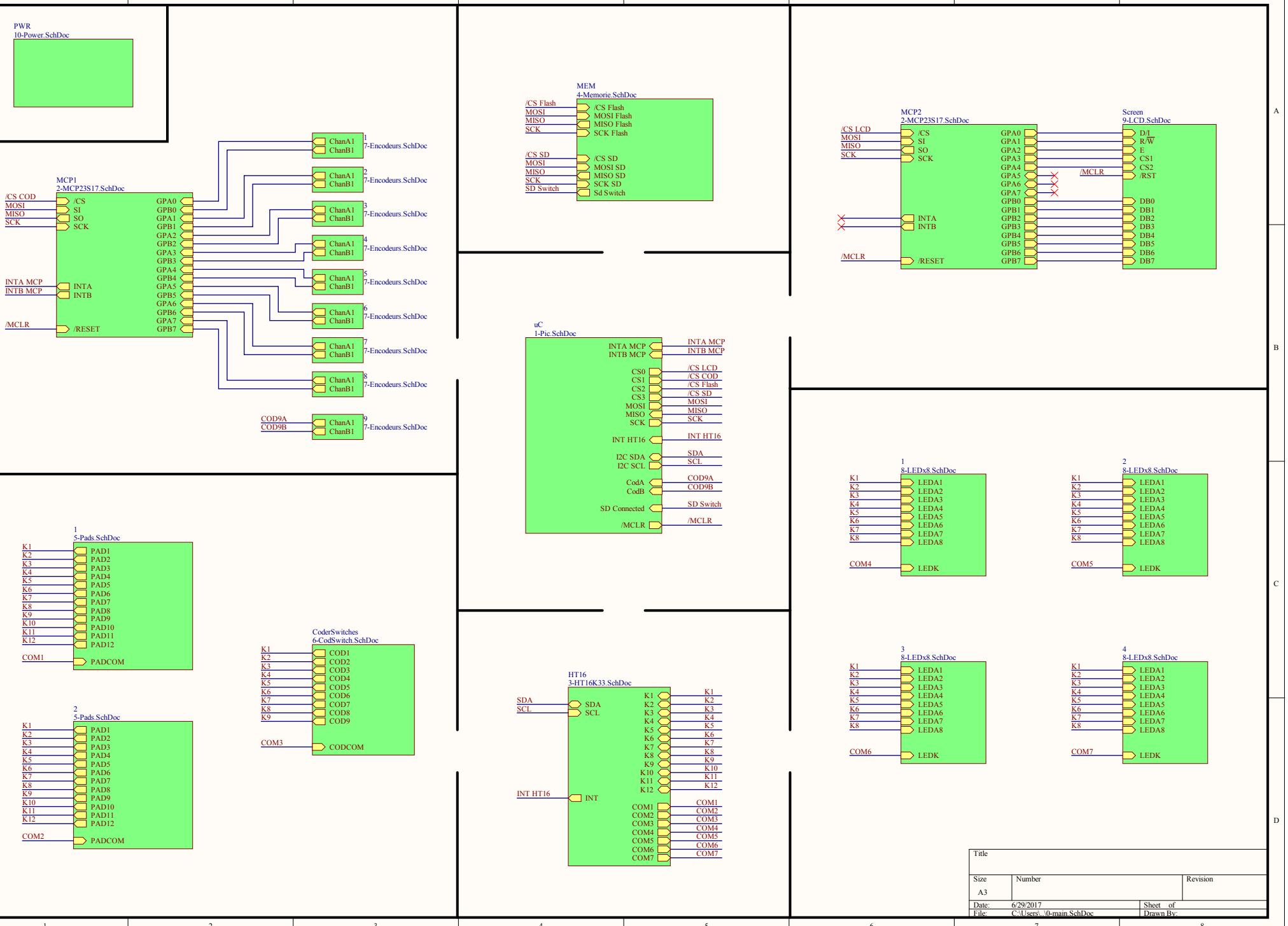
PWR
10-Power.SchDoc
MEM
4-Memorie.SchDoc
/CS Flash
MOSI
MISO
SCK
SD Switch
/CS Flash
MOSI Flash
MISO Flash
SCK Flash
/CS SD
MOSI SD
MISO SD
SCK SD
Sd Switch
MCP2
2-MCP23S17.SchDoc
Screen
9-LCD.SchDoc
/CS LCD
/CS
SI
SO
SCK
INTA
INTB
/RESET
/MCLR
GPA0
GPA1
GPA2
GPA3
GPA4
GPA5
GPA6
GPA7
GPB0
GPB1
GPB2
GPB3
GPB4
GPB5
GPB6
GPB7
D/I
R/W
E
CS1
CS2
/RST
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
MCP1
2-MCP23S17.SchDoc
/CS COD
INTA MCP
INTB MCP
ChanA1
ChanB1
1
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2
3
4
5
6
7
8
9
COD9A
COD9B
uC
1-Pic.SchDoc
CS0
CS1
CS2
CS3
MOSI
MISO
SCK
INT HT16
I2C SDA
I2C SCL
CodA
CodB
SD Connected
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K1
K2
K3
K4
K5
K6
K7
K8
LEDA1
LEDA2
LEDA3
LEDA4
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LEDA6
LEDA7
LEDA8
COM4
COM5
COM6
COM7
LEDK
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PAD1
PAD2
PAD3
PAD4
PAD5
PAD6
PAD7
PAD8
PAD9
PAD10
PAD11
PAD12
COM1
COM2
PADCOM
CoderSwitches
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K9
COD1
COD2
COD3
COD4
COD5
COD6
COD7
COD8
COD9
COM3
CODCOM
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INT
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COM2
COM3
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COM5
COM6
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Revision
Date:
6/29/2017
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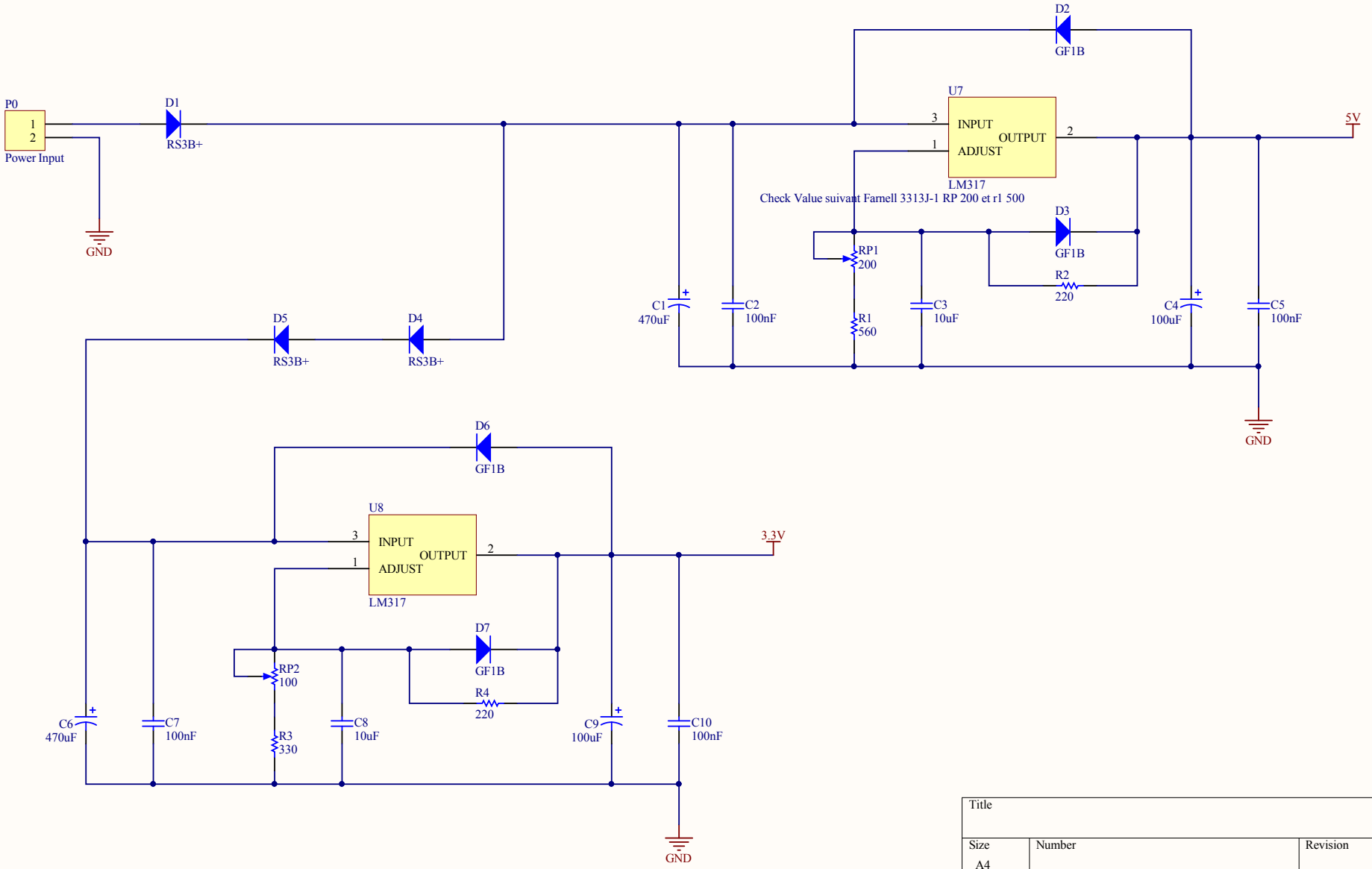

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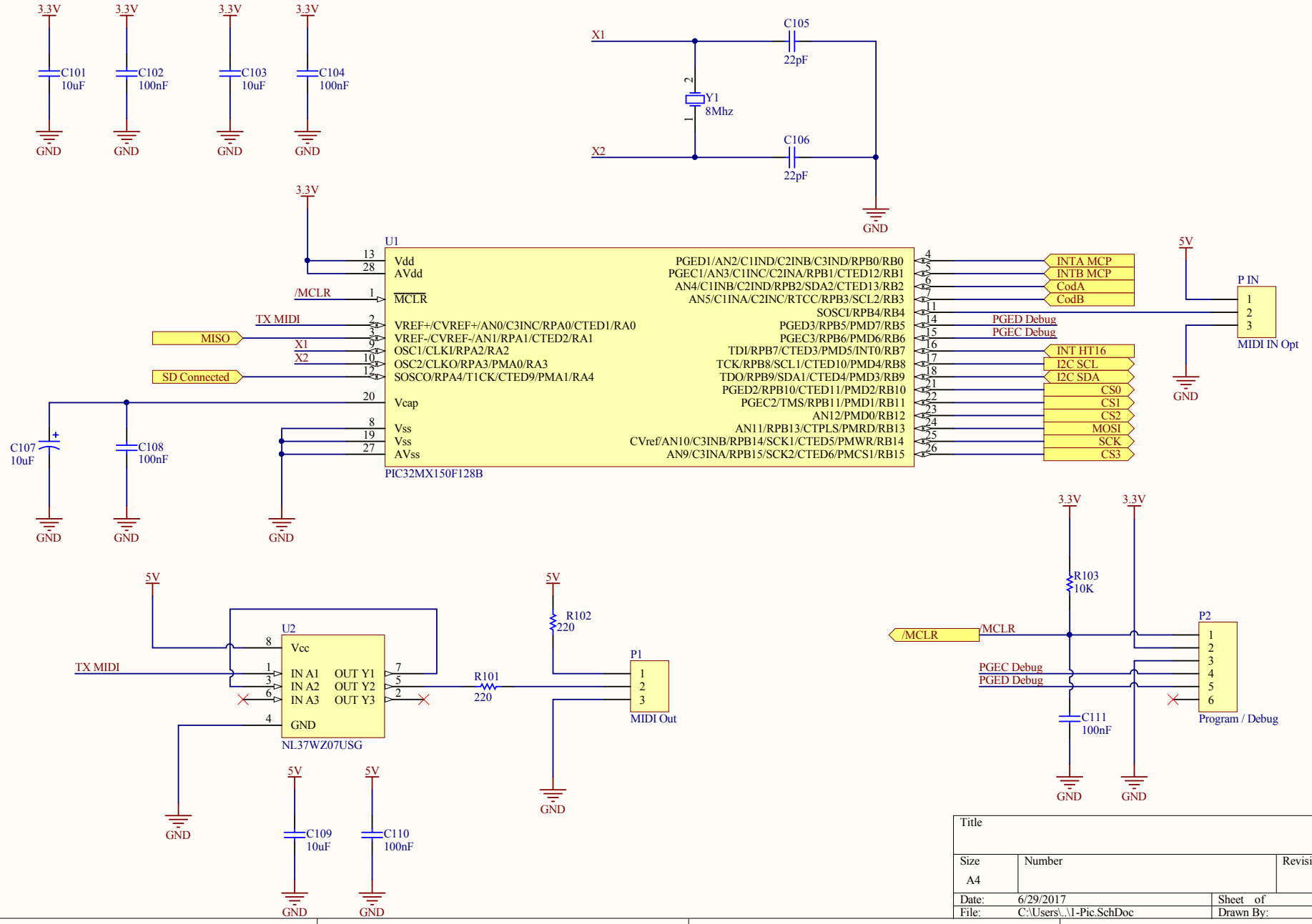

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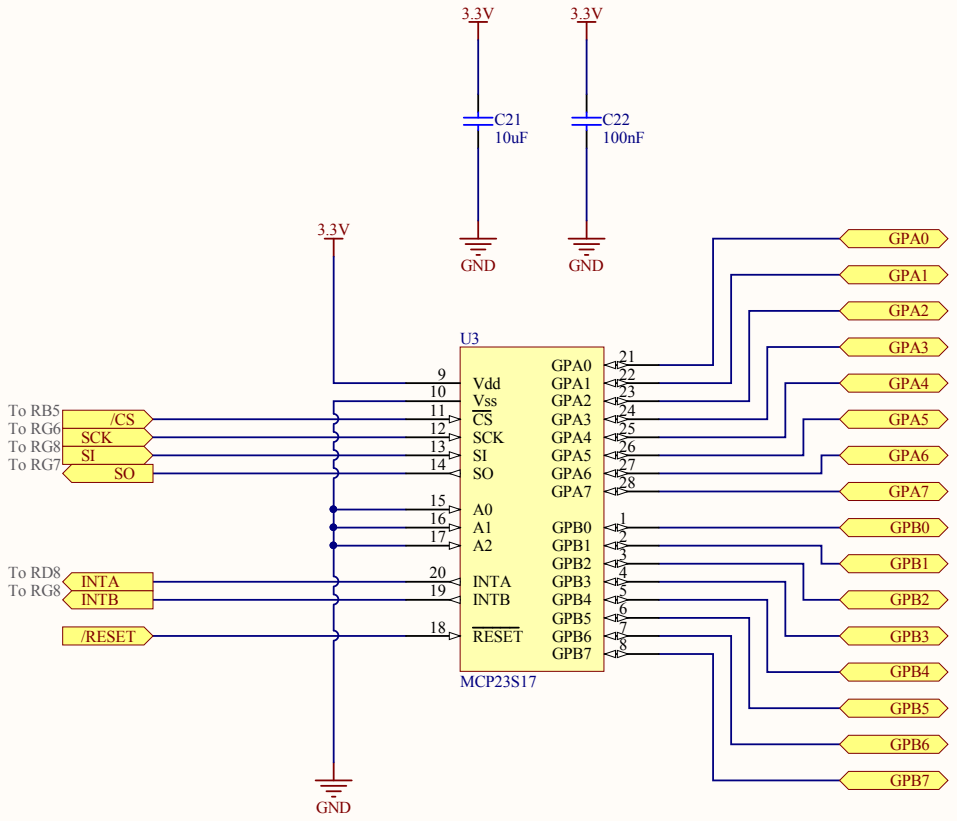

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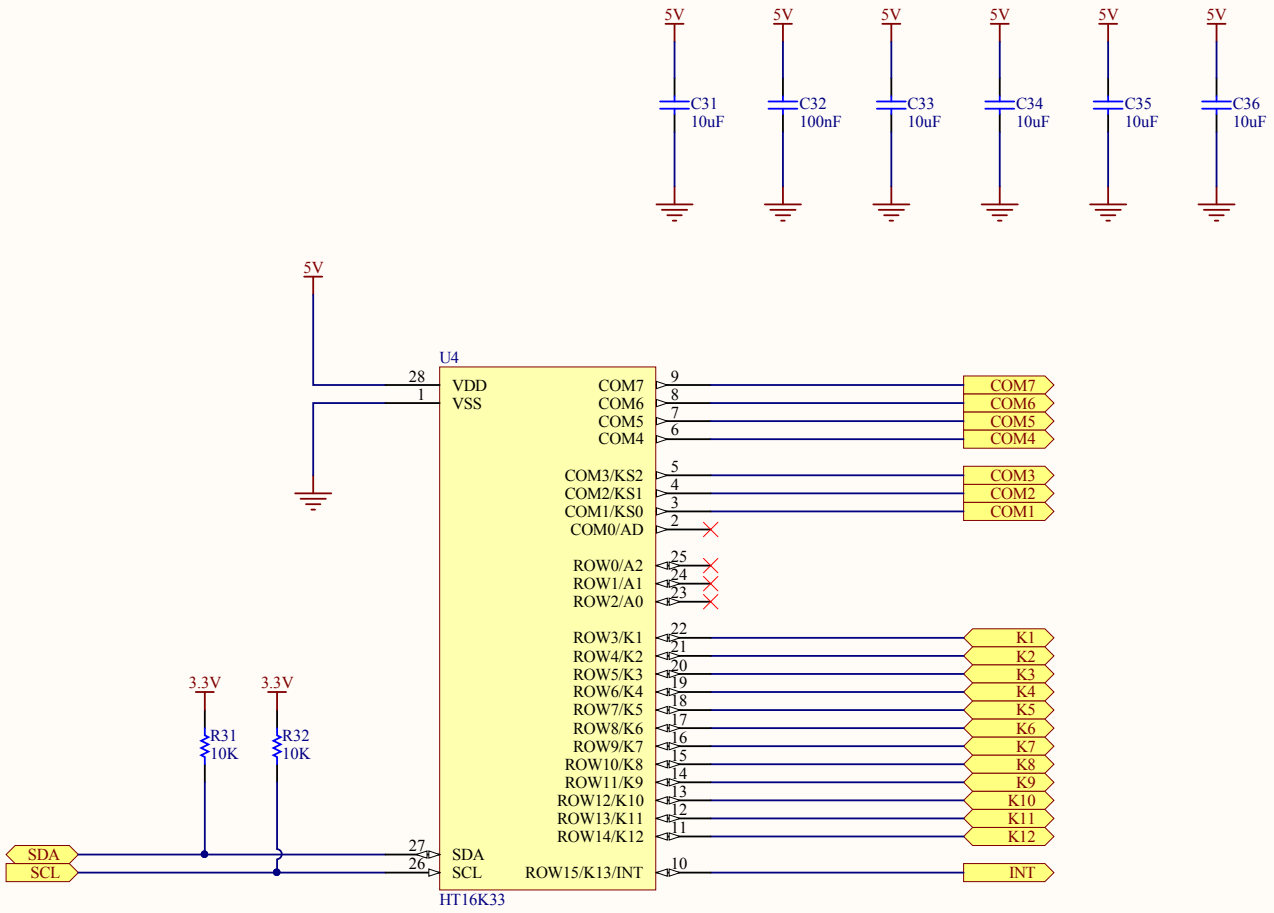

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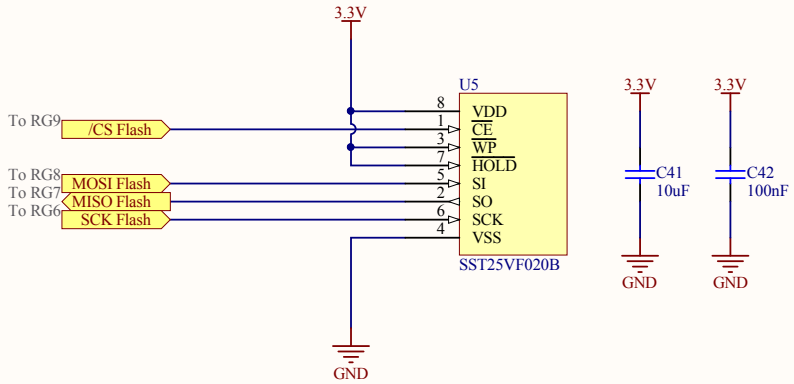

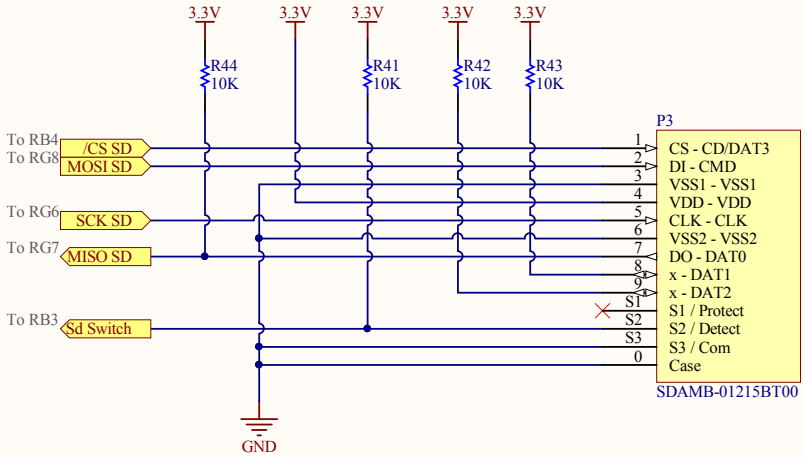

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Date: 6/29/2017		Sheet of
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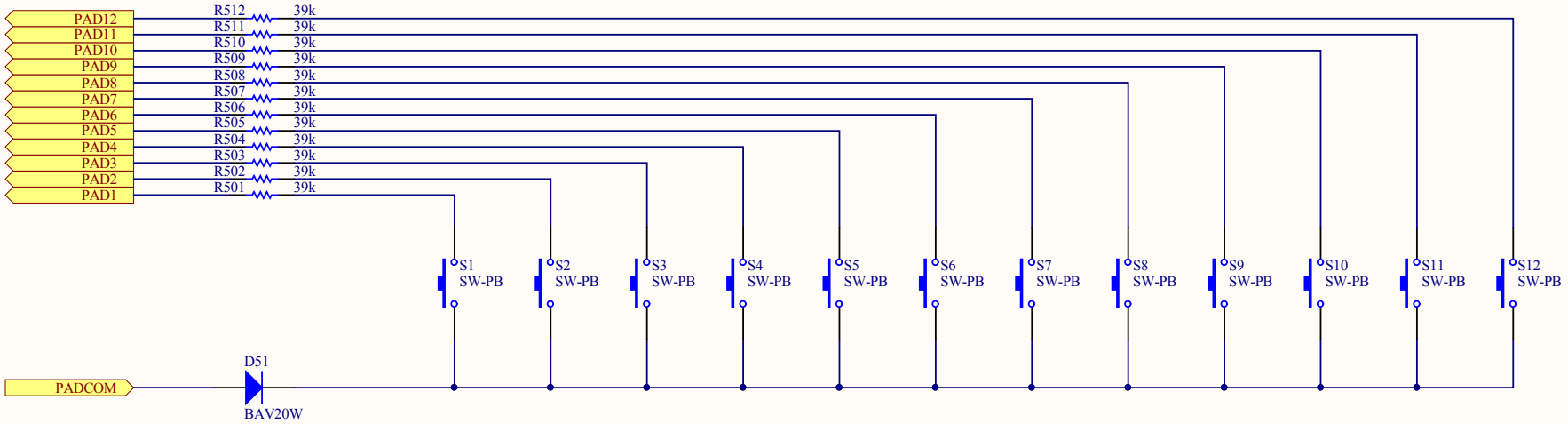

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Date:	6/29/2017	Sheet of	
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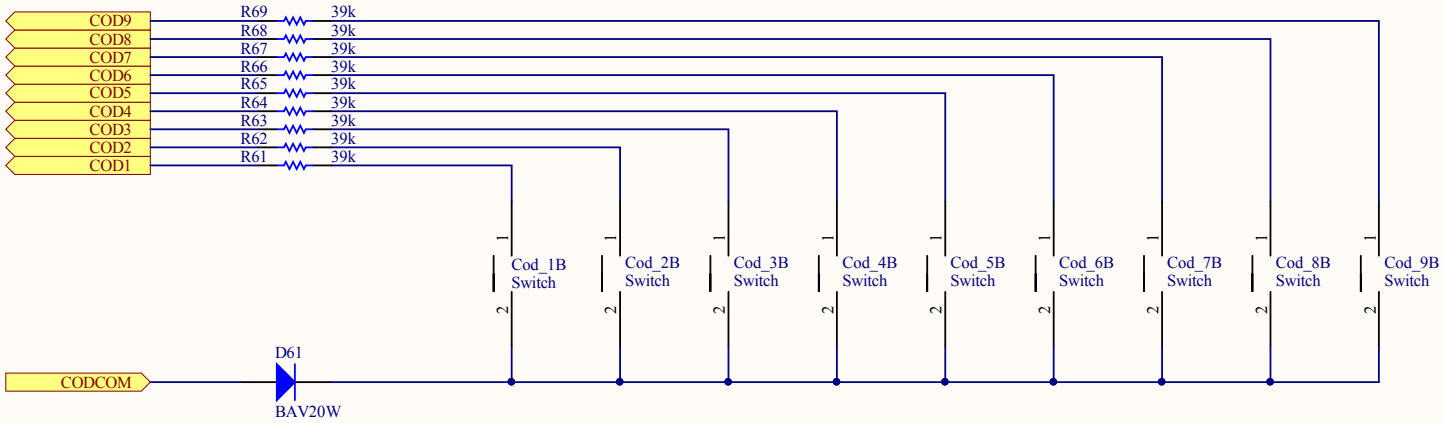

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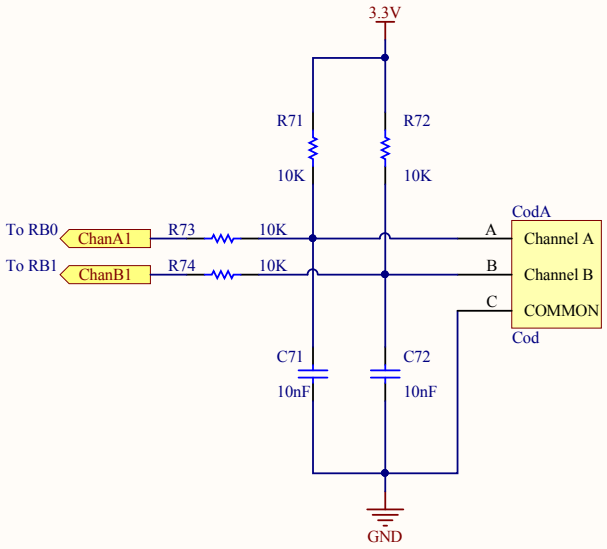

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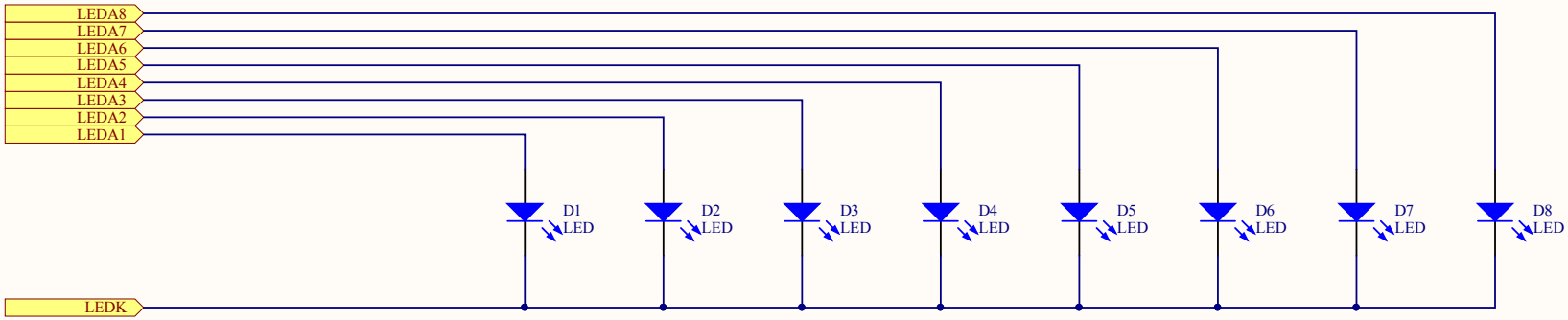

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Date:	6/29/2017	Sheet of	
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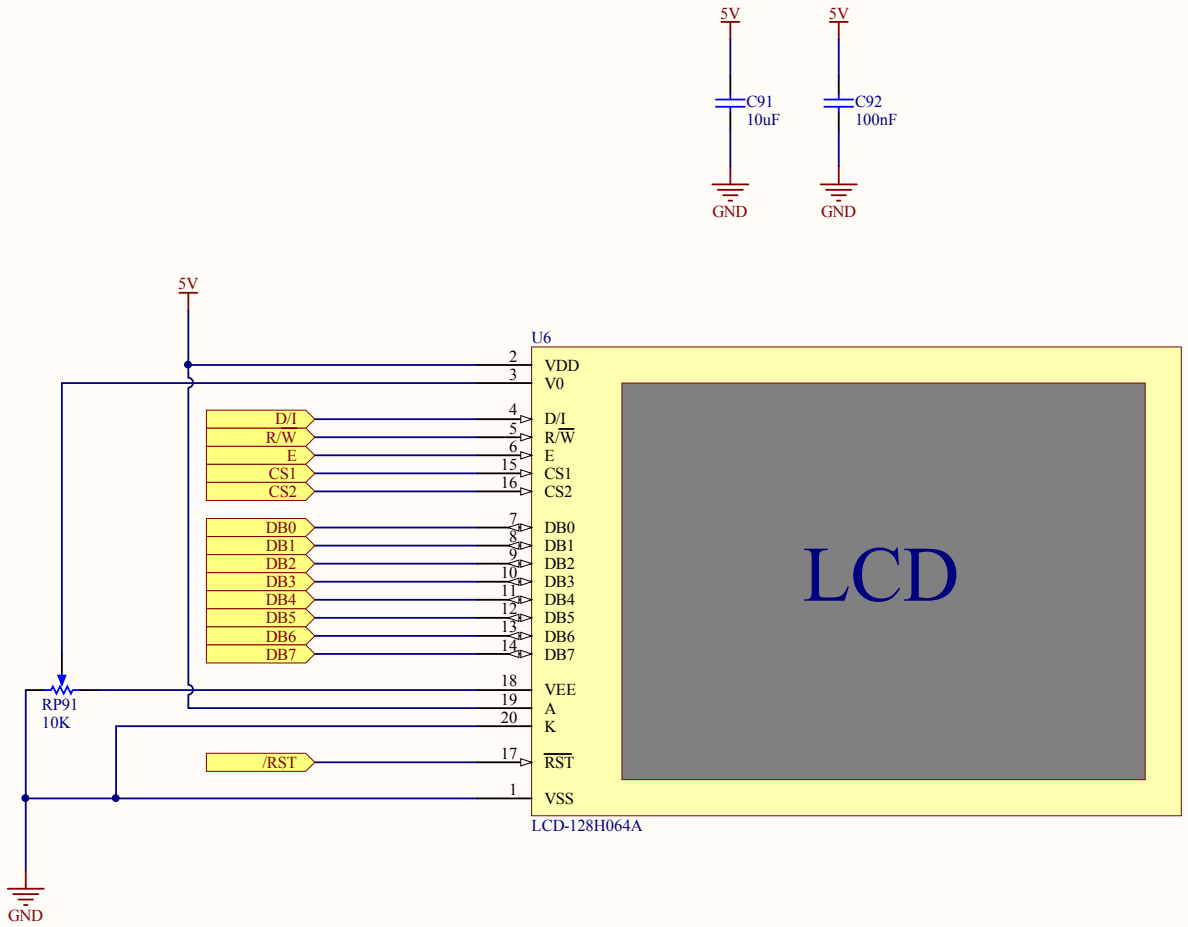

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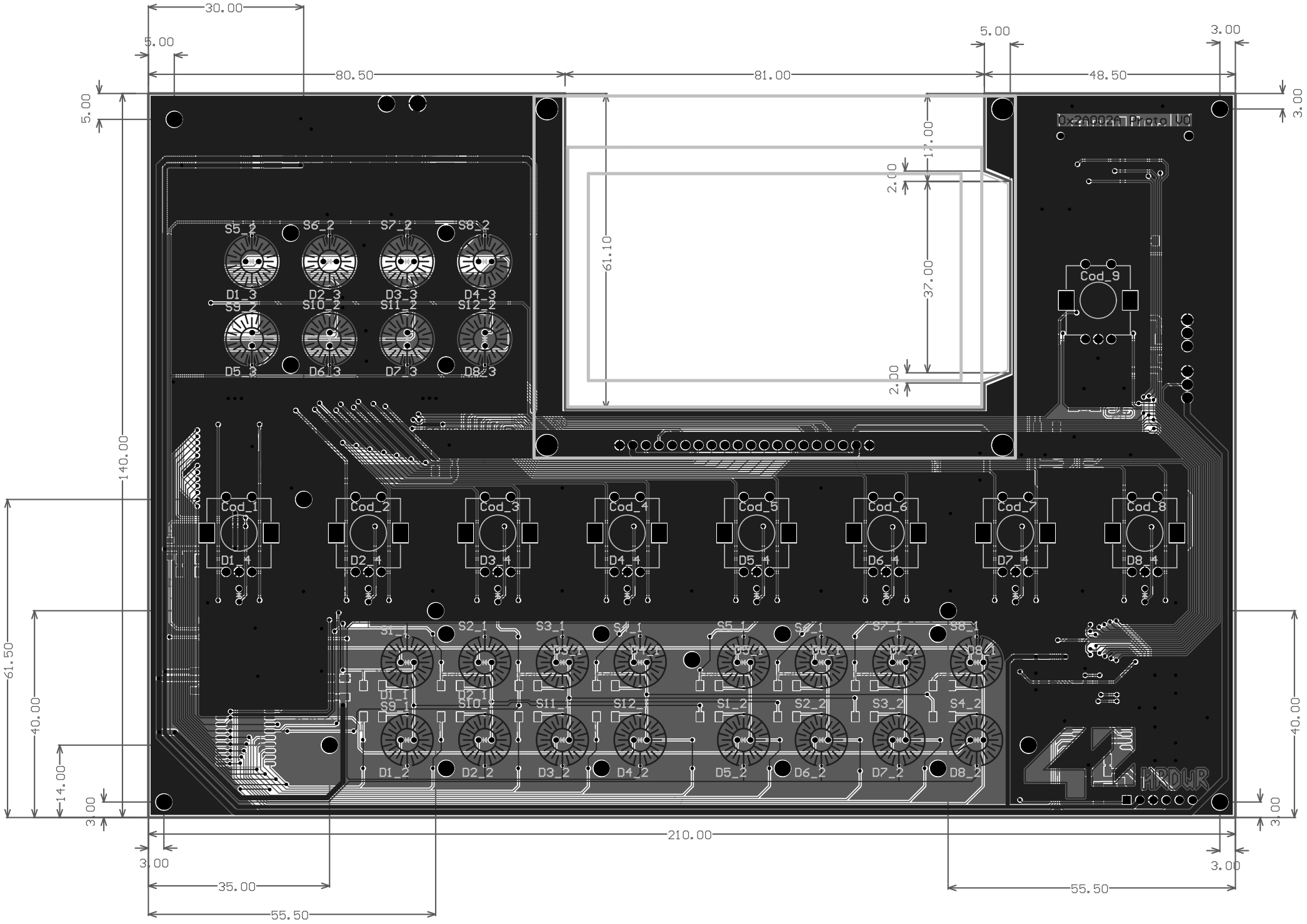
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D1_3
D2_3
D3_3
D4_3
S9_2
S10_2
S11_2
S12_2
D5_3
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3.00
35.00
55.50
55.50

Comment	Description	Designator	Footprint	LibRef	Quantity
470uF	Polarized Capacitor (Radial)	C1, C6	CAPA PANA SIZE D*	Cap Pol1	2
100nF	Capacitor	C2, C5, C7, C10, C22_MCP1, C22_MCP2, C32, C42, C92, C102, C104, C108, C110, C111	capa 1206	Cap	14
10uF	Capacitor	C3, C8, C21_MCP1, C21_MCP2, C31, C33, C34, C35, C36, C41, C91, C101, C103, C109	capa 1206	Cap	14
100uF	Polarized Capacitor (Radial)	C4, C9	CAPA PANA SIZE D*	Cap Pol1	2
10nF	Capacitor	C71_1, C71_2, C71_3, C71_4, C71_5, C71_6, C71_7, C71_8, C71_9, C72_1, C72_2, C72_3, C72_4, C72_5, C72_6, C72_7, C72_8, C72_9	capa 1206	Cap	18
22pF	Capacitor	C105, C106	capa 1206	Cap	2
10uF	Polarized Capacitor (Radial)	C107	CAPA 1206 POL	Cap Pol1	1
Cod		Cod_1, Cod_2, Cod_3, Cod_4, Cod_5, Cod_6, Cod_7, Cod_8, Cod_9		Cod	9
Switch		Cod_1, Cod_2, Cod_3, Cod_4, Cod_5, Cod_6, Cod_7, Cod_8, Cod_9	PEC11R-4xxxF-Sxxxx	Cod	9
RS3B+	Default Diode	D1, D4, D5	SMC Vishay	Diode	3
LED	Diffused Green 3mm LED	D1_1, D1_2, D1_3, D1_4, D2_1, D2_2, D2_3, D2_4, D3_1, D3_2, D3_3, D3_4, D4_1, D4_2, D4_3, D4_4, D5_1, D5_2, D5_3, D5_4, D6_1, D6_2, D6_3, D6_4, D7_1, D7_2, D7_3, D7_4, D8_1, D8_2, D8_3, D8_4	LED-3mm	LED0	32
GF1B	Default Diode	D2, D3, D6, D7	DO-214AC(SMA)	Diode	4
BAV20W	Default Diode	DS1_1, D51_2, D61	Diode SOD-123	Diode	3
MIDI IN Opt	Header, 3-Pin	P IN	MIDI	Header 3	1
Power Input	Header, 2-Pin	P0	PWR	Header 2	1
MIDI Out	Header, 3-Pin	P1	MIDI	Header 3	1
Program / Debug	Header, 6-Pin	P2	HDR1X6	Header 6	1
SDAMB-01215BT00		P3		SDAMB-01215BT00	1
560	Resistor	R1	RES 1206	Res1	1
220	Resistor	R2, R4, R101, R102	RES 1206	Res1	4
330	Resistor	R3	RES 1206	Res1	1
10K	Resistor	R31, R32, R41, R42, R43, R44, R71_1, R71_2, R71_3, R71_4, R71_5, R71_6, R71_7, R71_8, R71_9, R72_1, R72_2, R72_3, R72_4, R72_5, R72_6, R72_7, R72_8, R72_9, R73_1, R73_2, R73_3, R73_4, R73_5, R73_6, R73_7, R73_8, R73_9, R74_1, R74_2, R74_3, R74_4, R74_5, R74_6, R74_7, R74_8, R74_9, R103	RES 1206	Res1	43
39k	Resistor	R61, R62, R63, R64, R65, R66, R67, R68, R69, R501_1, R501_2, R502_1, R502_2, R503_1, R503_2, R504_1, R504_2, R505_1, R505_2, R506_1, R506_2, R507_1, R507_2, R508_1, R508_2, R509_1, R509_2, R510_1, R510_2, R511_1, R511_2, R512_1, R512_2	RES 1206	Res1	33
200	Potentiometer	RP1	3313J-1	RPot	1
100	Potentiometer	RP2	3313J-1	RPot	1
10K	Potentiometer	RP91	3313J-1	RPot	1
SW-PB	Switch	S1_1, S1_2, S2_1, S2_2, S3_1, S3_2, S4_1, S4_2, S5_1, S5_2, S6_1, S6_2, S7_1, S7_2, S8_1, S8_2, S9_1, S9_2, S10_1, S10_2, S11_1, S11_2, S12_1, S12_2	PAD	SW-PB	24
PIC32MX150F128B		U1	PIC32MX150F128B-I/SO	PIC32MX150F128B	1
NL37WZ07USG		U2	NL37WZ07USG	NL37WZ07USG	1
MCP23S17		U3_MCP1, U3_MCP2	MCP23S17-E/SO	MCP23S17	2
HT16K33		U4	HT16K33 SOP	HT16K33	1
SST25VF020B		U5	SST25VF020B	SST25VF020B	1
LCD-128H064A		U6	LCD-128H064A	LCD-128H064A	1
LM317		U7, U8	D2PAK	LM317	2
8Mhz	Crystal Oscillator	Y1	HC49/4H SMX CRYSTAL	XTAL	1