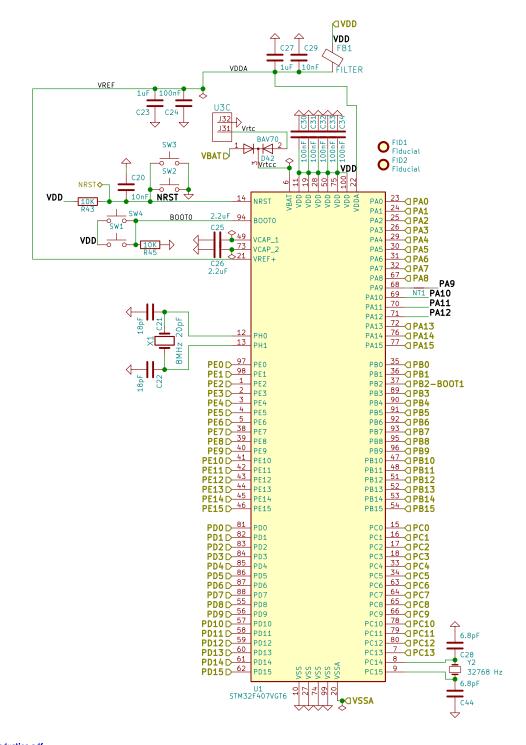
Sheet: /TLE8888-1QK/
File: TLE8888-1QK.sch

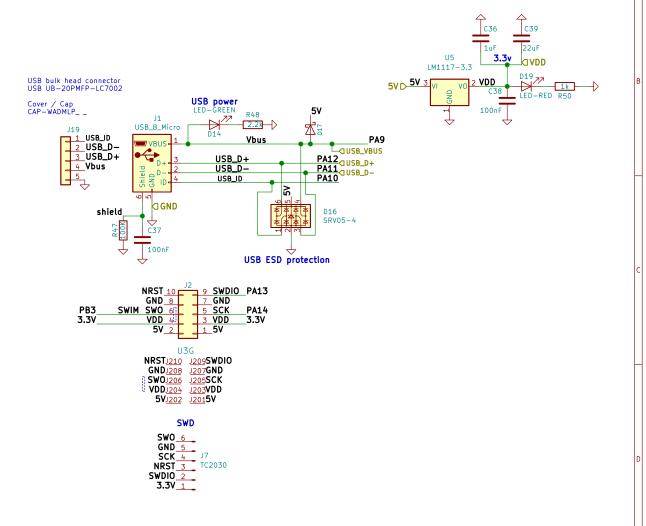
 Title: microRusEfi—2L

 Size: User
 Date: 2020-05-24

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

**Rev: R0.5.1** Id: 8/9





http://www.crystek.com/documents/appnotes/Pierce-GateIntroduction.pdf PCB per predictions with SaturnPCB has less then 3.5pF traces, 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 = ([Cin+C1][4.7+5])/(5+4.7+4.7+5.5) = 8.35pF
C1=C2=C166=C167 = 4.7pF
Rs = 1/(2piFC2) = 1/(2\*pi\*8MHz\*4.7pF) = 4.2ohms.

Sheet: /MCU/ File: stm32.sch

Title: microRusEfi-2L

AI60D Donald Becker rusEFI.com

 Size: B
 Date: 2020-05-24
 Rev: R0.5.1

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