
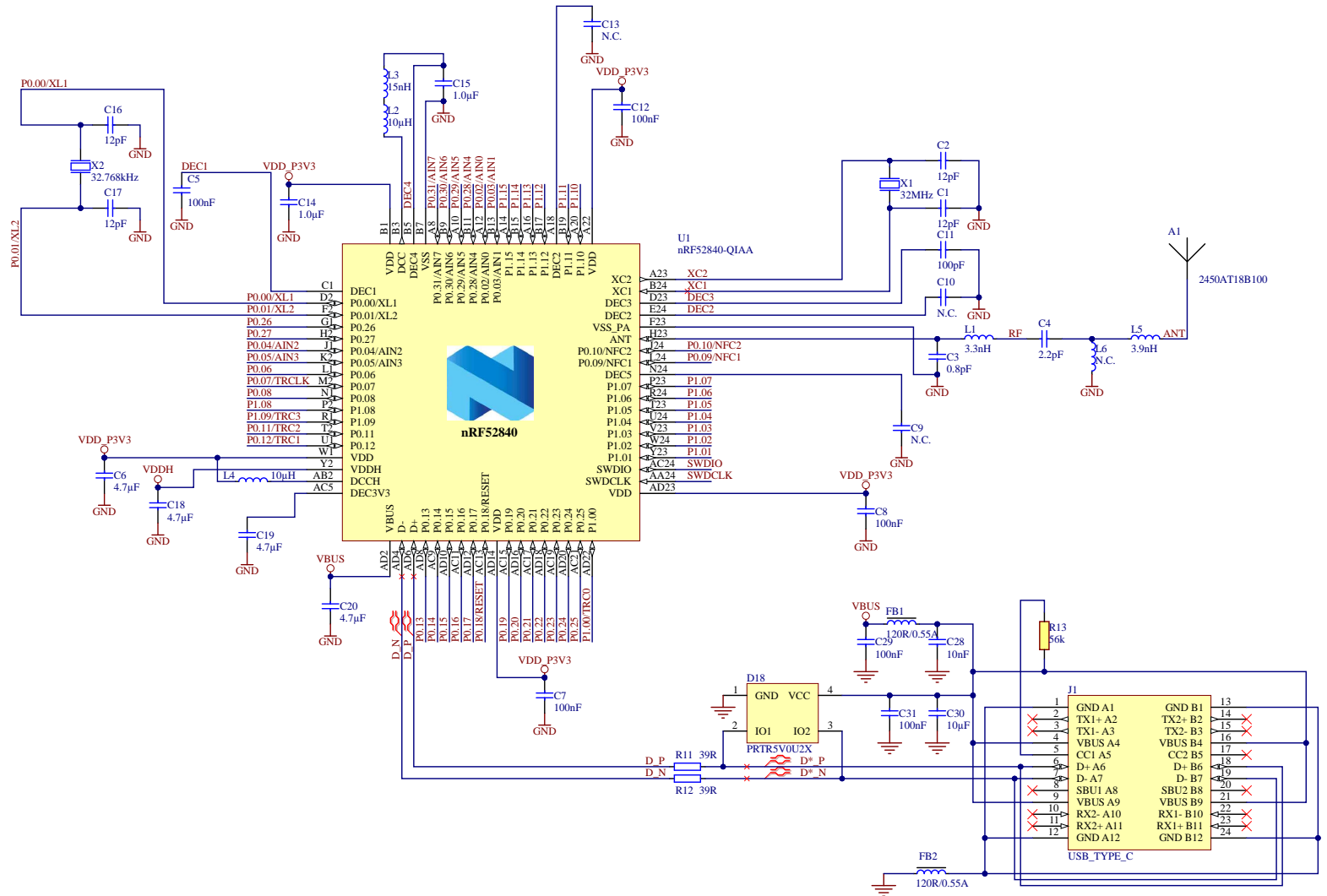
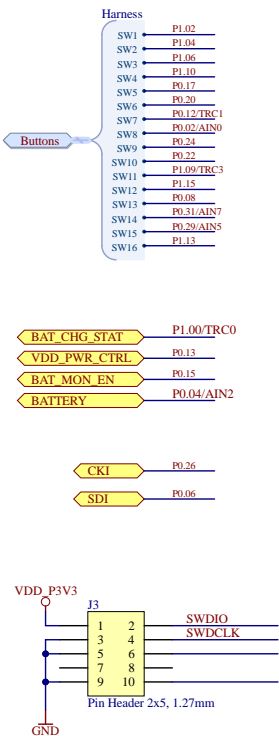
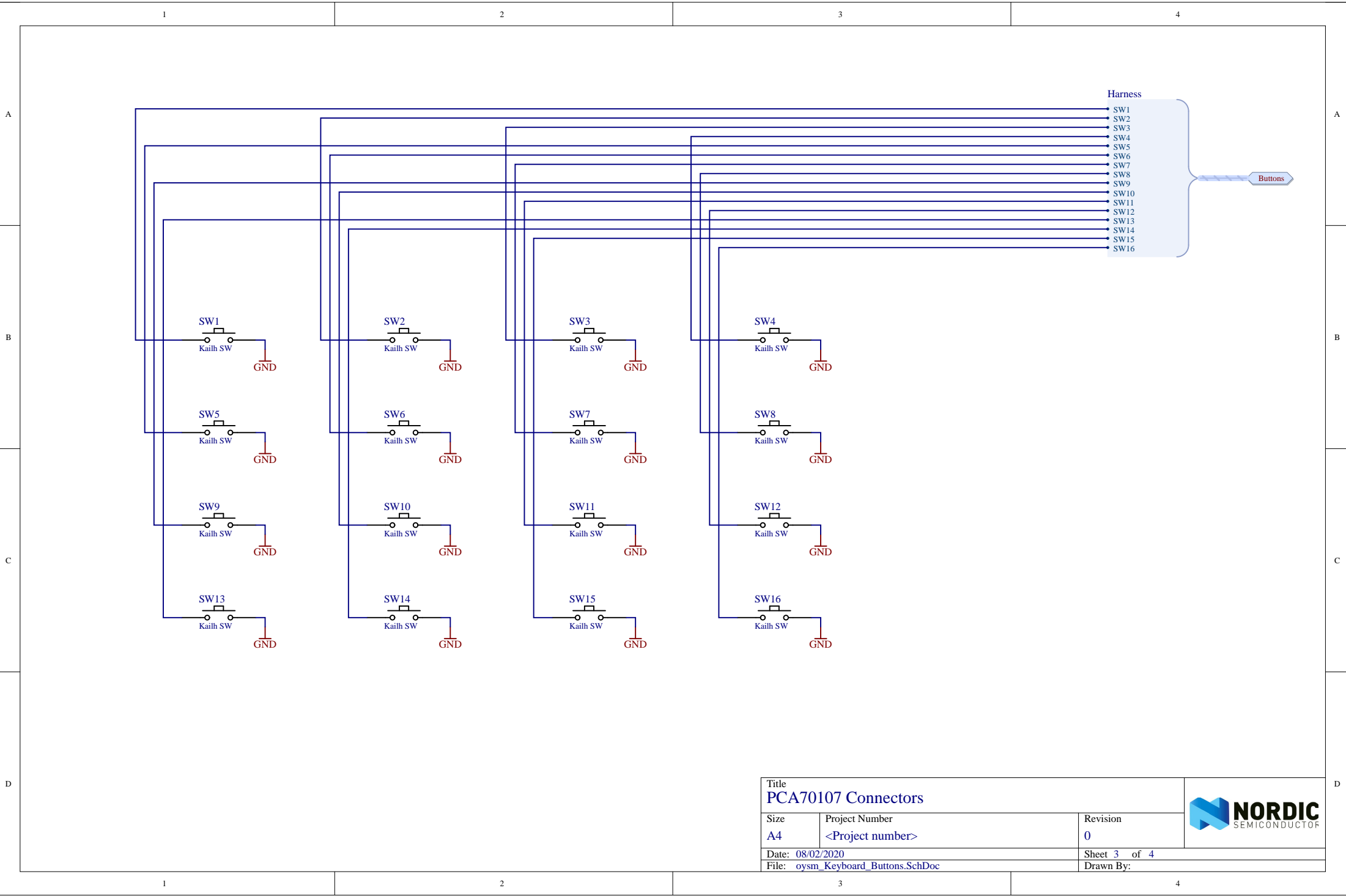



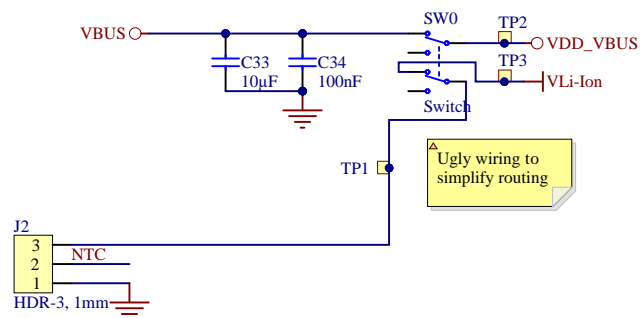
Title PCA70107 Top			
Size A4	Project Number <Project number>	Revision 0	
Date: 08/02/2020			Sheet 1 of 4
File: oysm_Keyboard_Top.SchDoc			Drawn By:



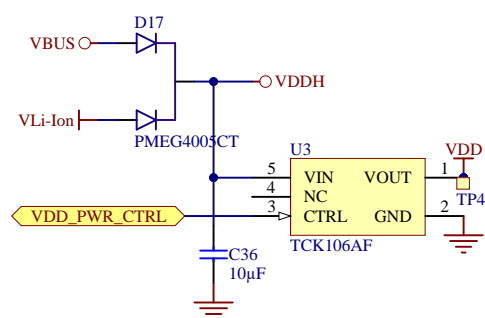


Title PCA70107 Connectors			
Size A4	Project Number <Project number>	Revision 0	
Date: 08/02/2020		Sheet 3 of 4	
File: oysm_Keyboard_Buttons.SchDoc		Drawn By:	

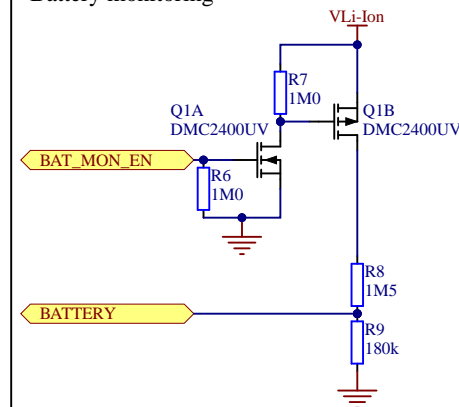
### USB- and battery connector and power switch



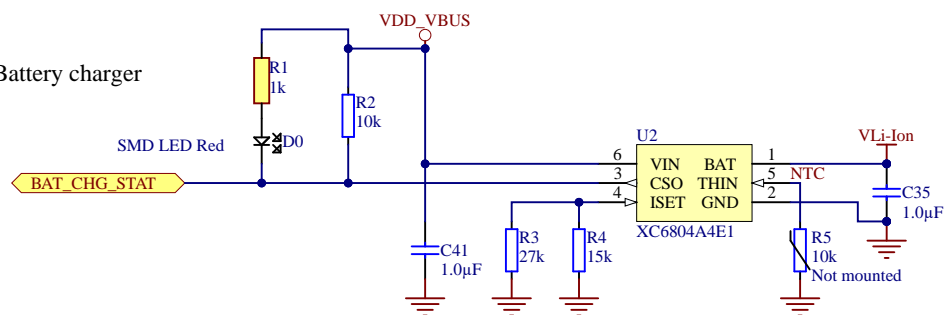
### VDD power switch



### Battery monitoring



### Battery charger



Title  
PCA20020 - Power Supply

Size  
A4

Project Number

Revision

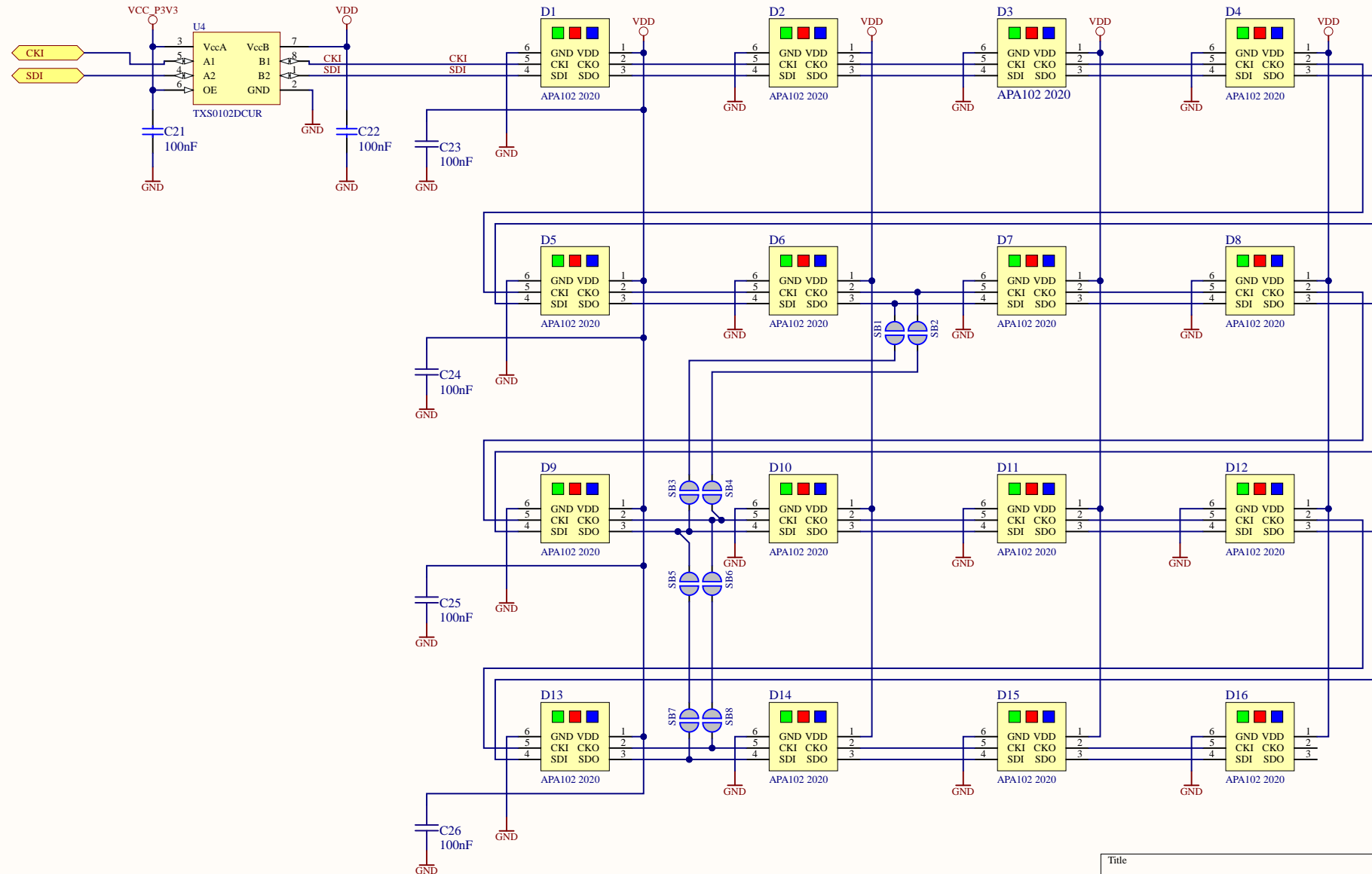
Date: 08/02/2020

Sheet 8 of 9

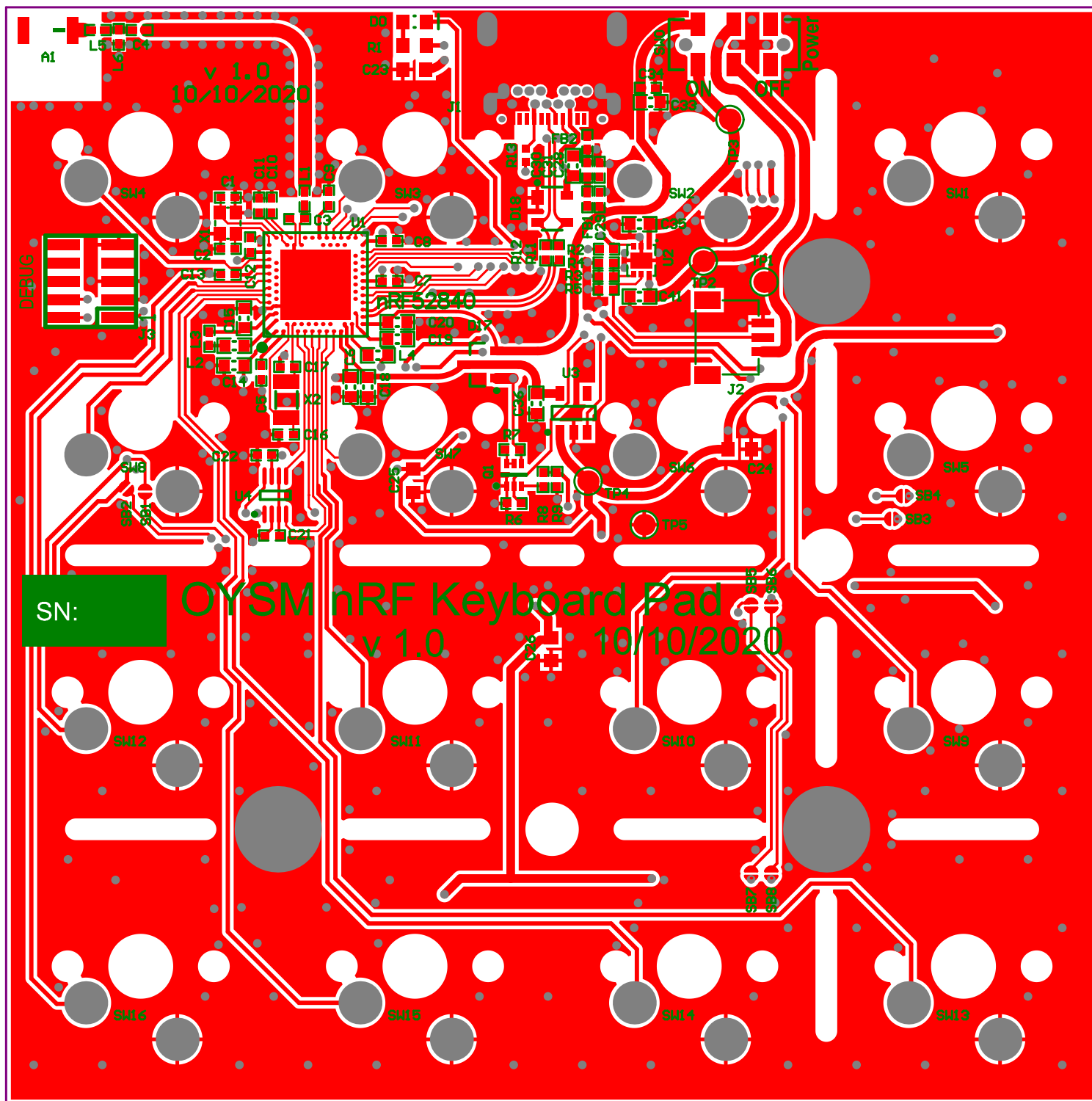
File: oysm\_Keyboard\_Power\_supply.SchDoc

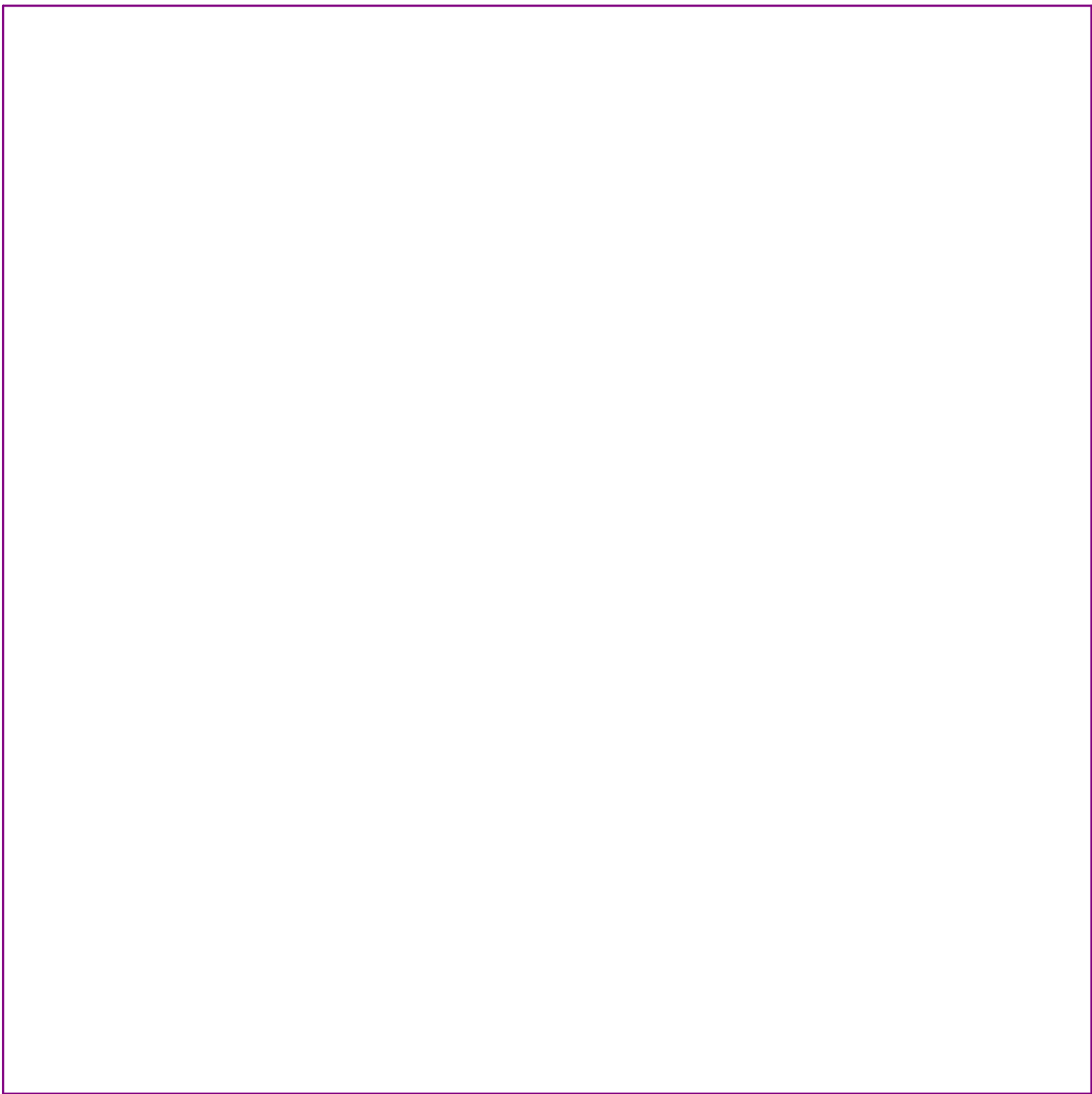
Drawn By:

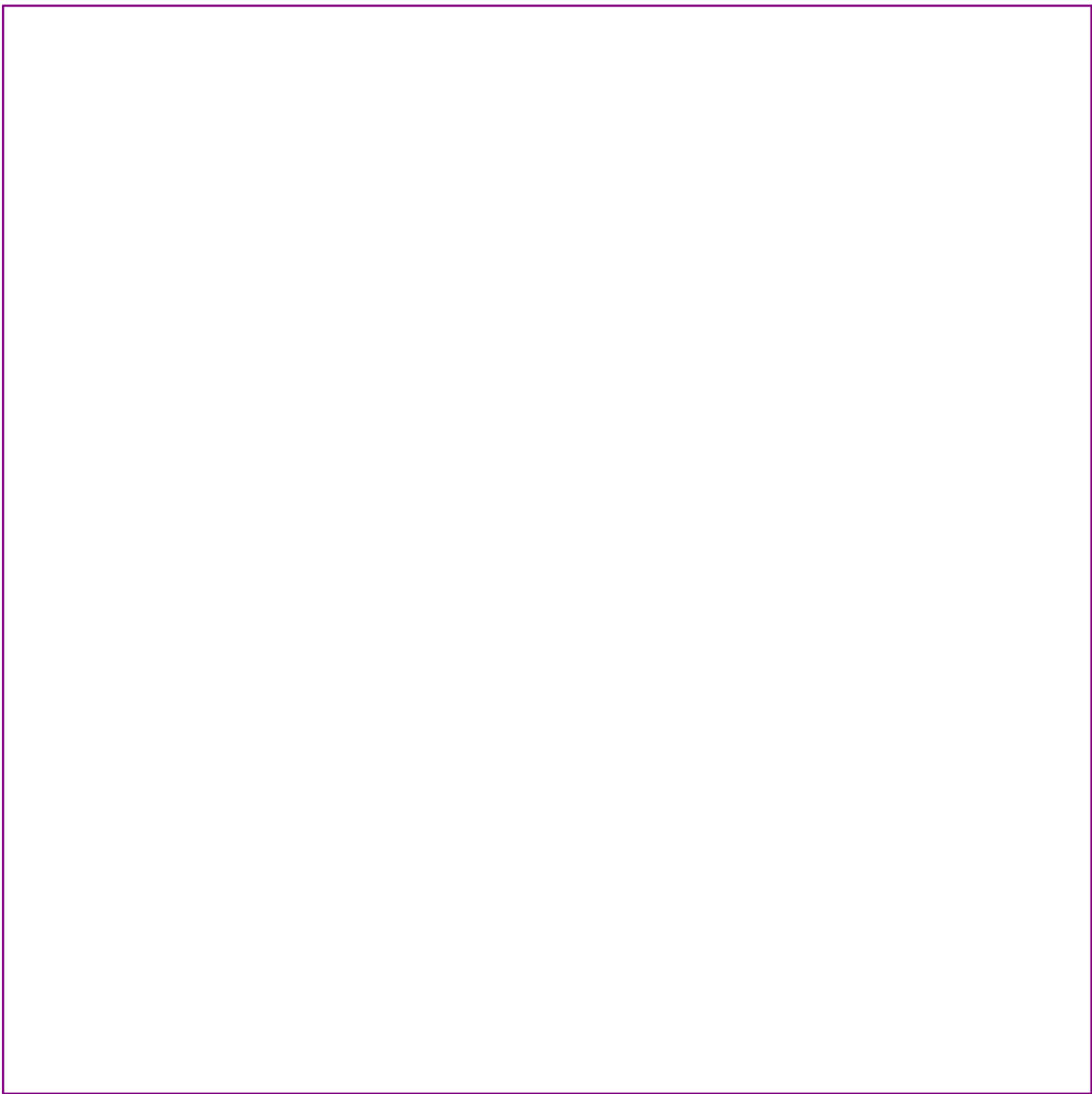




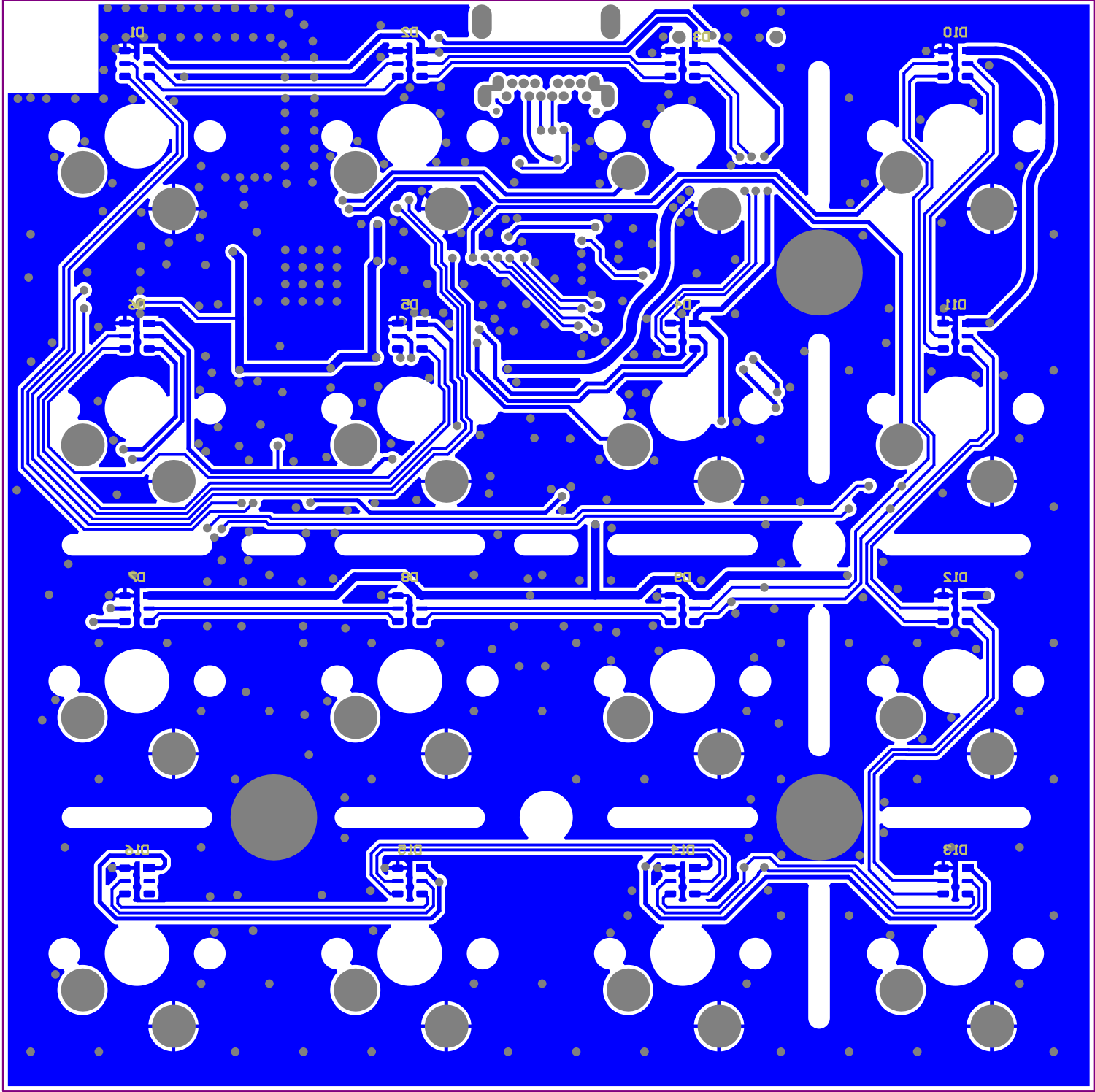
Title		
Size	Number	Revision
A4		
Date:	10/10/2020	Sheet of
File:	C:\Git\...oyasm_Keyboard_LEDs.SchDoc	Drawn By:













2nd source part number	2nd source Supplier	Artikelleinr. Noca	Comment	Description	Designator	Footprint Doc.	LibRef	Manufacturer	Manufacturer Part Number	Part Number	PCBRevision	ProjectName	ProjectNumber	Quantity	Supplier	Supplier part number	Value	Assembly	Library Reference
		N.A.		2.4G GHz chip antenna	A1	2450AT18B100		Johanson Technology	2450AT18B100	Johanson 2450AT18B100	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			2450AT18B100		Johanson 2450AT18B100
		20029159	12pF	Capacitor, NP0, ±2%	C1, C2, C16, C17	0402	C0402-12p			C0402-12p	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	4			12pF		C0402-12p
		20029147	0.8pF	Capacitor, NP0, ±5%	C3	0402	C0402-0.8p			C0402-0.8p	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			0.8pF		C0402-0.8p
		20029145	2.2pF	Capacitor, NP0, ±0.1pF	C4	0402	C0402-2.2p			C0402-2.2p	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			2.2pF		C0402-2.2p
		20029200	100nF	Capacitor, X7R, ±10%	C5, C7, C8, C12, C21, C22, C29, C31, C34	0402	C0402-100n			C0402-100n	-PCB designer code>, [NoParam]	eyim_Keyboard P (PCB	<Project number>, [NoParam]	9			100nF		C0402-100n
		20039473	4.7uF	Capacitor, X7R, ±10%, 6.3V	C6	0603	C0603-4u7-6.3V-X7R	Samsung	CL10B475K03R0N0-C	C0603-4u7-6.3V-X7R	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1	Digi-Key	1276-2087-1-ND	4.7uF		C0603-4u7-6.3V-X7R
		N.A.	N.C.	Not mounted	C9, C10, C13	0402	C0402-N.C.			C0402-N.C.	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			N.C.	Not mounted	C0402-N.C.
		20029135	100pF	Capacitor, NP0, ±5%	C11	0402	C0402-100p			C0402-100p	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			100pF		C0402-100p
		20029335, 20029282	1.0uF	Capacitor, X7R, ±10%	C14, C15, C35, C41	0603	C0603-1u0			C0603-1u0	-PCB designer code>, [NoParam]	eyim_Keyboard P (PCB	<Project number>, [NoParam]	4			1.0uF		C0603-1u0
		20069060	4.7uF	Capacitor, XSR, ±10%	C18, C19, C20	0603	C0603-4u7			C0603-4u7	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	3			4.7uF		C0603-4u7
			100nF	X7R 50V 5%	C23, C24, C25, C26		5152				-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	4					5152
		20039166	10nF	Capacitor, X7R, ±10%	C28	0402	C0402-10n			C0402-10n	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			10nF		C0402-10n
		20039234	10uF	Capacitor, XSR, ±20%	C30, C33, C36	0603	C0603-10u			C0603-10u	-PCB designer code>, [NoParam]	eyim_Keyboard P (PCB	<Project number>, [NoParam]	3			10uF		C0603-10u
				SMD LED Red	SMD	D0	5143				-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1					5143
				APA102 2020	242mm SMD RGB Addressable LED	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16	5672				-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	16					5672
				PMEG4005CT		D17	PMEG4005CT			PMEG4005CT	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1					PMEG4005CT
152-4157	Farnell	10069015		Ultra low capacitance double rail-to-rail ESD protection diode	D18	SOT-143B	PRT1RSV0UZX	NXP	PRT1RSV0UZX	PRT1RSV0UZX	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1	Digi-Key	568-4140-1-ND	PRT1RSV0UZX		PRT1RSV0UZX
151-5760	Farnell	33029317		Ferrite Bead, 120 Ohm @ 100MHz, 500mA, 250 mOhm Max	F81, F82	0402	F80402-120R@100M-500mA	Murata	BLM15AG1215D10	F80402-120R@100M-500mA	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	2	Digi-Key	490-1005-1-ND	120R@100M-500mA		F80402-120R@100M-500mA
			URL_TYF_C	TH and SMD	J1		5676				-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1					5676
		N.A.	HER-3, 1mm	1.0mm pitch connector side entry SMD	J2	SM03B-SR55-TB	SM03B-SR55-TB	IST	SM03B-SR55-TB(UFJ)SN	SM03B-SR55-TB	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			HER-3, 1mm		SM03B-SR55-TB
FTSH-105-01-F-DW-K	Samtec	55010009		Pin Header 2x5, 1.27mm (50mil) SMD, Keying Shroud	J3	HDR_2x5-SMD-1.27mm	Pin Header 2x5 SMD, 1.27mm, KS	W-CON	3132-10M50BK00R1	Pin Header 2x5 SMD, 1.27mm, KS	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1	Cablecon	3132-10M50BK00R1	Pin Header 2x5, 1.27mm		Pin Header 2x5 SMD, 1.27mm, KS
		33029369	3.3nH	Inductor, 30mA, ±0.1nH	L1	0402	L0402-3n3	Murata	LQP15MN3N3802-D	L0402-3n3	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1	Digi-Key	490-1130-1-ND	3.3nH		L0402-3n3
178-6105	Farnell	33029314	10uH	Inductor, 80mA, ±10%	L2, L4	0603	L0603-10u	Taiyo Yuden	LBMT160BT100K	L0603-10u	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	2	Digi-Key	587-1714-1-ND	10uH		L0603-10u
658-1328	Farnell	33029323	15nH	Inductor, 20mA, ±5%	L3	0402	L0402-15n	Taiyo Yuden	HK100515N1-T	L0402-15n	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1	Digi-Key	587-1521-1-ND	15nH		L0402-15n
		33029151	3.9nH	Inductor, 170mA, ±0.1nH	L5	0402	L0402-3n9	Murata	LQP15MN3N9802-D	L0402-3n9	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			3.9nH		L0402-3n9
		N.A.	N.C.	Not mounted	L6	0402	L0402-N.C.			L0402-N.C.	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			N.C.	Not mounted	L0402-N.C.
		N.A.	DMC2400UV	Dual N & P Ch MOSFET, 1.5A/6.7A, 480mOhm, 450mW	O1	SOT-563	DMC2400UV	Diodes Incorporated	DMC2400UV	DMC2400UV	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			DMC2400UV		DMC2400UV
			1k	0.1W 1% Thick film resistor	R1		5389				-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1					5389
		27049097	10k	Resistor, ±1%, 0.063W	R2	0402	R0402-10k			R0402-10k	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			10k		R0402-10k
		27049107	27k	Resistor, ±1%, 0.063W	R3	0402	R0402-27k			R0402-27k	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			27k		R0402-27k
		27049101	15k	Resistor, ±1%, 0.063W	R4	0402	R0402-15k			R0402-15k	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			15k		R0402-15k
		N.A.	10k	TEMPERSTOR 10K OHM NTC 0402 SMD	R5	0402	NCP150H103F03R-C	Murata	NCP150H103F03R-C	NCP150H103F03R-C	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			10k	Not mounted	NCP150H103F03R-C
		27049145	1M0	Resistor, ±1%, 0.063W	R6, R7	0402	R0402-1M0			R0402-1M0	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	2			1M0		R0402-1M0
		27049149	1M5	Resistor, ±1%, 0.063W	R8	0402	R0402-1M5			R0402-1M5	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			1M5		R0402-1M5
		27049127	180k	Resistor, ±1%, 0.063W	R9	0402	R0402-180k			R0402-180k	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			180k		R0402-180k
		27049039	39R	Resistor, ±1%, 0.063W	R11, R12	0402	R0402-39R			R0402-39R	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	2	Farnell	173-8831	39R		R0402-39R
			56k	0.1W 1% Thick film resistor	R13		5677				-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1					5677
		N.A.	Switch	SMD slide Switch (ON-ON)	SW0		Switch Slide-RA-3 Lead-DPDT- 8.5x3.5mm_C&K	C&K Components	IS200211AQN	Switch Slide-RA-3 Lead-DPDT- 8.5x3.5mm_C&K	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			Switch		Switch Slide-RA-3 Lead-DPDT- 8.5x3.5mm_C&K
			Kaili SW				SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11, SW12, SW13, SW14, SW15, SW16		5669		-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	16					5669
		15079344	±RFS284D-Q1AA	Multi-protocol Bluetooth Low Energy, IEEE 802.15.4, ANT and 2.4GHz proprietary system-on-chip. One Cell Li-ion/Li-polymer Linear Charger IC with Battery Temperature Detection	U1	AGFN-73	±RFS284D-Q1AAAA	Nordic Semiconductor	±RFS284D-Q1AAAA	±RFS284D-Q1AAAA	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1	Nordic Semiconductor	±RFS284D-Q1AAAA	±RFS284D-Q1AA		±RFS284D-Q1AAAA
		N.A.	KC6804A4E1	Chen Cell Li-ion/Li-polymer Linear Charger IC with Battery Temperature Detection	U2	USP-4EL	KC6804A4E14R-G	Torex Semiconductor	KC6804A4E14R-G	KC6804A4E14R-G	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			KC6804A4E1		KC6804A4E14R-G
		15070086	TCX106AF	1.0A Load Switch IC with Slow Rate Control Driver in Small Package	U3	SOT-25	TCX106AF_LF	Toshiba	TCX106AF_LF	TCX106AF_LF	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			TCX106AF		TCX106AF_LF
		N.A.	TXS0102DCUR	IC VOLT-LEVEL TRANSLATOR 8-UISA	U4	B-VFSOP	TXS0102DCUR	Texas Instruments	TXS0102DCUR	TXS0102DCUR	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1			TXS0102DCUR		TXS0102DCUR
		22019238	32MHz	XTAL SMD 2016, 32MHz, CL-Bpf, Tol: ±10ppm, Slib: ±10ppm	X1	XTAL_2016	XTAL_SMD2016_32MHz_Bpf_Epson	Epson Toyocom	02ZF A12800025	XTAL_SMD2016_32MHz_Bpf_Epson	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1	Farnell	171-2806	32MHz		XTAL_SMD2016_32MHz_Bpf_Epson
		22019249	32.768kHz	XTAL SMD 3275, 32.768kHz, 9pF, ±20ppm, -40°C - 125°C	X2	XTAL_3275	XTAL_SMD3275_32.768kHz_9pF_Ayocera_HT	Kyocera	ST3215S83276803P5ZB1	XTAL_SMD3275_32.768kHz_9pF_Ayocera_HT	-PCB designer code>	eyim_Keyboard P (PCB	<Project number>	1	Digi-Key	1253-1402-1-ND	32.768kHz		XTAL_SMD3275_32.768kHz_9pF_Ayocera_HT