



Model 2001

7.5 Digit DMM Half-rack unit

46.8%

DONE

Reverse engineering project : <http://dev.xdevs.com/projects/kei2001>

Latest schematics : <http://dev.xdevs.com/projects/kei2001/repository/raw/schematics/ADC%20BOARD.DSN>



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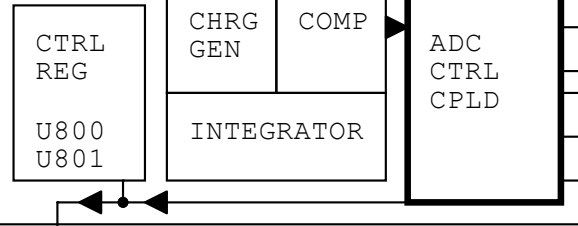
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BLOCK DIAGRAM

ANALOG BOARD

ADC BOARD



CTRL REG

U300
U303
U302
U305
U307
U501
U530
U500
U505

LTC1043
M RATIO

LM199
VREF

AD637
TRMS

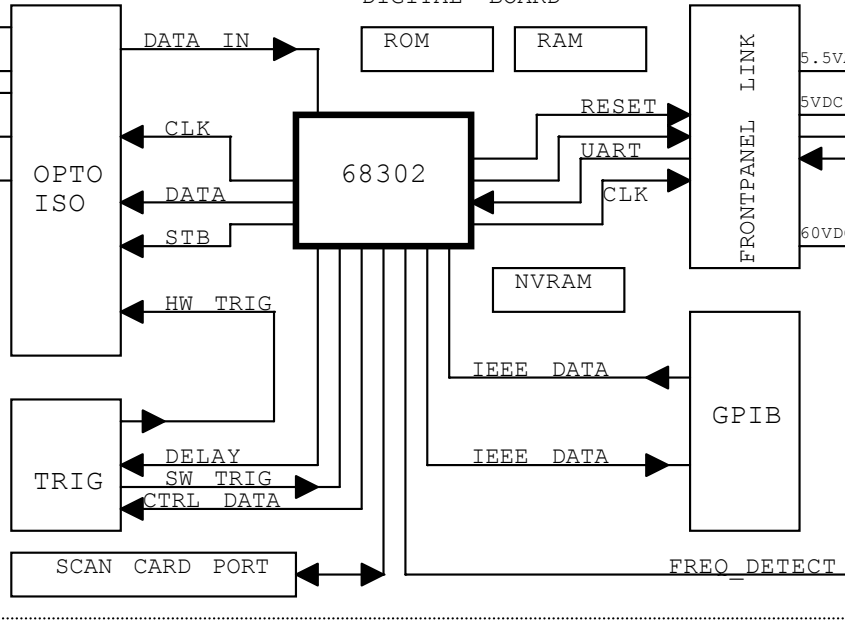
PROTECTION

FRONT TERMINALS

SWITCH

REAR TERMINALS

DIGITAL BOARD



DOT-MATRIX
VFD

DRIVERS

FREQ
DETECT

+15V
+5V
-15V

-8VF

+8VF

-39V
BS-

+39V
BS+

XFRMR

110/220V

MAINS

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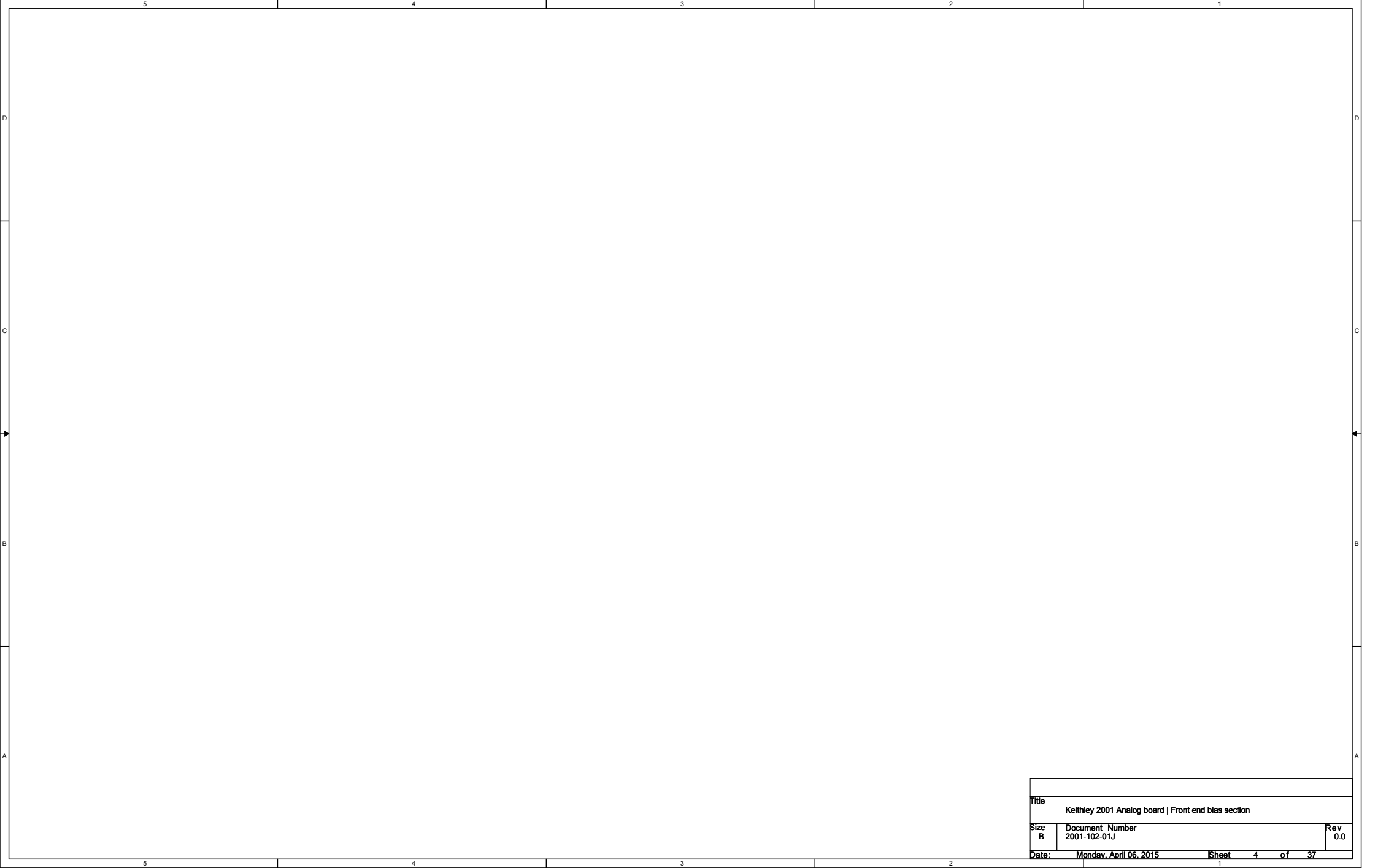
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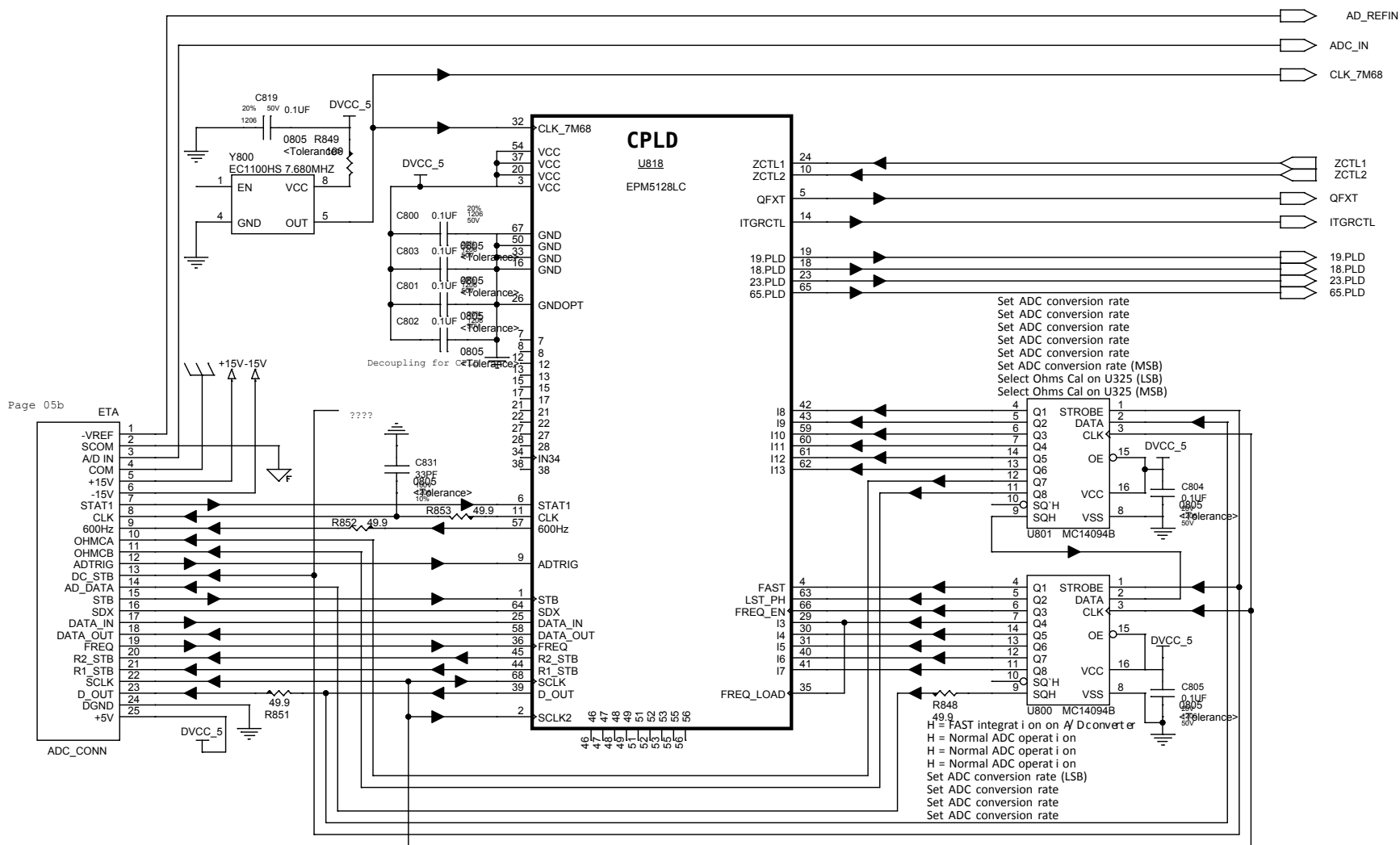
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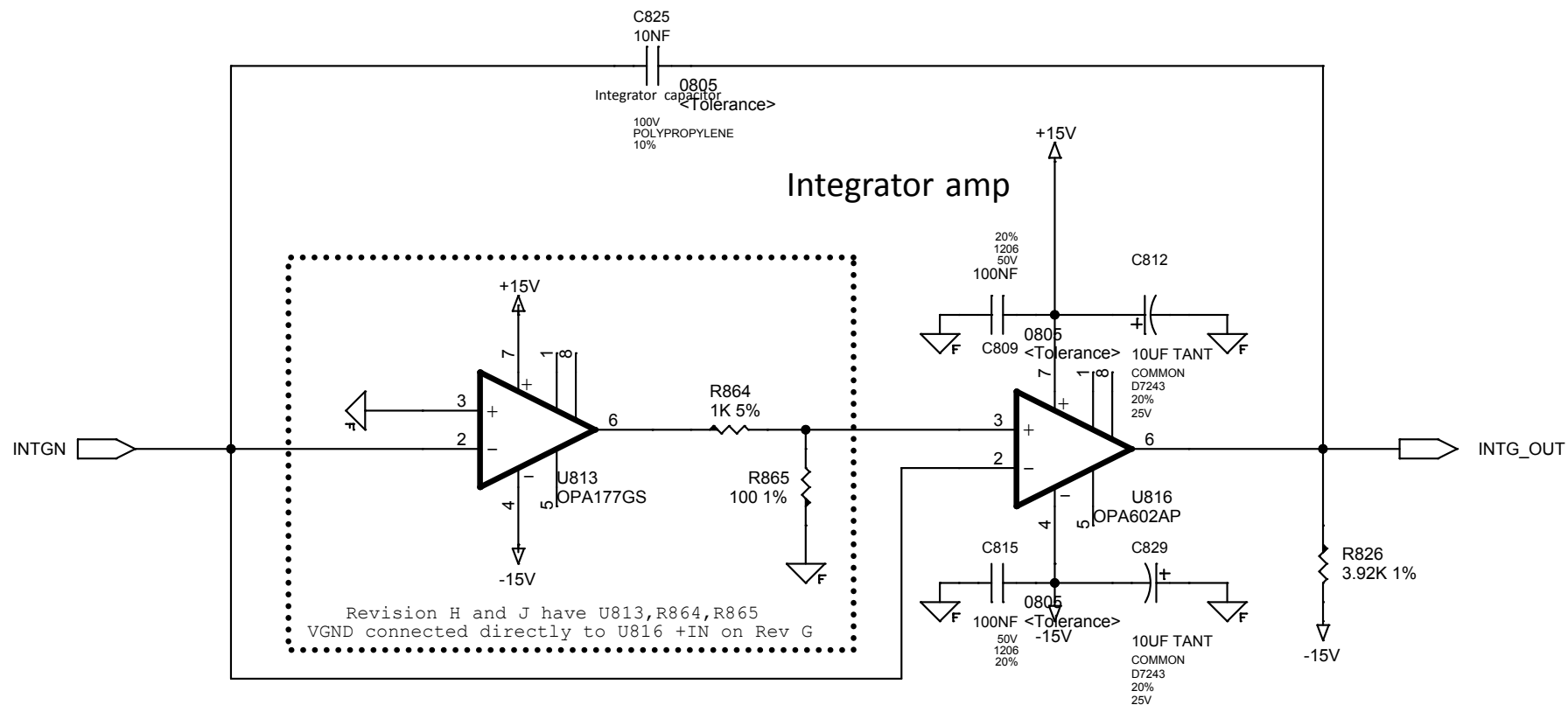
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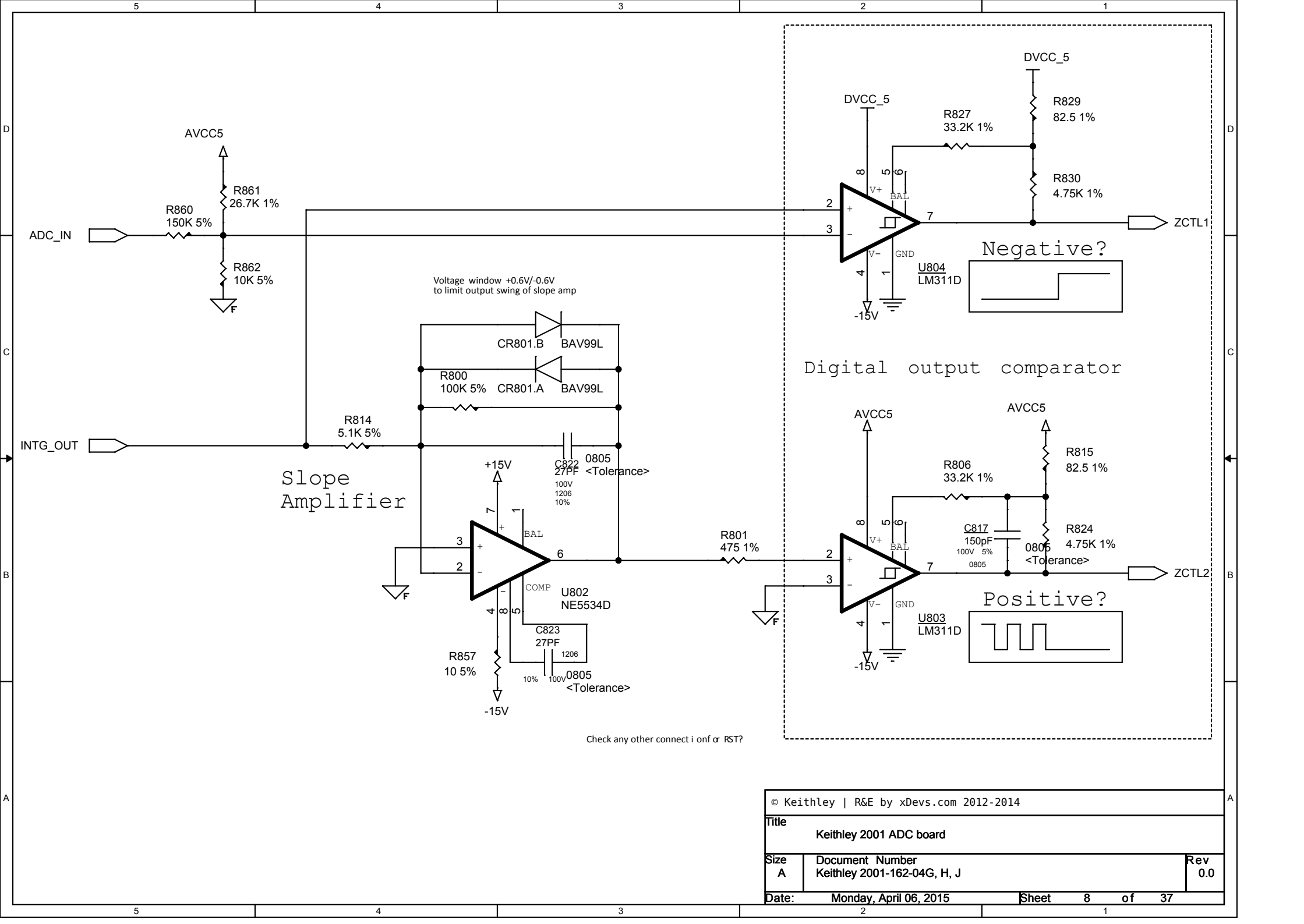
CPLD Programmed Keithley 2001-802-A05
CPLD can be ALTERA EPM5128JC or Cypress CY7C342B-35JC

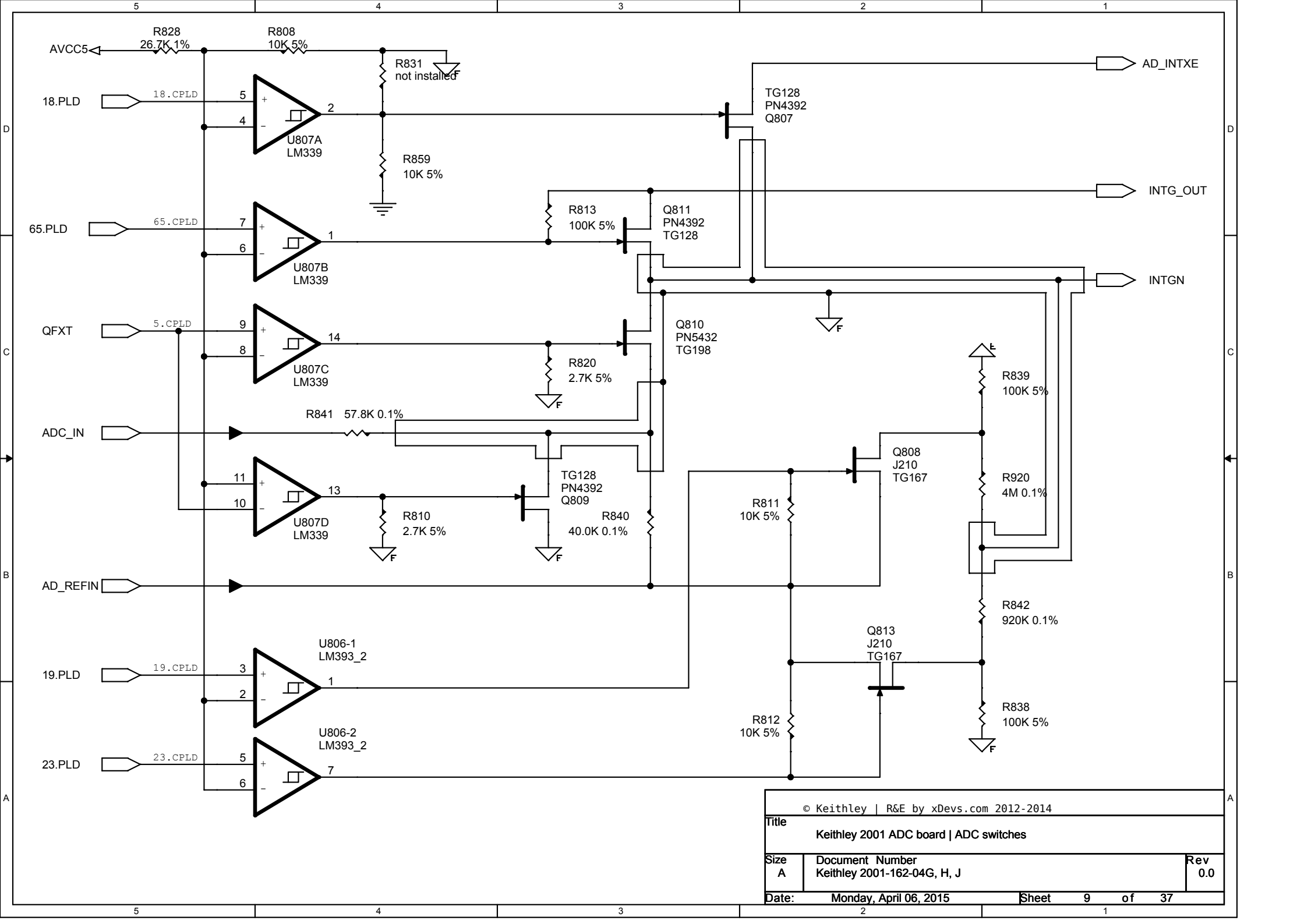
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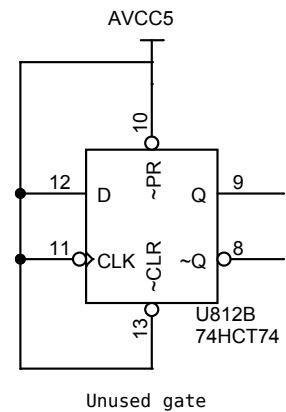
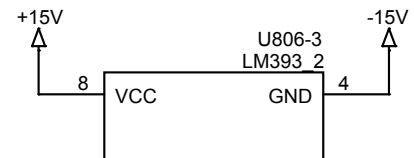
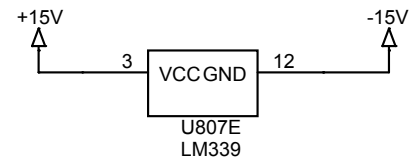
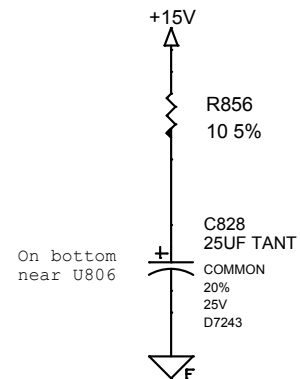
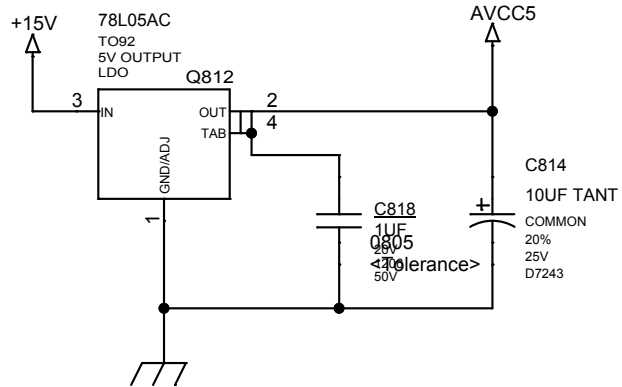
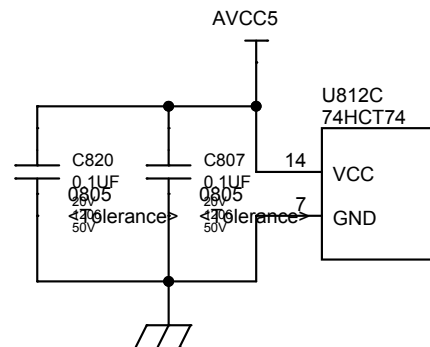
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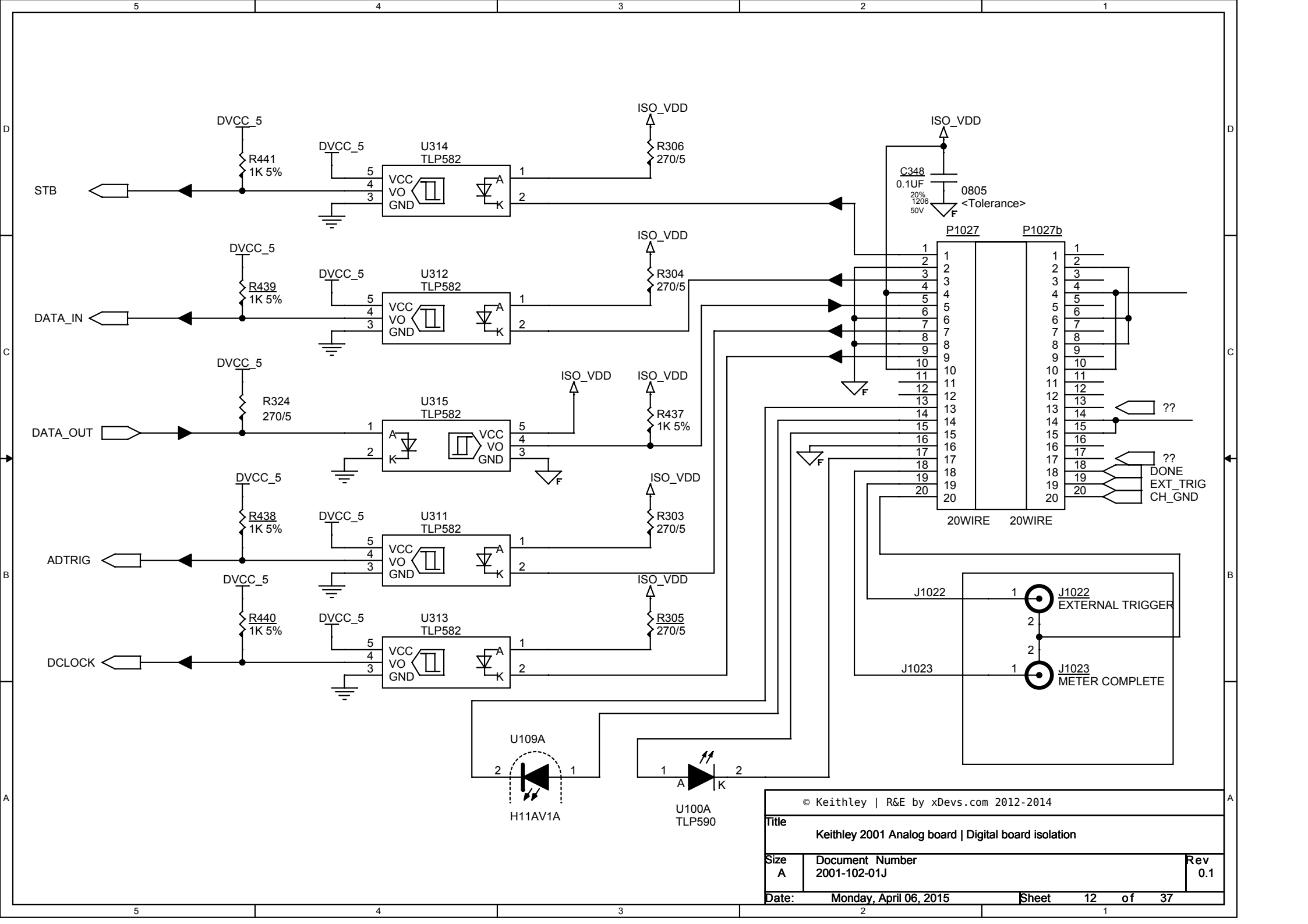






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3. The Effect of Concentration on the Rate of Reaction	Michael Brown	2016	Journal of Chemical Education	93	1	123-130
4. The Effect of Surface Area on the Rate of Reaction	Sarah White	2015	Journal of Chemical Education	92	4	567-574
5. The Effect of Catalyst on the Rate of Reaction	David Green	2014	Journal of Chemical Education	91	5	678-685

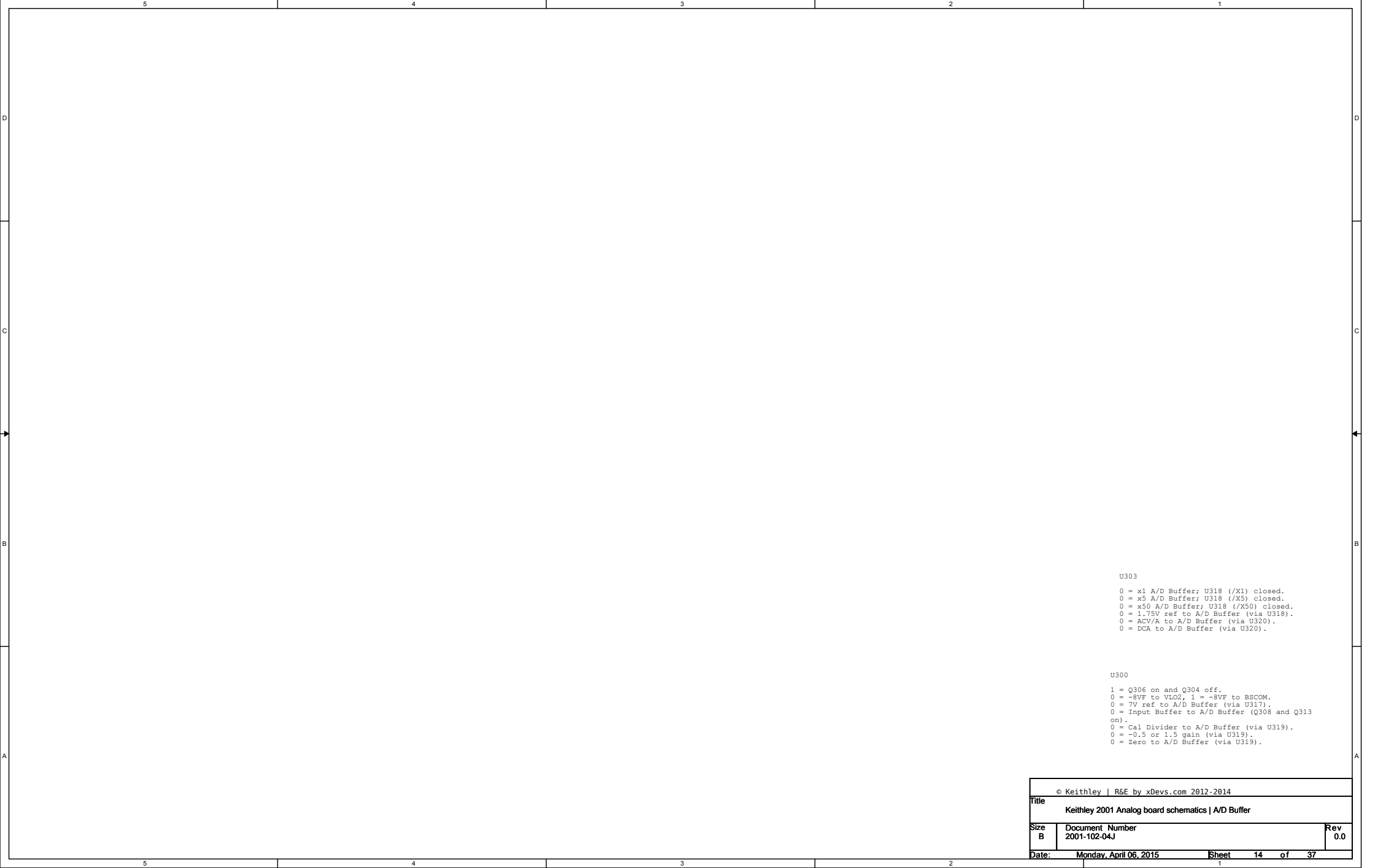
Keithley 2001 Analog board | Voltage reference section

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Truth table	
A[2..0]	ON SWITCH
0b000	S1 - Peak output
0b001	S2 - Filter output
0b010	S3 - TRMS output
0b011	S4 - ACF output
0b100	S5 - Rectifier output
0b101	S6 - SELFTEST output
0b110	S7 - AMP IN output
0b111	S8 - Common

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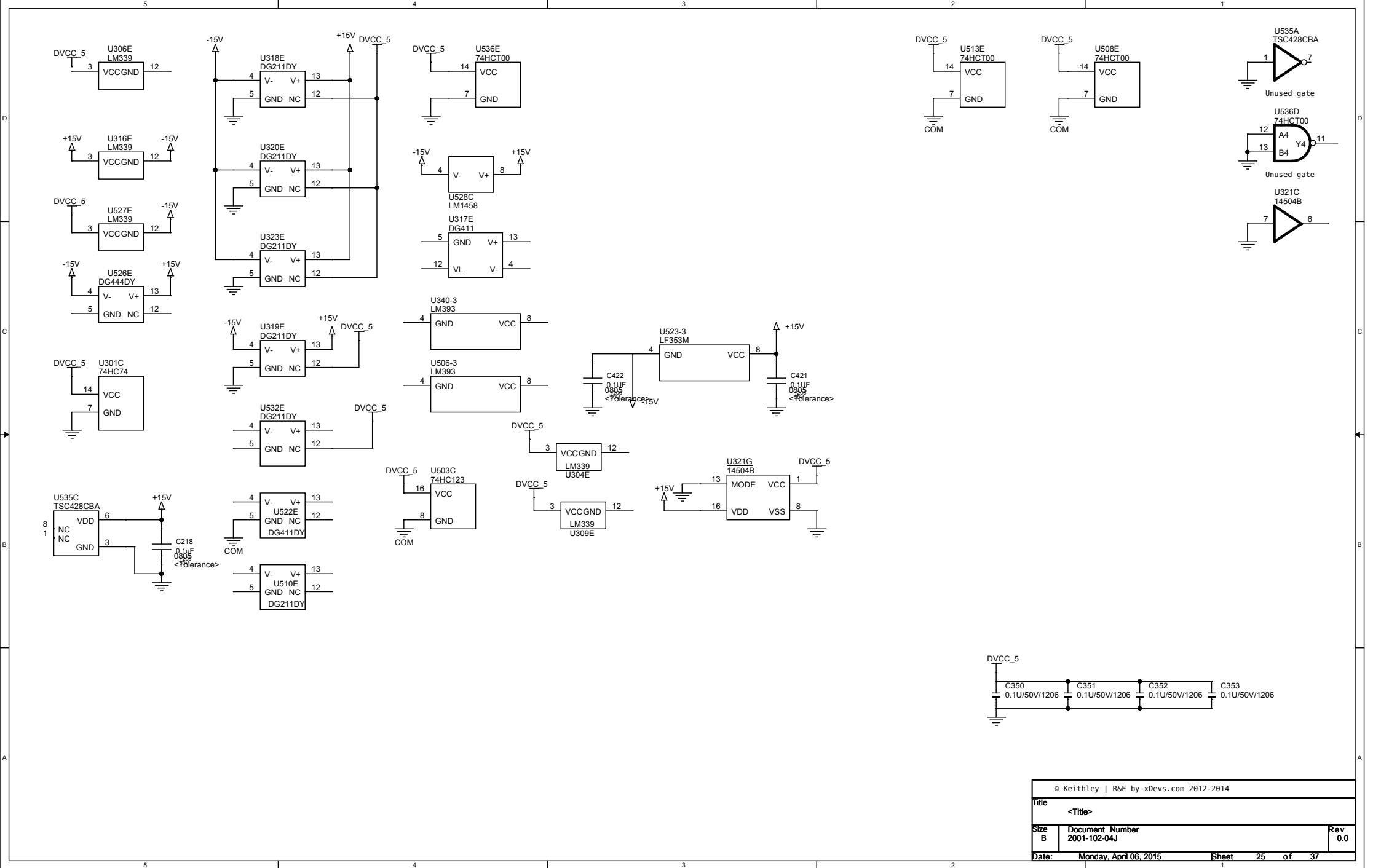
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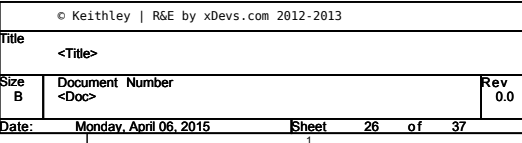
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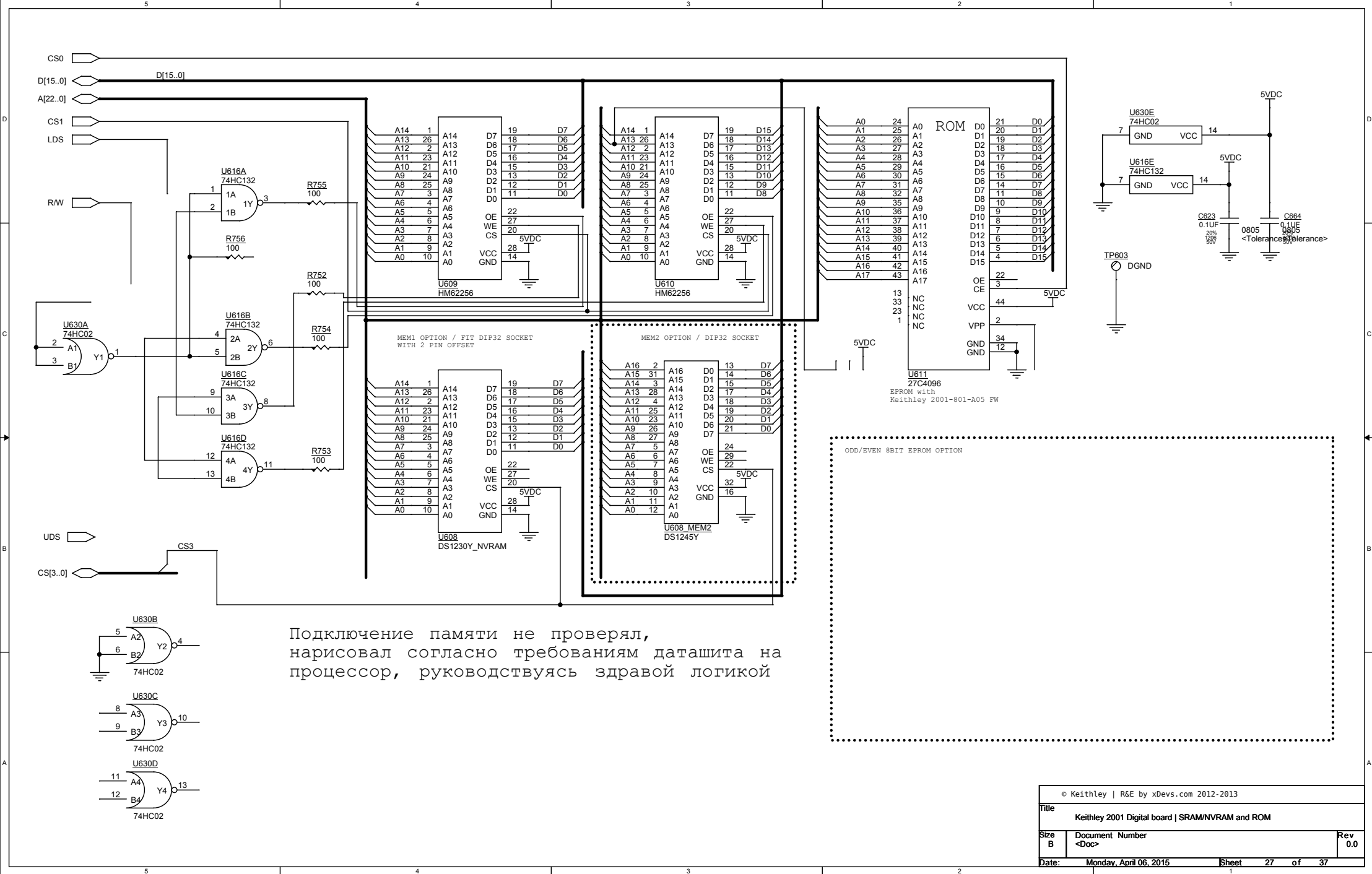
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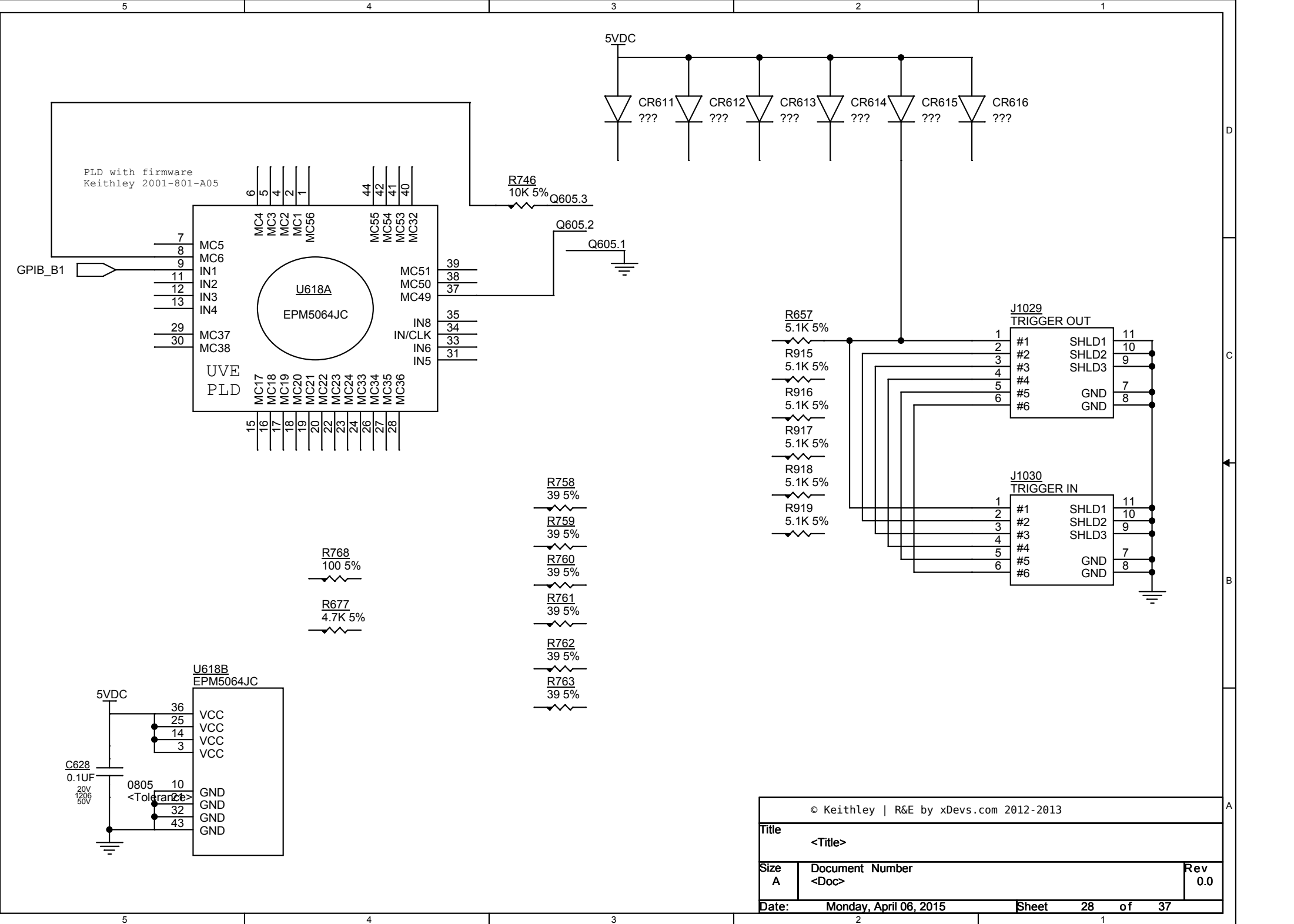
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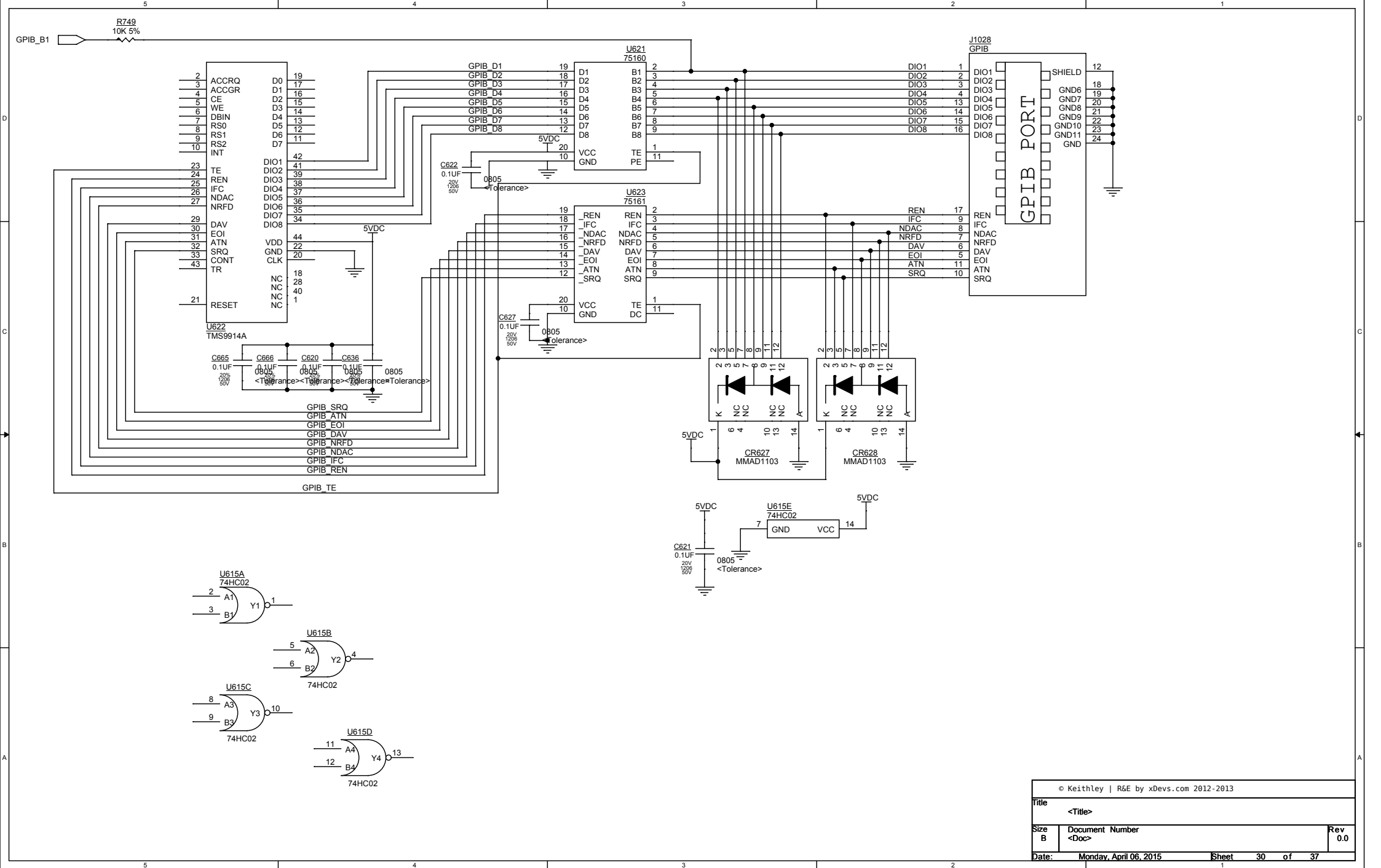
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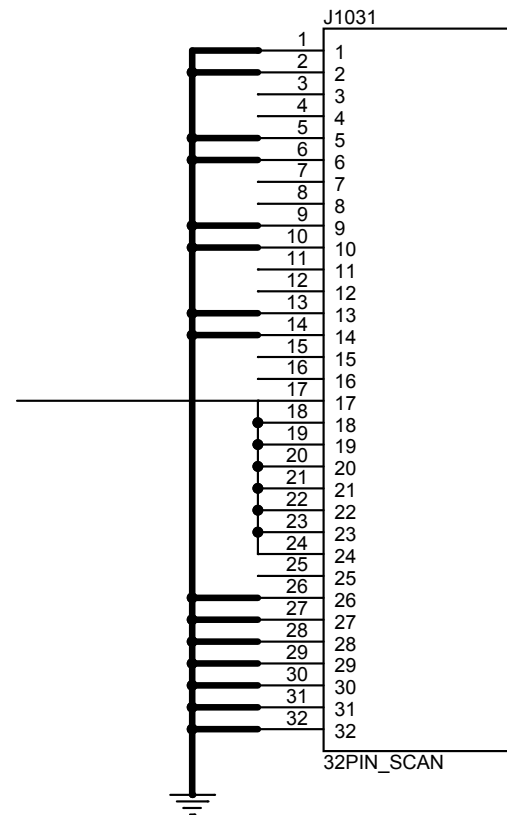




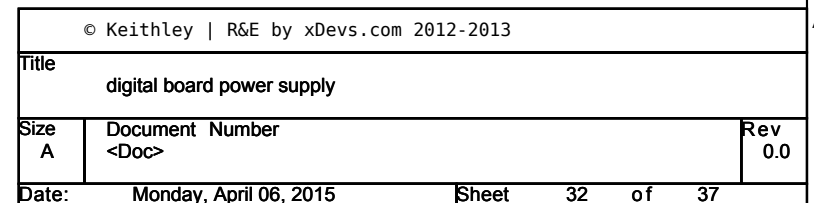


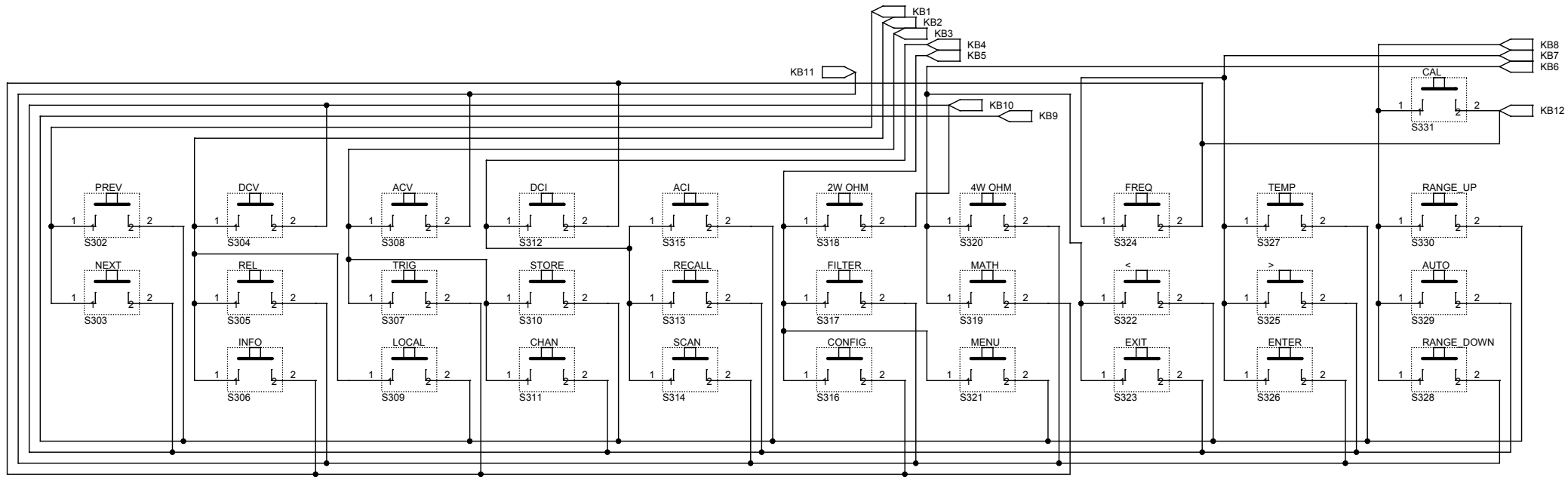


Схему скан-карты потом сделаем отдельным под-проектом



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