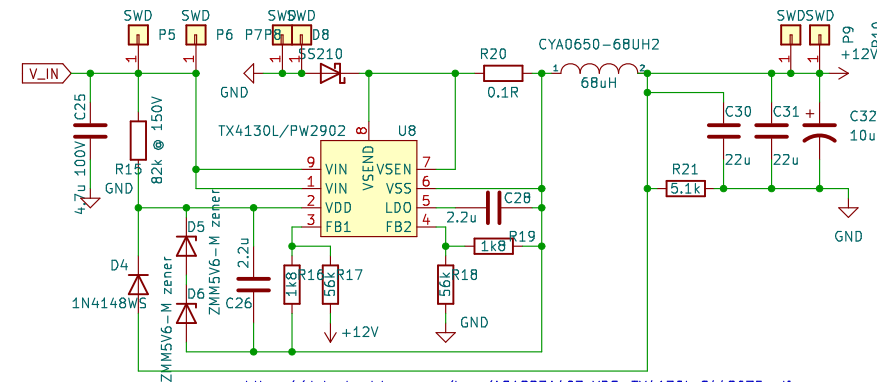
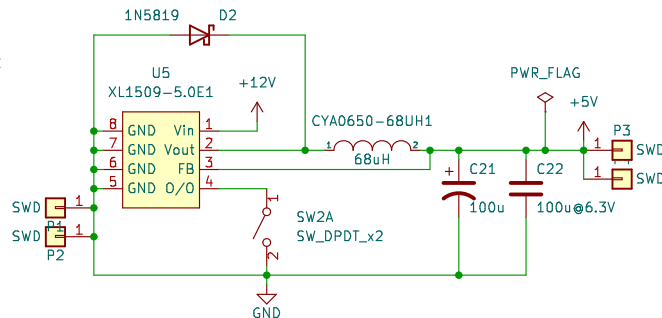
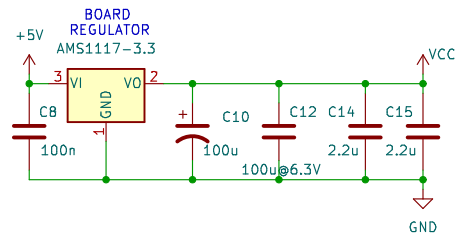
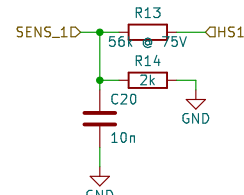
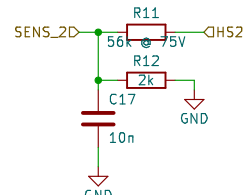
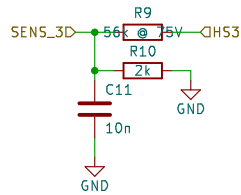


典型应用电路图: Vout: 5V/2A

TX4130L:
VFB: min=369 typ=380 max=391 mV
VCS: min=145 typ=150 max=155 mV

R1 = R3
R2 = R4
Vout= VFB * (R2+R1)/R1
Iout=VCS/R7 (R7=0.06R -> Iout=2.6A)
Frequency: Fixed 140kHz
Inductance: 33uH-100uH

ON/OFF Voltage Filters



https://datasheet.lcsc.com/lcsc/1912231403_XDS-TX4130L_C448635.pdf
<https://www.pwchip.com/en/product/PW2902-174.html>

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Sheet: /driver/
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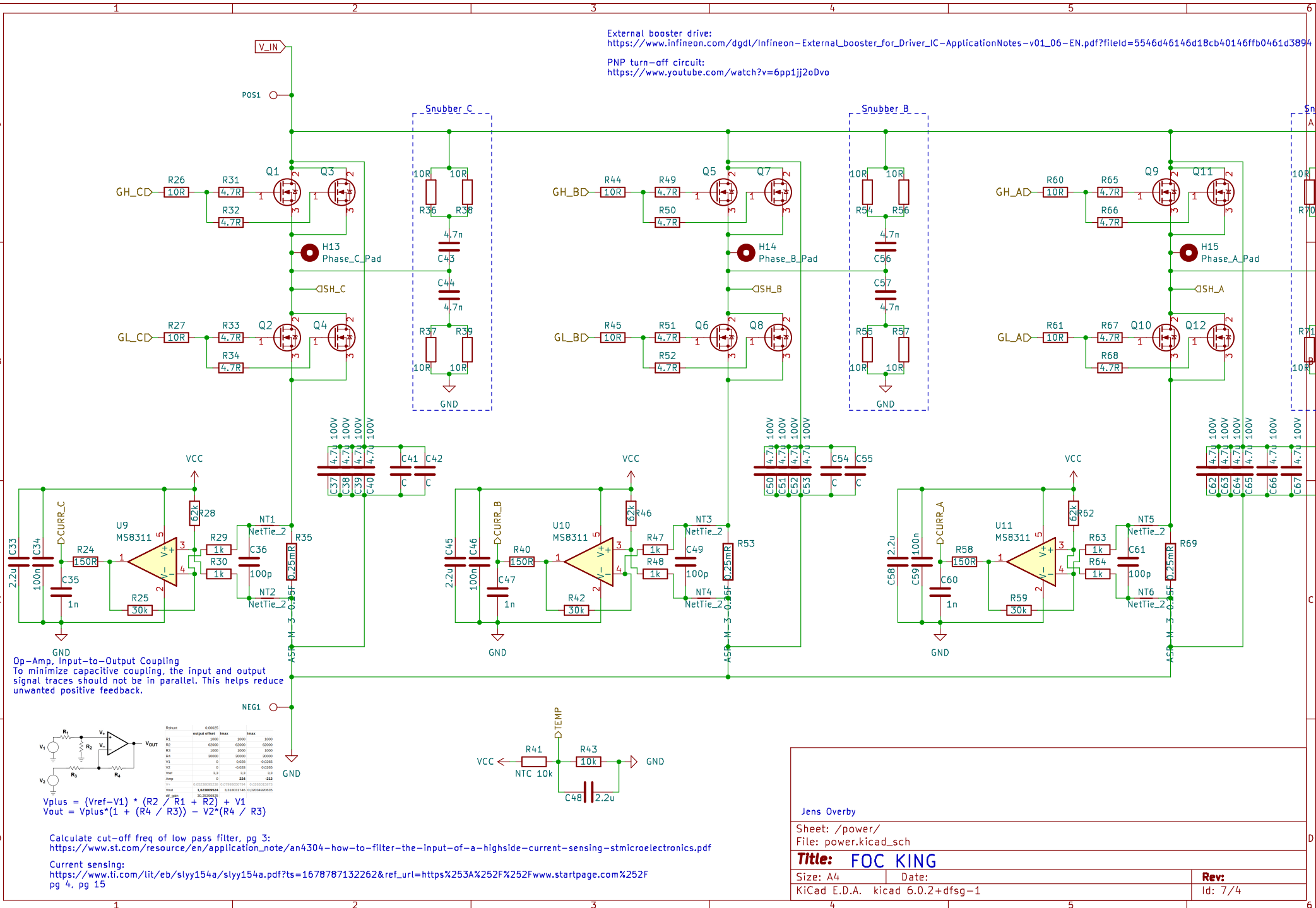
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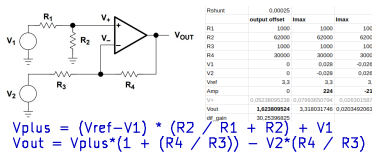
Rev:
Id: 6/4

External booster drive:
https://www.infineon.com/dgdl/Infineon-External_booster_for_Driver_IC-ApplicationNotes-v01_06-EN.pdf?fileId=5546d46146d18cb40146ffb0461d3894

PNP turn-off circuit:
<https://www.youtube.com/watch?v=6pp1jj2oDvo>



Op-Amp, Input-to-Output Coupling
 To minimize capacitive coupling, the input and output signal traces should not be in parallel. This helps reduce unwanted positive feedback.



Calculate cut-off freq of low pass filter, pg 3:
https://www.st.com/resource/en/application_note/an4304-how-to-filter-the-input-of-a-highside-current-sensing-stmicroelectronics.pdf

Current sensing:
https://www.ti.com/lit/eb/slyy154a/slyy154a.pdf?ts=1678787132262&ref_url=https%253A%252F%252Fwww.startpage.com%252Fpg%204%2Cpg%2015

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	Id: 7/4

