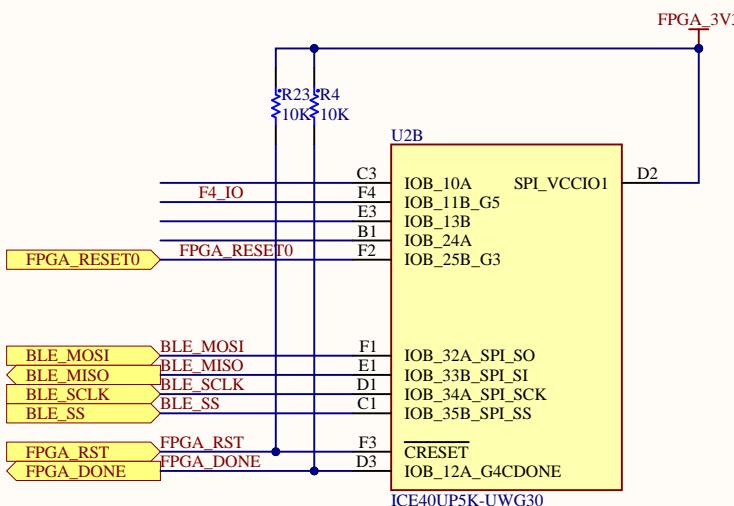
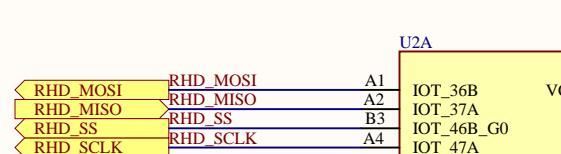
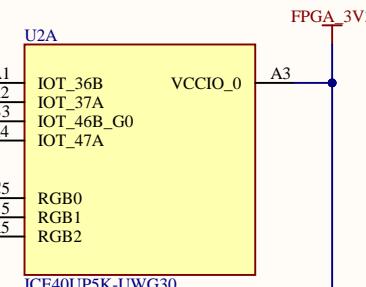


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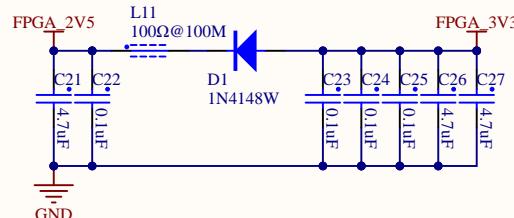
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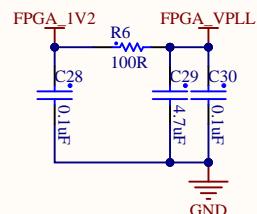
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A  
BFPGA\_3V3  
TP TP16

C

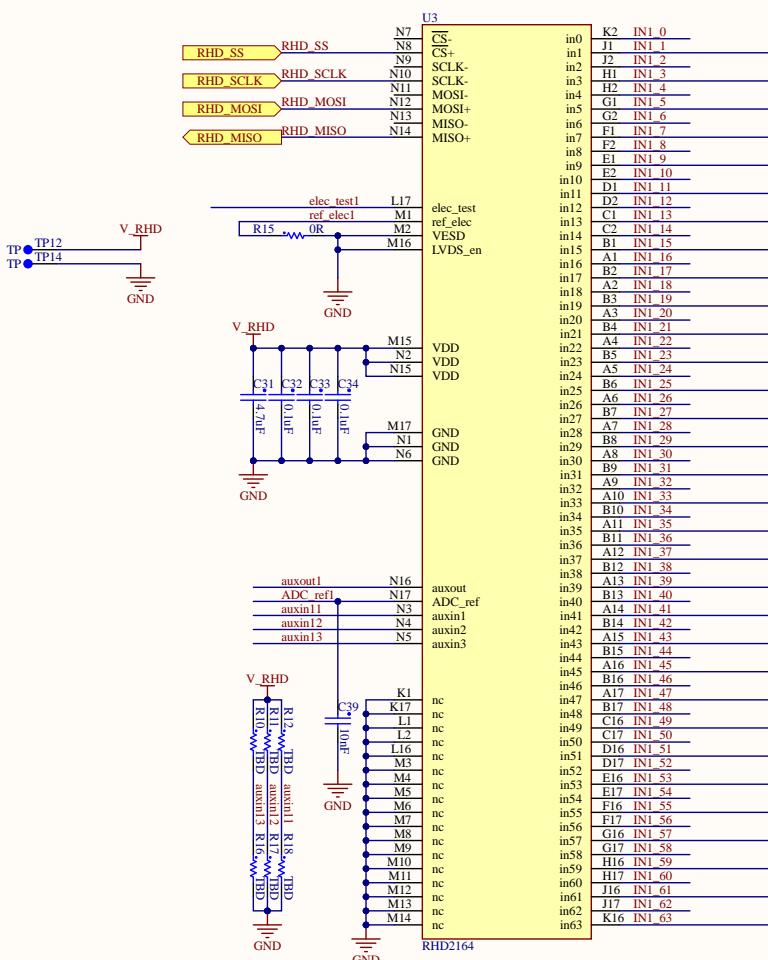


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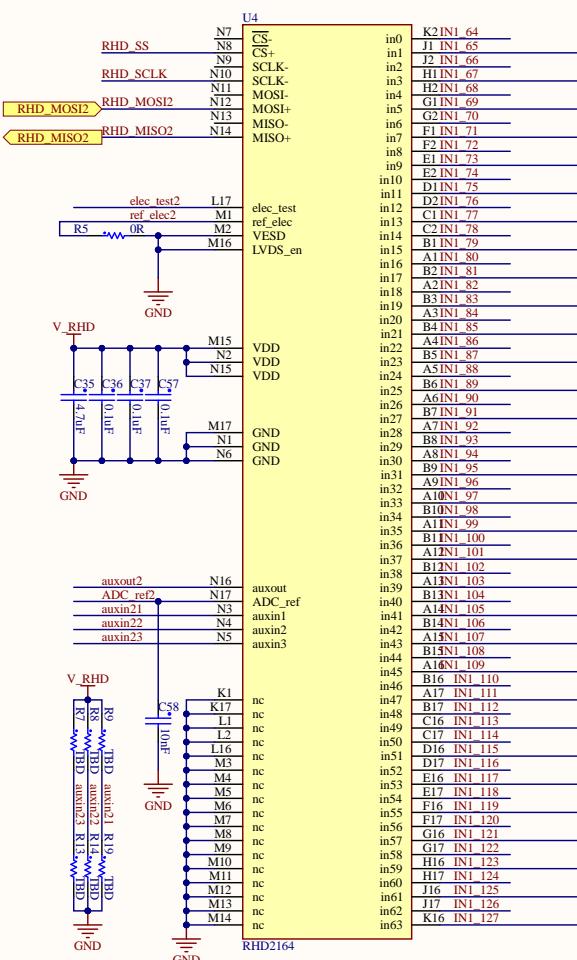


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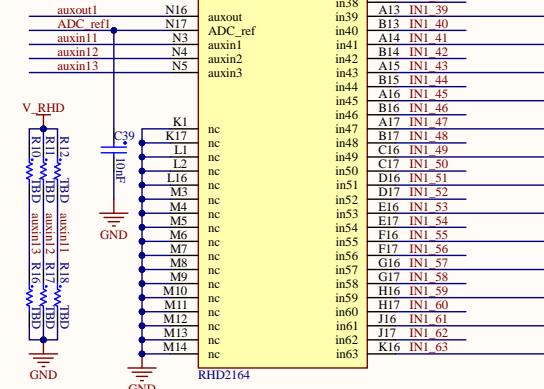
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B



C

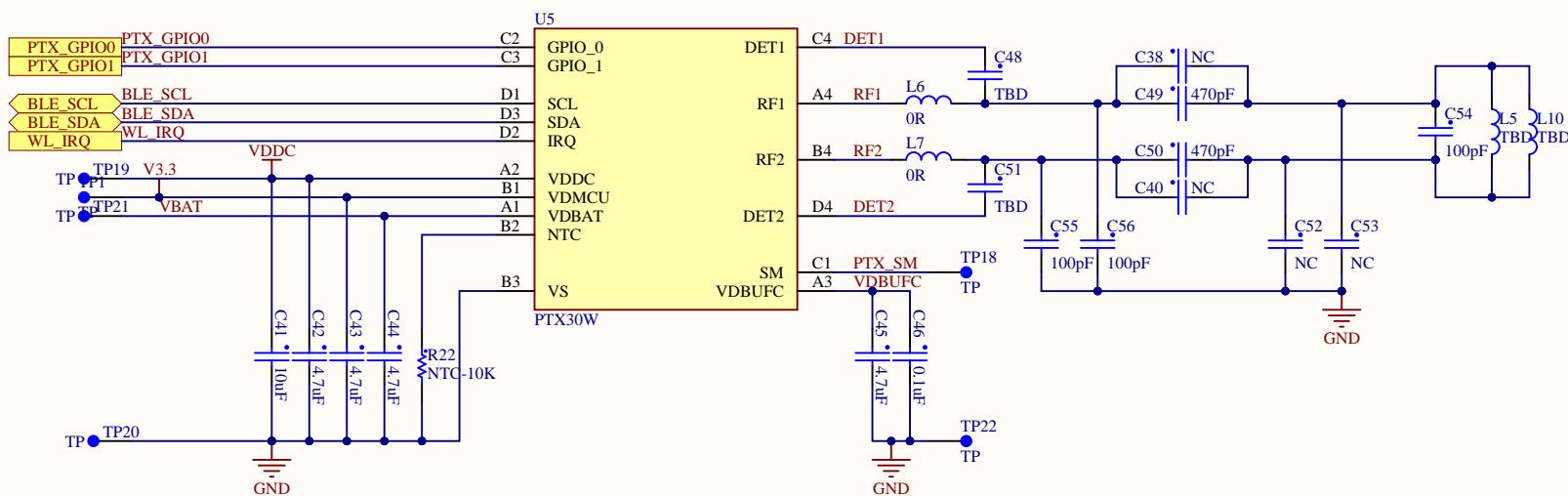


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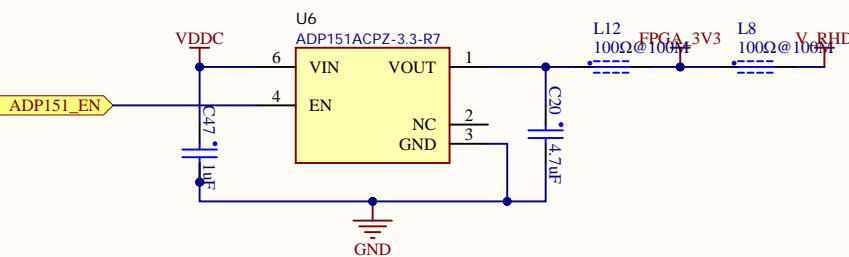
1 2 3 4

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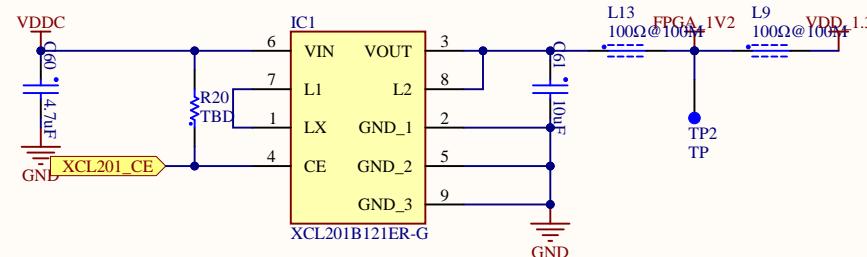
A

B



B

C



C

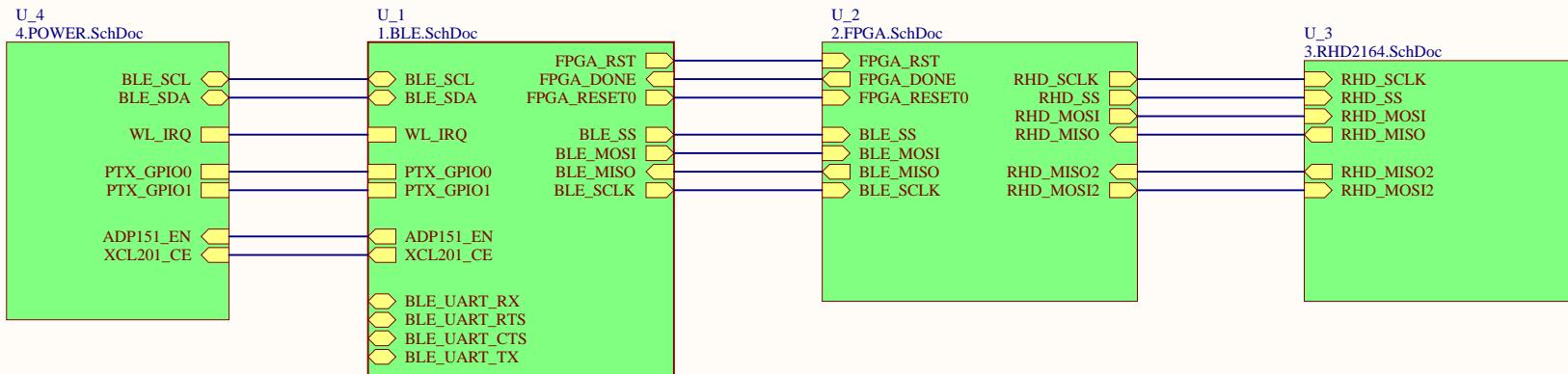
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Title		
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1 2 3 4

A

A



B

B

C

C

D

D

Title

Size

A4

Number

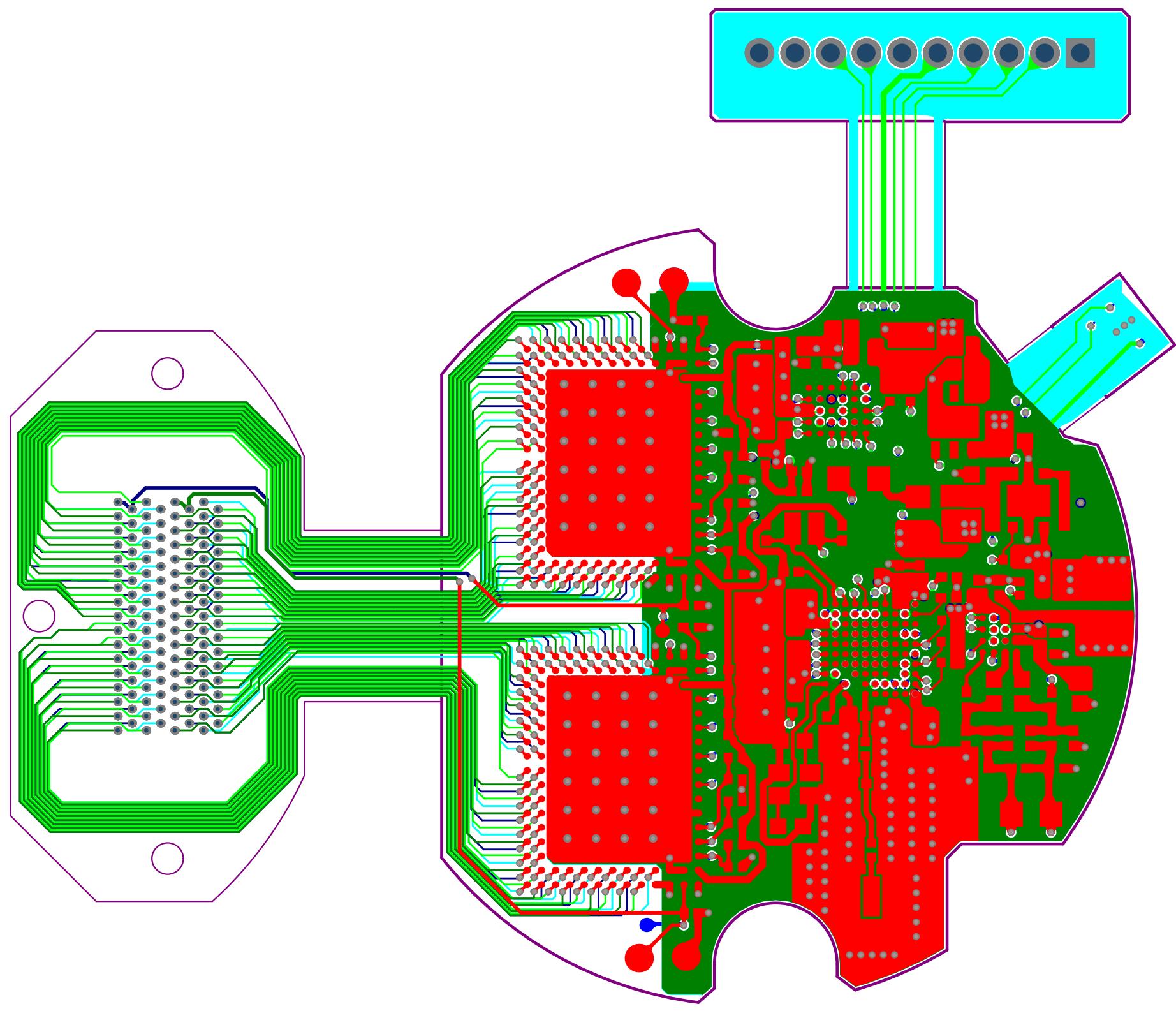
Revision

Date: 1/21/2026

Sheet of

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Drawn By:



Comment	Description	Designator	Footprint	Quantity
0.1uF		C1, C9, C11, C12, C13, C14, C18, C19, C22, C23, C24, C25, C28, C30, C32, C33, C34, C36, C37, C46, C57	0201(C)	21
4.7uF		C2, C45	0402(C)-L	2
12pF		C3, C5	0402(C)	2
12pF		C4, C6	0201(C)	2
2pF		C7	0201(C)	1
820pF		C10	0201(C)	1
4.7uF		C15, C16, C17, C21, C26, C27, C29, C31, C35, C42, C43, C44, C59, C60	0201(C)	14
4.7uF		C20	0402(C)	1
10nF		C39, C58	0201(C)	2
10uF		C41	0402(C)-L	1
1uF		C47	0201(C)	1
470pF		C49, C50	0201(C)	2
100pF		C54, C55, C56	0201(C)	3
10uF		C61	0402(C)	1
1N4148W		D1	DFN-2L_L1.0-W0.6-P0.65-RD	1
XCL201B121ER-G	Integrated Circuit	IC1	XCL201B331ERG	1
SHT43	Integrated Circuit	IC2	SON80P150X150_X59-5N	1
IPEX4	SMB Straight Connector	J1	IPEX4-SMD_4P-L1.8-W1.7-LS2.0-L_KH-IPEX4-2020	1
15nH		L1	0603(L)	1
10uH		L2	0603(L)	1
2nH		L3	0201(R)	1
0R	[NoValue], Semiconductor Resistor	L4, R5, R15	0201(R)	3
0R	INDUCTOR SMT	L6, L7	0402(R)	2
100Ω@100M		L8, L11, L12, L13	0201(R)	4
Header 10	Header, 10-Pin	P2	CONN-TH_DF13-10P-1.25DSA	1
4.7K	Semiconductor Resistor	R1, R2, R3	0201(R)	3
10K	Semiconductor Resistor	R4, R23	0201(R)	2
100R	Semiconductor Resistor	R6	0201(R)	1
NTC-10K	Semiconductor Resistor	R22	0201(R)	1
NRF52840-CKAA		U1	WLCSP-100	1
ICE40UP5K-UWG30		U2	WLCSP-30	1
RHD2164		U3, U4	BGA-RHD2164	2
PTX30W		U5	WLCSP4×4	1
ADP151ACPZ-3.3-R7		U6	LFCSP-6_L2.0-W2.0-P0.65-TL-EP	1
32M		Y1	CRYSTAL-SMD_4P-L1.6-W1.2-BL	1
32.768K		Y2	CRYSTAL-SMD_L1.2-W1.0	1