

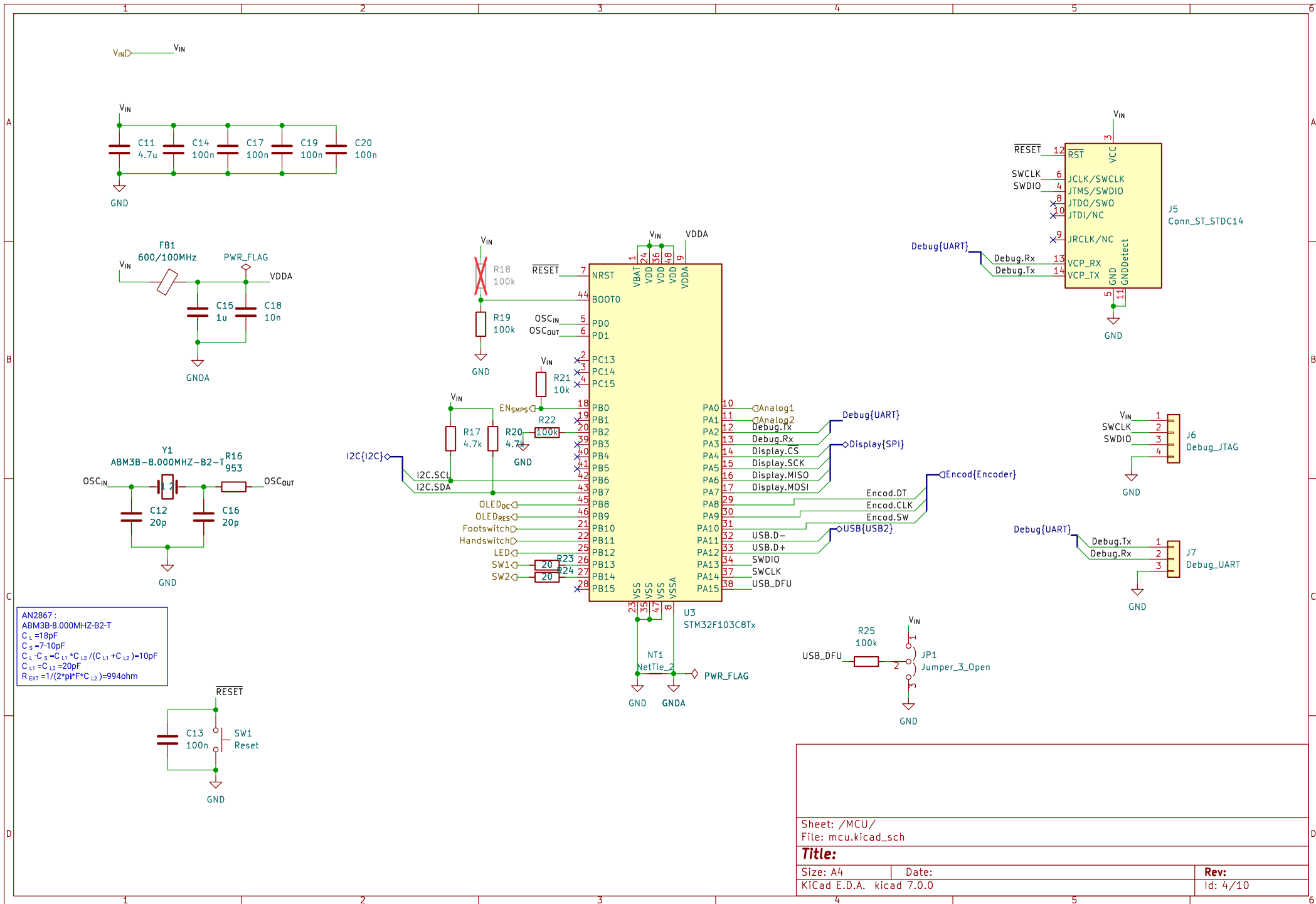
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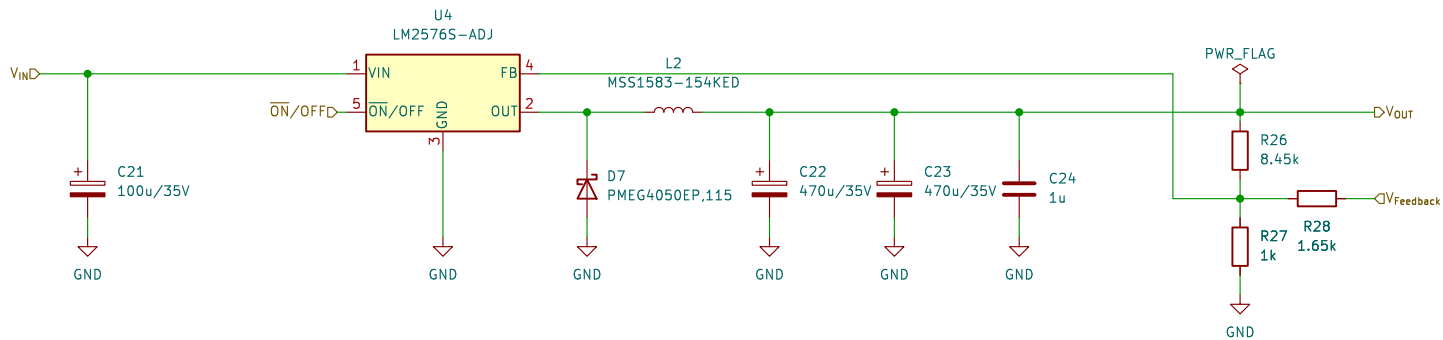
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Size: A4
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Date:

Rev:
Id: 3/10





For L :
 $E^*T = (V_{IN} - V_{OUT}) * (V_{OUT} / V_{IN}) * (1000 / 52)$
 With $V_{IN} = 20V$
 $E^*T(max) = 96.154 V * us$ at $V_{OUT} = 10V$
 $L = 150uH$
 $I_{LMAX} = 1.15 * 3 = 3.45A$

Check Python Notebook for Resistors calculations

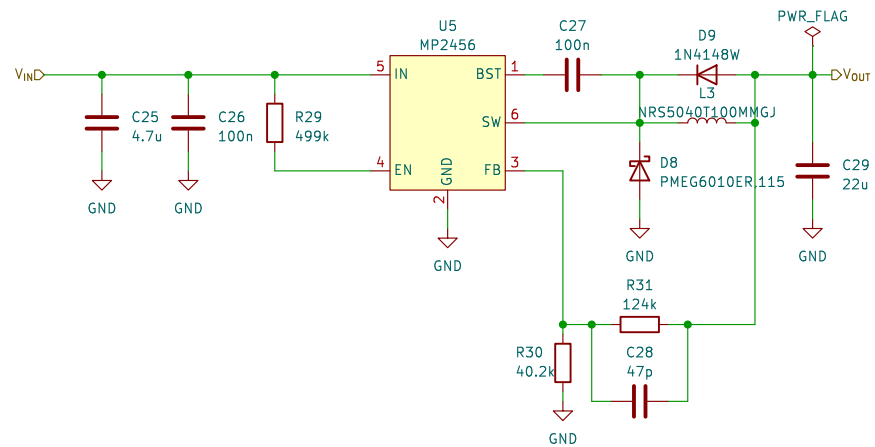
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Date:

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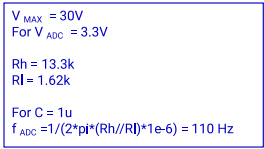
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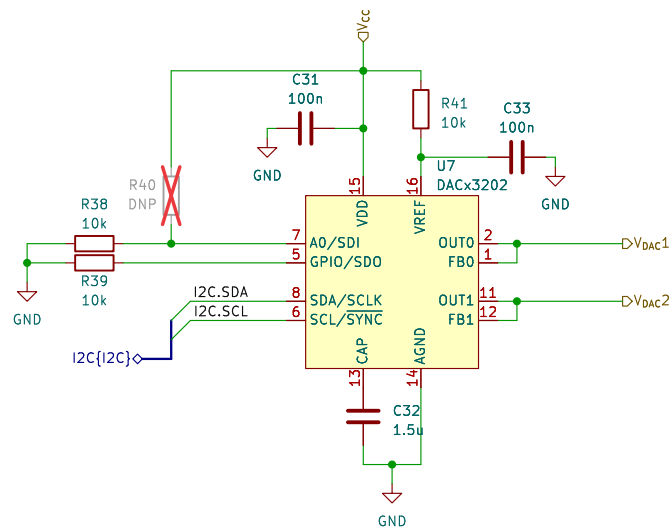
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4 DAC Possible :
 - DAC53202 (10 bits)
 - DAC63202 (12 bits)
 - DAC53002 (10 bits ultra low-power)
 - DAC63002 (12 bits ultra low-power)



Sheet: /DAC/
 File: dac.kicad_sch

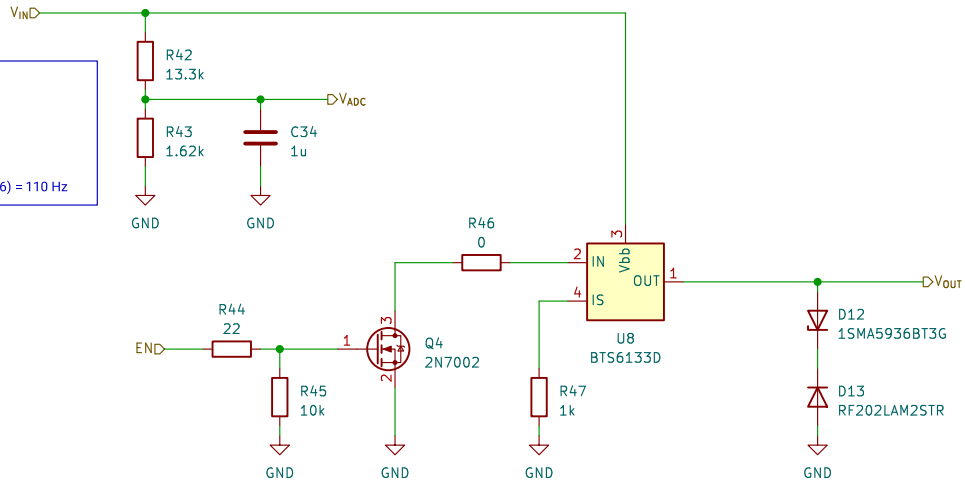
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$V_{MAX} = 30V$
For $V_{ADC} = 3.3V$
 $R_h = 13.3k$
 $R_l = 1.62k$
For $C = 1\mu$
 $f_{ADC} = 1/(2*\pi*(R_h/R_l)*1e-6) = 110\text{ Hz}$



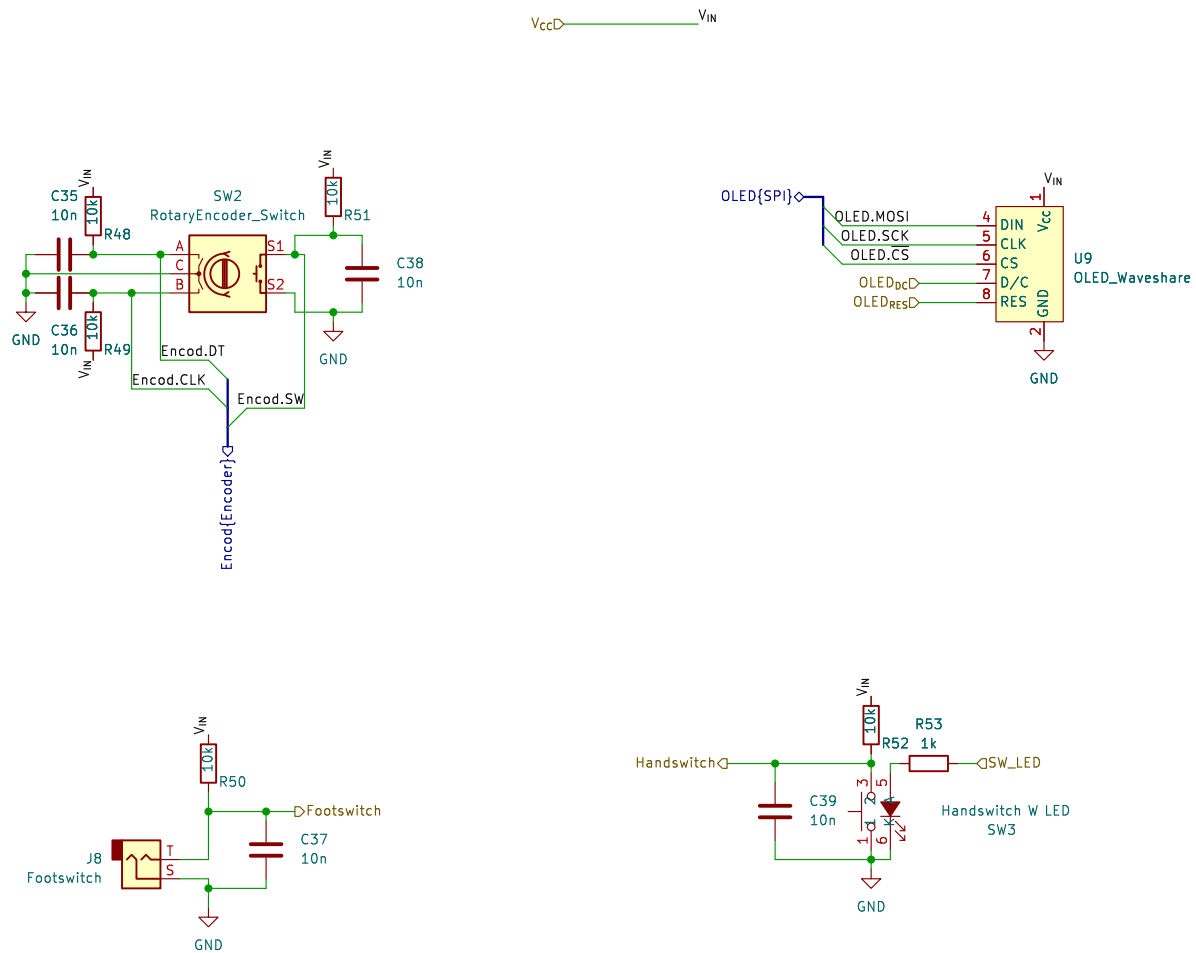
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Date:

Rev:
Id: 8/10



Sheet: /10/
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Id: 10/10