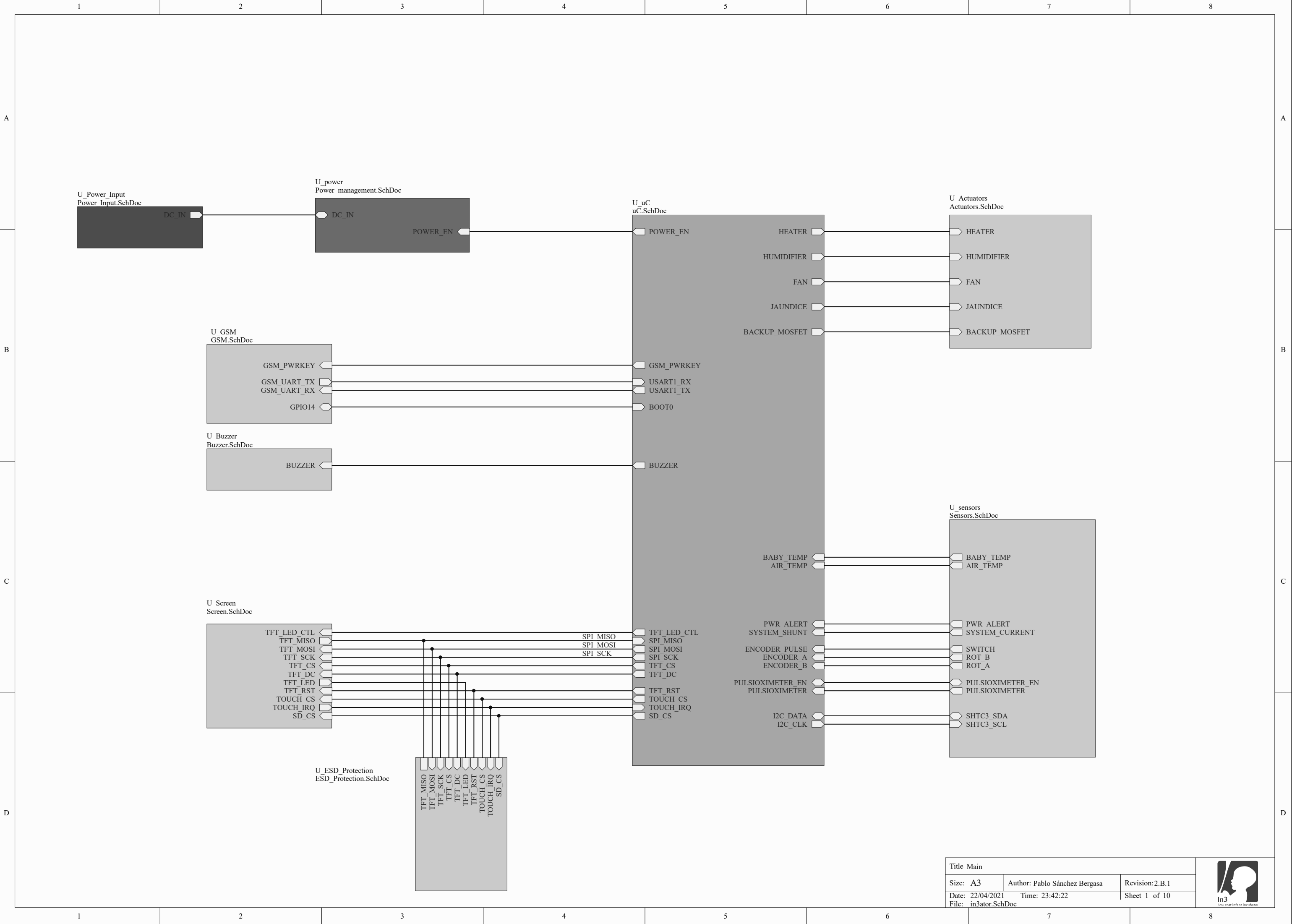
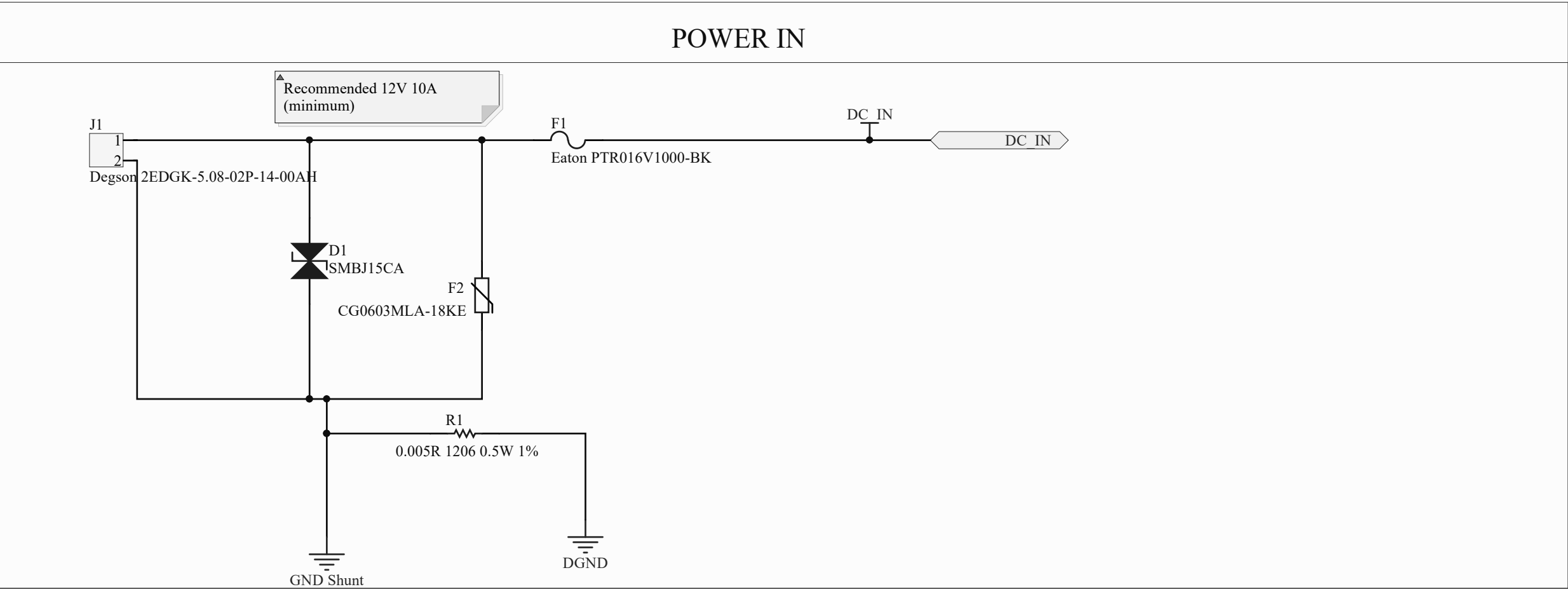
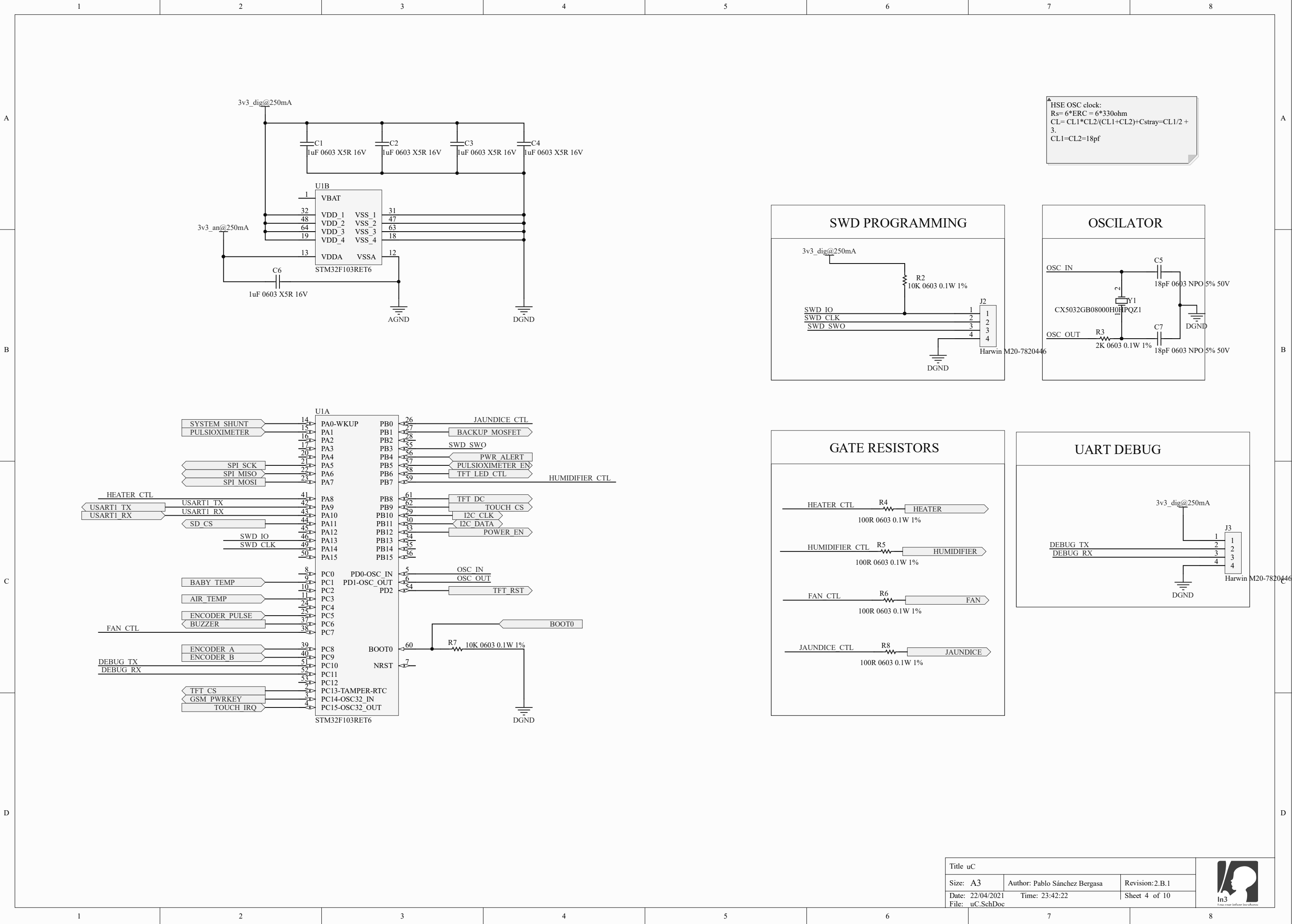


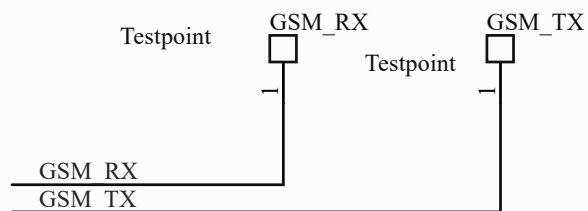
Comment	Quantity	Designator	Manufacturer Part Number	Manufacturer Part Number 2
CUI CMT-1285C-035	1	BUZ1	CMT-1285C-035	GMC1205YA-16R2048
1uF 0603 X5R 16V	7	C1, C2, C3, C4, C6, C17, C34	GRM185R61C105KE44D	
18pF 0603 NPO 5% 50V	3	C5, C7, C12	C0603C180K5RACTU	
100nF 0603 X7R 50V	6	C8, C9, C10, C11, C30, C33		
100uF 25V 105° SMD 6.6x6.6mm D=6.3mm	3	C13, C29, C31	VZL101M1ETR-0607	
100nF 0603 X7R 100V	5	C16, C18, C19, C20, C26		
10uF 0603 X5R 6.3V	3	C27, C28, C32		
SMBJ15CA	1	D1		
ESDA6V1-5SC6	3	D2, D4, D5	ESDA6V1-5SC6	
Eaton PTR016V1000-BK	1	F1	PTR016V1000-BK	
CG0603MLA-18KE	1	F2	CG0603MLA-18KE	
BLM18HG601SN1D	1	FB1	BLM18HG601SN1D	
Degson 2EDGK-5.08-02P-14-00AH	1	J1	2EDGK-5.08-02P-14-00AH + 2EDGVC-5.08-02P	WJ2EDGVC-5.08-2P + WJ2EDGK-5.08-2P
Harwin M20-7820446	2	J2, J3	M20-7820446	
Amphenol TBP01R2-508-08BE	1	J4	TBP01R2-508-08BE + TBP01P1-508-08BE	WJ2EDGVC-5.08-8P + KF2EDGK-5.08-8P
JST B2B-PH-K-S(LF)(SN)	1	J5	B2B-PH-K-S(LF)(SN)	
JST B2B-XH-A	2	J6, J12	B2B-XH-A	
Molex 53290-0480	1	J10	53290-0480	
Molex 52418-0410	1	J11	52418-0410	
BC817-16	3	Q1, Q7, Q10		
Infineon IRLB8314PBF	4	Q2, Q4, Q5, Q6		
NTR1P02LT1G	1	Q8	NTR1P02LT1G	
IPD90P03P404ATMA1	1	Q9	IPD90P03P404ATMA1	WSF70P03
0.005R 1206 0.5W 1%	1	R1	WSP12065L000FEA	FMF06FTHR005-LHL
10K 0603 0.1W 1%	15	R2, R7, R11, R19, R21, R23, R24, R25, R26, R37, R38, R45, R47, R49, R54		
2K 0603 0.1W 1%	3	R3, R13, R51		
100R 0603 0.1W 1%	9	R4, R5, R6, R8, R16, R17, R18, R44, R46	ERJ3GEYJ101V	
0R 0603 0.1W 1%	5	R9, R15, R42, R52, R53		
1K 0603 0.1W 1%	6	R10, R12, R30, R31, R43, R48	CR0603-FX-1001ELF	
30K 0603 0.1W 1%	4	R14, R27, R28, R29		
5k1 0603 0.1W 1%	1	R50		
U.FL-R-SMT(01)	1	RF_CON1		
Planar Inverted-F Antenna	1	RF_PCB1		
Bourns PEC11R-4215F-S0024	1	SW1	PEC11R-4215F-S0024	
STM32F103RET6	1	U1		
Simcom SIM800C	1	U2	SIM800C	
MFF2	1	U3		
MCP6L02T-E/MS	1	U4		
Sensirion SHTC3	1	U7		
2.2 / 2.4 tft compatible (touch / no touch)	1	U8		
MCP1703T-3302E/CB	2	U9, U10	MCP1703T-3302E/CB	
Micrel MIC29302WU	1	U11		
CX5032GB08000H0HPQZ1	1	Y1	CX5032GB08000H0HPQZ1	



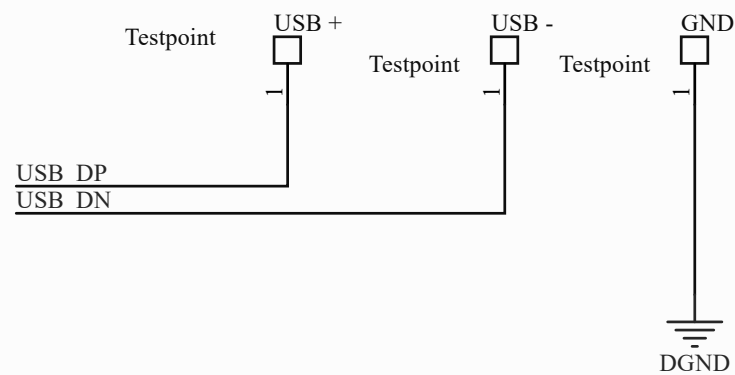




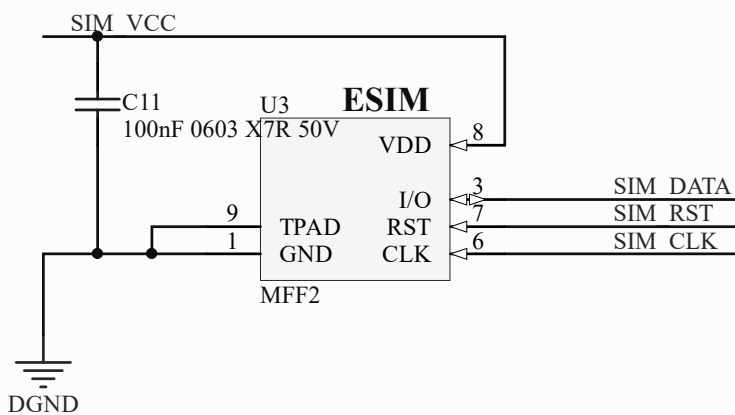
UART TP



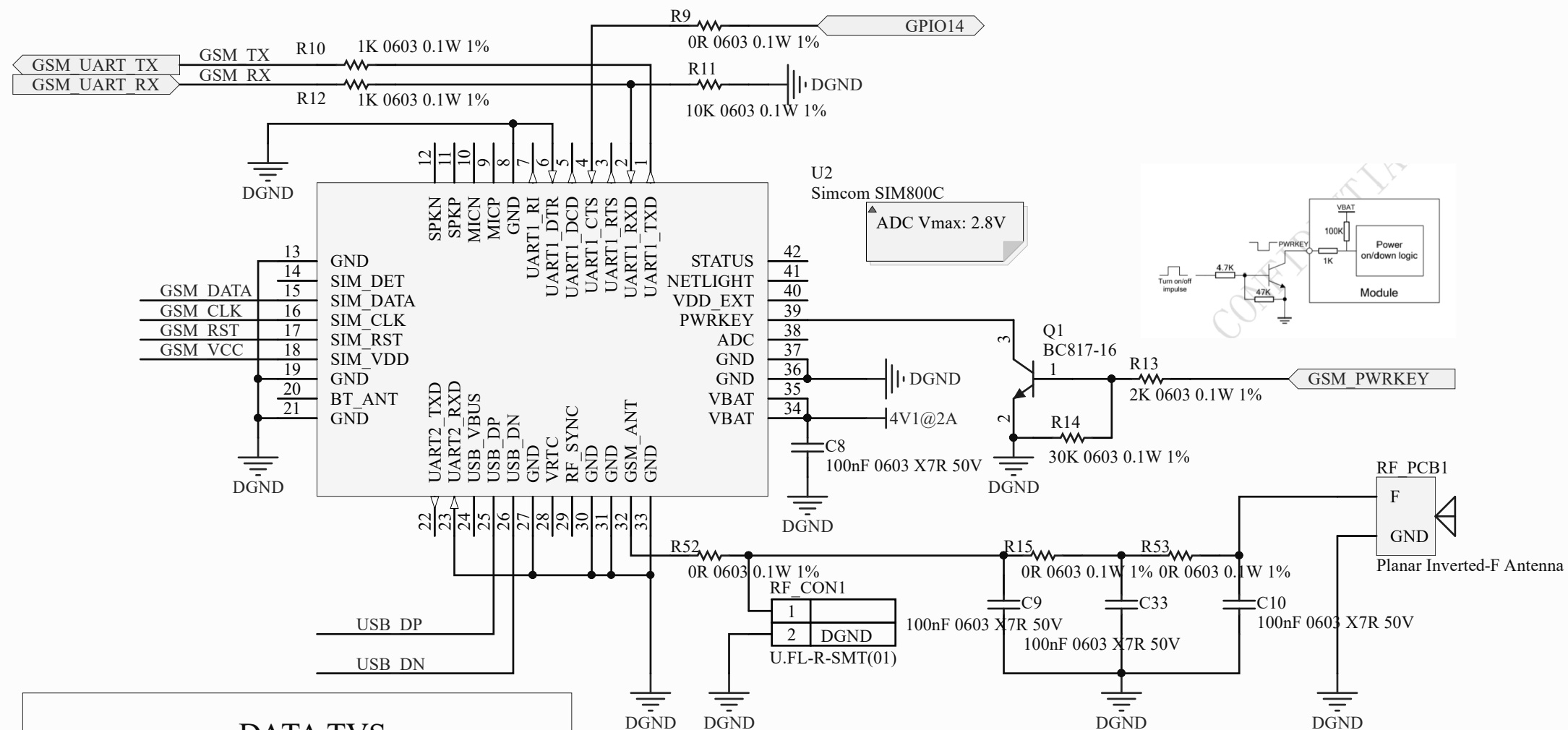
USB TP



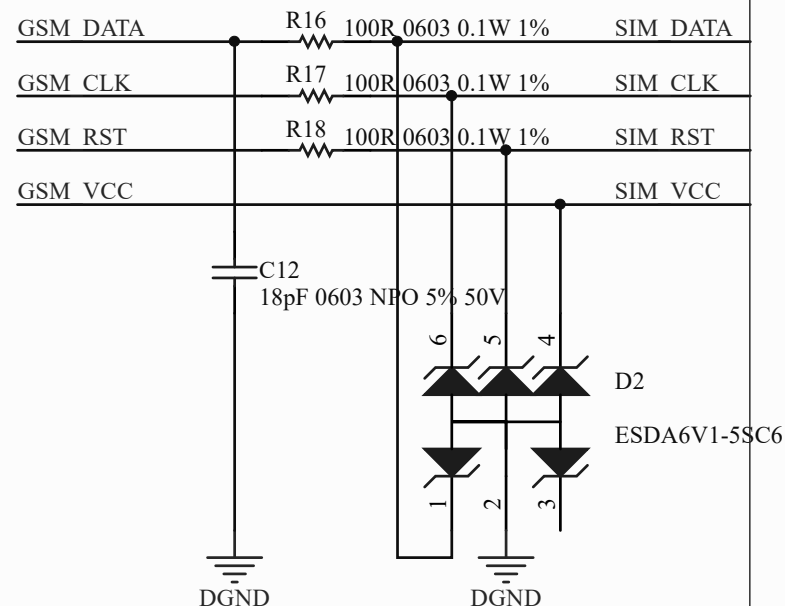
ESIM



GSM/GPRS MODULE



DATA TVS



Title GSM

Size: A3

Author: Pablo Sánchez Bergasa

Revision:2.B.1

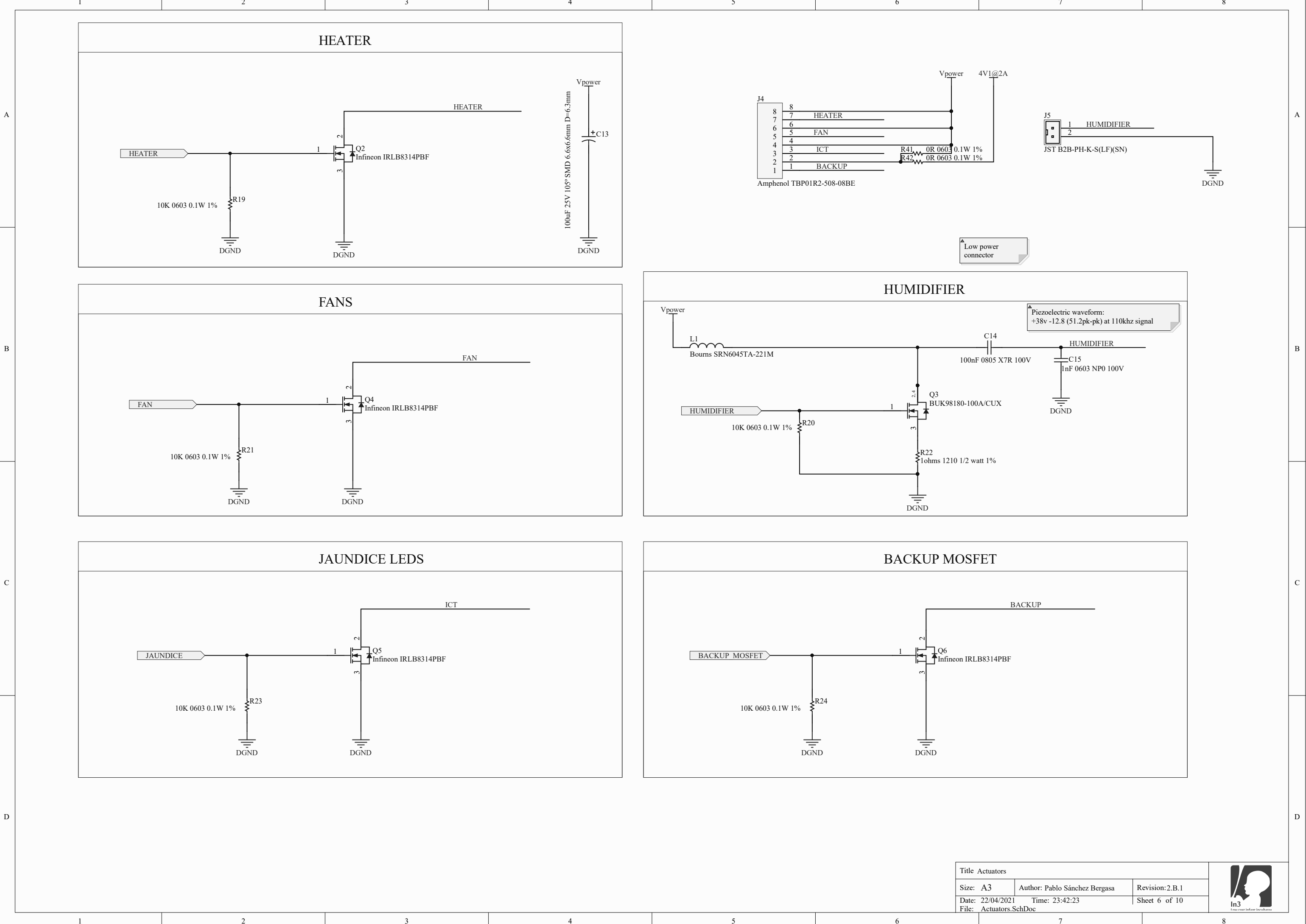
Date: 22/04/2021

Time: 23:42:22

Sheet 5 of 10

File: GSM.SchDoc





BABY THERMISTOR

3v3_an@250mA

R25
10K 0603 0.1W 1%

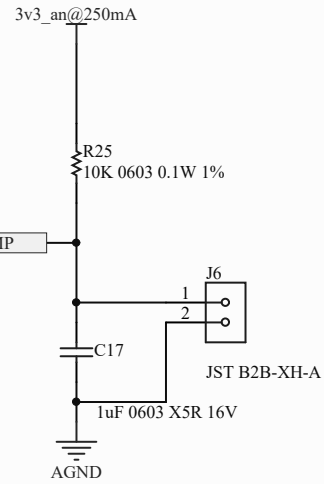
BABY TEMP

C17
1uF 0603 X5R 16V

J6
1
2

JST B2B-XH-A

AGND



AIR THERMISTOR

3v3_an@250mA

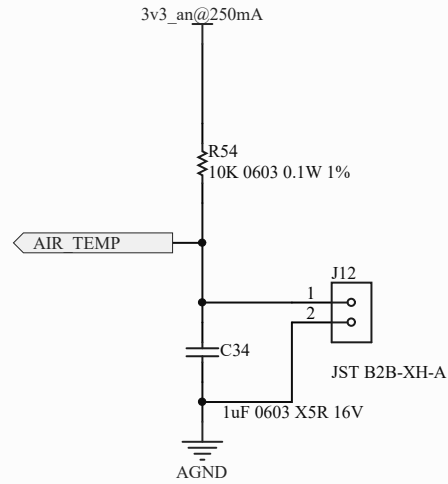
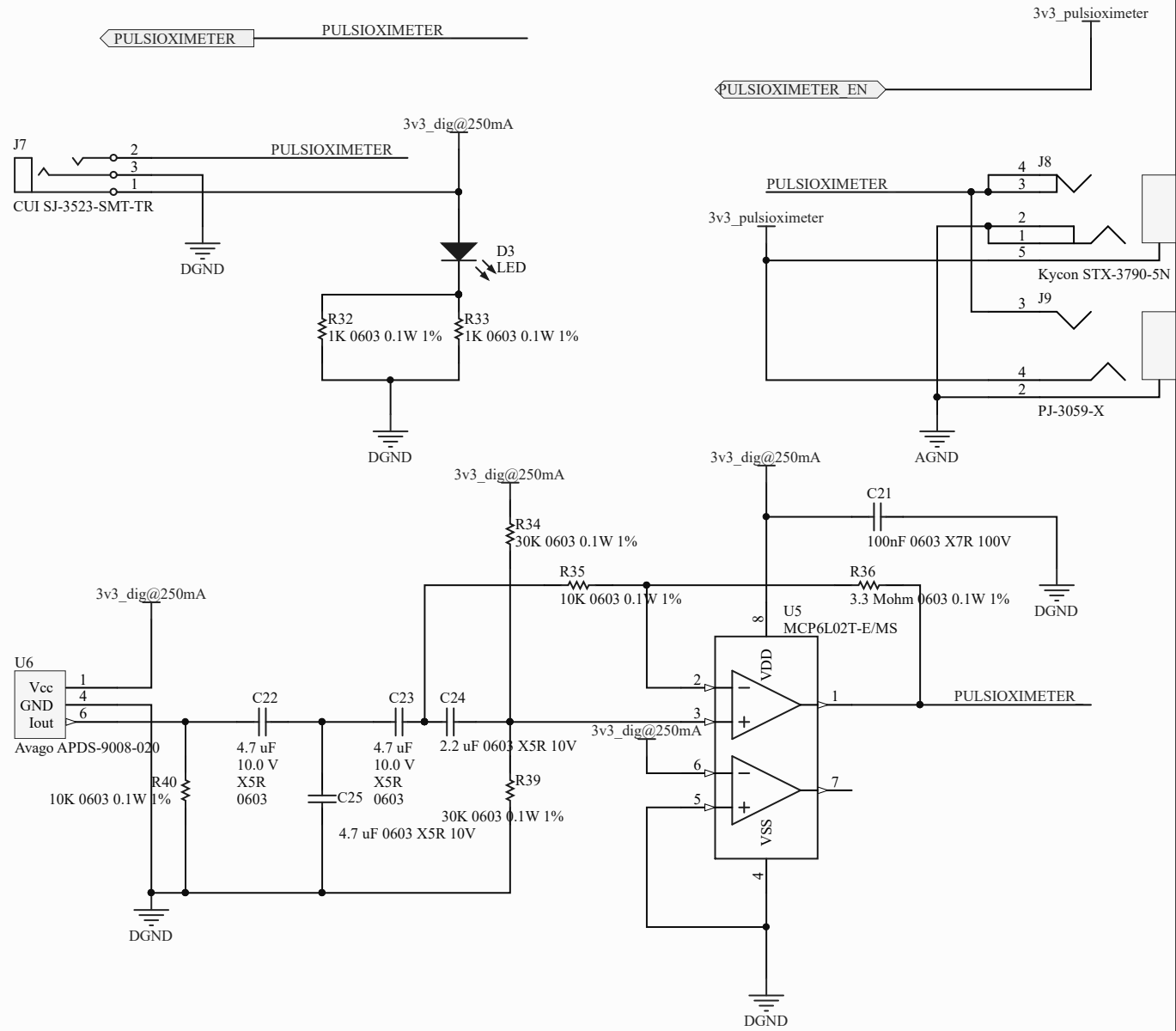
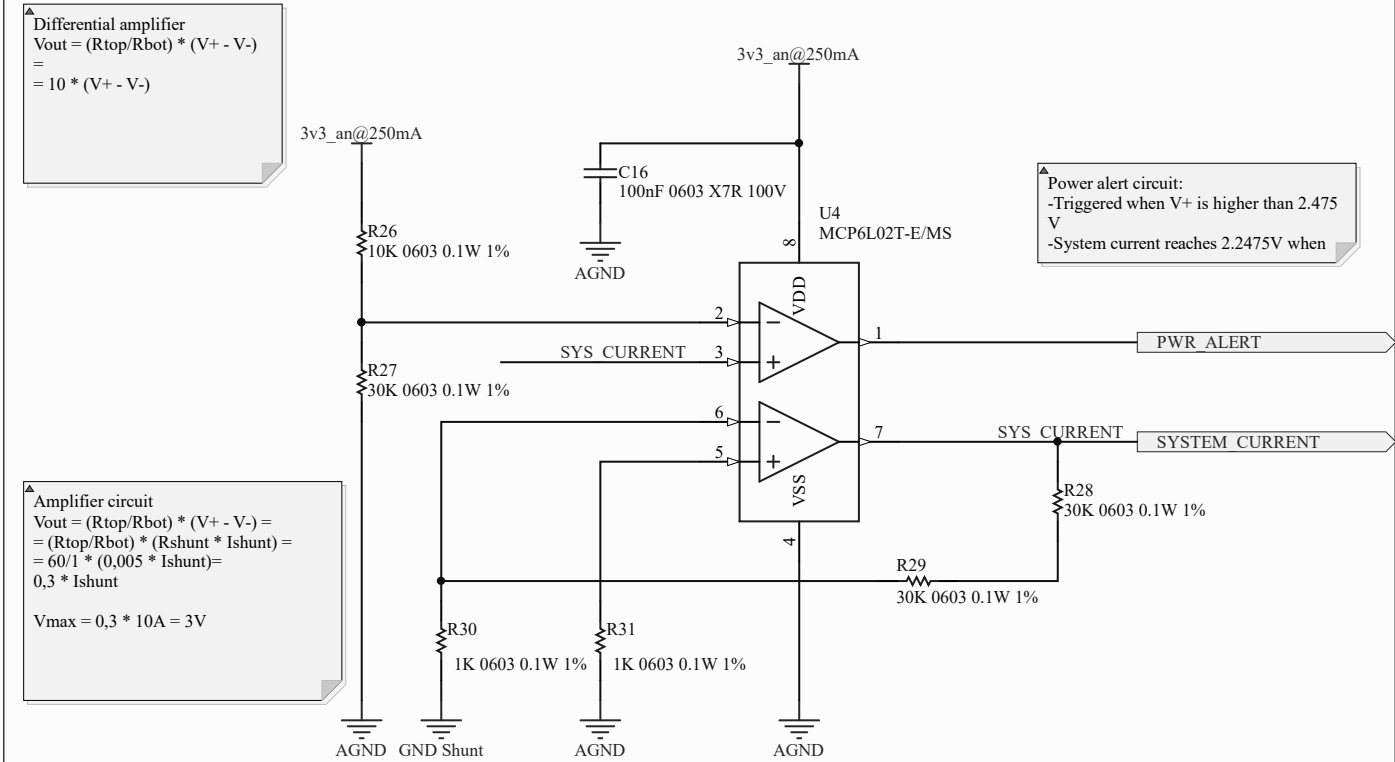
R54
10K 0603 0.1W 1%

AIR TEMP

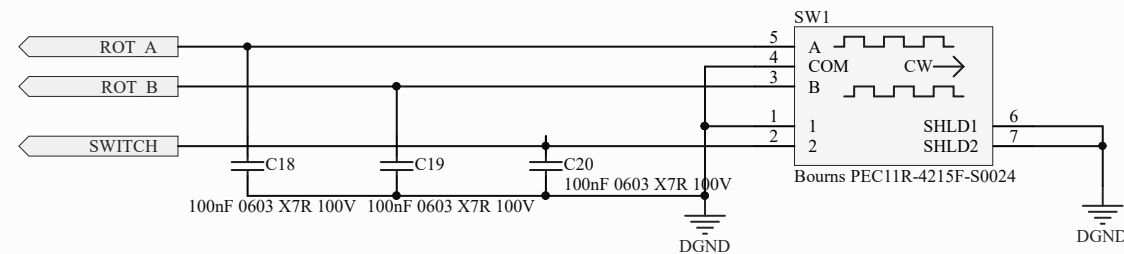
C34
1uF 0603 X5R 16V

J12
1
2
JST B2B-XH-A

AGND

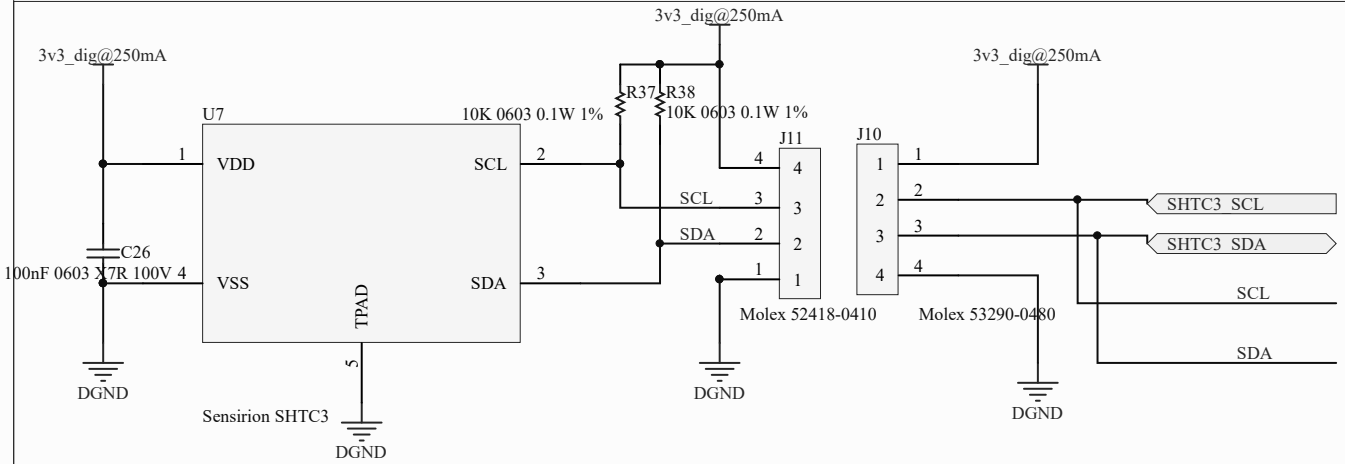
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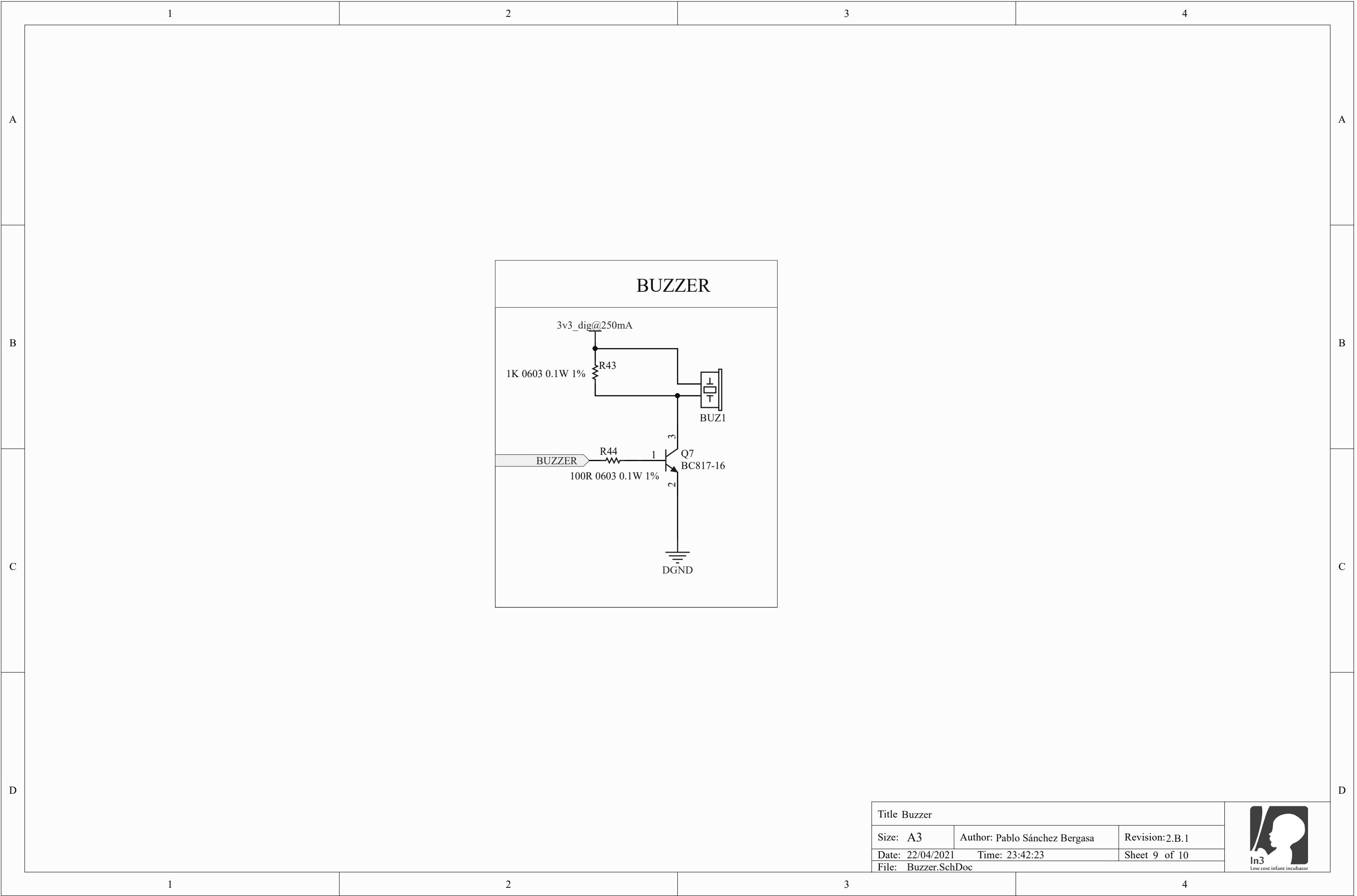
The diagram shows an encoder circuit with three inputs: ROT A, ROT B, and SWITCH. Each input line has a pull-up resistor (C18, C19, C20) connected to a common ground (DGND). The encoder is a Bourns PEC11R-4215F-S0024, which has a 5-pin input (A, COM, B) and a 6-pin output (SHLD1, SHLD2). The output lines are connected to a 6-pin connector. The encoder is labeled with 'SW1' and 'CW' (Clockwise) direction.

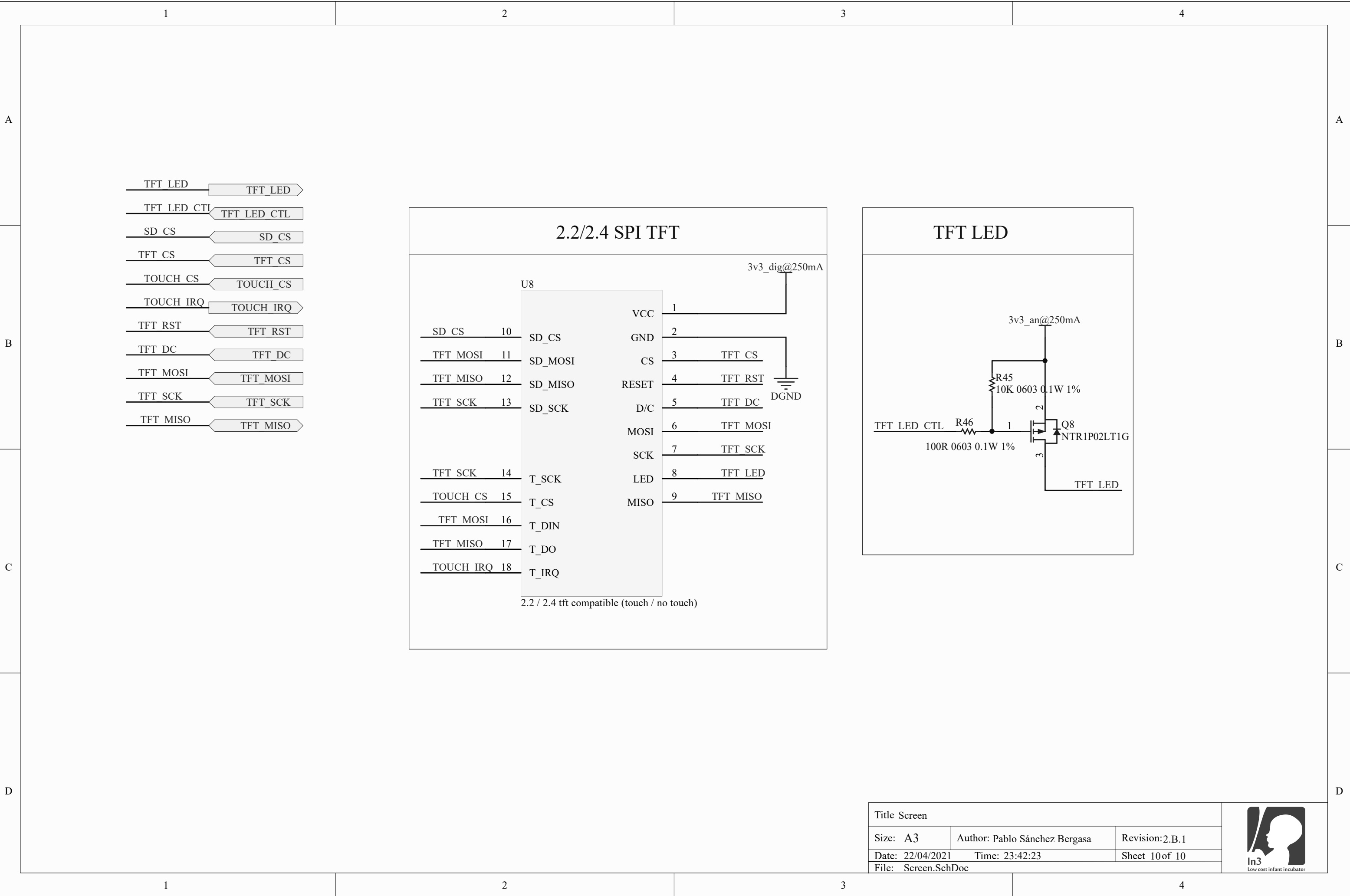


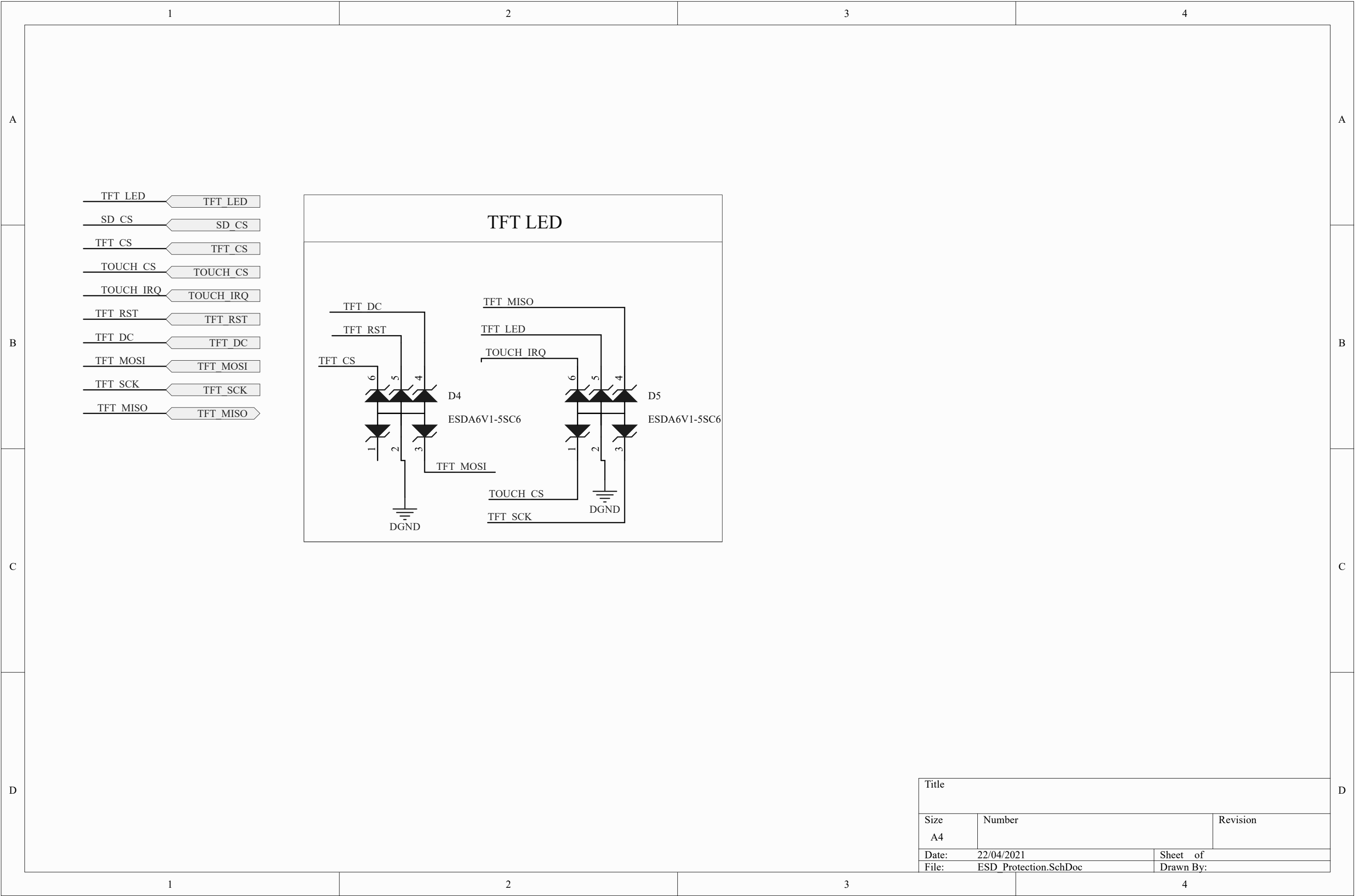
AMBIENT SENSOR

The schematic diagram illustrates the Ambient Sensor circuit. It features a Sensirion SHTC3 sensor (U7) connected to a 3V3 power supply (3v3_dig@250mA) via a 100nF capacitor (C26) and a 7R100V4 component. The sensor's VDD is connected to pin 1, and VSS is connected to pin 4. The sensor's SCL (pin 2) and SDA (pin 3) lines are connected to a 10K 0603 0.1W 1% resistor (R37) and a 10K 0603 0.1W 1% resistor (R38) respectively. The sensor's TPAD (pin 5) is connected to ground. The sensor's SCL and SDA lines are connected to a Molex 52418-0410 connector (J11) and a Molex 53290-0480 connector (J10). The Molex 53290-0480 connector is connected to a 3V3 power supply (3v3_dig@250mA) and ground. The Molex 52418-0410 connector is connected to a 3V3 power supply (3v3_dig@250mA) and ground. The Molex 53290-0480 connector is connected to a 3V3 power supply (3v3_dig@250mA) and ground.

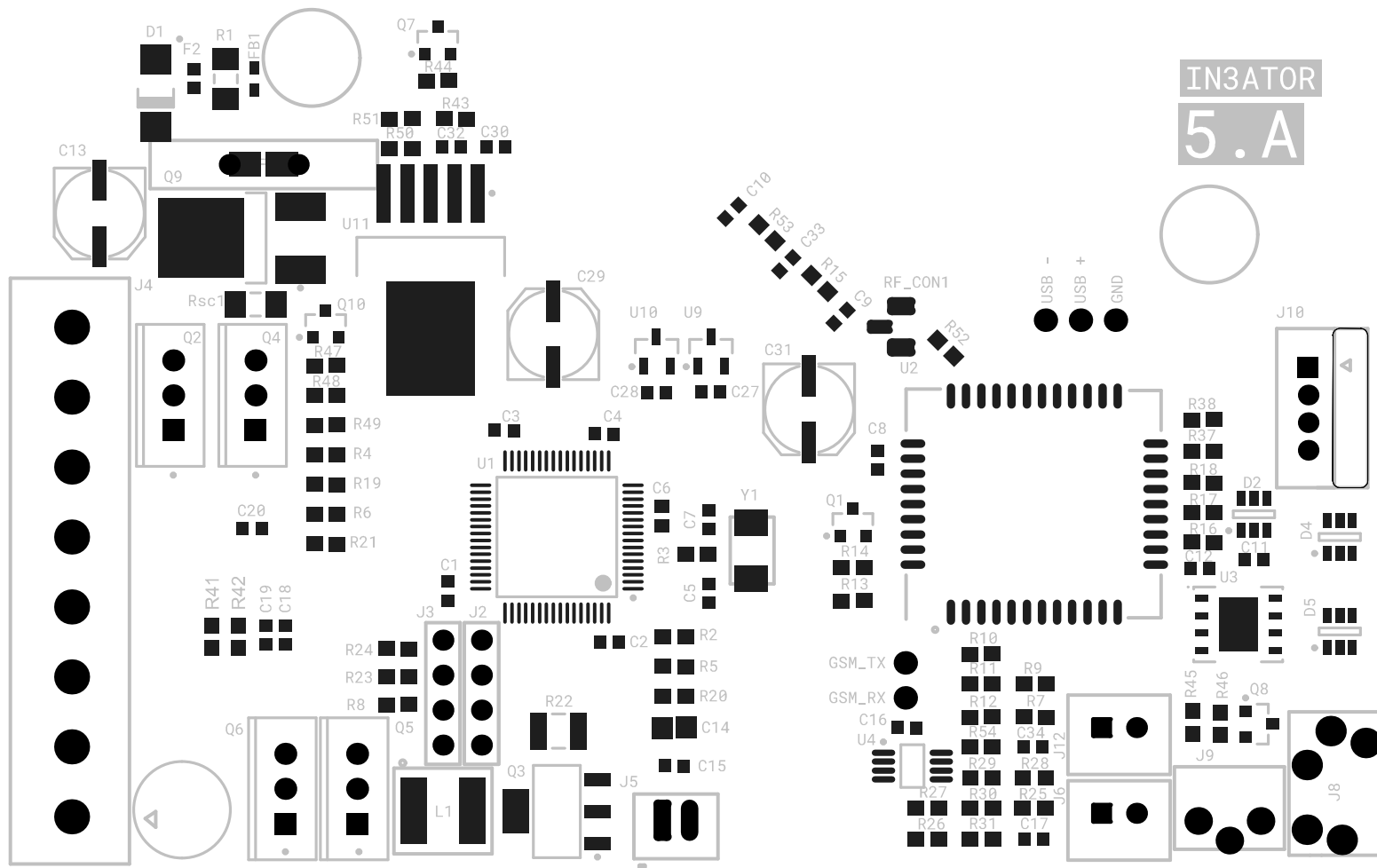




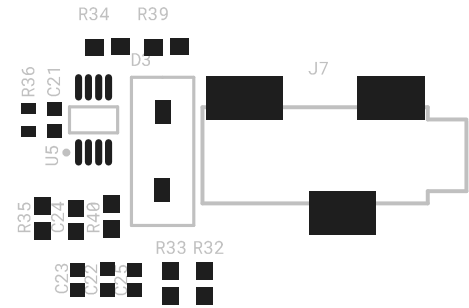


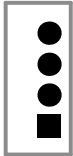


Title		
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Date:	22/04/2021	Sheet of
File:	ESD_Protection.SchDoc	Drawn By:



ENVIRONMENTAL SENSOR





FTL

PLACE ON FINGER

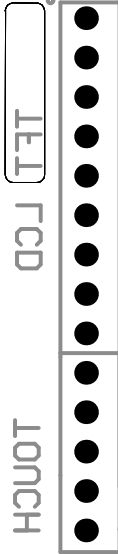


PULSE SENSOR

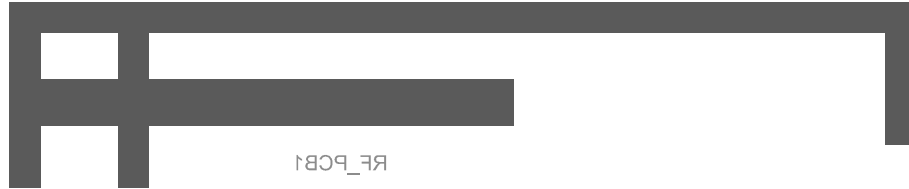
LED CONNECTOR



ENVIRONMENTAL SENSOR

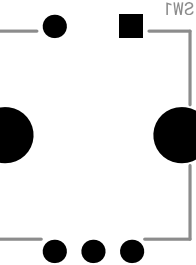


U8

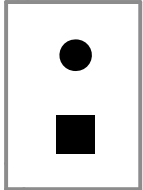


RF_PCB1

BUS1



SW1



J1