

	1	2	3	4	5	6
A	<div>Power & Config</div> <div>File: driver_Power.kicad_sch</div>					
B	<div>Transducers & Drive</div> <div>File: driver_Transducers.kicad_sch</div>					
C						
D	<div></div> <div>Sheet: / File: Ultrasonic Sound Steering – Driver Rev. C.kicad_sch</div> <div><div>Title:</div><div>Size: A4Date:KiCad E.D.A. kicad (6.0.11)</div><div>Rev:Id: 1/3</div></div>					
	1	2	3	4	5	6

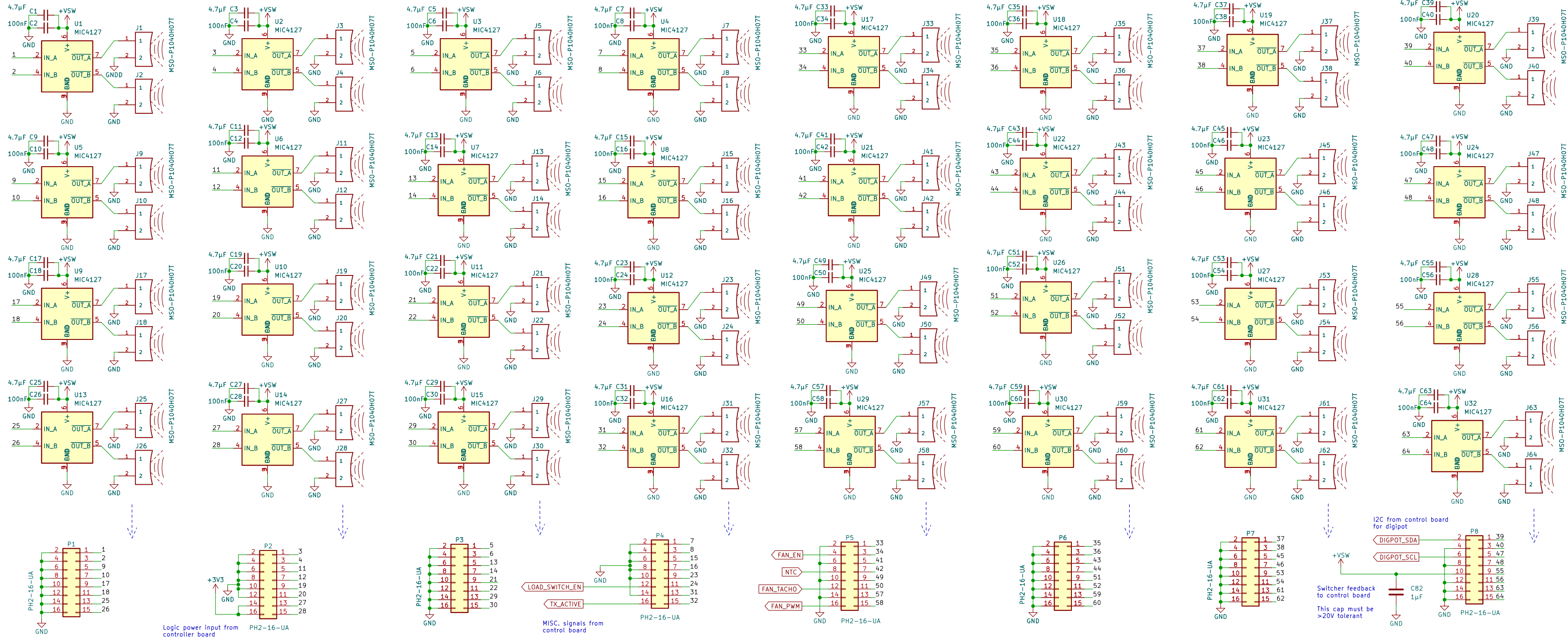
Ultrasonic Sound Steering Capstone

Driver PCB Master Sheet

K. Harper 03/06/2024

Driver PCB – Drive section

! ALL BYPASS CAPACITORS MUST BE RATED FOR A MINIMUM OF 35V. USE X5R, X7R, NP0



Sheet: /Transducers & Drive/
File: driver_Transducers.kicad_sch

Title:

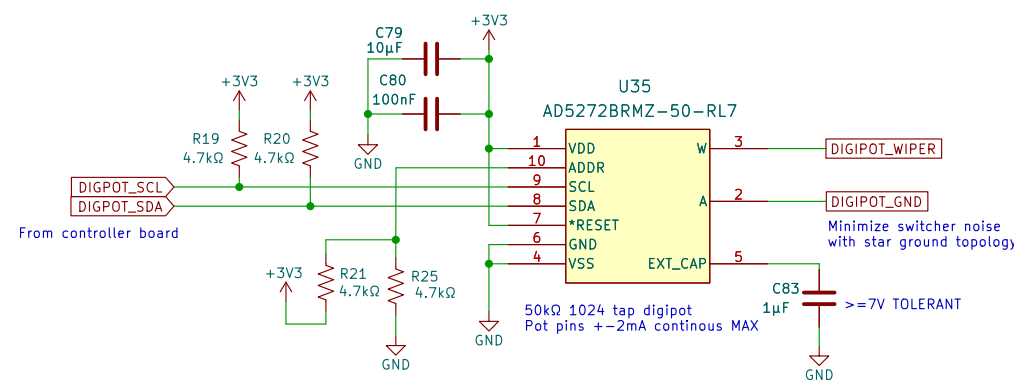
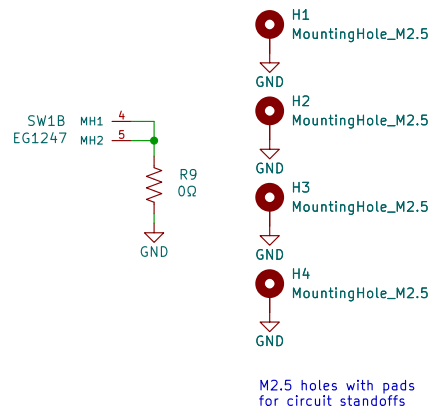
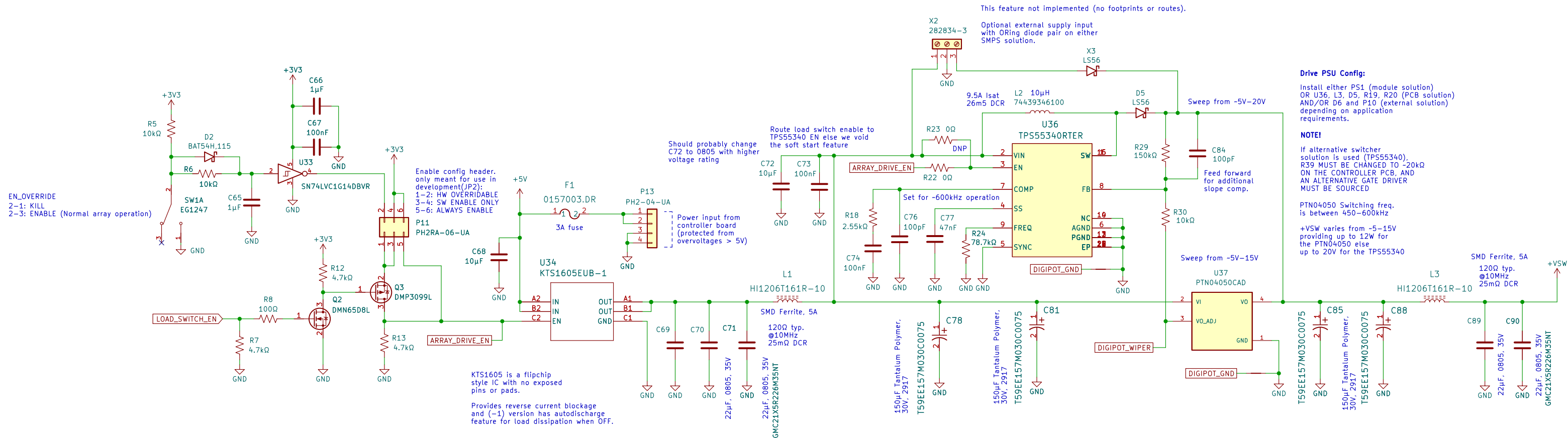
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KiCad E.D.A. kicad (6.0.11)

Date:

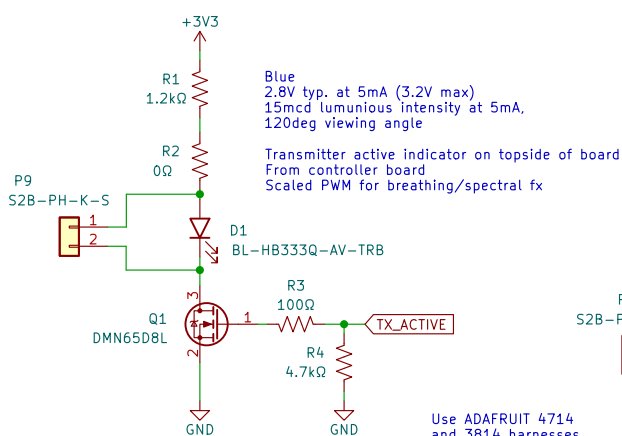
Rev:

Id: 2/3

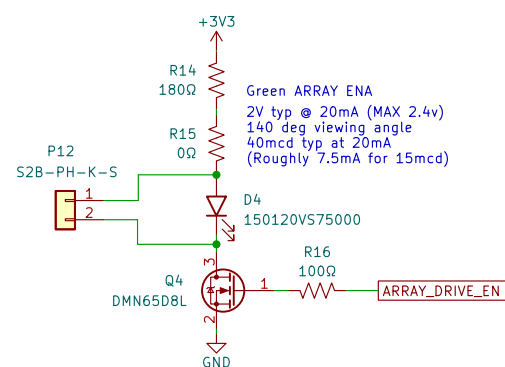
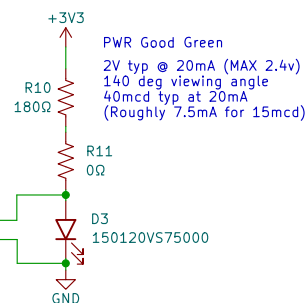
Driver PCB — POWER & CONFIG



Place switching components on top layer (bottom layer is closest to analog section on controller PCB)



Use ADAFRUIT 4714 and 3814 harnesses for panel mount LED solution.
Only TX_ACTIVE is needed for this board as both heartbeats and the on signal LED are harnessed to a panel mount part from the control PCB.



Place near MIC2253/PS1
Adhere throughhole NTC to switcher inductor with thermal glue and heatshrink component leads for t/h NTC solution (NTC1-ALT)

