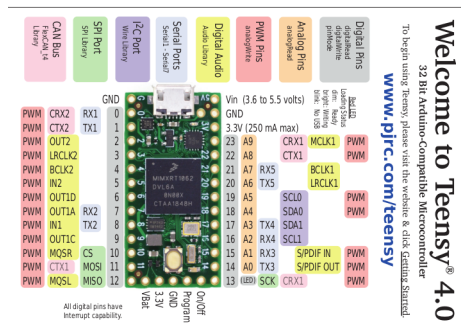
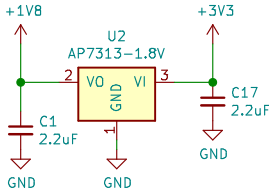


Teensy 4

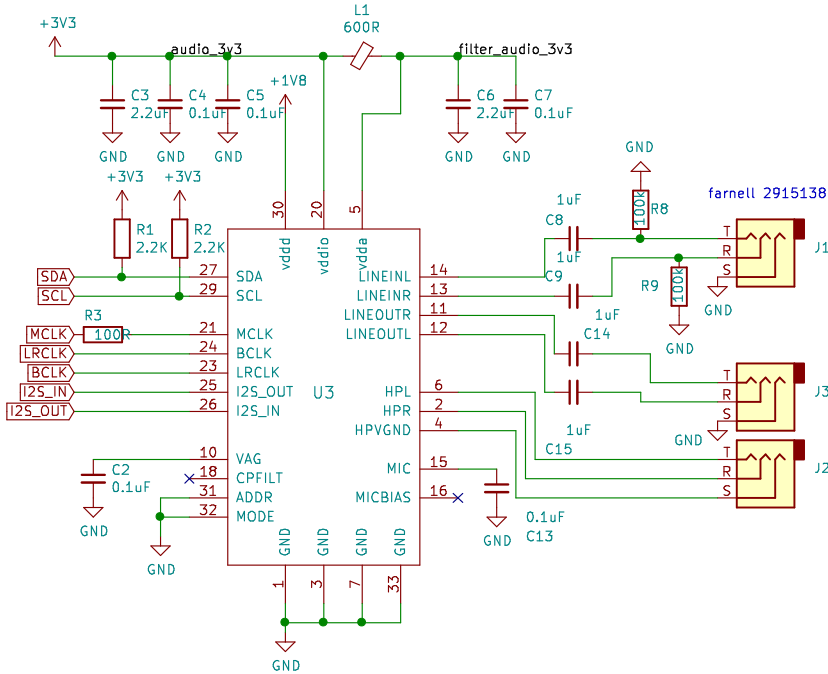


SGTL5000 audio driver

p17 datasheet says 5mA max



these were mislabelled in the symbol



SGTL5000
<https://www.nxp.com/docs/en/data-sheet/SGTL5000.pdf>

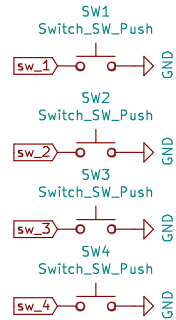
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File: SGTL5000.sch

Title:

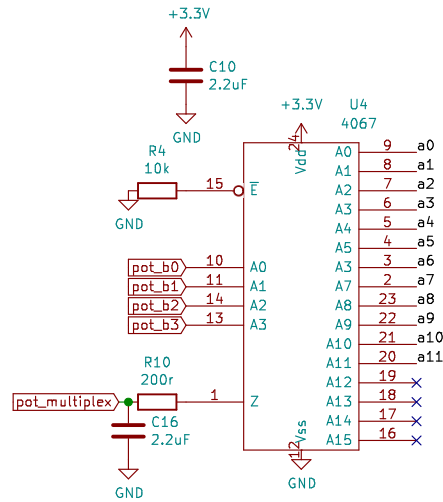
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Rev: 1.0
Id: 2/3

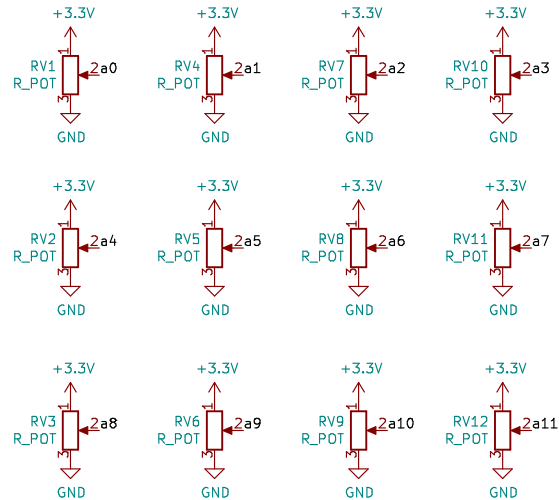
Buttons



Pot MUX



RC filter
200R & 2.2u = 360Hz cutoff

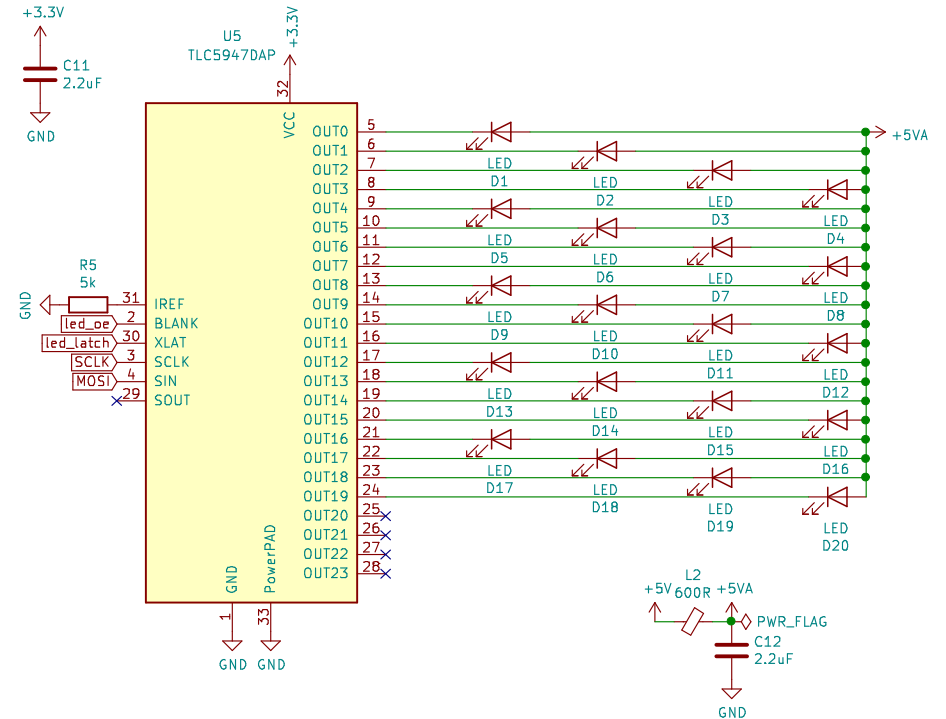


all pots 10k, taper 1b (linear)
RK09K1130AP5

all pots together = 4mA

PWM LED driver

R5 is 5k to set LED current to 10mA
 $V_{LED} > LED V_F + 0.4v$



Sheet: /pots buttons & LEDs/
File: pots.sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1

Rev:
Id: 3/3