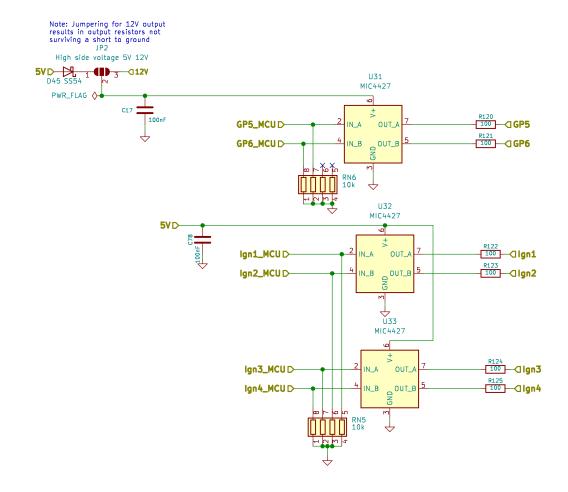


6 channel high / low side driver



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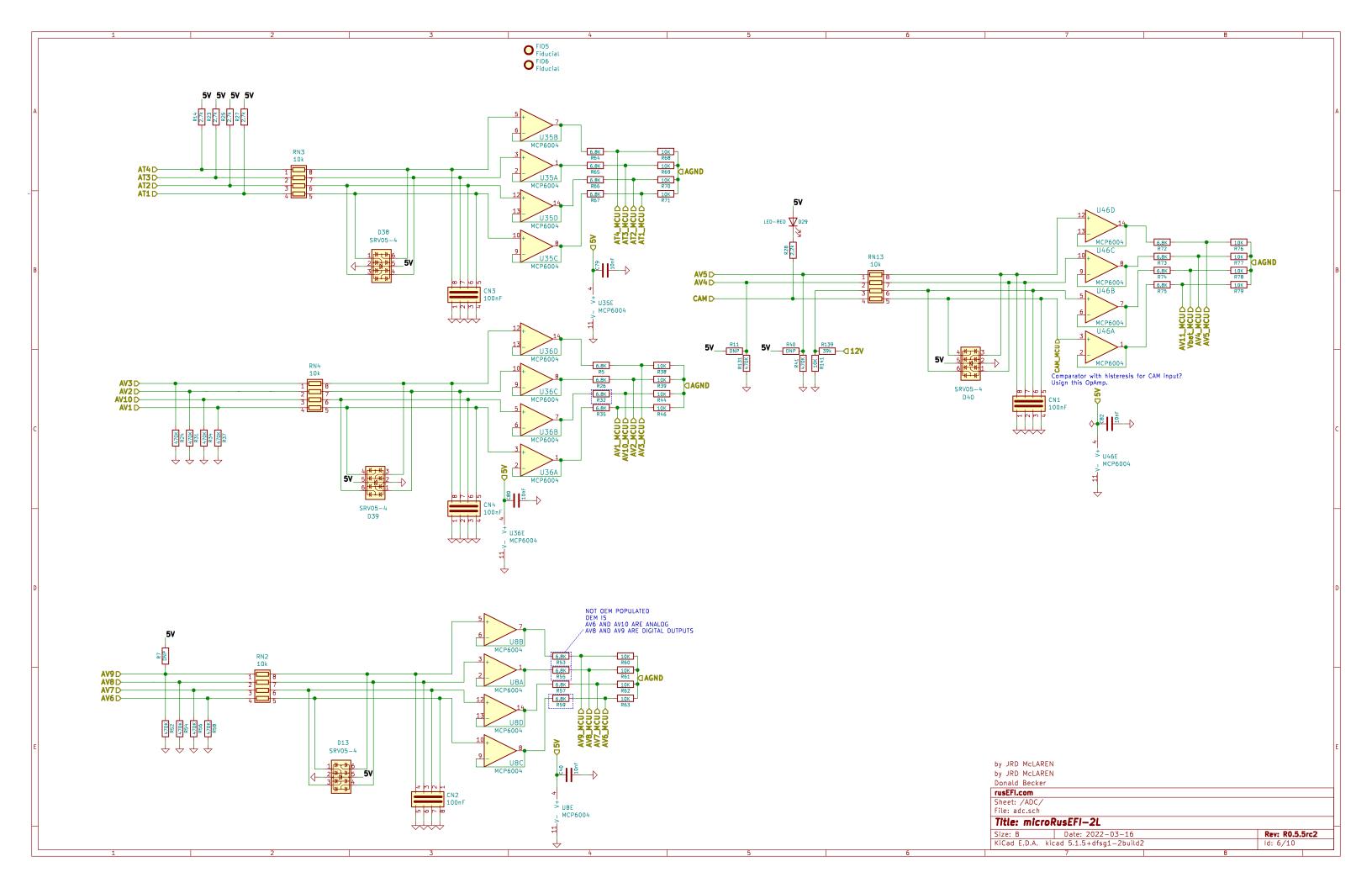
rusEFI.com

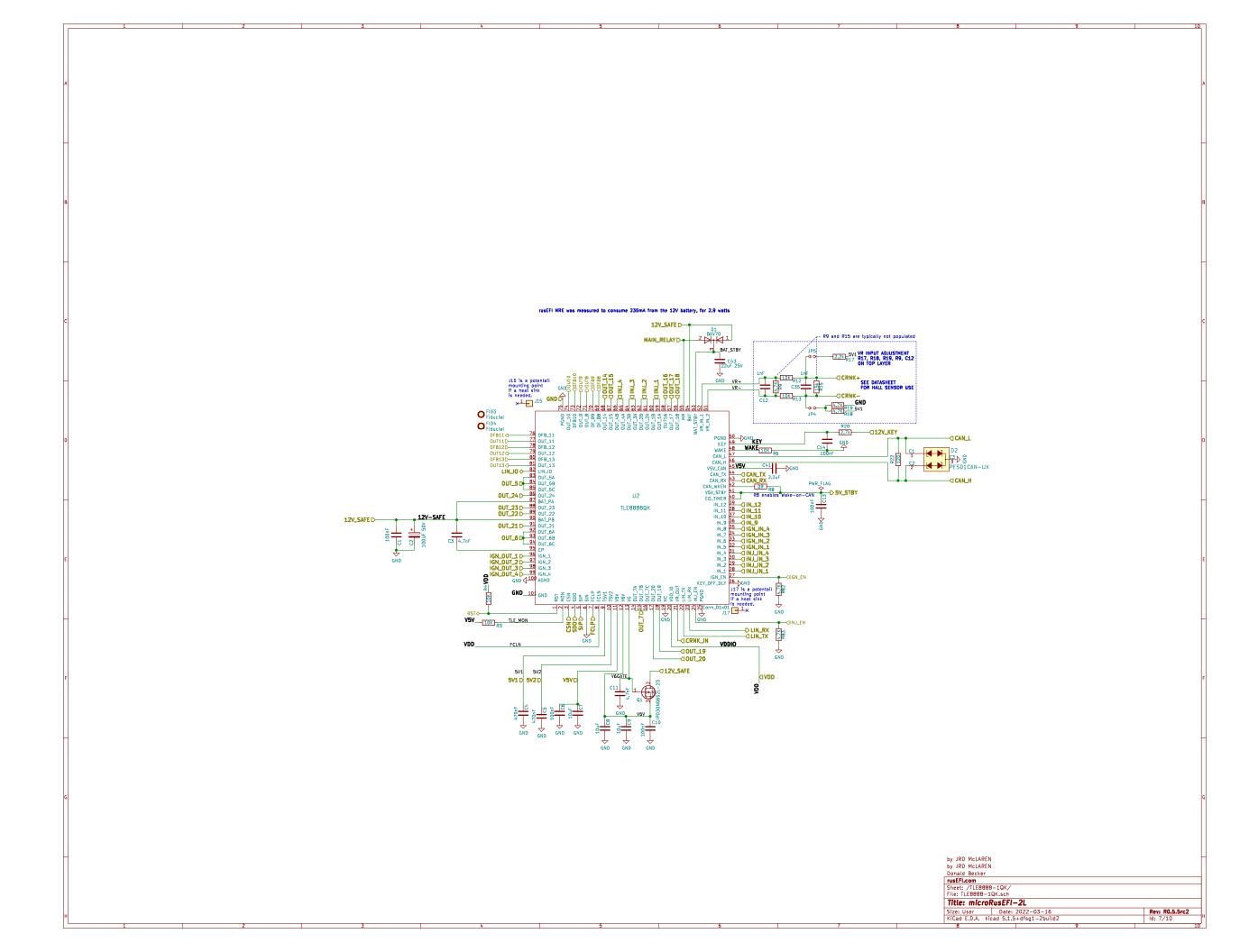
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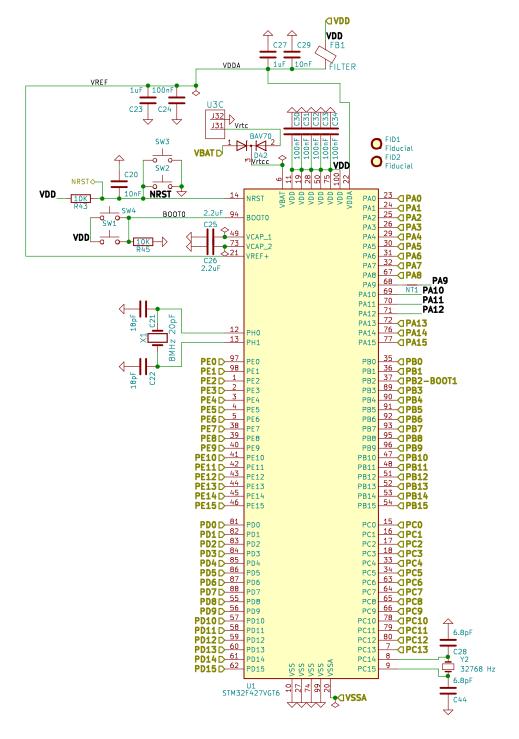
Title: microRusEFI-2L

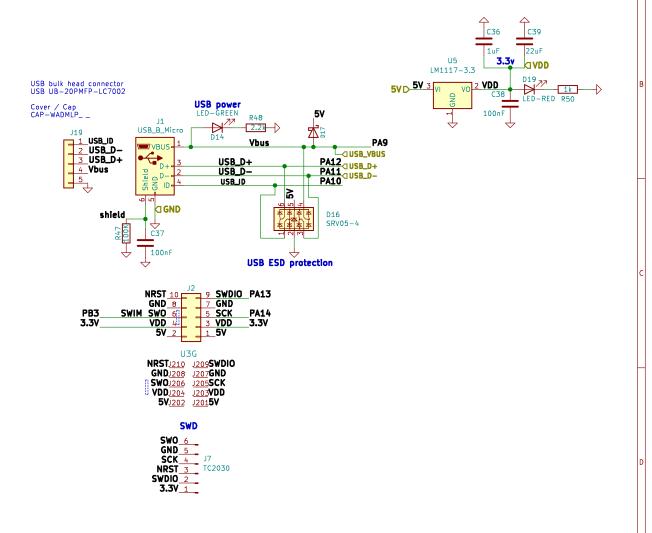
 Size: B
 Date: 2022-03-16
 Rev: R0.5.5rc2

 KiCad E.D.A. kicad 5.1.5+dfsg1-2build2
 Id: 5/10









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rusEFI.com Sheet: /MCU/ File: stm32.sch

Title: microRusEFI-2L

Date: 2022-03-16 Rev: R0.5.5rc2 Size: B KiCad E.D.A. kicad 5.1.5+dfsg1-2build2 ld: 8/10

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.)=8.35pF
C1=C2=C166=C167 = 4.7pF
Rs = 1/(2piFC2) = 1/(2*pi*8MHz*4.7pF) = 4.2ohms.

