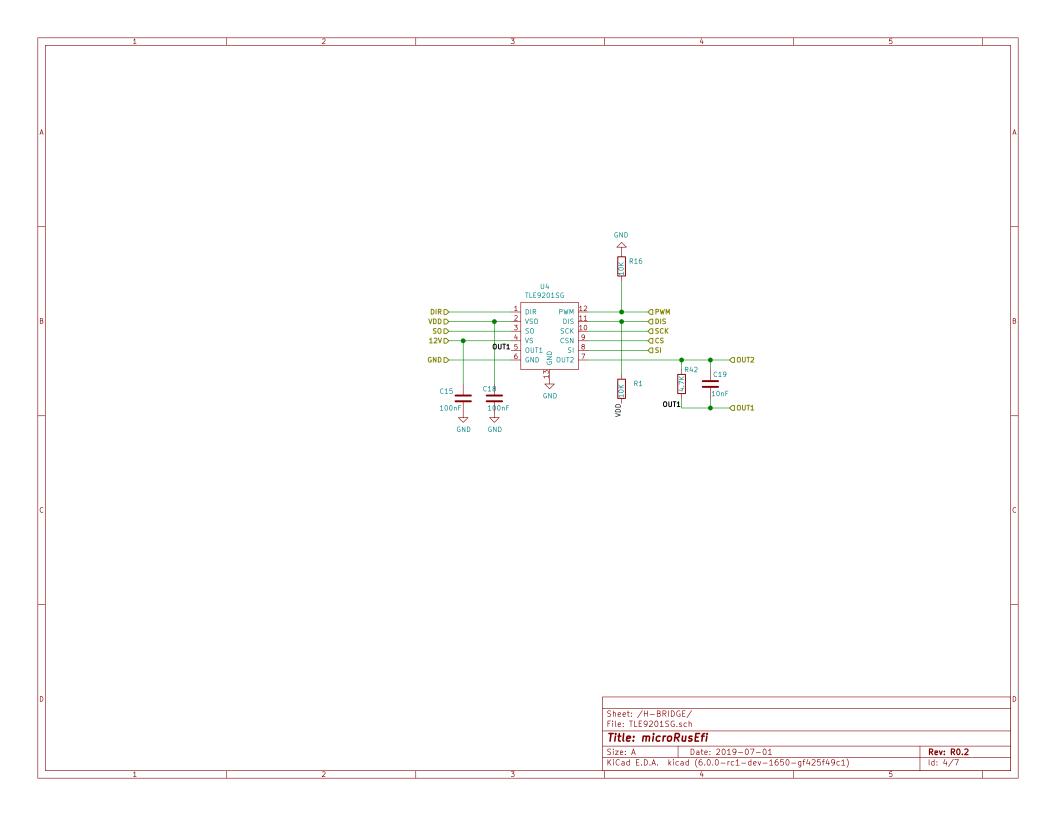
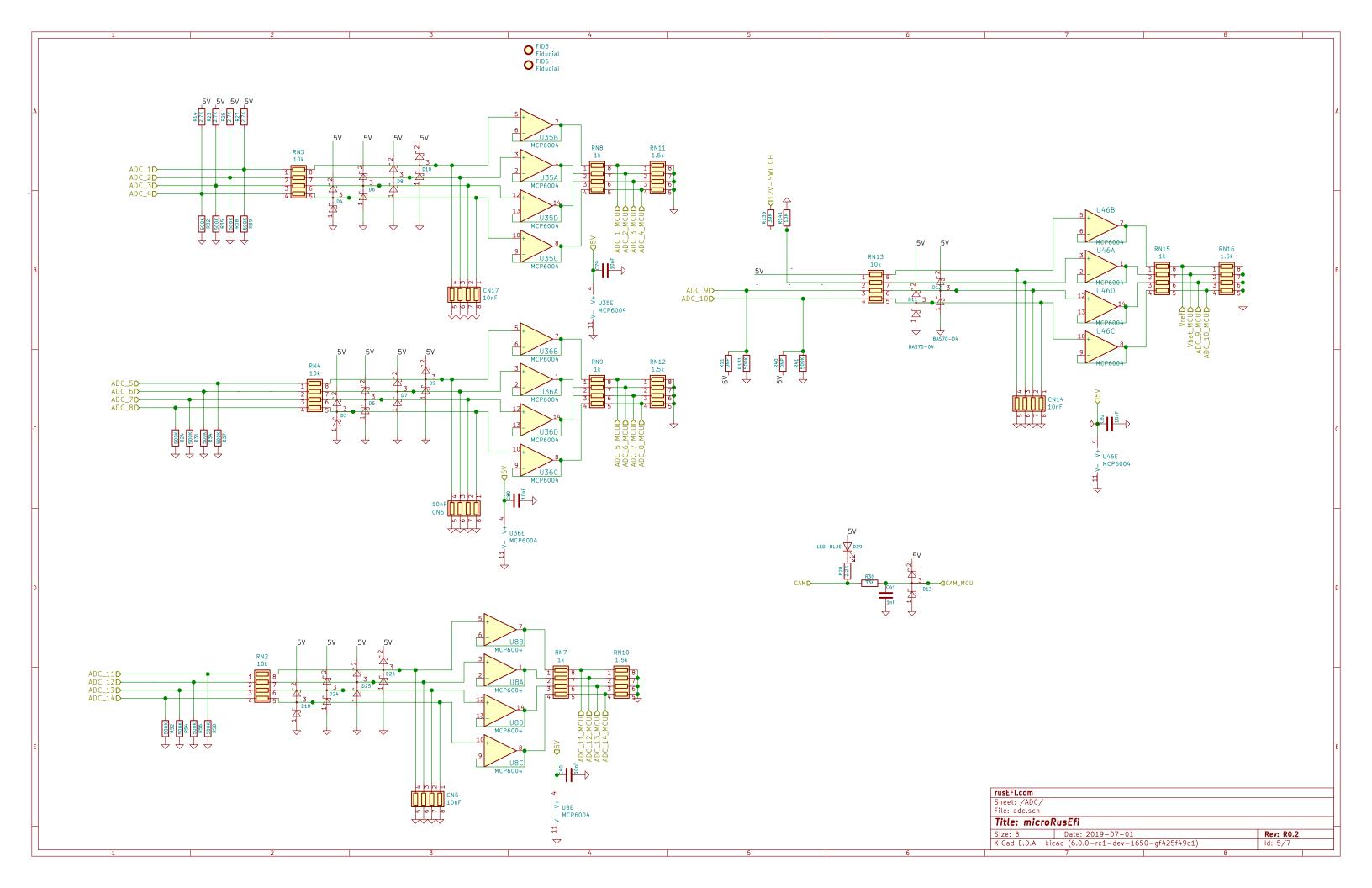
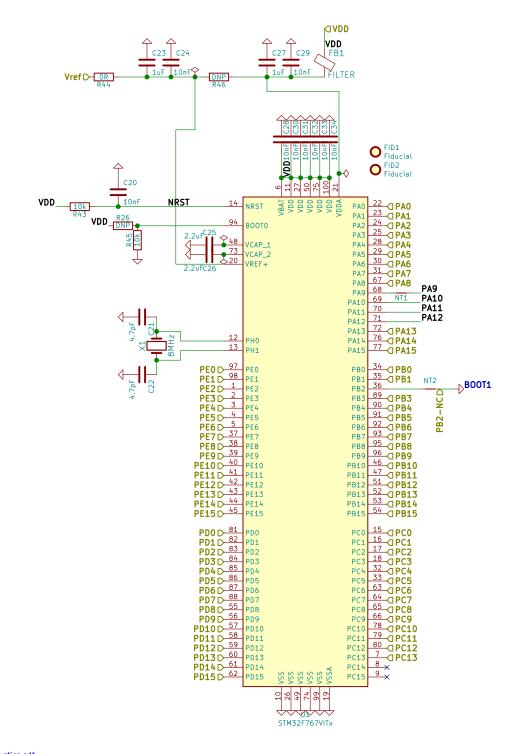
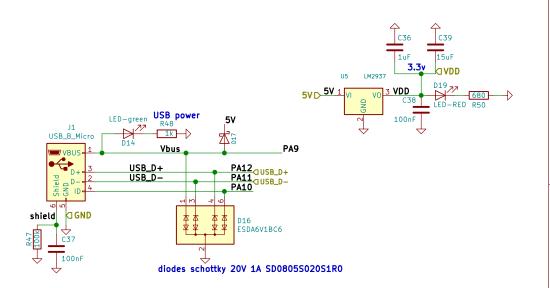


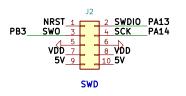
8 channel high / low side driver R120 IGN_1 100 IGN_2 R122 100 GIGN_3 10nF | C78 100 IGN_4 R124 100 - HS1 100 HS2 rusEFI.com Sheet: /hi-lo/ File: hi-lo.sch Title: microRusEfi Size: B Date: 2019-07-01 KiCad E.D.A. kicad (6.0.0-rc1-dev-1650-gf425f49c1) **Rev: R0.2** Id: 3/7











 Size: B
 Date: 2019-07-01
 Rev: R0.2

 KiCad E.D.A. kicad (6.0.0-rc1-dev-1650-gf425f49c1)
 Id: 6/7

nttp://www.crystek.com/documents/appnotes/Pierce-Gateintroduction.pdr	
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	
$Cload = ([Cin+C1][C2+Cout])/(Cin+C1+C2_Cout)+PCBstray$	
$Cload = \lambda^{\dagger} 5 \pm \lambda + 71 (\lambda^{\dagger} 7 \pm 51) / (5 \pm \lambda^{\dagger} 7 \pm \lambda + 7 \pm 5) \pm 3.5 = 6.8.35 \text{ s.c.}$	

Cload = $([\text{Cin}+\text{C1}][\text{C2}+\text{Cout}])/(\text{Cin}+\text{C1}+\text{C2}_{\text{Cout}})+\text{PCBstray}$ Cload = ([S+4,7][4,7+5])/(S+4,7+4,7+5)+3.5=8.35pFC1=C2=C166=C167 = 4.7pF Rs = 1/(2piFC2) = 1/(2pi*BMHz*4.7pF) = 4.2ohms.

