CNIT Technologies Co.,Ltd.			
BOARDTYPE	BP−4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 1 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 2 OF 190	REV
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CNIT Technologies Co.,Ltd.			
BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 20 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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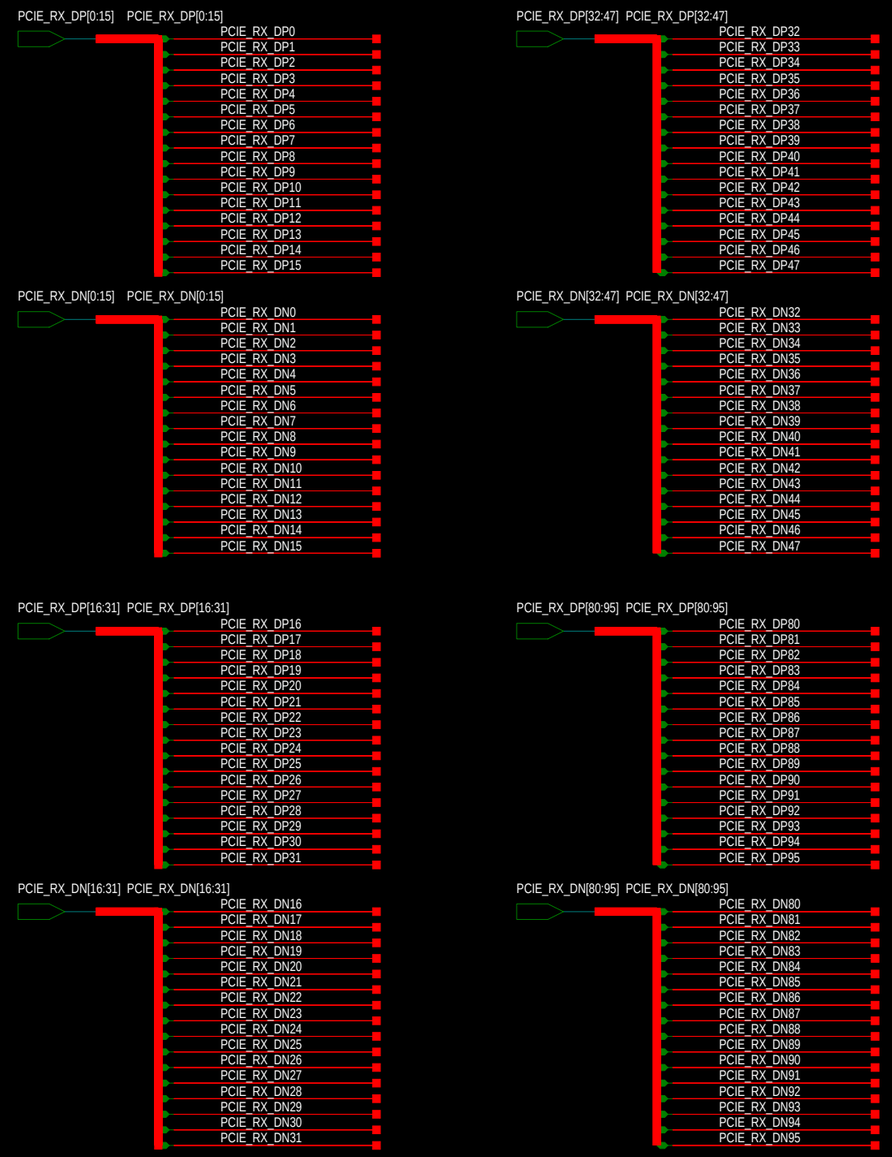

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 21 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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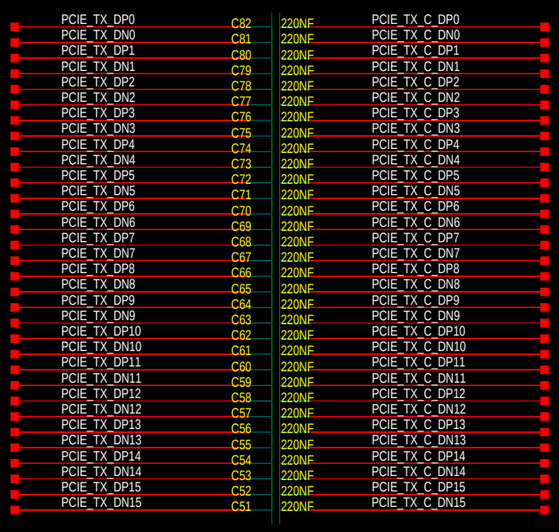
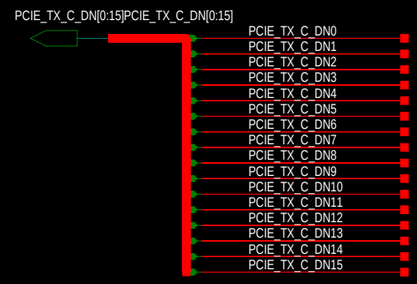
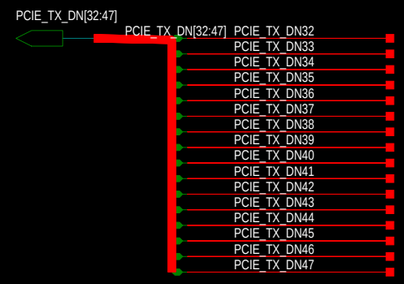
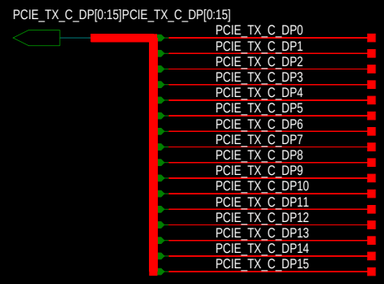
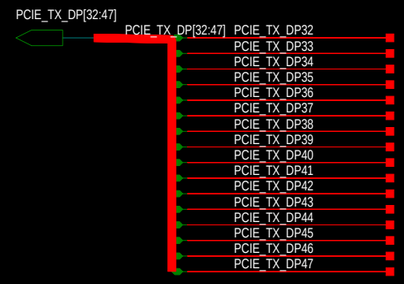
AC Cuppling capacitors near pex89104

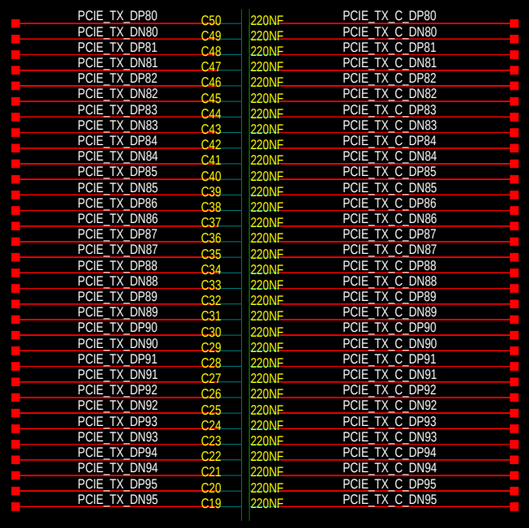


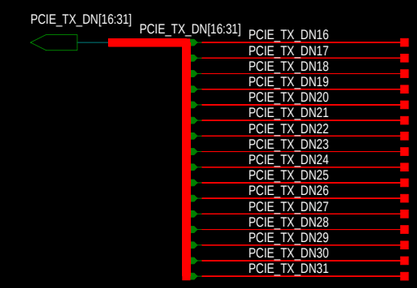


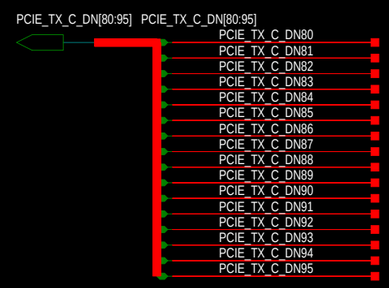


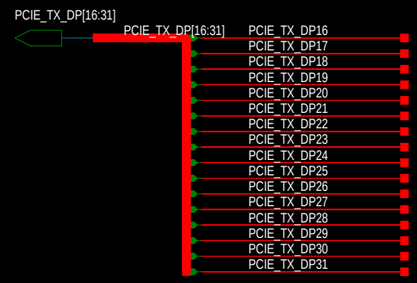


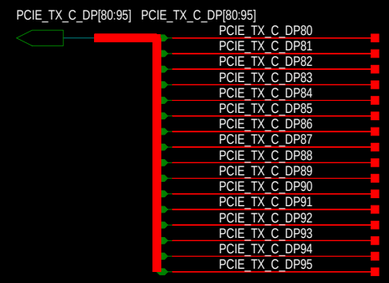












CNIT Technologies Co.,Ltd.			
BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 22 OF 190	REV
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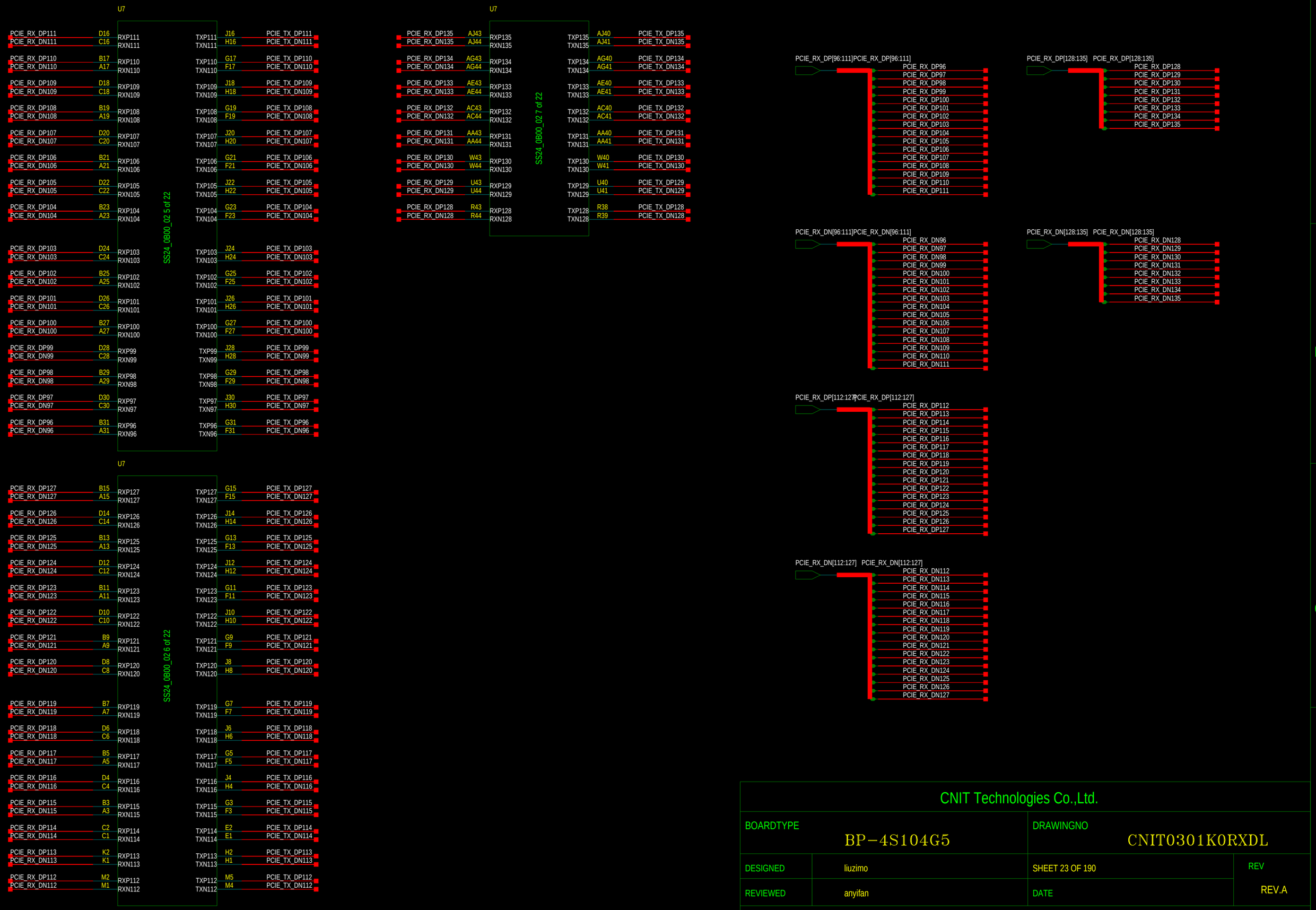

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 23 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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AC Cuppling capacitors near pex89104

PCIE_TX_DP96	C210	220NF	PCIE_TX_C_DP96
PCIE_TX_DN96	C209	220NF	PCIE_TX_C_DN96
PCIE_TX_DP97	C208	220NF	PCIE_TX_C_DP97
PCIE_TX_DN97	C207	220NF	PCIE_TX_C_DN97
PCIE_TX_DP98	C206	220NF	PCIE_TX_C_DP98
PCIE_TX_DN98	C205	220NF	PCIE_TX_C_DN98
PCIE_TX_DP99	C204	220NF	PCIE_TX_C_DP99
PCIE_TX_DN99	C203	220NF	PCIE_TX_C_DN99
PCIE_TX_DP100	C202	220NF	PCIE_TX_C_DP100
PCIE_TX_DN100	C201	220NF	PCIE_TX_C_DN100
PCIE_TX_DP101	C200	220NF	PCIE_TX_C_DP101
PCIE_TX_DN101	C199	220NF	PCIE_TX_C_DN101
PCIE_TX_DP102	C198	220NF	PCIE_TX_C_DP102
PCIE_TX_DN102	C197	220NF	PCIE_TX_C_DN102
PCIE_TX_DP103	C196	220NF	PCIE_TX_C_DP103
PCIE_TX_DN103	C195	220NF	PCIE_TX_C_DN103
PCIE_TX_DP104	C194	220NF	PCIE_TX_C_DP104
PCIE_TX_DN104	C193	220NF	PCIE_TX_C_DN104
PCIE_TX_DP105	C192	220NF	PCIE_TX_C_DP105
PCIE_TX_DN105	C191	220NF	PCIE_TX_C_DN105
PCIE_TX_DP106	C190	220NF	PCIE_TX_C_DP106
PCIE_TX_DN106	C189	220NF	PCIE_TX_C_DN106
PCIE_TX_DP107	C188	220NF	PCIE_TX_C_DP107
PCIE_TX_DN107	C187	220NF	PCIE_TX_C_DN107
PCIE_TX_DP108	C186	220NF	PCIE_TX_C_DP108
PCIE_TX_DN108	C185	220NF	PCIE_TX_C_DN108
PCIE_TX_DP109	C184	220NF	PCIE_TX_C_DP109
PCIE_TX_DN109	C183	220NF	PCIE_TX_C_DN109
PCIE_TX_DP110	C182	220NF	PCIE_TX_C_DP110
PCIE_TX_DN110	C181	220NF	PCIE_TX_C_DN110
PCIE_TX_DP111	C180	220NF	PCIE_TX_C_DP111
PCIE_TX_DN111	C179	220NF	PCIE_TX_C_DN111

PCIE_TX_DP112	C178	220NF	PCIE_TX_C_DP112
PCIE_TX_DN112	C177	220NF	PCIE_TX_C_DN112
PCIE_TX_DP113	C176	220NF	PCIE_TX_C_DP113
PCIE_TX_DN113	C175	220NF	PCIE_TX_C_DN113
PCIE_TX_DP114	C174	220NF	PCIE_TX_C_DP114
PCIE_TX_DN114	C173	220NF	PCIE_TX_C_DN114
PCIE_TX_DP115	C172	220NF	PCIE_TX_C_DP115
PCIE_TX_DN115	C171	220NF	PCIE_TX_C_DN115
PCIE_TX_DP116	C170	220NF	PCIE_TX_C_DP116
PCIE_TX_DN116	C169	220NF	PCIE_TX_C_DN116
PCIE_TX_DP117	C168	220NF	PCIE_TX_C_DP117
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PCIE_TX_DP118	C166	220NF	PCIE_TX_C_DP118
PCIE_TX_DN118	C165	220NF	PCIE_TX_C_DN118
PCIE_TX_DP119	C164	220NF	PCIE_TX_C_DP119
PCIE_TX_DN119	C163	220NF	PCIE_TX_C_DN119
PCIE_TX_DP120	C162	220NF	PCIE_TX_C_DP120
PCIE_TX_DN120	C161	220NF	PCIE_TX_C_DN120
PCIE_TX_DP121	C160	220NF	PCIE_TX_C_DP121
PCIE_TX_DN121	C159	220NF	PCIE_TX_C_DN121
PCIE_TX_DP122	C158	220NF	PCIE_TX_C_DP122
PCIE_TX_DN122	C157	220NF	PCIE_TX_C_DN122
PCIE_TX_DP123	C156	220NF	PCIE_TX_C_DP123
PCIE_TX_DN123	C155	220NF	PCIE_TX_C_DN123
PCIE_TX_DP124	C154	220NF	PCIE_TX_C_DP124
PCIE_TX_DN124	C153	220NF	PCIE_TX_C_DN124
PCIE_TX_DP125	C152	220NF	PCIE_TX_C_DP125
PCIE_TX_DN125	C151	220NF	PCIE_TX_C_DN125
PCIE_TX_DP126	C150	220NF	PCIE_TX_C_DP126
PCIE_TX_DN126	C149	220NF	PCIE_TX_C_DN126
PCIE_TX_DP127	C148	220NF	PCIE_TX_C_DP127
PCIE_TX_DN127	C147	220NF	PCIE_TX_C_DN127

PCIE_TX_DP128	C225	220NF	PCIE_TX_C_DP128
PCIE_TX_DN128	C224	220NF	PCIE_TX_C_DN128
PCIE_TX_DP129	C223	220NF	PCIE_TX_C_DP129
PCIE_TX_DN129	C222	220NF	PCIE_TX_C_DN129
PCIE_TX_DP130	C221	220NF	PCIE_TX_C_DP130
PCIE_TX_DN130	C220	220NF	PCIE_TX_C_DN130
PCIE_TX_DP131	C219	220NF	PCIE_TX_C_DP131
PCIE_TX_DN131	C218	220NF	PCIE_TX_C_DN131
PCIE_TX_DP132	C217	220NF	PCIE_TX_C_DP132
PCIE_TX_DN132	C216	220NF	PCIE_TX_C_DN132
PCIE_TX_DP133	C215	220NF	PCIE_TX_C_DP133
PCIE_TX_DN133	C214	220NF	PCIE_TX_C_DN133
PCIE_TX_DP134	C213	220NF	PCIE_TX_C_DP134
PCIE_TX_DN134	C212	220NF	PCIE_TX_C_DN134
PCIE_TX_DP135	C211	220NF	PCIE_TX_C_DP135
PCIE_TX_DN135	C226	220NF	PCIE_TX_C_DN135

PCIE_TX_C_DN[96:111] PCIE_TX_C_DN[96:111]

PCIE_TX_C_DN96
PCIE_TX_C_DN97
PCIE_TX_C_DN98
PCIE_TX_C_DN99
PCIE_TX_C_DN100
PCIE_TX_C_DN101
PCIE_TX_C_DN102
PCIE_TX_C_DN103
PCIE_TX_C_DN104
PCIE_TX_C_DN105
PCIE_TX_C_DN106
PCIE_TX_C_DN107
PCIE_TX_C_DN108
PCIE_TX_C_DN109
PCIE_TX_C_DN110
PCIE_TX_C_DN111

PCIE_TX_C_DP[128:135]PCIE_TX_C_DP[128:135]

PCIE_TX_C_DP128
PCIE_TX_C_DP129
PCIE_TX_C_DP130
PCIE_TX_C_DP131
PCIE_TX_C_DP132
PCIE_TX_C_DP133
PCIE_TX_C_DP134
PCIE_TX_C_DP135

PCIE_TX_C_DP[96:111] PCIE_TX_C_DP[96:111]

PCIE_TX_C_DP96
PCIE_TX_C_DP97
PCIE_TX_C_DP98
PCIE_TX_C_DP99
PCIE_TX_C_DP100
PCIE_TX_C_DP101
PCIE_TX_C_DP102
PCIE_TX_C_DP103
PCIE_TX_C_DP104
PCIE_TX_C_DP105
PCIE_TX_C_DP106
PCIE_TX_C_DP107
PCIE_TX_C_DP108
PCIE_TX_C_DP109
PCIE_TX_C_DP110
PCIE_TX_C_DP111

PCIE_TX_C_DN[128:135]PCIE_TX_C_DN[128:135]

PCIE_TX_C_DN128
PCIE_TX_C_DN129
PCIE_TX_C_DN130
PCIE_TX_C_DN131
PCIE_TX_C_DN132
PCIE_TX_C_DN133
PCIE_TX_C_DN134
PCIE_TX_C_DN135

PCIE_TX_C_DN[112:127] PCIE_TX_C_DN[112:127]

PCIE_TX_C_DN112
PCIE_TX_C_DN113
PCIE_TX_C_DN114
PCIE_TX_C_DN115
PCIE_TX_C_DN116
PCIE_TX_C_DN117
PCIE_TX_C_DN118
PCIE_TX_C_DN119
PCIE_TX_C_DN120
PCIE_TX_C_DN121
PCIE_TX_C_DN122
PCIE_TX_C_DN123
PCIE_TX_C_DN124
PCIE_TX_C_DN125
PCIE_TX_C_DN126
PCIE_TX_C_DN127

PCIE_TX_C_DP[112:127] PCIE_TX_C_DP[112:127]

PCIE_TX_C_DP112
PCIE_TX_C_DP113
PCIE_TX_C_DP114
PCIE_TX_C_DP115
PCIE_TX_C_DP116
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PCIE_TX_C_DP121
PCIE_TX_C_DP122
PCIE_TX_C_DP123
PCIE_TX_C_DP124
PCIE_TX_C_DP125
PCIE_TX_C_DP126
PCIE_TX_C_DP127

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 24 OF 190	REV
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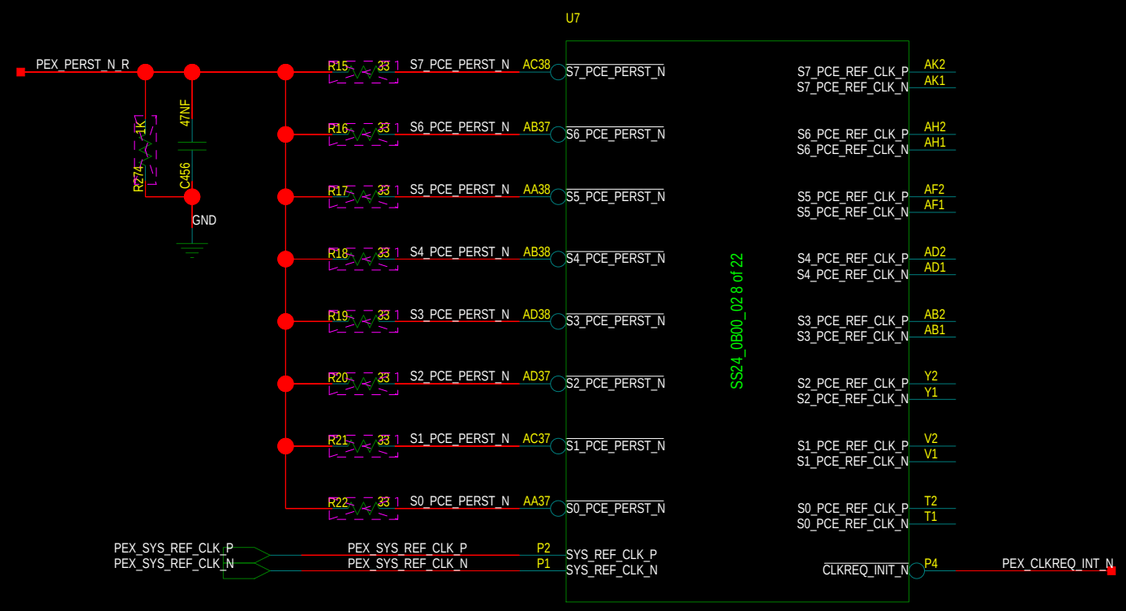

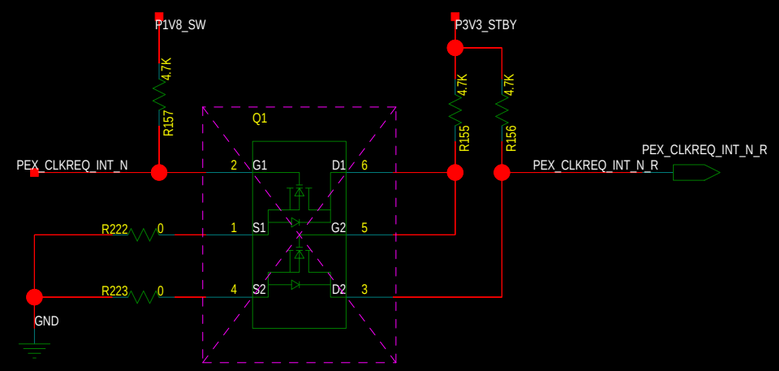

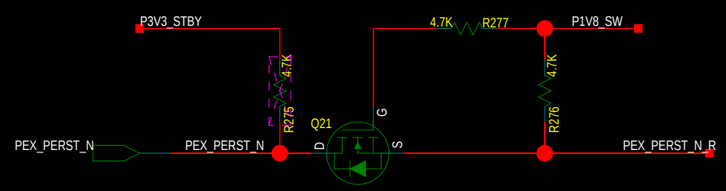

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 25 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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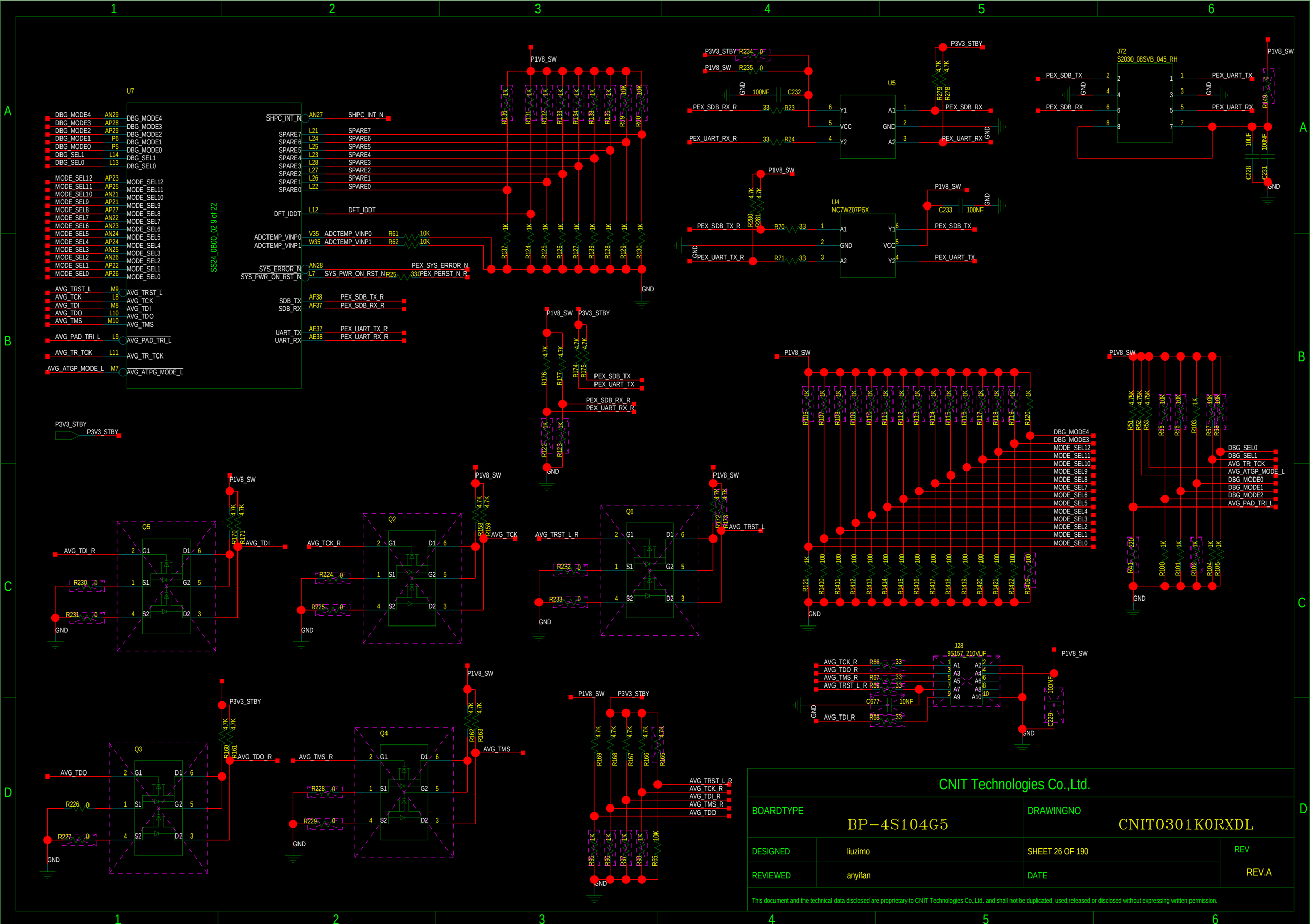
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SS24_0B00_02 9 of 22
DBG_MODE4 AN29
DBG_MODE3 AP28
DBG_MODE2 AP29
DBG_MODE1 P6
DBG_MODE0 P5
DBG_SEL1 L14
DBG_SEL0 L13
MODE_SEL12 AP23
MODE_SEL11 AP25
MODE_SEL10 AN21
MODE_SEL9 AP21
MODE_SEL8 AP27
MODE_SEL7 AN22
MODE_SEL6 AN23
MODE_SEL5 AN24
MODE_SEL4 AP24
MODE_SEL3 AN25
MODE_SEL2 AN26
MODE_SEL1 AP22
MODE_SEL0 AP26
AVG_TRST_L M9
AVG_TCK L8
AVG_TDI M8
AVG_TDO L10
AVG_TMS M10
AVG_PAD_TRI_L L9
AVG_TR_TCK L11
AVG_ATGP_MODE_L M7
SHPC_INT_N AN27
SPARE7 L21
SPARE6 L24
SPARE5 L25
SPARE4 L23
SPARE3 L28
SPARE2 L27
SPARE1 L26
SPARE0 L22
DFT_IDDT L12
ADCTEMP_VINP0 V35
ADCTEMP_VINP1 W35
SYS_ERROR_N AN28
SYS_PWR_ON_RST_N L7
SDB_TX AF38
SDB_RX AF37
UART_TX AE37
UART_RX AE38
R61 10K
R62 10K
R25 330
PEX_SYS_ERROR_N
PEX_PERST_N_R
PEX_SDB_TX_R
PEX_SDB_RX_R
PEX_UART_TX_R
PEX_UART_RX_R
P1V8_SW
P3V3_STBY
GND
R234 0
R235 0
C232 100NF
R23 33
R24 33
U5
R279 4.7K
R278 4.7K
PEX_SDB_RX
PEX_UART_RX
J72
S2030_08SVB_045_RH
PEX_SDB_TX
PEX_UART_TX
PEX_UART_RX
R149 0
C228 10UF
C231 100NF
U4
NC7WZ07P6X
R280 4.7K
R281 4.7K
R70 33
R71 33
C233 100NF
R176 4.7K
R177 4.7K
R174 4.7K
R175 4.7K
R122 1K
R123 1K
Q5
Q2
Q6
Q3
Q4
AVG_TDI_R
AVG_TDI
AVG_TCK_R
AVG_TCK
AVG_TRST_L_R
AVG_TRST_L
AVG_TDO
AVG_TDO_R
AVG_TMS_R
AVG_TMS
R230 0
R231 0
R224 0
R225 0
R232 0
R233 0
R226 0
R227 0
R228 0
R229 0
R170 4.7K
R171 4.7K
R158 4.7K
R159 4.7K
R172 4.7K
R173 4.7K
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R1421 100
R1422 100
R1409 100
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DBG_MODE3
MODE_SEL12
MODE_SEL11
MODE_SEL10
MODE_SEL9
MODE_SEL8
MODE_SEL7
MODE_SEL6
MODE_SEL5
MODE_SEL4
MODE_SEL3
MODE_SEL2
MODE_SEL1
MODE_SEL0
R51 4.75K
R52 4.75K
R53 4.75K
R55 10K
R56 10K
R103 1K
R57 10K
R58 10K
R415 220
R100 1K
R101 1K
R102 1K
R104 1K
R105 1K
DBG_SEL0
DBG_SEL1
AVG_TR_TCK
AVG_ATGP_MODE_L
DBG_MODE0
DBG_MODE1
DBG_MODE2
AVG_PAD_TRI_L
J28
95157_210VLF
AVG_TCK_R R66 33
AVG_TDO_R R67 33
AVG_TMS_R R69 33
AVG_TRST_L_R R69 33
AVG_TDI_R R68 33
C677 10NF
C229 100NF
CNIT Technologies Co.,Ltd.
BOARDTYPE
BP-4S104G5
DRAWINGNO
CNIT0301K0RXDL
DESIGNED
liuzimo
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anyifan
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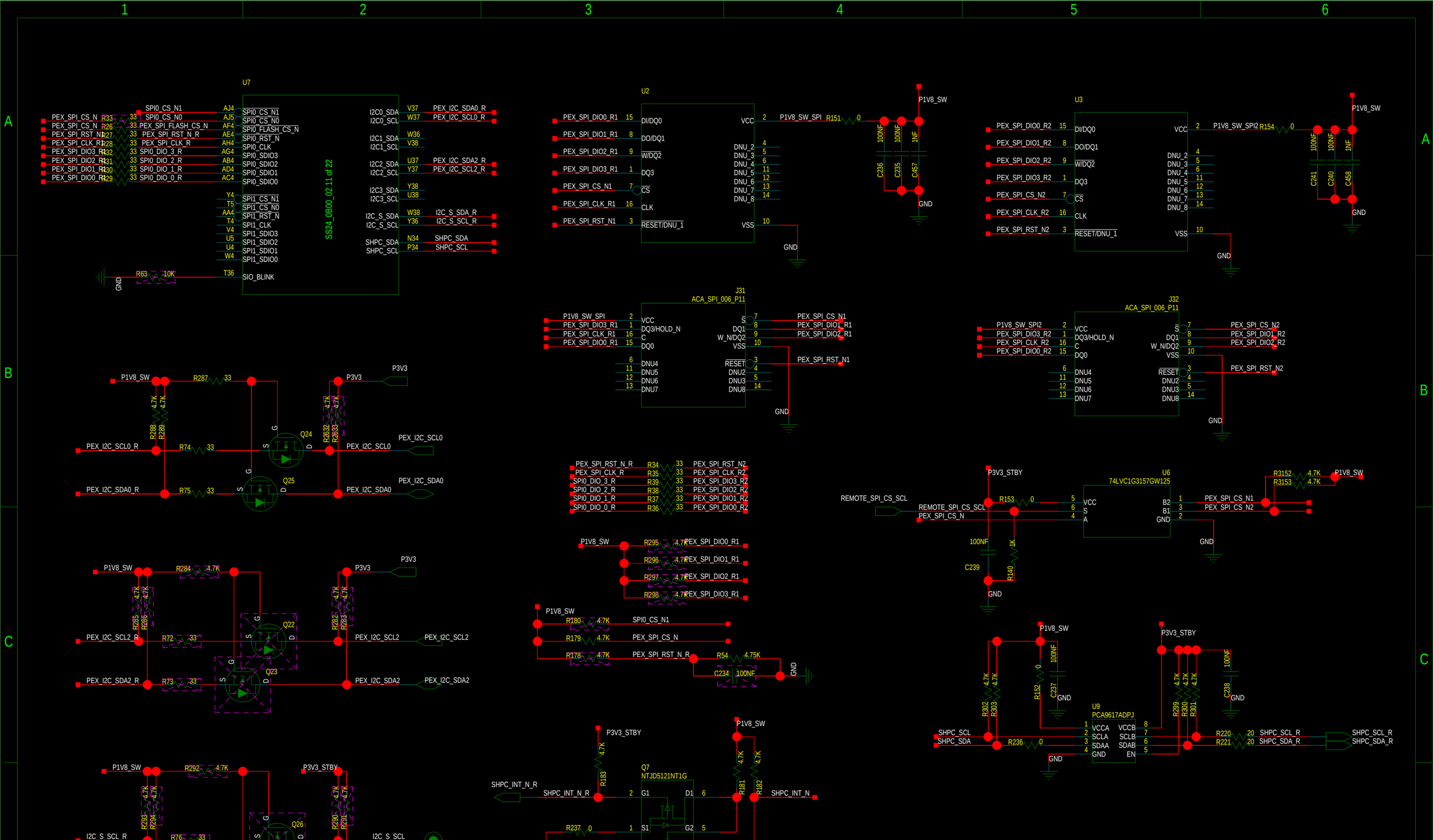

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 27 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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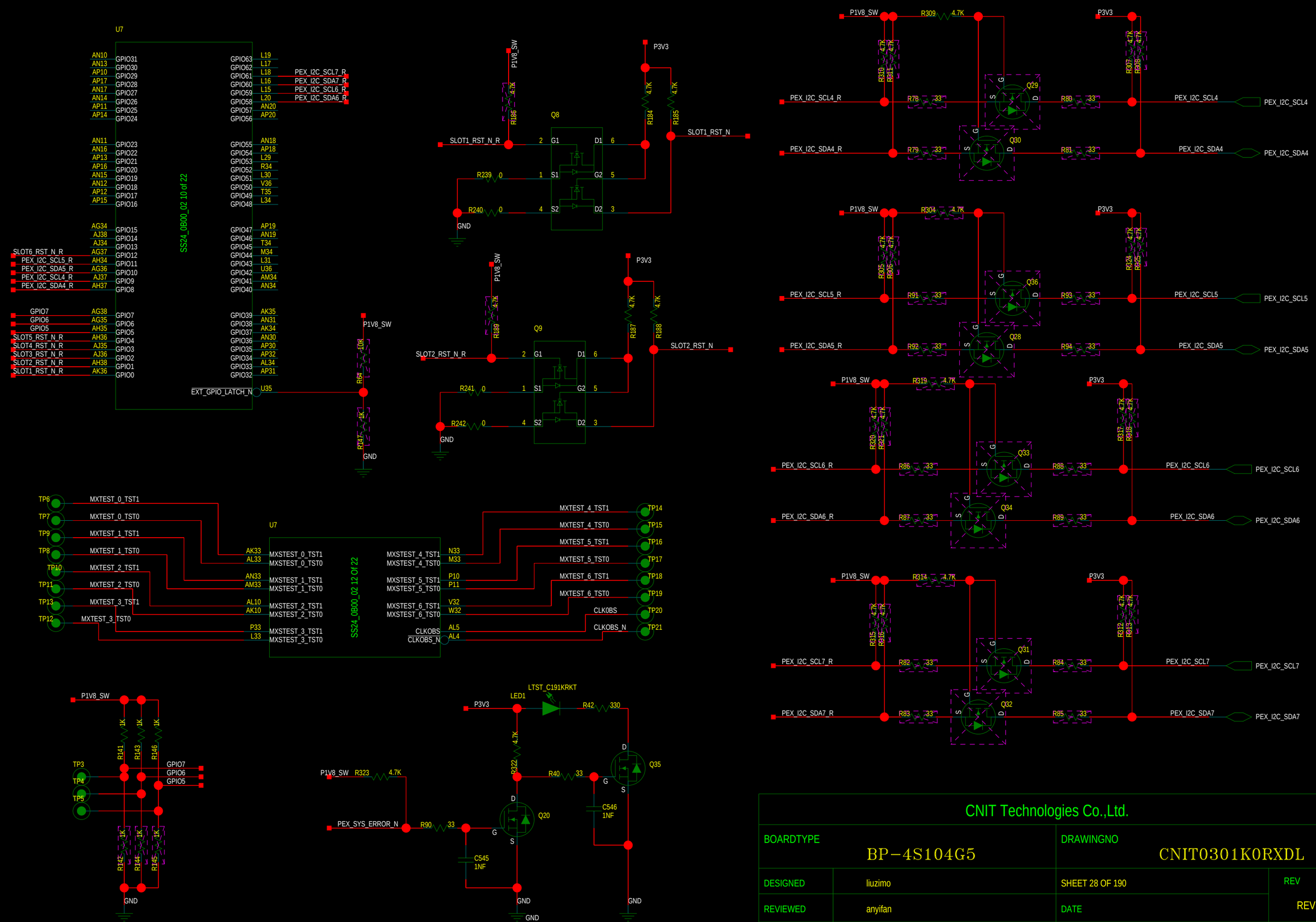

CNIT Technologies Co.,Ltd.			
BOARDTYPE	BP−4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 28 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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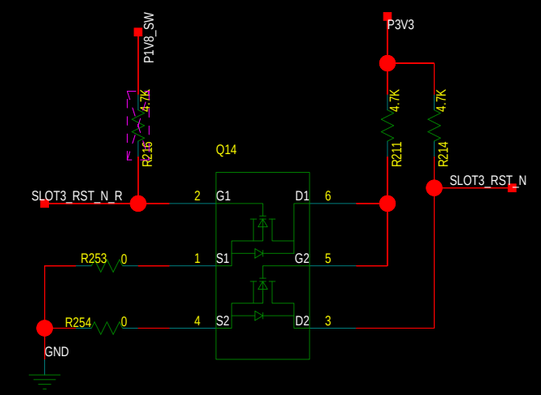

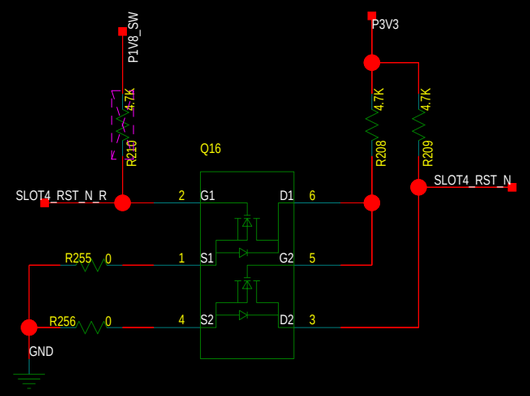

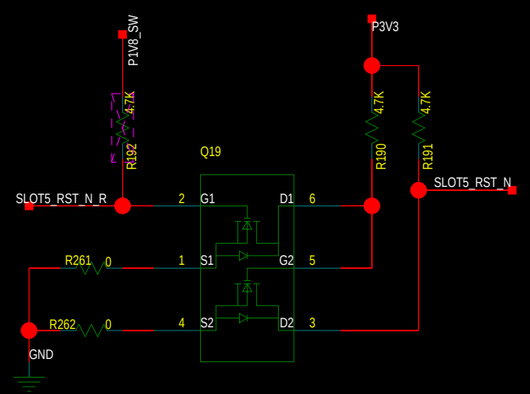

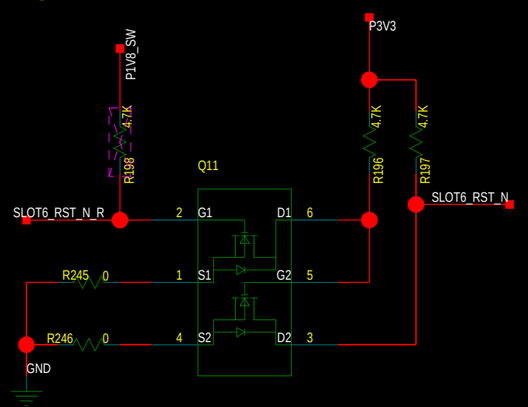

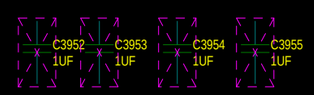

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 29 OF 190	REV
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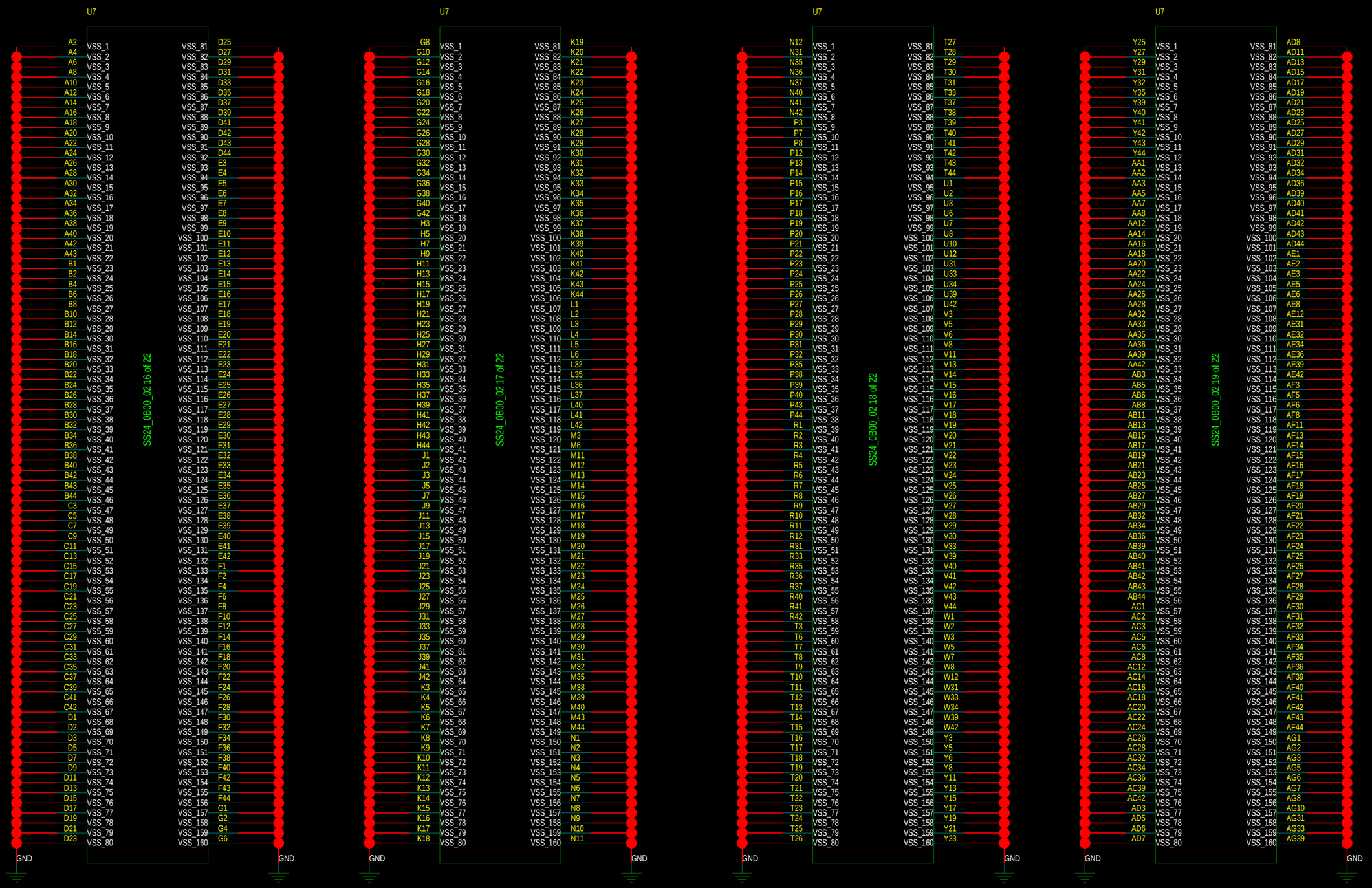

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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 31 OF 190	REV
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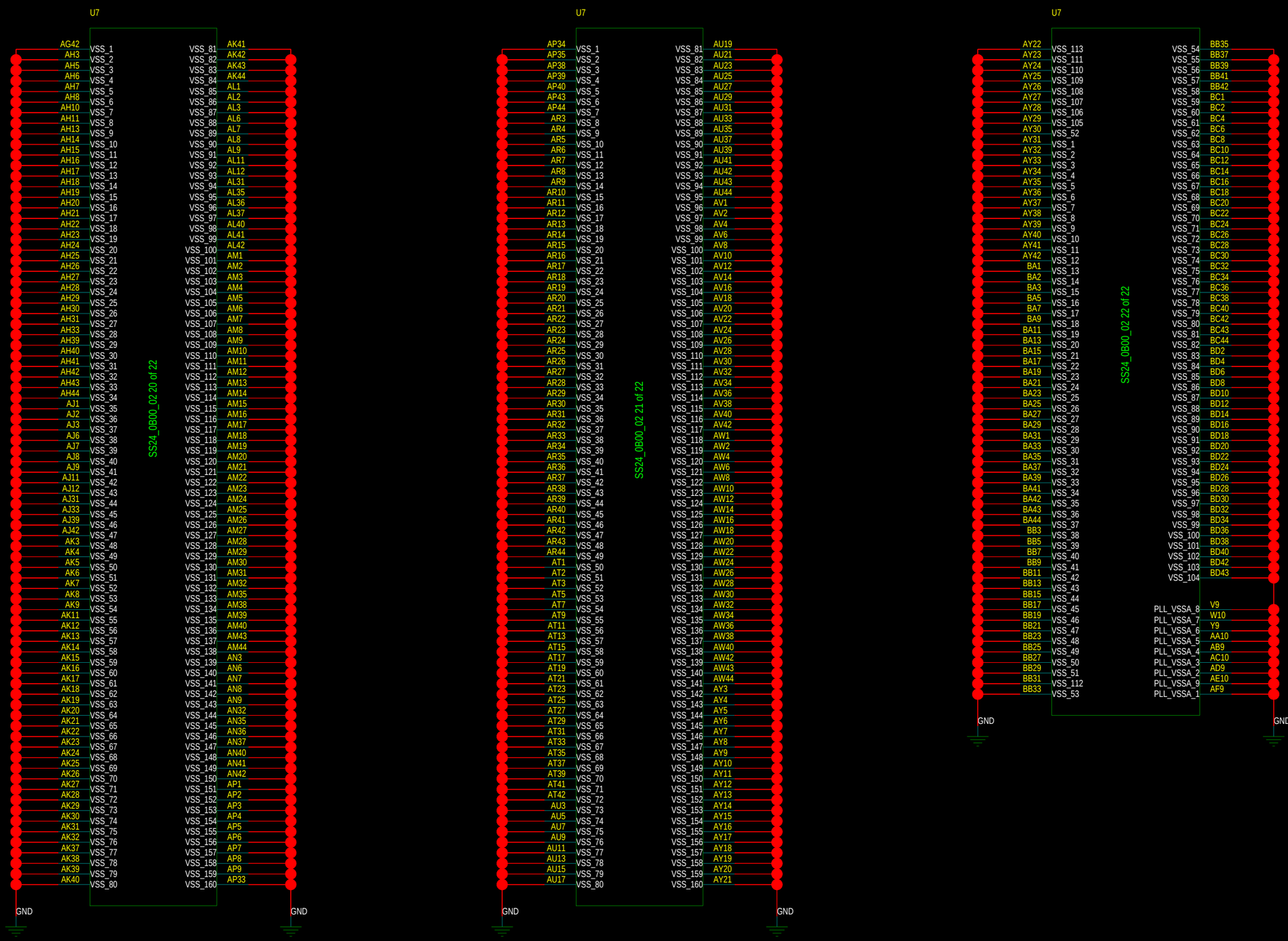

CNIT Technologies Co.,Ltd.			
BOARDTYPE BP−4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 32 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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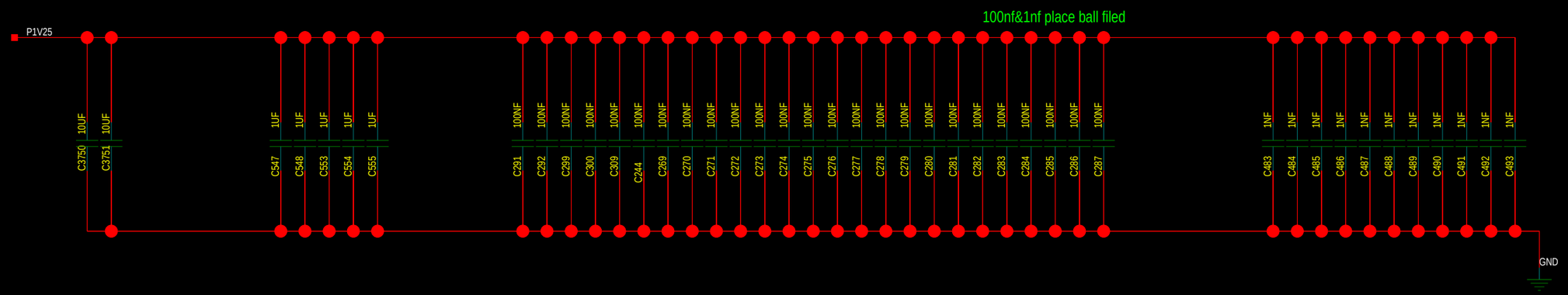
0.1U CAPS = 28
1NF CAPS =12
1UF CAPS = 6
10UF CAPS = 4



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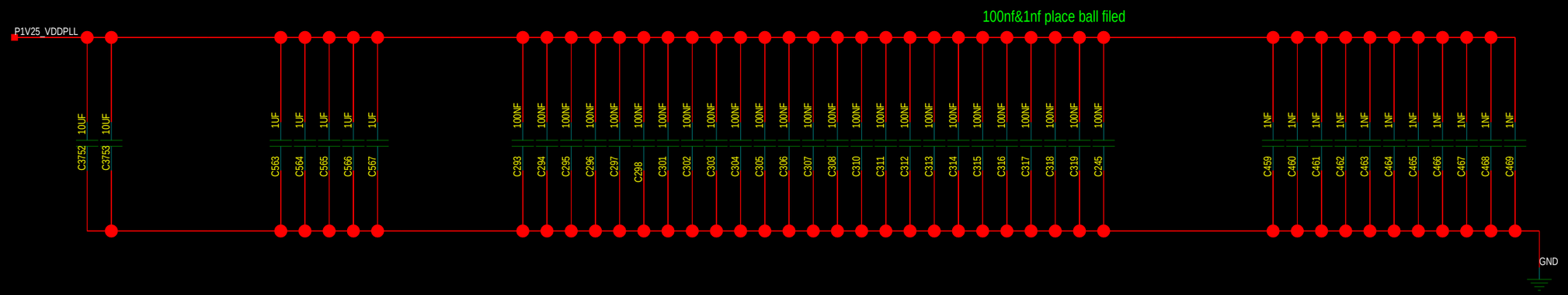

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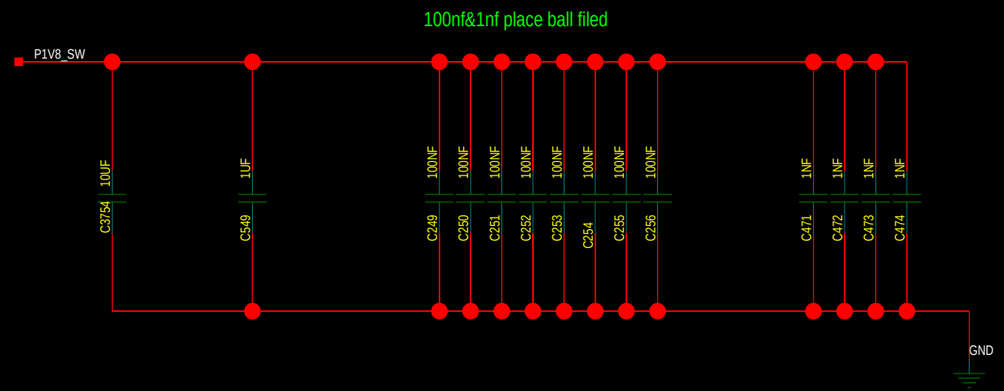

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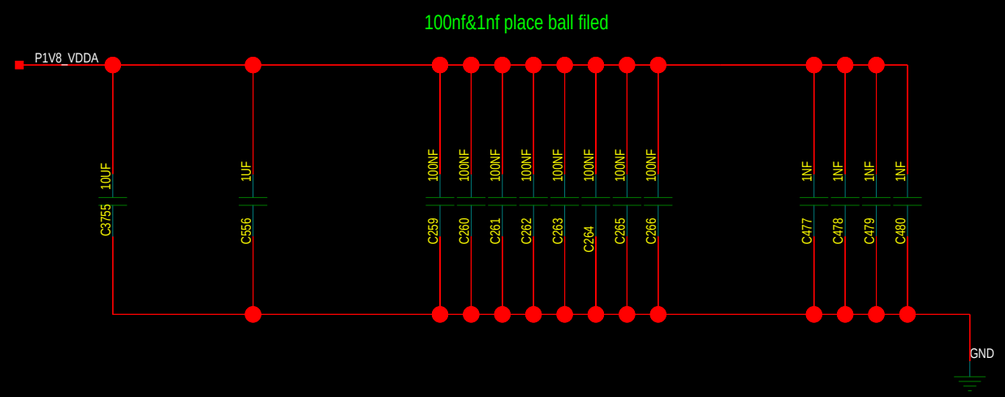

CNIT Technologies Co.,Ltd.			
BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 33 OF 190	REV
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1NF CAPS =20
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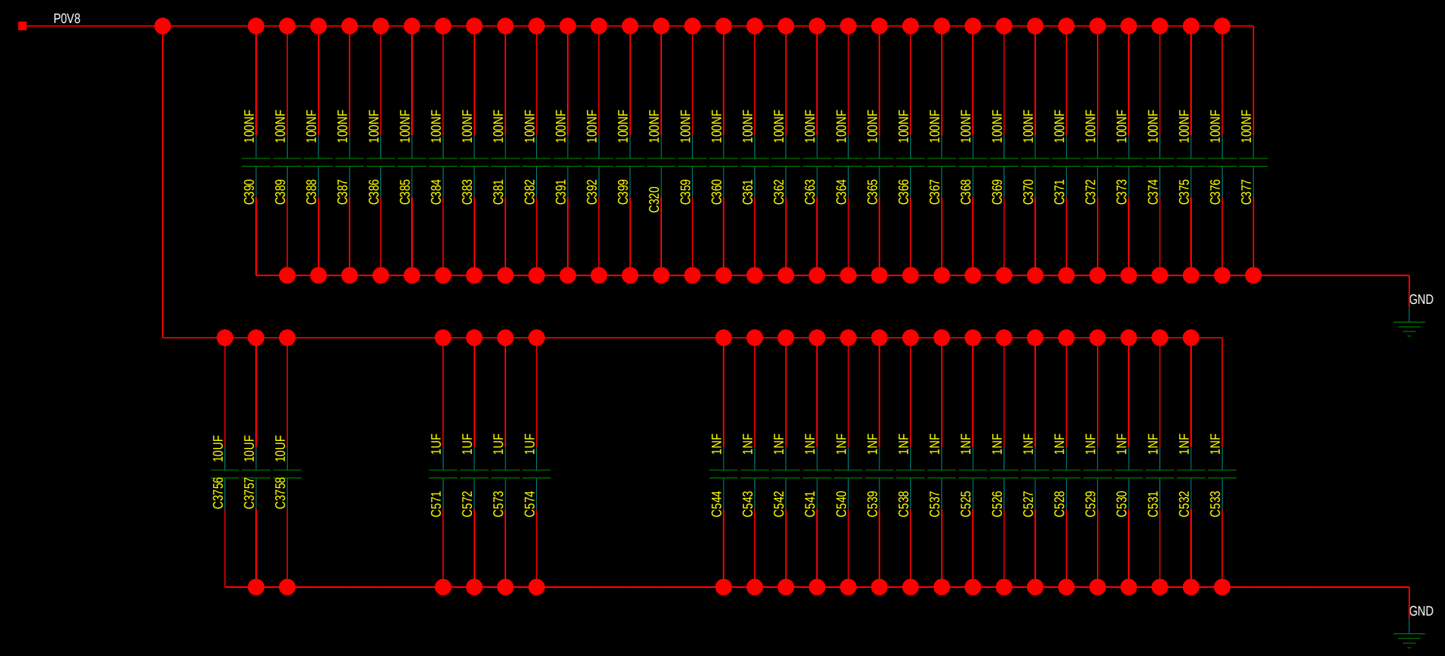
100nf&1nf place ball filed



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1UF CAPS = 6
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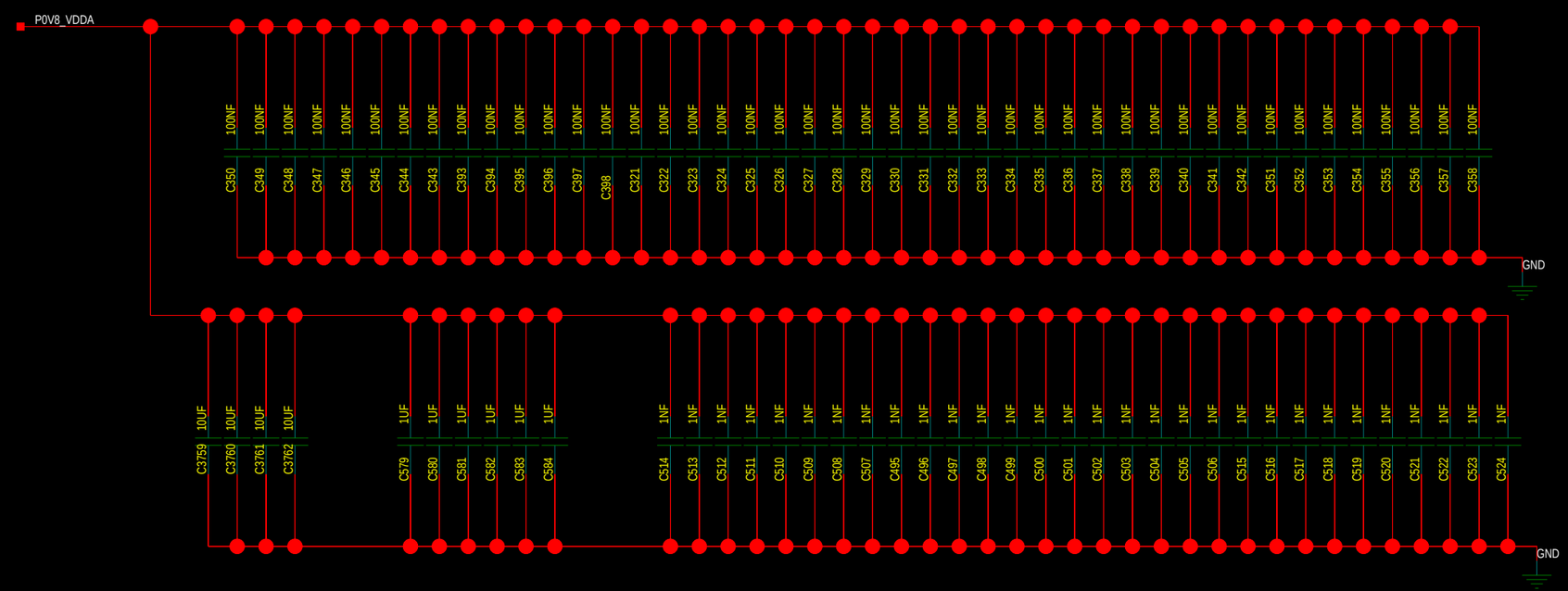

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BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 34 OF 190	REV
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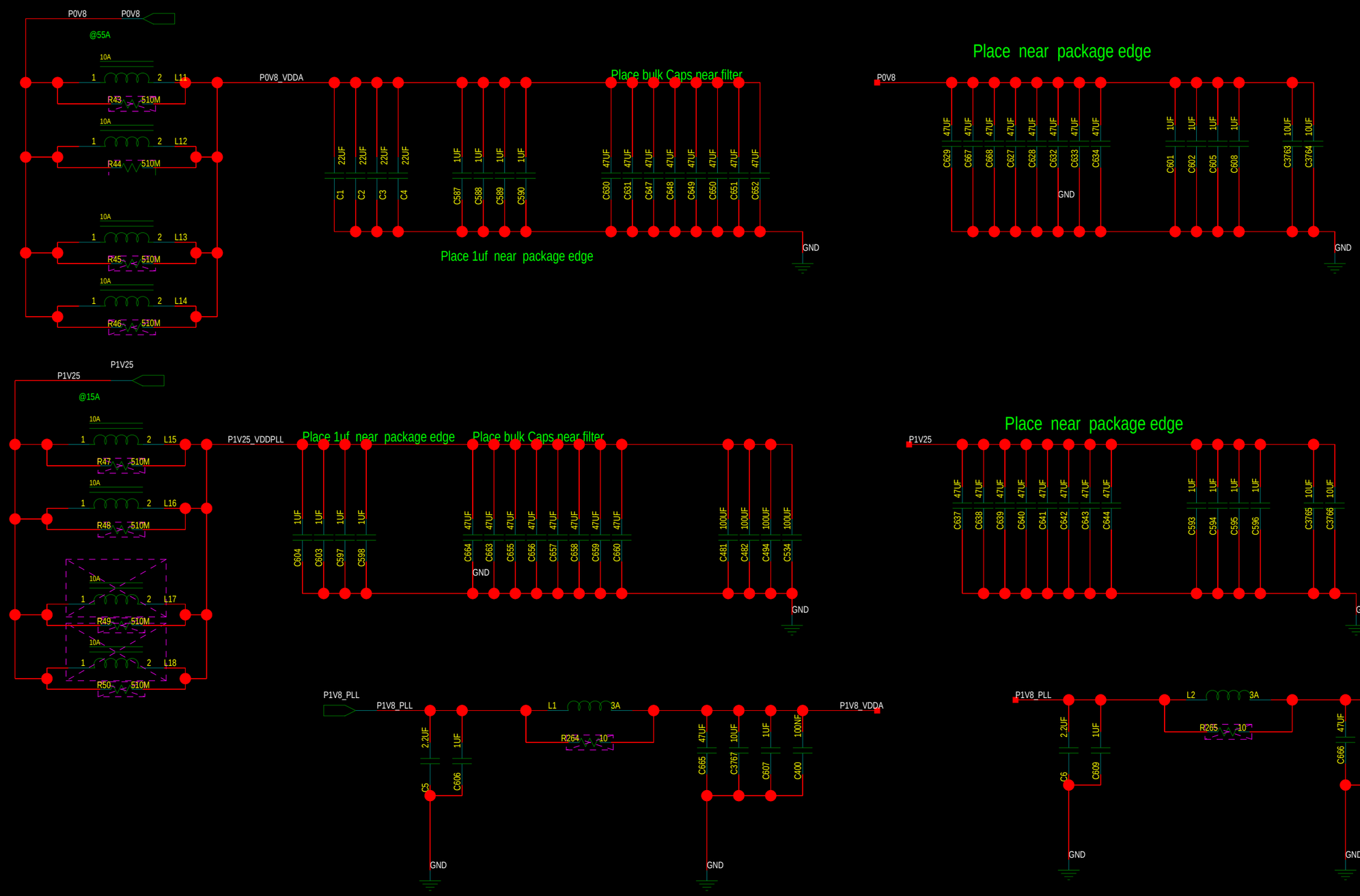

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BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
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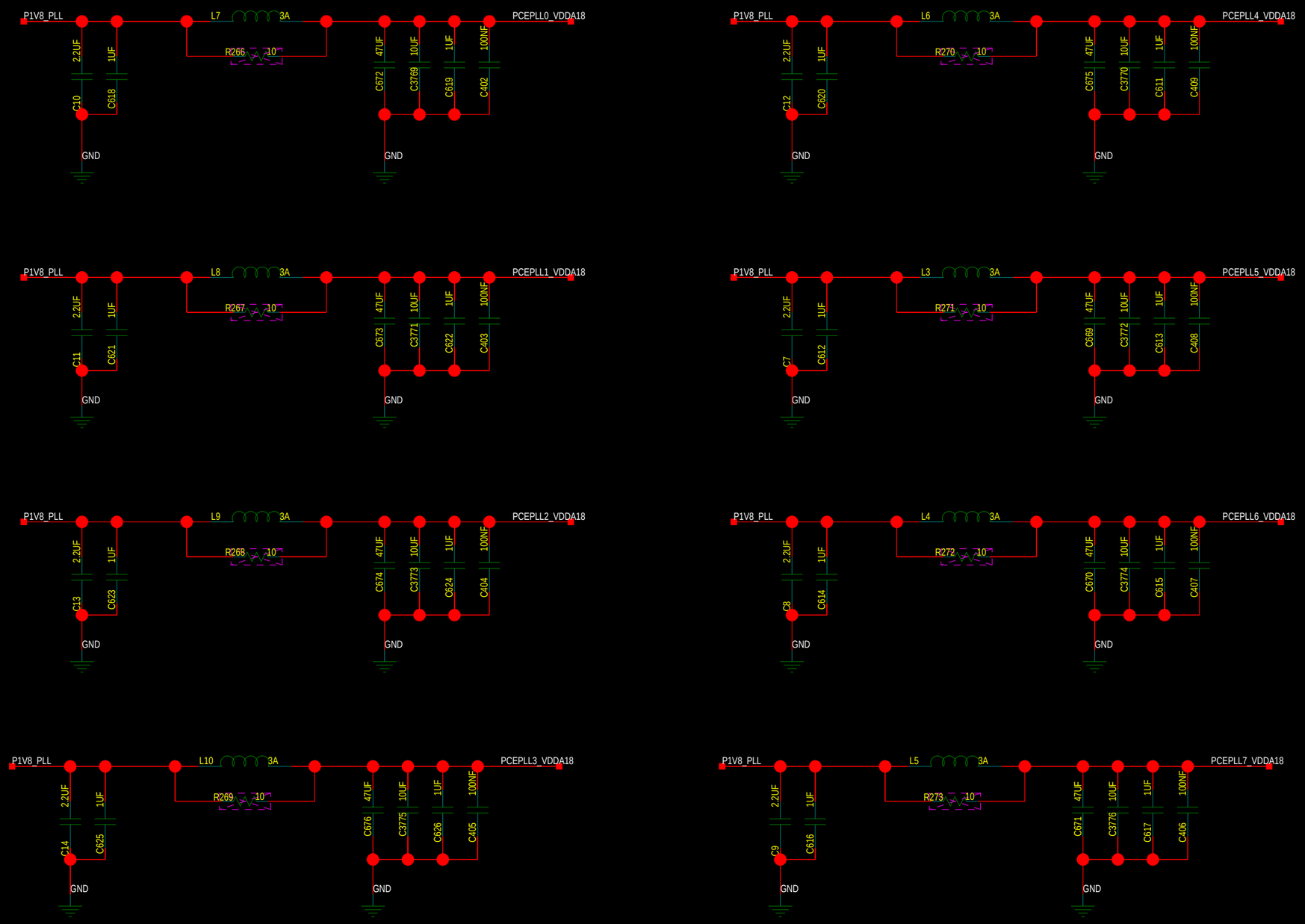

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BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
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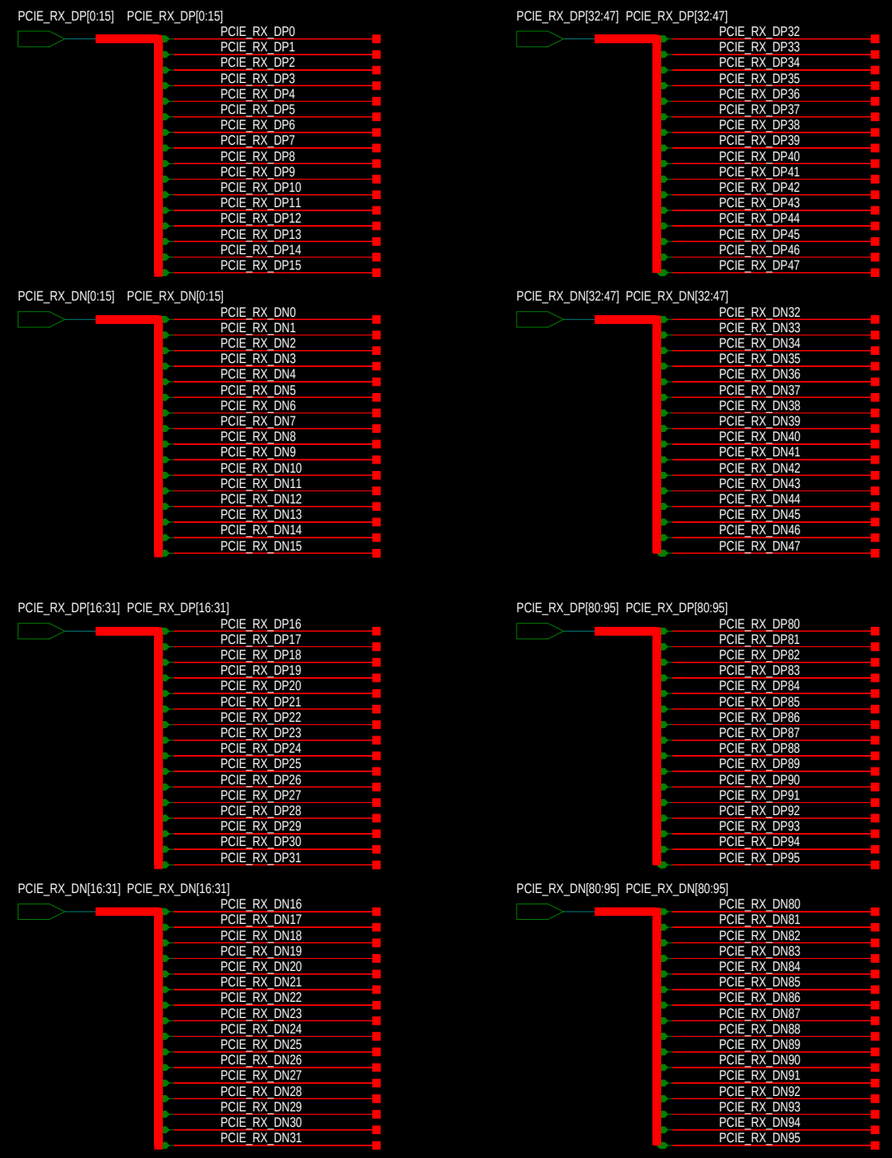

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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
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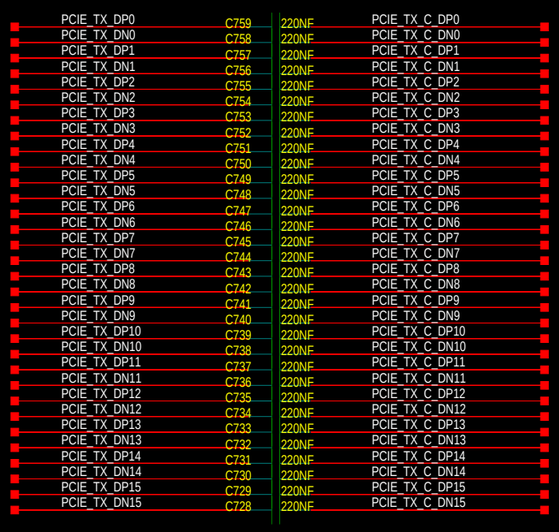
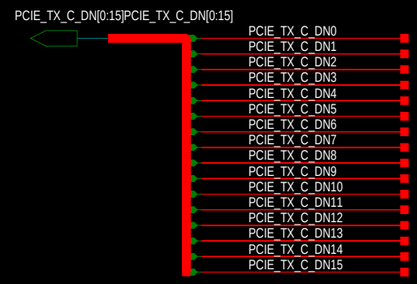
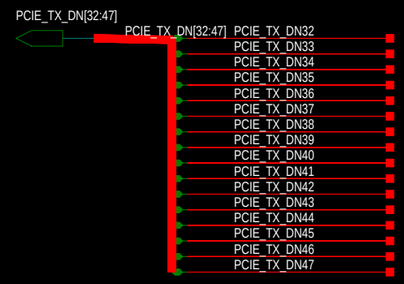
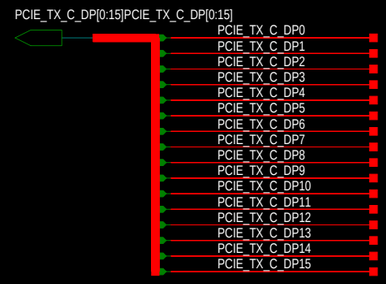
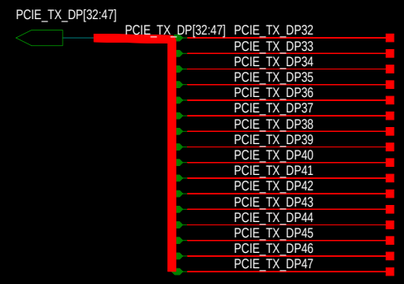
AC Cuppling capacitors near pex89104

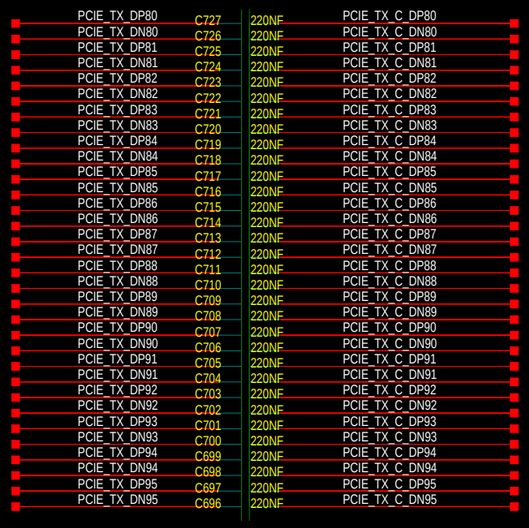


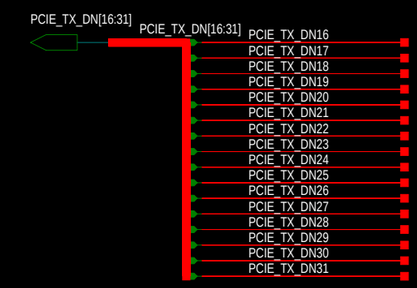


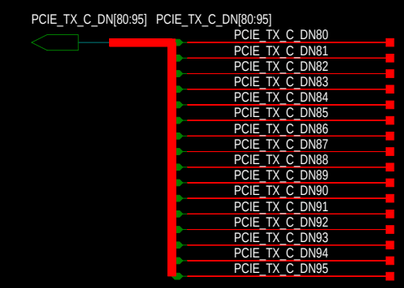


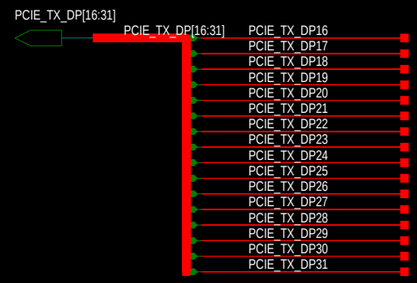


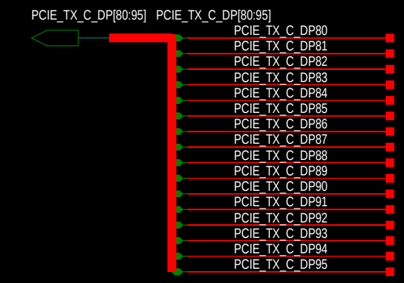












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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
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PCIE_RX_DP111	D16	RXP111	TXP111	J16	PCIE_TX_DP111
PCIE_RX_DN111	C16	RXN111	TXN111	H16	PCIE_TX_DN111
PCIE_RX_DP110	B17	RXP110	TXP110	G17	PCIE_TX_DP110
PCIE_RX_DN110	A17	RXN110	TXN110	F17	PCIE_TX_DN110
PCIE_RX_DP109	D18	RXP109	TXP109	J18	PCIE_TX_DP109
PCIE_RX_DN109	C18	RXN109	TXN109	H18	PCIE_TX_DN109
PCIE_RX_DP108	B19	RXP108	TXP108	G19	PCIE_TX_DP108
PCIE_RX_DN108	A19	RXN108	TXN108	F19	PCIE_TX_DN108
PCIE_RX_DP107	D20	RXP107	TXP107	J20	PCIE_TX_DP107
PCIE_RX_DN107	C20	RXN107	TXN107	H20	PCIE_TX_DN107
PCIE_RX_DP106	B21	RXP106	TXP106	G21	PCIE_TX_DP106
PCIE_RX_DN106	A21	RXN106	TXN106	F21	PCIE_TX_DN106
PCIE_RX_DP105	D22	RXP105	TXP105	J22	PCIE_TX_DP105
PCIE_RX_DN105	C22	RXN105	TXN105	H22	PCIE_TX_DN105
PCIE_RX_DP104	B23	RXP104	TXP104	G23	PCIE_TX_DP104
PCIE_RX_DN104	A23	RXN104	TXN104	F23	PCIE_TX_DN104
PCIE_RX_DP103	D24	RXP103	TXP103	J24	PCIE_TX_DP103
PCIE_RX_DN103	C24	RXN103	TXN103	H24	PCIE_TX_DN103
PCIE_RX_DP102	B25	RXP102	TXP102	G25	PCIE_TX_DP102
PCIE_RX_DN102	A25	RXN102	TXN102	F25	PCIE_TX_DN102
PCIE_RX_DP101	D26	RXP101	TXP101	J26	PCIE_TX_DP101
PCIE_RX_DN101	C26	RXN101	TXN101	H26	PCIE_TX_DN101
PCIE_RX_DP100	B27	RXP100	TXP100	G27	PCIE_TX_DP100
PCIE_RX_DN100	A27	RXN100	TXN100	F27	PCIE_TX_DN100
PCIE_RX_DP99	D28	RXP99	TXP99	J28	PCIE_TX_DP99
PCIE_RX_DN99	C28	RXN99	TXN99	H28	PCIE_TX_DN99
PCIE_RX_DP98	B29	RXP98	TXP98	G29	PCIE_TX_DP98
PCIE_RX_DN98	A29	RXN98	TXN98	F29	PCIE_TX_DN98
PCIE_RX_DP97	D30	RXP97	TXP97	J30	PCIE_TX_DP97
PCIE_RX_DN97	C30	RXN97	TXN97	H30	PCIE_TX_DN97
PCIE_RX_DP96	B31	RXP96	TXP96	G31	PCIE_TX_DP96
PCIE_RX_DN96	A31	RXN96	TXN96	F31	PCIE_TX_DN96

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PCIE_RX_DP127	B15	RXP127	TXP127	G15	PCIE_TX_DP127
PCIE_RX_DN127	A15	RXN127	TXN127	F15	PCIE_TX_DN127
PCIE_RX_DP126	D14	RXP126	TXP126	J14	PCIE_TX_DP126
PCIE_RX_DN126	C14	RXN126	TXN126	H14	PCIE_TX_DN126
PCIE_RX_DP125	B13	RXP125	TXP125	G13	PCIE_TX_DP125
PCIE_RX_DN125	A13	RXN125	TXN125	F13	PCIE_TX_DN125
PCIE_RX_DP124	D12	RXP124	TXP124	J12	PCIE_TX_DP124
PCIE_RX_DN124	C12	RXN124	TXN124	H12	PCIE_TX_DN124
PCIE_RX_DP123	B11	RXP123	TXP123	G11	PCIE_TX_DP123
PCIE_RX_DN123	A11	RXN123	TXN123	F11	PCIE_TX_DN123
PCIE_RX_DP122	D10	RXP122	TXP122	J10	PCIE_TX_DP122
PCIE_RX_DN122	C10	RXN122	TXN122	H10	PCIE_TX_DN122
PCIE_RX_DP121	B9	RXP121	TXP121	G9	PCIE_TX_DP121
PCIE_RX_DN121	A9	RXN121	TXN121	F9	PCIE_TX_DN121
PCIE_RX_DP120	D8	RXP120	TXP120	J8	PCIE_TX_DP120
PCIE_RX_DN120	C8	RXN120	TXN120	H8	PCIE_TX_DN120
PCIE_RX_DP119	B7	RXP119	TXP119	G7	PCIE_TX_DP119
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PCIE_RX_DN117	A5	RXN117	TXN117	F5	PCIE_TX_DN117
PCIE_RX_DP116	D4	RXP116	TXP116	J4	PCIE_TX_DP116
PCIE_RX_DN116	C4	RXN116	TXN116	H4	PCIE_TX_DN116
PCIE_RX_DP115	B3	RXP115	TXP115	G3	PCIE_TX_DP115
PCIE_RX_DN115	A3	RXN115	TXN115	F3	PCIE_TX_DN115
PCIE_RX_DP114	C2	RXP114	TXP114	E2	PCIE_TX_DP114
PCIE_RX_DN114	C1	RXN114	TXN114	E1	PCIE_TX_DN114
PCIE_RX_DP113	K2	RXP113	TXP113	H2	PCIE_TX_DP113
PCIE_RX_DN113	K1	RXN113	TXN113	H1	PCIE_TX_DN113
PCIE_RX_DP112	M2	RXP112	TXP112	M5	PCIE_TX_DP112
PCIE_RX_DN112	M1	RXN112	TXN112	M4	PCIE_TX_DN112

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PCIE_RX_DP135	AJ43	RXP135	TXP135	AJ40	PCIE_TX_DP135
PCIE_RX_DN135	AJ44	RXN135	TXN135	AJ41	PCIE_TX_DN135
PCIE_RX_DP134	AG43	RXP134	TXP134	AG40	PCIE_TX_DP134
PCIE_RX_DN134	AG44	RXN134	TXN134	AG41	PCIE_TX_DN134
PCIE_RX_DP133	AE43	RXP133	TXP133	AE40	PCIE_TX_DP133
PCIE_RX_DN133	AE44	RXN133	TXN133	AE41	PCIE_TX_DN133
PCIE_RX_DP132	AC43	RXP132	TXP132	AC40	PCIE_TX_DP132
PCIE_RX_DN132	AC44	RXN132	TXN132	AC41	PCIE_TX_DN132
PCIE_RX_DP131	AA43	RXP131	TXP131	AA40	PCIE_TX_DP131
PCIE_RX_DN131	AA44	RXN131	TXN131	AA41	PCIE_TX_DN131
PCIE_RX_DP130	W43	RXP130	TXP130	W40	PCIE_TX_DP130
PCIE_RX_DN130	W44	RXN130	TXN130	W41	PCIE_TX_DN130
PCIE_RX_DP129	U43	RXP129	TXP129	U40	PCIE_TX_DP129
PCIE_RX_DN129	U44	RXN129	TXN129	U41	PCIE_TX_DN129
PCIE_RX_DP128	R43	RXP128	TXP128	R38	PCIE_TX_DP128
PCIE_RX_DN128	R44	RXN128	TXN128	R39	PCIE_TX_DN128

PCIE_RX_DP[96:111]PCIE_RX_DP[96:111]

PCIE_RX_DP96
PCIE_RX_DP97
PCIE_RX_DP98
PCIE_RX_DP99
PCIE_RX_DP100
PCIE_RX_DP101
PCIE_RX_DP102
PCIE_RX_DP103
PCIE_RX_DP104
PCIE_RX_DP105
PCIE_RX_DP106
PCIE_RX_DP107
PCIE_RX_DP108
PCIE_RX_DP109
PCIE_RX_DP110
PCIE_RX_DP111

PCIE_RX_DP[128:135] PCIE_RX_DP[128:135]

PCIE_RX_DP128
PCIE_RX_DP129
PCIE_RX_DP130
PCIE_RX_DP131
PCIE_RX_DP132
PCIE_RX_DP133
PCIE_RX_DP134
PCIE_RX_DP135

PCIE_RX_DN[96:111]PCIE_RX_DN[96:111]

PCIE_RX_DN96
PCIE_RX_DN97
PCIE_RX_DN98
PCIE_RX_DN99
PCIE_RX_DN100
PCIE_RX_DN101
PCIE_RX_DN102
PCIE_RX_DN103
PCIE_RX_DN104
PCIE_RX_DN105
PCIE_RX_DN106
PCIE_RX_DN107
PCIE_RX_DN108
PCIE_RX_DN109
PCIE_RX_DN110
PCIE_RX_DN111

PCIE_RX_DN[128:135] PCIE_RX_DN[128:135]

PCIE_RX_DN128
PCIE_RX_DN129
PCIE_RX_DN130
PCIE_RX_DN131
PCIE_RX_DN132
PCIE_RX_DN133
PCIE_RX_DN134
PCIE_RX_DN135

PCIE_RX_DP[112:127]PCIE_RX_DP[112:127]

PCIE_RX_DP112
PCIE_RX_DP113
PCIE_RX_DP114
PCIE_RX_DP115
PCIE_RX_DP116
PCIE_RX_DP117
PCIE_RX_DP118
PCIE_RX_DP119
PCIE_RX_DP120
PCIE_RX_DP121
PCIE_RX_DP122
PCIE_RX_DP123
PCIE_RX_DP124
PCIE_RX_DP125
PCIE_RX_DP126
PCIE_RX_DP127

PCIE_RX_DN[112:127] PCIE_RX_DN[112:127]

PCIE_RX_DN112
PCIE_RX_DN113
PCIE_RX_DN114
PCIE_RX_DN115
PCIE_RX_DN116
PCIE_RX_DN117
PCIE_RX_DN118
PCIE_RX_DN119
PCIE_RX_DN120
PCIE_RX_DN121
PCIE_RX_DN122
PCIE_RX_DN123
PCIE_RX_DN124
PCIE_RX_DN125
PCIE_RX_DN126
PCIE_RX_DN127

CNIT Technologies Co.,Ltd.

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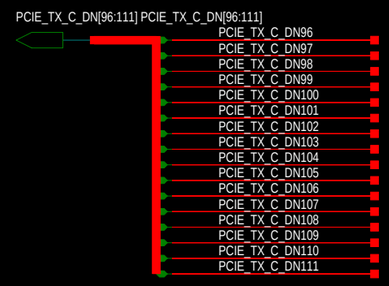
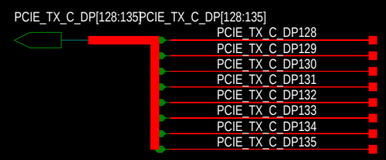
AC Cuppling capacitors near pex89104

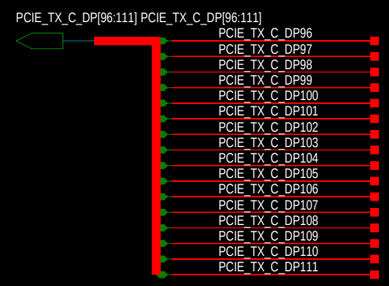
PCIE_TX_DP96	C887	220NF	PCIE_TX_C_DP96
PCIE_TX_DN96	C886	220NF	PCIE_TX_C_DN96
PCIE_TX_DP97	C885	220NF	PCIE_TX_C_DP97
PCIE_TX_DN97	C884	220NF	PCIE_TX_C_DN97
PCIE_TX_DP98	C883	220NF	PCIE_TX_C_DP98
PCIE_TX_DN98	C882	220NF	PCIE_TX_C_DN98
PCIE_TX_DP99	C881	220NF	PCIE_TX_C_DP99
PCIE_TX_DN99	C880	220NF	PCIE_TX_C_DN99
PCIE_TX_DP100	C879	220NF	PCIE_TX_C_DP100
PCIE_TX_DN100	C878	220NF	PCIE_TX_C_DN100
PCIE_TX_DP101	C877	220NF	PCIE_TX_C_DP101
PCIE_TX_DN101	C876	220NF	PCIE_TX_C_DN101
PCIE_TX_DP102	C875	220NF	PCIE_TX_C_DP102
PCIE_TX_DN102	C874	220NF	PCIE_TX_C_DN102
PCIE_TX_DP103	C873	220NF	PCIE_TX_C_DP103
PCIE_TX_DN103	C872	220NF	PCIE_TX_C_DN103
PCIE_TX_DP104	C871	220NF	PCIE_TX_C_DP104
PCIE_TX_DN104	C870	220NF	PCIE_TX_C_DN104
PCIE_TX_DP105	C869	220NF	PCIE_TX_C_DP105
PCIE_TX_DN105	C868	220NF	PCIE_TX_C_DN105
PCIE_TX_DP106	C867	220NF	PCIE_TX_C_DP106
PCIE_TX_DN106	C866	220NF	PCIE_TX_C_DN106
PCIE_TX_DP107	C865	220NF	PCIE_TX_C_DP107
PCIE_TX_DN107	C864	220NF	PCIE_TX_C_DN107
PCIE_TX_DP108	C863	220NF	PCIE_TX_C_DP108
PCIE_TX_DN108	C862	220NF	PCIE_TX_C_DN108
PCIE_TX_DP109	C861	220NF	PCIE_TX_C_DP109
PCIE_TX_DN109	C860	220NF	PCIE_TX_C_DN109
PCIE_TX_DP110	C859	220NF	PCIE_TX_C_DP110
PCIE_TX_DN110	C858	220NF	PCIE_TX_C_DN110
PCIE_TX_DP111	C857	220NF	PCIE_TX_C_DP111
PCIE_TX_DN111	C856	220NF	PCIE_TX_C_DN111

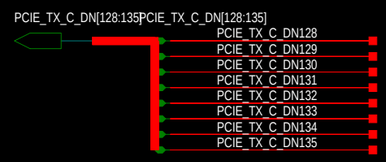
PCIE_TX_DP112	C855	220NF	PCIE_TX_C_DP112
PCIE_TX_DN112	C854	220NF	PCIE_TX_C_DN112
PCIE_TX_DP113	C853	220NF	PCIE_TX_C_DP113
PCIE_TX_DN113	C852	220NF	PCIE_TX_C_DN113
PCIE_TX_DP114	C851	220NF	PCIE_TX_C_DP114
PCIE_TX_DN114	C850	220NF	PCIE_TX_C_DN114
PCIE_TX_DP115	C849	220NF	PCIE_TX_C_DP115
PCIE_TX_DN115	C848	220NF	PCIE_TX_C_DN115
PCIE_TX_DP116	C847	220NF	PCIE_TX_C_DP116
PCIE_TX_DN116	C846	220NF	PCIE_TX_C_DN116
PCIE_TX_DP117	C845	220NF	PCIE_TX_C_DP117
PCIE_TX_DN117	C844	220NF	PCIE_TX_C_DN117
PCIE_TX_DP118	C843	220NF	PCIE_TX_C_DP118
PCIE_TX_DN118	C842	220NF	PCIE_TX_C_DN118
PCIE_TX_DP119	C841	220NF	PCIE_TX_C_DP119
PCIE_TX_DN119	C840	220NF	PCIE_TX_C_DN119
PCIE_TX_DP120	C839	220NF	PCIE_TX_C_DP120
PCIE_TX_DN120	C838	220NF	PCIE_TX_C_DN120
PCIE_TX_DP121	C837	220NF	PCIE_TX_C_DP121
PCIE_TX_DN121	C836	220NF	PCIE_TX_C_DN121
PCIE_TX_DP122	C835	220NF	PCIE_TX_C_DP122
PCIE_TX_DN122	C834	220NF	PCIE_TX_C_DN122
PCIE_TX_DP123	C833	220NF	PCIE_TX_C_DP123
PCIE_TX_DN123	C832	220NF	PCIE_TX_C_DN123
PCIE_TX_DP124	C831	220NF	PCIE_TX_C_DP124
PCIE_TX_DN124	C830	220NF	PCIE_TX_C_DN124
PCIE_TX_DP125	C829	220NF	PCIE_TX_C_DP125
PCIE_TX_DN125	C828	220NF	PCIE_TX_C_DN125
PCIE_TX_DP126	C827	220NF	PCIE_TX_C_DP126
PCIE_TX_DN126	C826	220NF	PCIE_TX_C_DN126
PCIE_TX_DP127	C825	220NF	PCIE_TX_C_DP127
PCIE_TX_DN127	C824	220NF	PCIE_TX_C_DN127

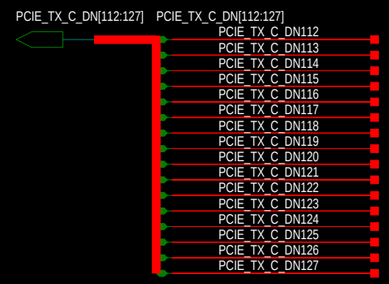
PCIE_TX_DP128	C902	220NF	PCIE_TX_C_DP128
PCIE_TX_DN128	C901	220NF	PCIE_TX_C_DN128
PCIE_TX_DP129	C900	220NF	PCIE_TX_C_DP129
PCIE_TX_DN129	C899	220NF	PCIE_TX_C_DN129
PCIE_TX_DP130	C898	220NF	PCIE_TX_C_DP130
PCIE_TX_DN130	C897	220NF	PCIE_TX_C_DN130
PCIE_TX_DP131	C896	220NF	PCIE_TX_C_DP131
PCIE_TX_DN131	C895	220NF	PCIE_TX_C_DN131
PCIE_TX_DP132	C894	220NF	PCIE_TX_C_DP132
PCIE_TX_DN132	C893	220NF	PCIE_TX_C_DN132
PCIE_TX_DP133	C892	220NF	PCIE_TX_C_DP133
PCIE_TX_DN133	C891	220NF	PCIE_TX_C_DN133
PCIE_TX_DP134	C890	220NF	PCIE_TX_C_DP134
PCIE_TX_DN134	C889	220NF	PCIE_TX_C_DN134
PCIE_TX_DP135	C888	220NF	PCIE_TX_C_DP135
PCIE_TX_DN135	C903	220NF	PCIE_TX_C_DN135

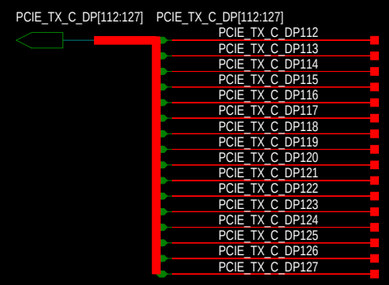












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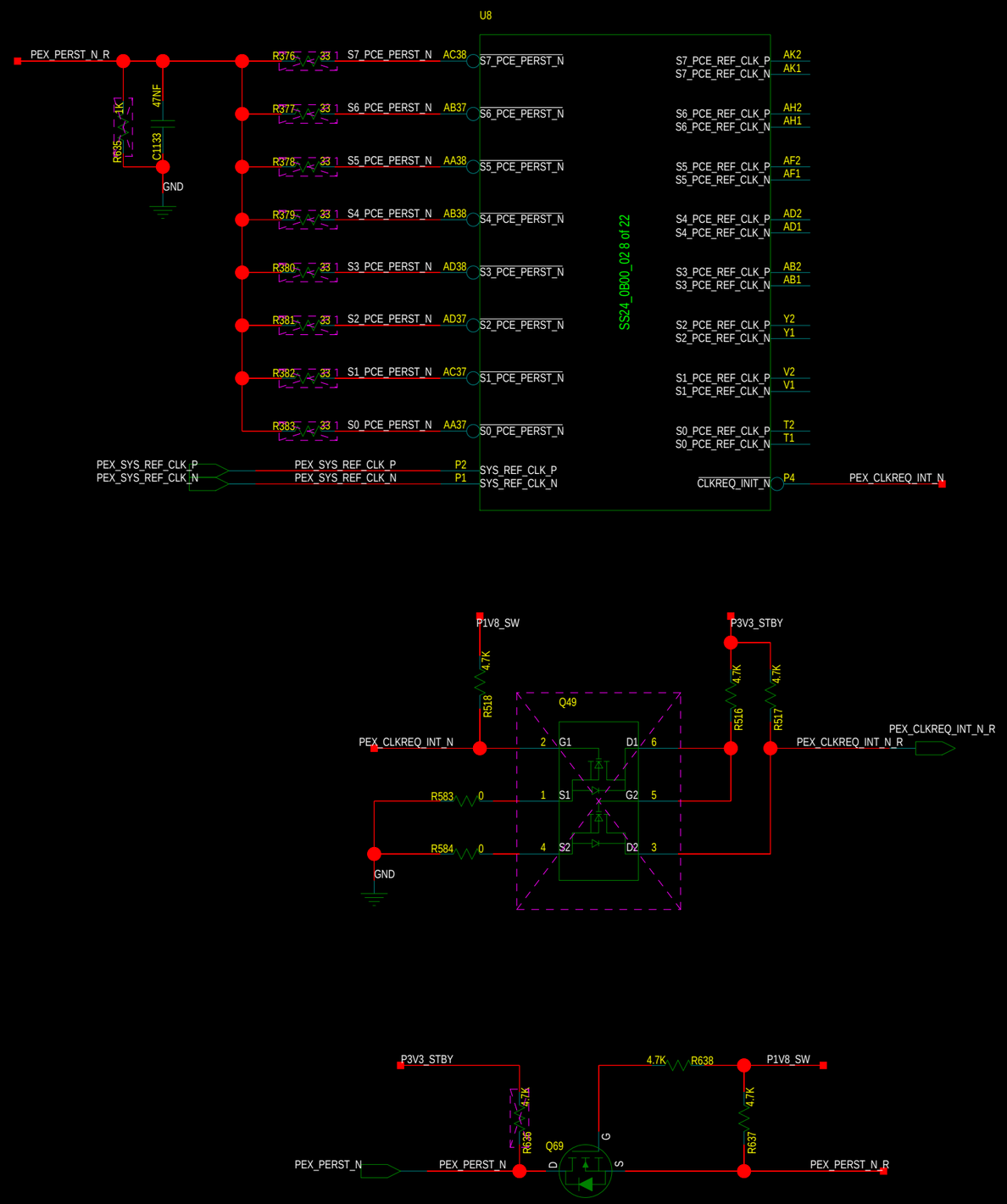

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BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 8 OF 190	REV
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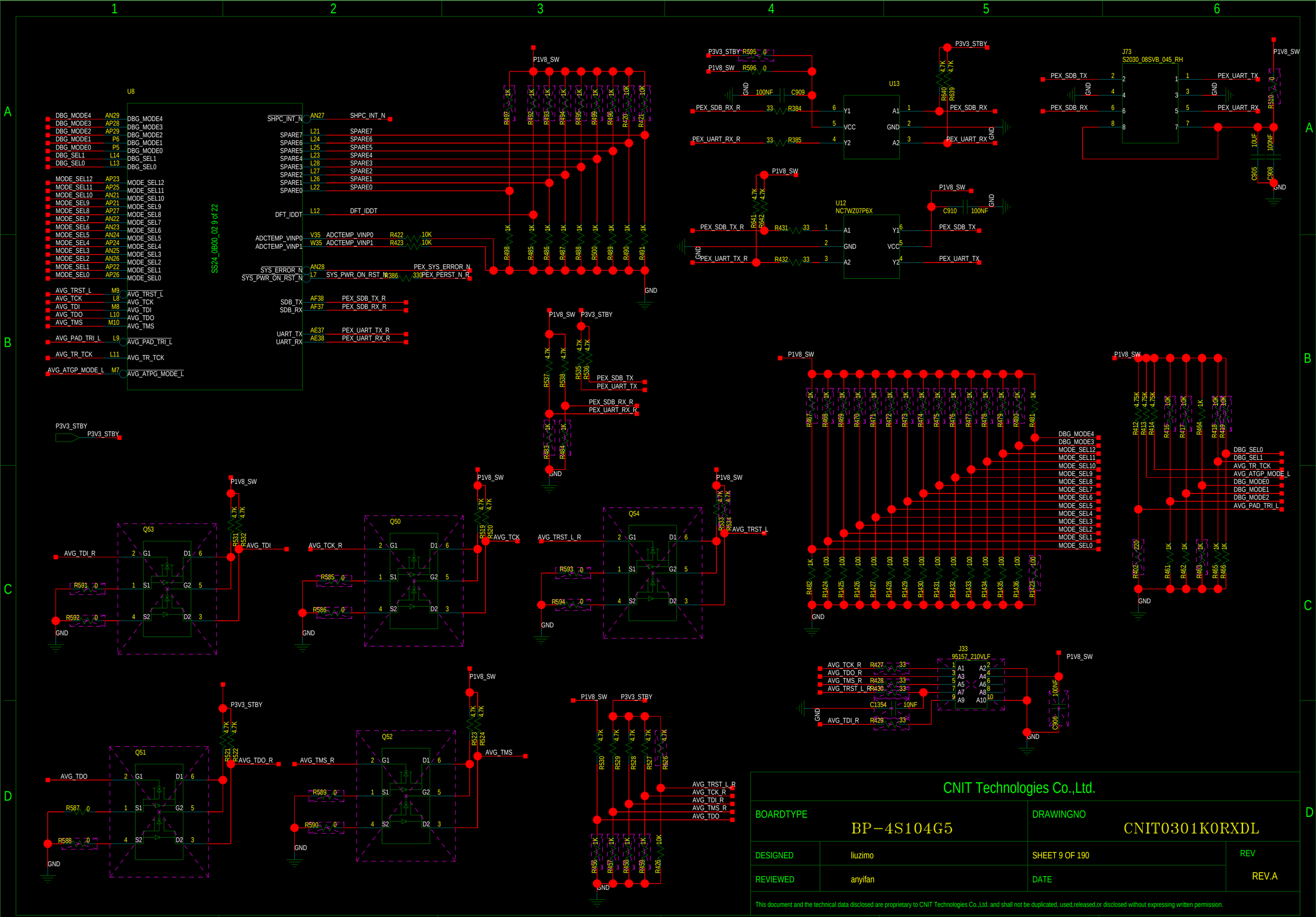
U8
SS24_0B00_02 9 of 22
DBG_MODE4 AN29
DBG_MODE3 AP28
DBG_MODE2 AP29
DBG_MODE1 P6
DBG_MODE0 P5
DBG_SEL1 L14
DBG_SEL0 L13
MODE_SEL12 AP23
MODE_SEL11 AP25
MODE_SEL10 AN21
MODE_SEL9 AP21
MODE_SEL8 AP27
MODE_SEL7 AN22
MODE_SEL6 AN23
MODE_SEL5 AN24
MODE_SEL4 AP24
MODE_SEL3 AN25
MODE_SEL2 AN26
MODE_SEL1 AP22
MODE_SEL0 AP26
AVG_TRST_L M9
AVG_TCK L8
AVG_TDI M8
AVG_TDO L10
AVG_TMS M10
AVG_PAD_TRI_L L9
AVG_TR_TCK L11
AVG_ATGP_MODE_L M7
SHPC_INT_N AN27
SPARE7 L21
SPARE6 L24
SPARE5 L25
SPARE4 L23
SPARE3 L28
SPARE2 L27
SPARE1 L26
SPARE0 L22
DFT_IDDT L12
ADCTEMP_VINP0 V35
ADCTEMP_VINP1 W35
SYS_ERROR_N AN28
SYS_PWR_ON_RST_N L7
SDB_TX AF38
SDB_RX AF37
UART_TX AE37
UART_RX AE38
P1V8_SW
P3V3_STBY
GND
Q53
Q50
Q54
Q51
Q52
U13
U12
NC7WZ07P6X
J73
S2030_08SVB_045_RH
J33
95157_210VLF
CNIT Technologies Co.,Ltd.
BOARDTYPE
BP-4S104G5
DRAWINGNO
CNIT0301K0RXDL
DESIGNED
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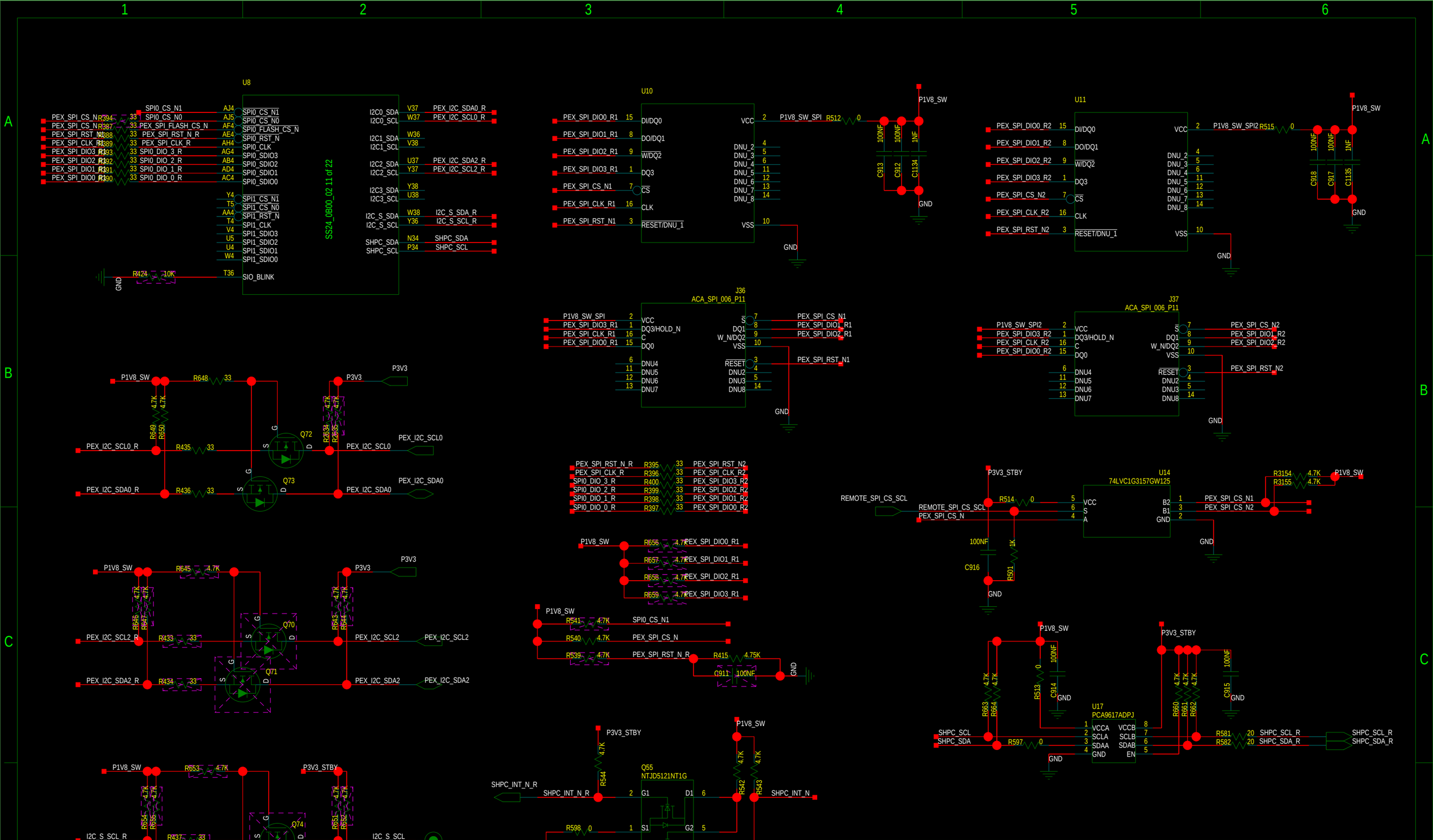

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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
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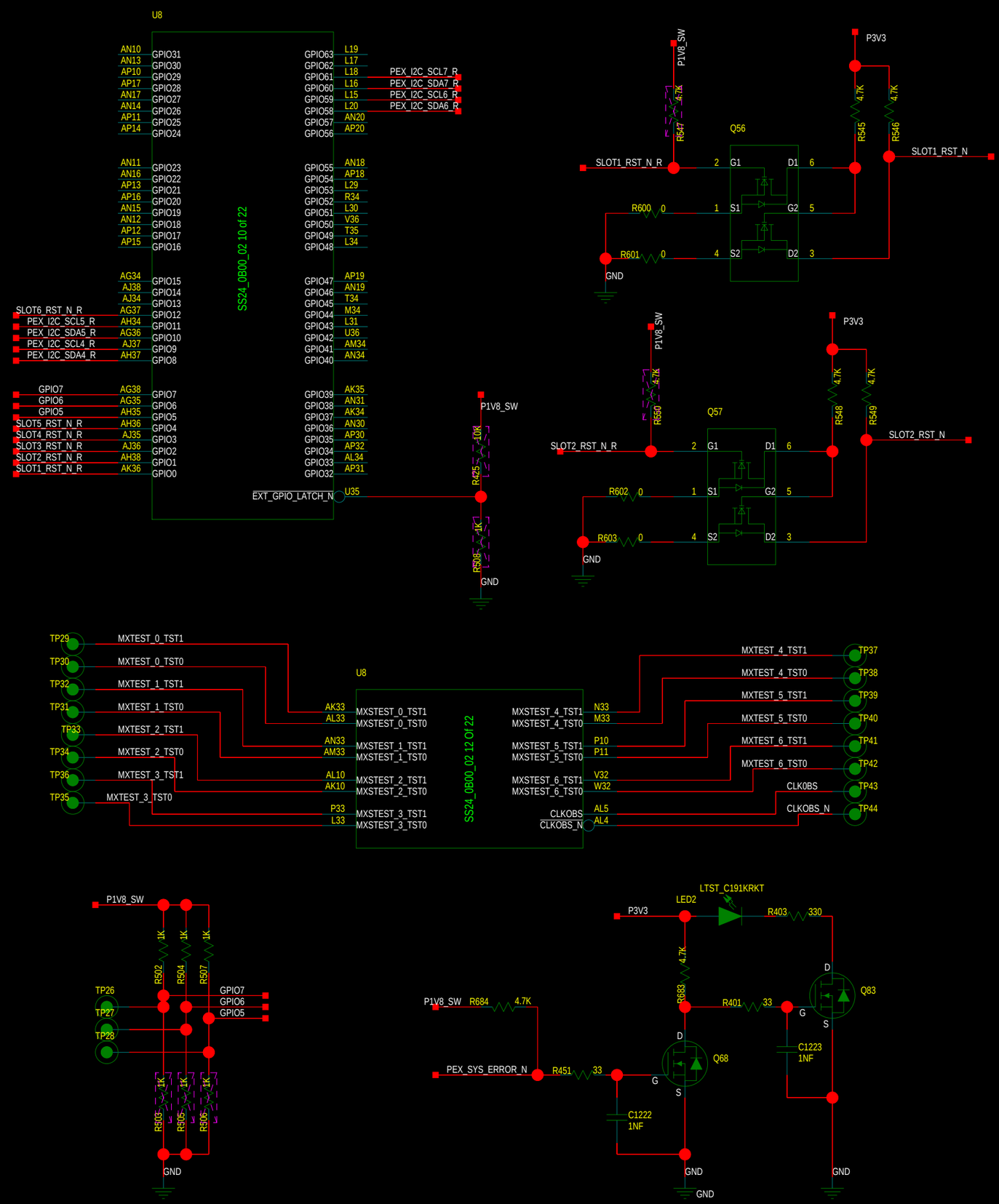

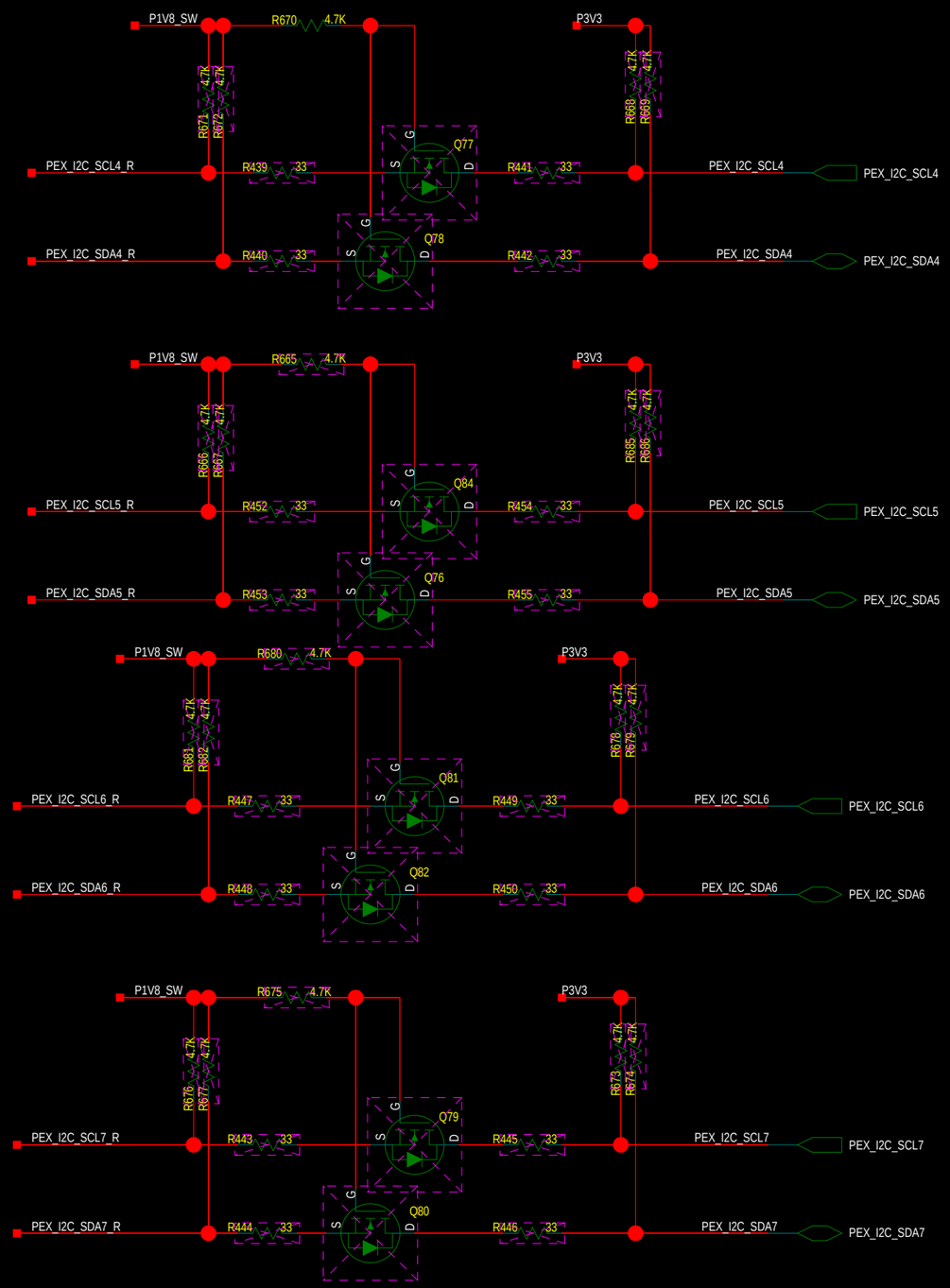

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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
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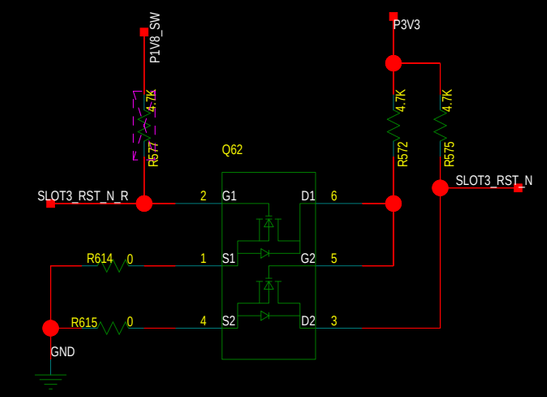

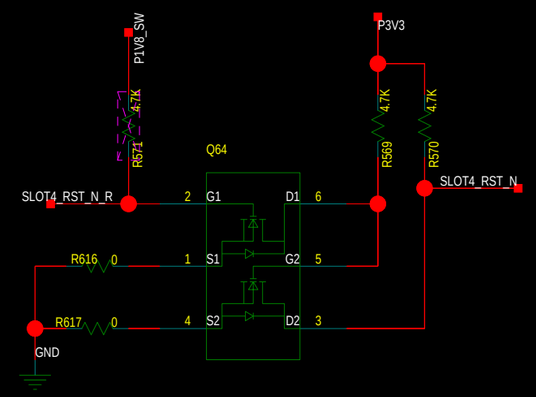

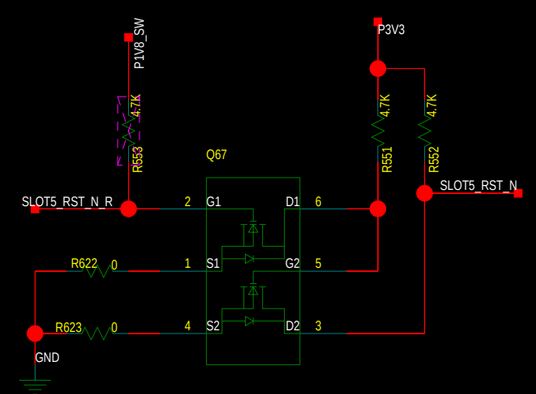

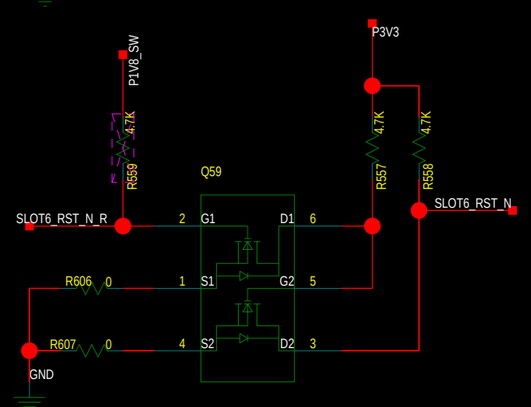

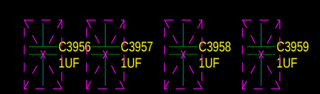

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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
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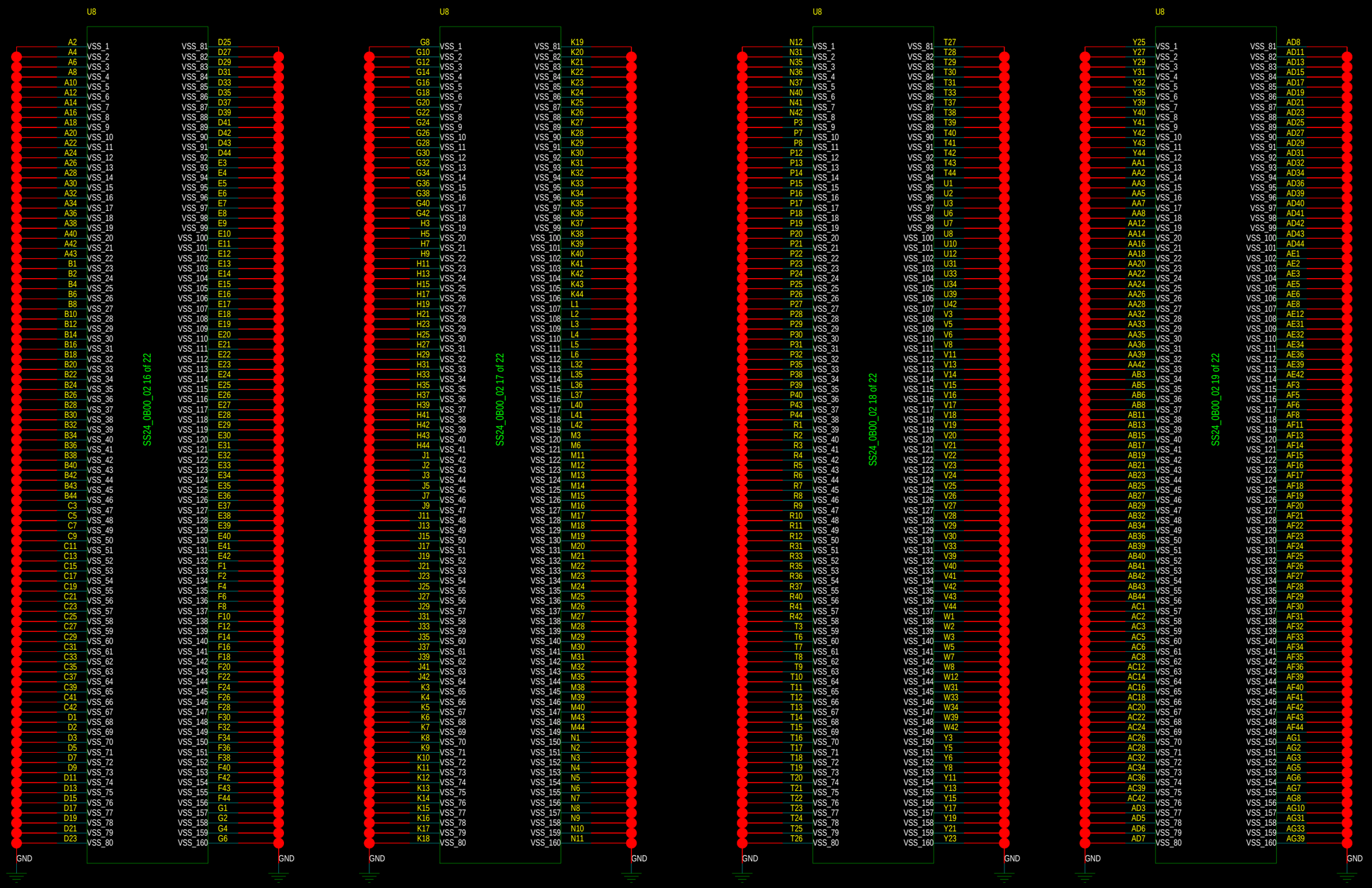

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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
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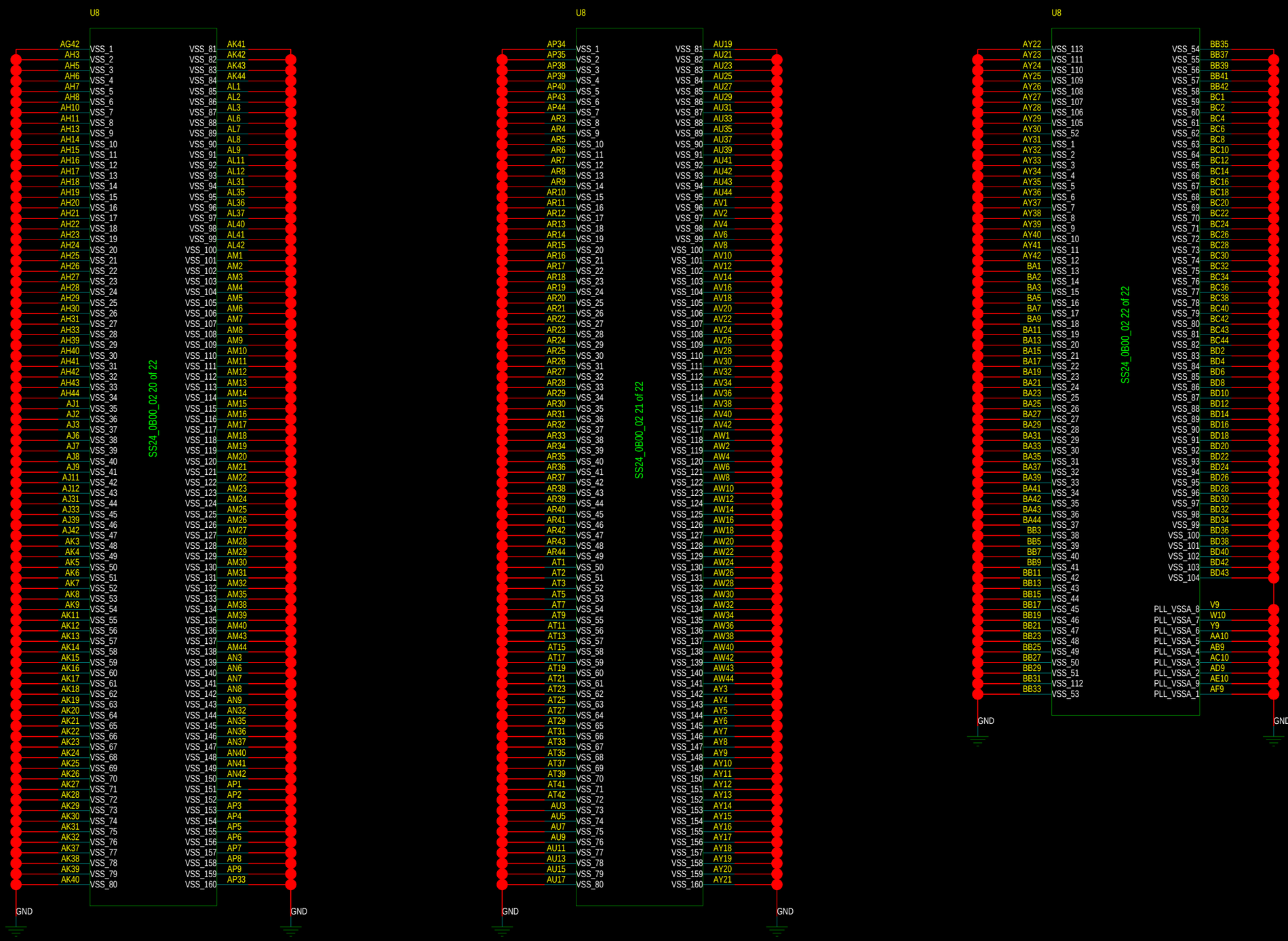

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BOARDTYPE BP−4S104G5		DRAWINGNO CNIT0301K0RXDL	
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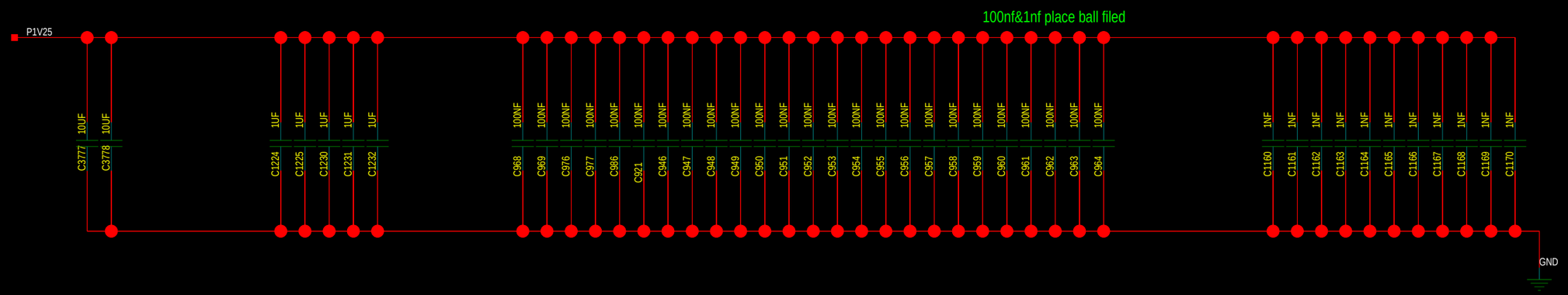
0.1U CAPS = 28
1NF CAPS =12
1UF CAPS = 6
10UF CAPS = 4



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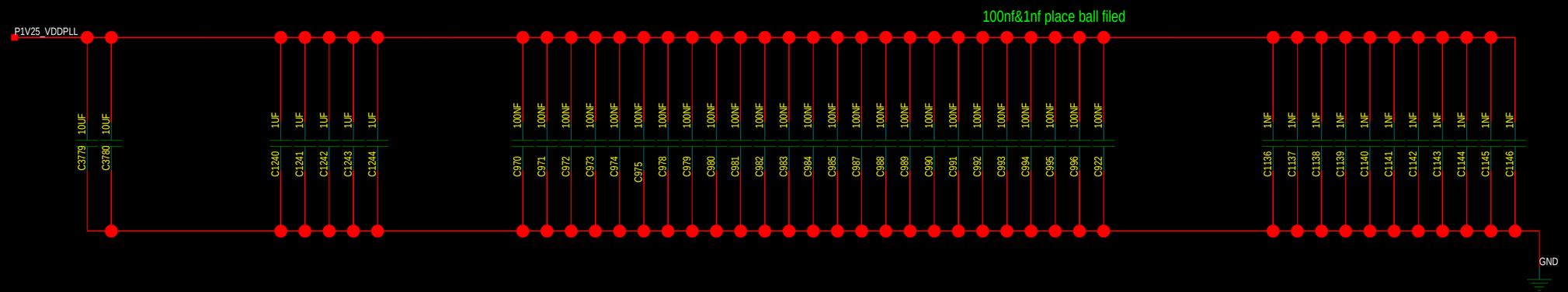
1NF CAPS =12
1UF CAPS = 6
10UF CAPS = 4



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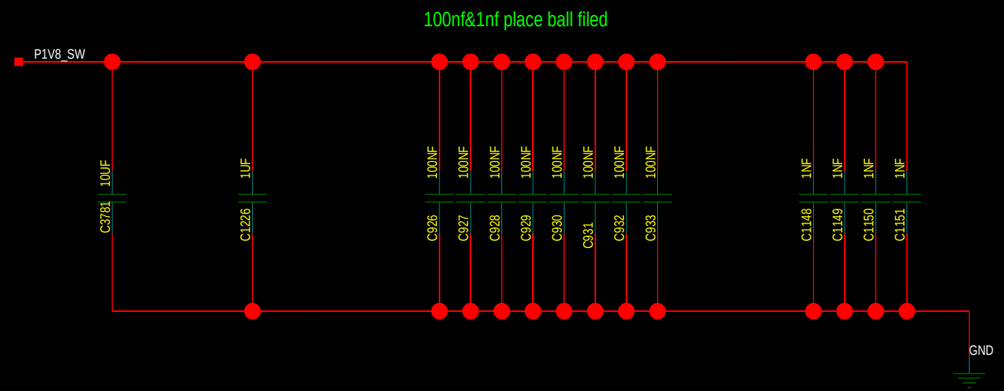
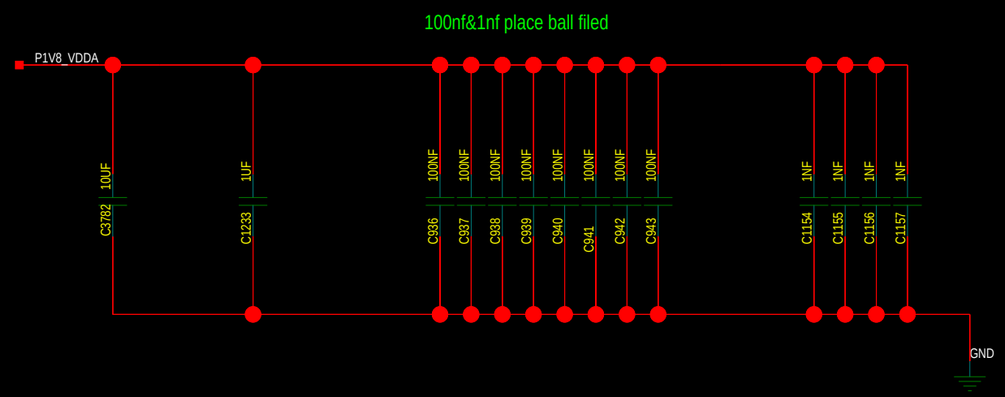
1NF CAPS = 6
1UF CAPS = 2
10UF CAPS = 1



0.1U CAPS = 10
1NF CAPS = 6
1UF CAPS = 2
10UF CAPS = 1



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BOARDTYPE BP−4S104G5		DRAWINGNO CNIT0301K0RXDL	
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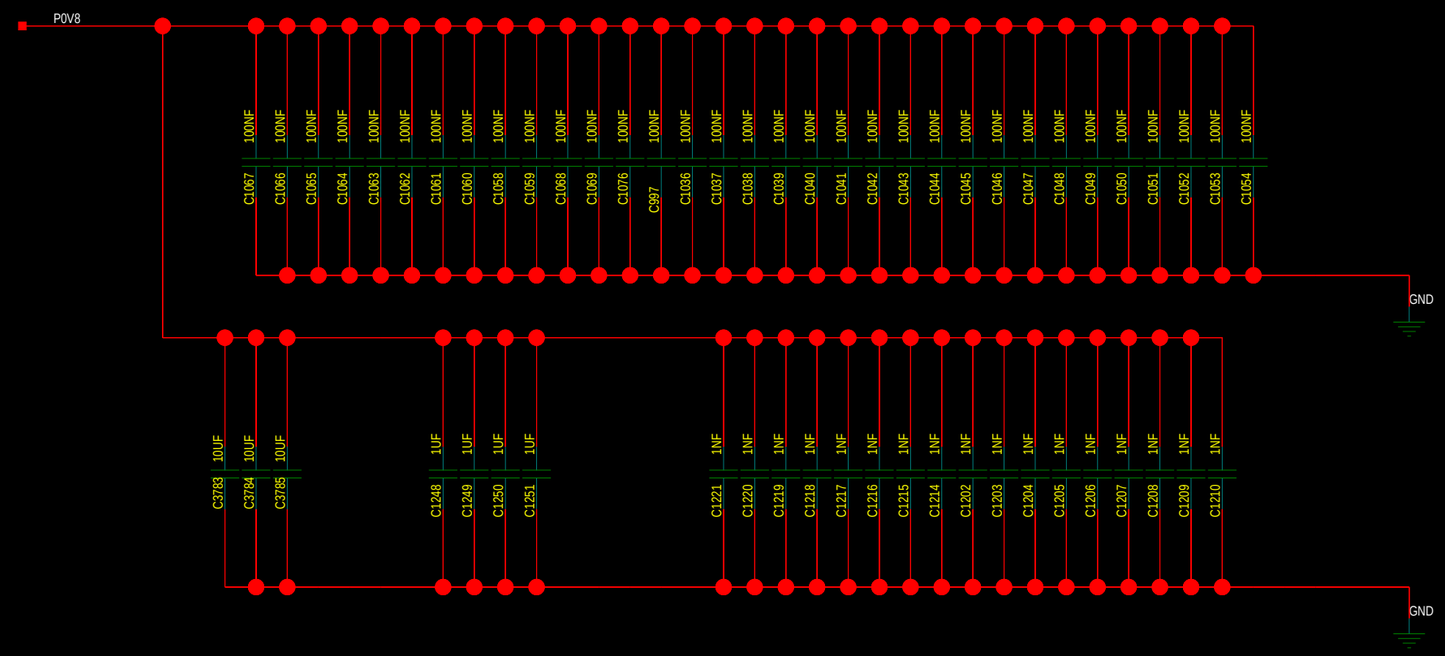
0.1U CAPS = 36
1NF CAPS =20
1UF CAPS = 6
10UF CAPS = 4

100nf&1nf place ball filed



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1UF CAPS = 6
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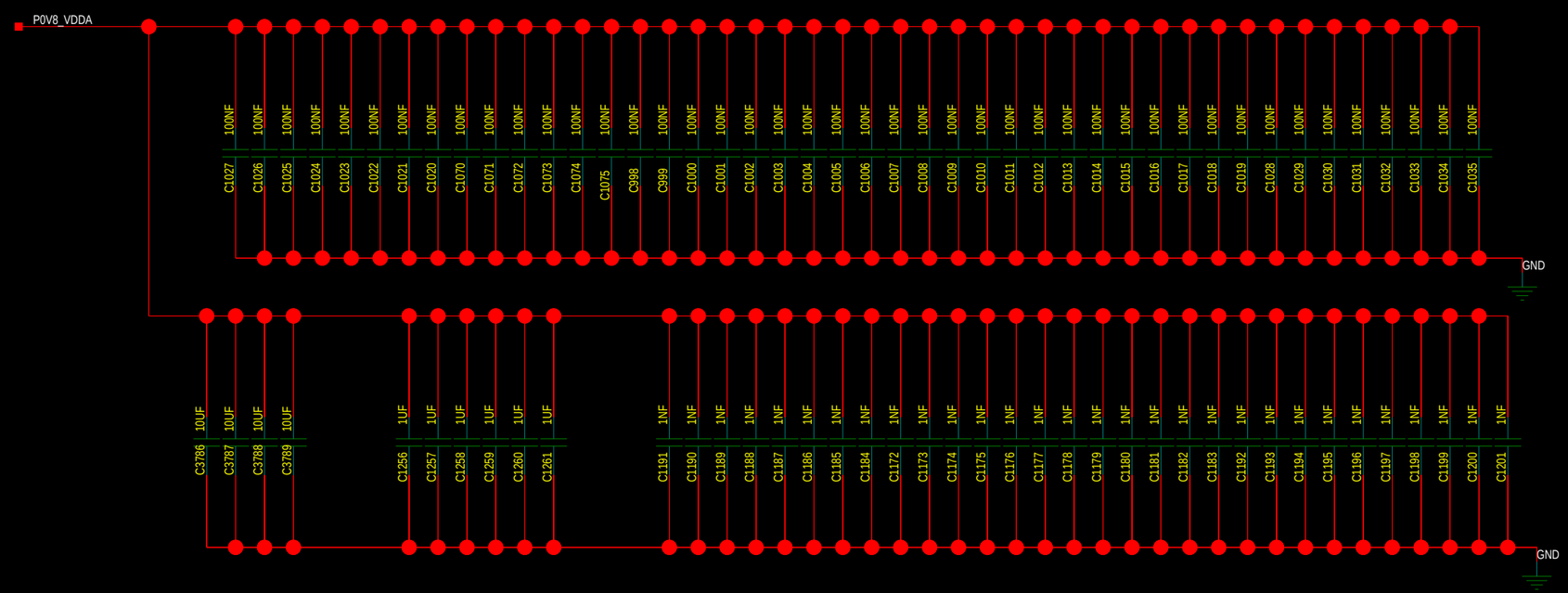

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BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 17 OF 190	REV
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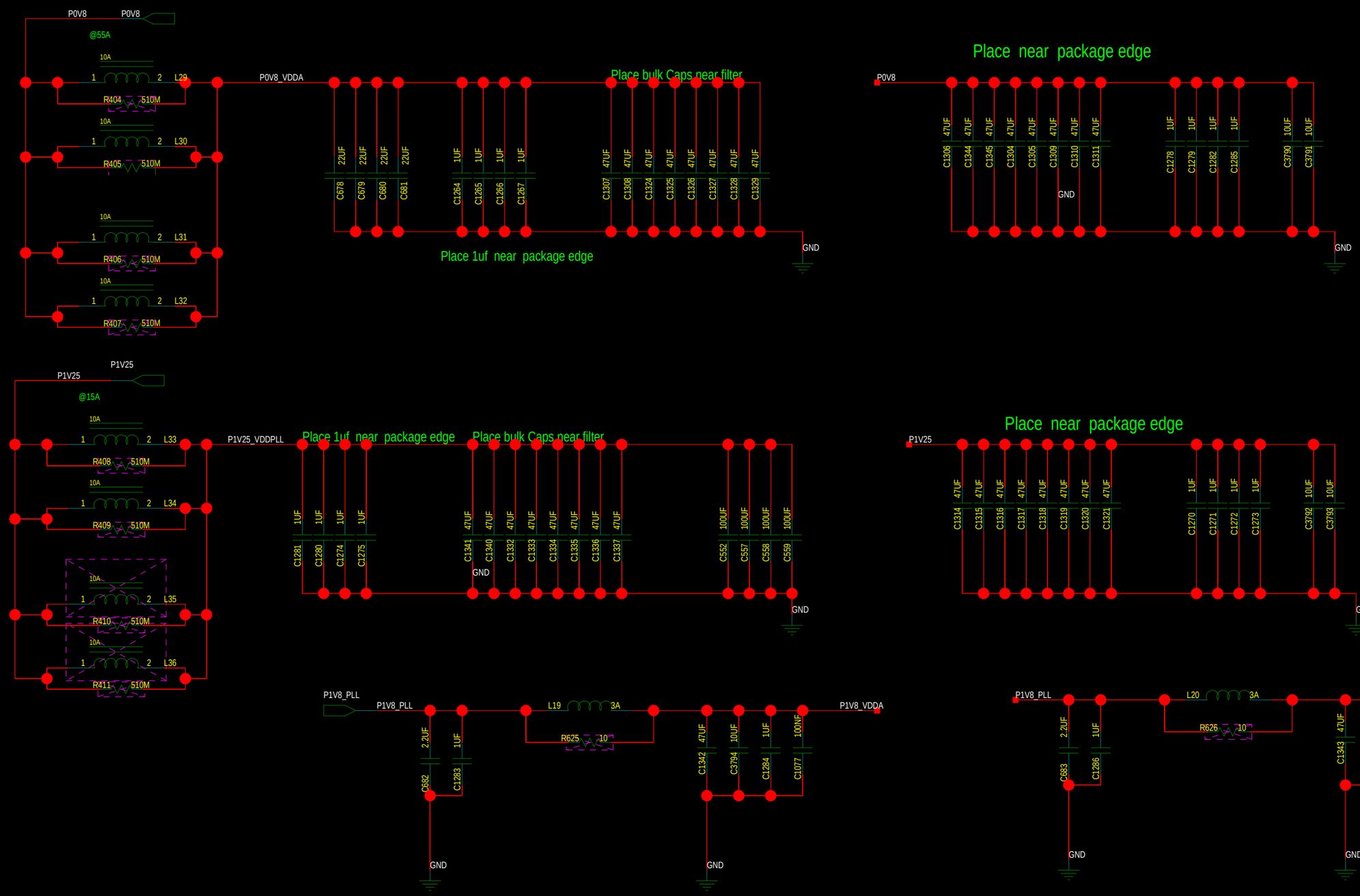

CNIT Technologies Co.,Ltd.			
BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 18 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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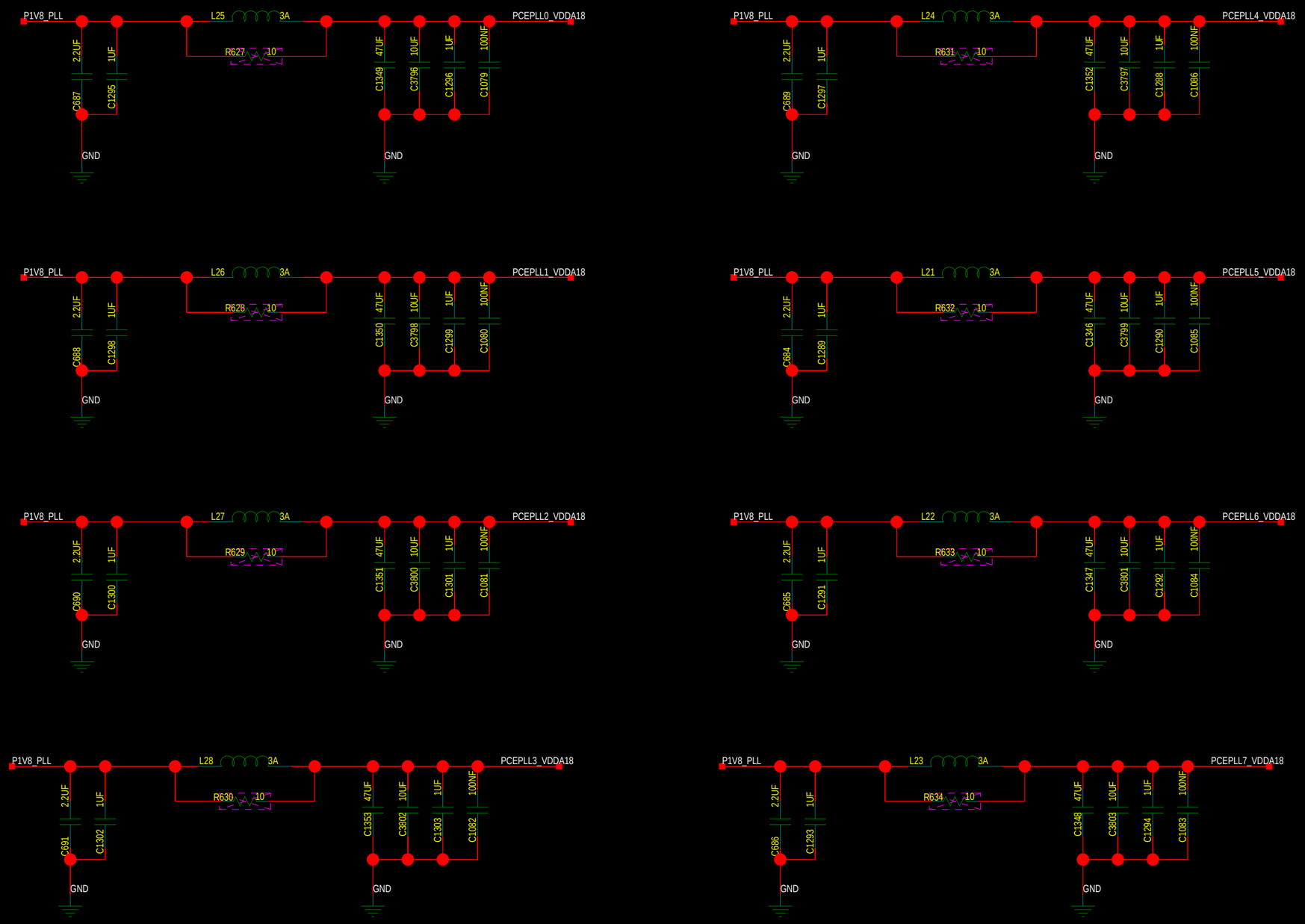

CNIT Technologies Co.,Ltd.			
BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 19 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 37 OF 190	REV
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CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 38 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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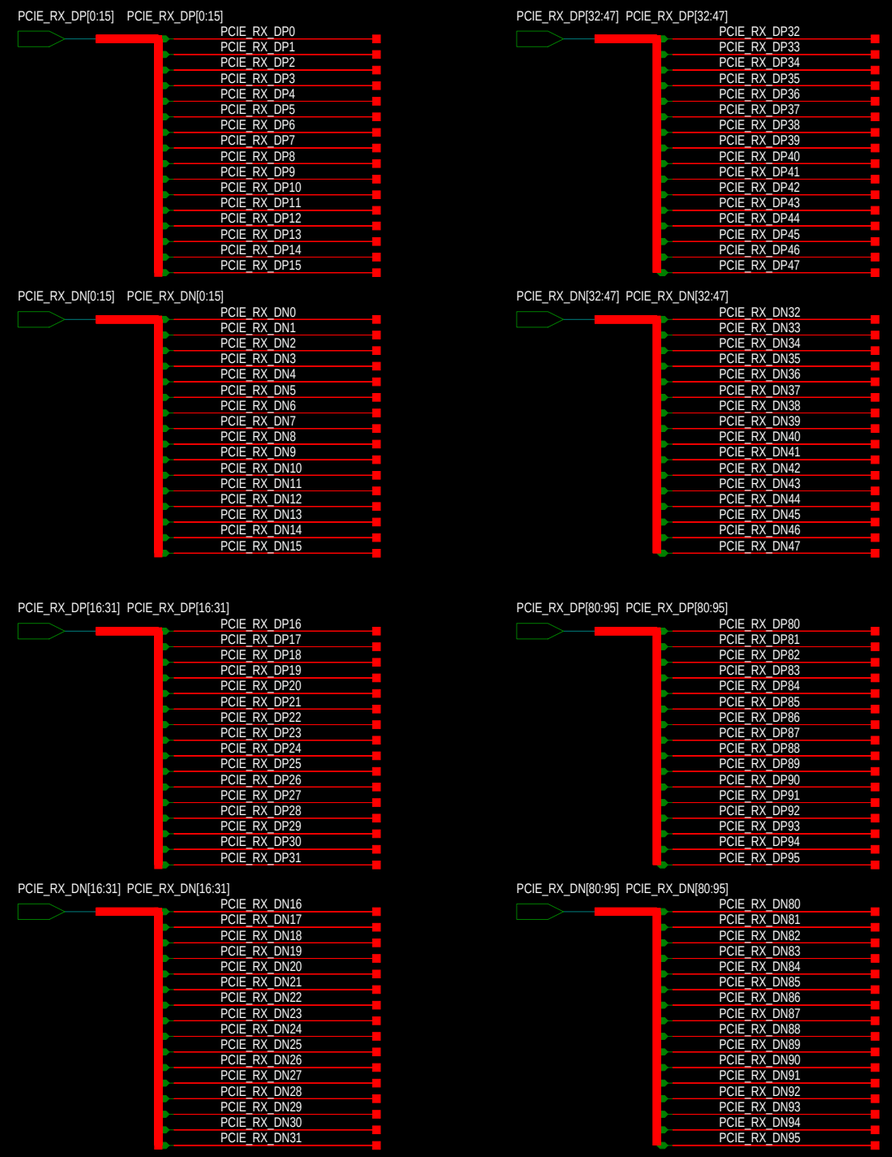

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 39 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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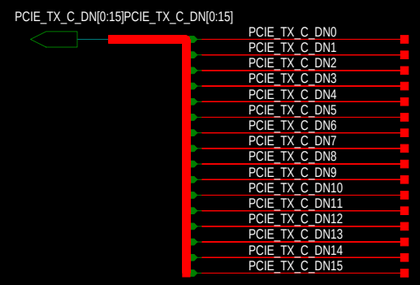
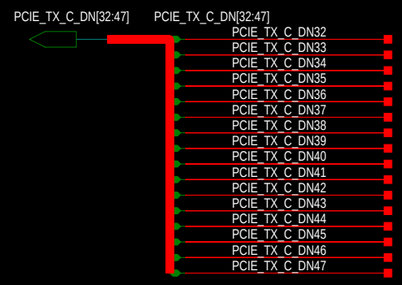
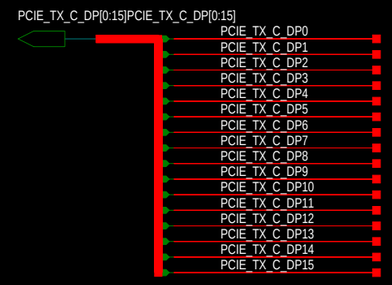
AC Cuppling capacitors near pex89104

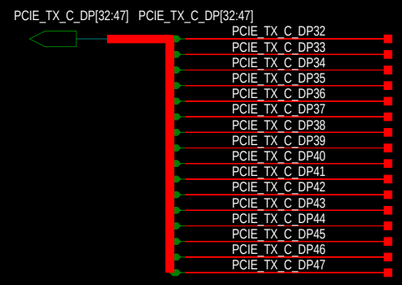
PCIE_TX_DP0	C1436	220NF	PCIE_TX_C_DP0
PCIE_TX_DN0	C1435	220NF	PCIE_TX_C_DN0
PCIE_TX_DP1	C1434	220NF	PCIE_TX_C_DP1
PCIE_TX_DN1	C1433	220NF	PCIE_TX_C_DN1
PCIE_TX_DP2	C1432	220NF	PCIE_TX_C_DP2
PCIE_TX_DN2	C1431	220NF	PCIE_TX_C_DN2
PCIE_TX_DP3	C1430	220NF	PCIE_TX_C_DP3
PCIE_TX_DN3	C1429	220NF	PCIE_TX_C_DN3
PCIE_TX_DP4	C1428	220NF	PCIE_TX_C_DP4
PCIE_TX_DN4	C1427	220NF	PCIE_TX_C_DN4
PCIE_TX_DP5	C1426	220NF	PCIE_TX_C_DP5
PCIE_TX_DN5	C1425	220NF	PCIE_TX_C_DN5
PCIE_TX_DP6	C1424	220NF	PCIE_TX_C_DP6
PCIE_TX_DN6	C1423	220NF	PCIE_TX_C_DN6
PCIE_TX_DP7	C1422	220NF	PCIE_TX_C_DP7
PCIE_TX_DN7	C1421	220NF	PCIE_TX_C_DN7
PCIE_TX_DP8	C1420	220NF	PCIE_TX_C_DP8
PCIE_TX_DN8	C1419	220NF	PCIE_TX_C_DN8
PCIE_TX_DP9	C1418	220NF	PCIE_TX_C_DP9
PCIE_TX_DN9	C1417	220NF	PCIE_TX_C_DN9
PCIE_TX_DP10	C1416	220NF	PCIE_TX_C_DP10
PCIE_TX_DN10	C1415	220NF	PCIE_TX_C_DN10
PCIE_TX_DP11	C1414	220NF	PCIE_TX_C_DP11
PCIE_TX_DN11	C1413	220NF	PCIE_TX_C_DN11
PCIE_TX_DP12	C1412	220NF	PCIE_TX_C_DP12
PCIE_TX_DN12	C1411	220NF	PCIE_TX_C_DN12
PCIE_TX_DP13	C1410	220NF	PCIE_TX_C_DP13
PCIE_TX_DN13	C1409	220NF	PCIE_TX_C_DN13
PCIE_TX_DP14	C1408	220NF	PCIE_TX_C_DP14
PCIE_TX_DN14	C1407	220NF	PCIE_TX_C_DN14
PCIE_TX_DP15	C1406	220NF	PCIE_TX_C_DP15
PCIE_TX_DN15	C1405	220NF	PCIE_TX_C_DN15

PCIE_TX_DP32	C1468	220NF	PCIE_TX_C_DP32
PCIE_TX_DN32	C1467	220NF	PCIE_TX_C_DN32
PCIE_TX_DP33	C1466	220NF	PCIE_TX_C_DP33
PCIE_TX_DN33	C1465	220NF	PCIE_TX_C_DN33
PCIE_TX_DP34	C1464	220NF	PCIE_TX_C_DP34
PCIE_TX_DN34	C1463	220NF	PCIE_TX_C_DN34
PCIE_TX_DP35	C1462	220NF	PCIE_TX_C_DP35
PCIE_TX_DN35	C1461	220NF	PCIE_TX_C_DN35
PCIE_TX_DP36	C1460	220NF	PCIE_TX_C_DP36
PCIE_TX_DN36	C1459	220NF	PCIE_TX_C_DN36
PCIE_TX_DP37	C1458	220NF	PCIE_TX_C_DP37
PCIE_TX_DN37	C1457	220NF	PCIE_TX_C_DN37
PCIE_TX_DP38	C1456	220NF	PCIE_TX_C_DP38
PCIE_TX_DN38	C1455	220NF	PCIE_TX_C_DN38
PCIE_TX_DP39	C1454	220NF	PCIE_TX_C_DP39
PCIE_TX_DN39	C1453	220NF	PCIE_TX_C_DN39
PCIE_TX_DP40	C1452	220NF	PCIE_TX_C_DP40
PCIE_TX_DN40	C1451	220NF	PCIE_TX_C_DN40
PCIE_TX_DP41	C1450	220NF	PCIE_TX_C_DP41
PCIE_TX_DN41	C1449	220NF	PCIE_TX_C_DN41
PCIE_TX_DP42	C1448	220NF	PCIE_TX_C_DP42
PCIE_TX_DN42	C1447	220NF	PCIE_TX_C_DN42
PCIE_TX_DP43	C1446	220NF	PCIE_TX_C_DP43
PCIE_TX_DN43	C1445	220NF	PCIE_TX_C_DN43
PCIE_TX_DP44	C1444	220NF	PCIE_TX_C_DP44
PCIE_TX_DN44	C1443	220NF	PCIE_TX_C_DN44
PCIE_TX_DP45	C1442	220NF	PCIE_TX_C_DP45
PCIE_TX_DN45	C1441	220NF	PCIE_TX_C_DN45
PCIE_TX_DP46	C1440	220NF	PCIE_TX_C_DP46
PCIE_TX_DN46	C1439	220NF	PCIE_TX_C_DN46
PCIE_TX_DP47	C1438	220NF	PCIE_TX_C_DP47
PCIE_TX_DN47	C1437	220NF	PCIE_TX_C_DN47



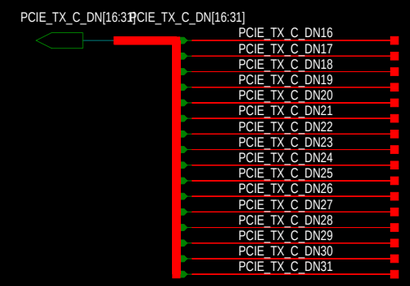


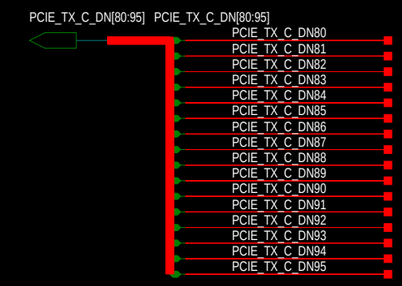


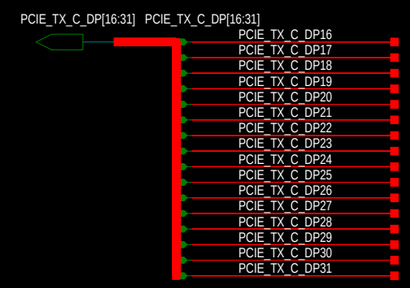


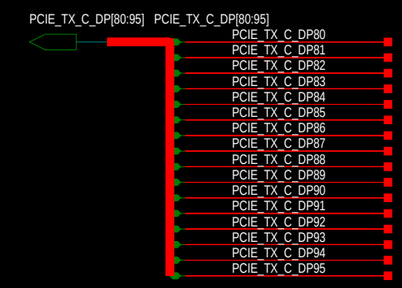
PCIE_TX_DP16	C1500	220NF	PCIE_TX_C_DP16
PCIE_TX_DN16	C1499	220NF	PCIE_TX_C_DN16
PCIE_TX_DP17	C1498	220NF	PCIE_TX_C_DP17
PCIE_TX_DN17	C1497	220NF	PCIE_TX_C_DN17
PCIE_TX_DP18	C1496	220NF	PCIE_TX_C_DP18
PCIE_TX_DN18	C1495	220NF	PCIE_TX_C_DN18
PCIE_TX_DP19	C1494	220NF	PCIE_TX_C_DP19
PCIE_TX_DN19	C1493	220NF	PCIE_TX_C_DN19
PCIE_TX_DP20	C1492	220NF	PCIE_TX_C_DP20
PCIE_TX_DN20	C1491	220NF	PCIE_TX_C_DN20
PCIE_TX_DP21	C1490	220NF	PCIE_TX_C_DP21
PCIE_TX_DN21	C1489	220NF	PCIE_TX_C_DN21
PCIE_TX_DP22	C1488	220NF	PCIE_TX_C_DP22
PCIE_TX_DN22	C1487	220NF	PCIE_TX_C_DN22
PCIE_TX_DP23	C1486	220NF	PCIE_TX_C_DP23
PCIE_TX_DN23	C1485	220NF	PCIE_TX_C_DN23
PCIE_TX_DP24	C1484	220NF	PCIE_TX_C_DP24
PCIE_TX_DN24	C1483	220NF	PCIE_TX_C_DN24
PCIE_TX_DP25	C1482	220NF	PCIE_TX_C_DP25
PCIE_TX_DN25	C1481	220NF	PCIE_TX_C_DN25
PCIE_TX_DP26	C1480	220NF	PCIE_TX_C_DP26
PCIE_TX_DN26	C1479	220NF	PCIE_TX_C_DN26
PCIE_TX_DP27	C1478	220NF	PCIE_TX_C_DP27
PCIE_TX_DN27	C1477	220NF	PCIE_TX_C_DN27
PCIE_TX_DP28	C1476	220NF	PCIE_TX_C_DP28
PCIE_TX_DN28	C1475	220NF	PCIE_TX_C_DN28
PCIE_TX_DP29	C1474	220NF	PCIE_TX_C_DP29
PCIE_TX_DN29	C1473	220NF	PCIE_TX_C_DN29
PCIE_TX_DP30	C1472	220NF	PCIE_TX_C_DP30
PCIE_TX_DN30	C1471	220NF	PCIE_TX_C_DN30
PCIE_TX_DP31	C1470	220NF	PCIE_TX_C_DP31
PCIE_TX_DN31	C1469	220NF	PCIE_TX_C_DN31

PCIE_TX_DP80	C1404	220NF	PCIE_TX_C_DP80
PCIE_TX_DN80	C1403	220NF	PCIE_TX_C_DN80
PCIE_TX_DP81	C1402	220NF	PCIE_TX_C_DP81
PCIE_TX_DN81	C1401	220NF	PCIE_TX_C_DN81
PCIE_TX_DP82	C1400	220NF	PCIE_TX_C_DP82
PCIE_TX_DN82	C1399	220NF	PCIE_TX_C_DN82
PCIE_TX_DP83	C1398	220NF	PCIE_TX_C_DP83
PCIE_TX_DN83	C1397	220NF	PCIE_TX_C_DN83
PCIE_TX_DP84	C1396	220NF	PCIE_TX_C_DP84
PCIE_TX_DN84	C1395	220NF	PCIE_TX_C_DN84
PCIE_TX_DP85	C1394	220NF	PCIE_TX_C_DP85
PCIE_TX_DN85	C1393	220NF	PCIE_TX_C_DN85
PCIE_TX_DP86	C1392	220NF	PCIE_TX_C_DP86
PCIE_TX_DN86	C1391	220NF	PCIE_TX_C_DN86
PCIE_TX_DP87	C1390	220NF	PCIE_TX_C_DP87
PCIE_TX_DN87	C1389	220NF	PCIE_TX_C_DN87
PCIE_TX_DP88	C1388	220NF	PCIE_TX_C_DP88
PCIE_TX_DN88	C1387	220NF	PCIE_TX_C_DN88
PCIE_TX_DP89	C1386	220NF	PCIE_TX_C_DP89
PCIE_TX_DN89	C1385	220NF	PCIE_TX_C_DN89
PCIE_TX_DP90	C1384	220NF	PCIE_TX_C_DP90
PCIE_TX_DN90	C1383	220NF	PCIE_TX_C_DN90
PCIE_TX_DP91	C1382	220NF	PCIE_TX_C_DP91
PCIE_TX_DN91	C1381	220NF	PCIE_TX_C_DN91
PCIE_TX_DP92	C1380	220NF	PCIE_TX_C_DP92
PCIE_TX_DN92	C1379	220NF	PCIE_TX_C_DN92
PCIE_TX_DP93	C1378	220NF	PCIE_TX_C_DP93
PCIE_TX_DN93	C1377	220NF	PCIE_TX_C_DN93
PCIE_TX_DP94	C1376	220NF	PCIE_TX_C_DP94
PCIE_TX_DN94	C1375	220NF	PCIE_TX_C_DN94
PCIE_TX_DP95	C1374	220NF	PCIE_TX_C_DP95
PCIE_TX_DN95	C1373	220NF	PCIE_TX_C_DN95









CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 40 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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PCIE_RX_DP111	D16	RXP111	TXP111	J16	PCIE_TX_DP111
PCIE_RX_DN111	C16	RXN111	TXN111	H16	PCIE_TX_DN111
PCIE_RX_DP110	B17	RXP110	TXP110	G17	PCIE_TX_DP110
PCIE_RX_DN110	A17	RXN110	TXN110	F17	PCIE_TX_DN110
PCIE_RX_DP109	D18	RXP109	TXP109	J18	PCIE_TX_DP109
PCIE_RX_DN109	C18	RXN109	TXN109	H18	PCIE_TX_DN109
PCIE_RX_DP108	B19	RXP108	TXP108	G19	PCIE_TX_DP108
PCIE_RX_DN108	A19	RXN108	TXN108	F19	PCIE_TX_DN108
PCIE_RX_DP107	D20	RXP107	TXP107	J20	PCIE_TX_DP107
PCIE_RX_DN107	C20	RXN107	TXN107	H20	PCIE_TX_DN107
PCIE_RX_DP106	B21	RXP106	TXP106	G21	PCIE_TX_DP106
PCIE_RX_DN106	A21	RXN106	TXN106	F21	PCIE_TX_DN106
PCIE_RX_DP105	D22	RXP105	TXP105	J22	PCIE_TX_DP105
PCIE_RX_DN105	C22	RXN105	TXN105	H22	PCIE_TX_DN105
PCIE_RX_DP104	B23	RXP104	TXP104	G23	PCIE_TX_DP104
PCIE_RX_DN104	A23	RXN104	TXN104	F23	PCIE_TX_DN104
PCIE_RX_DP103	D24	RXP103	TXP103	J24	PCIE_TX_DP103
PCIE_RX_DN103	C24	RXN103	TXN103	H24	PCIE_TX_DN103
PCIE_RX_DP102	B25	RXP102	TXP102	G25	PCIE_TX_DP102
PCIE_RX_DN102	A25	RXN102	TXN102	F25	PCIE_TX_DN102
PCIE_RX_DP101	D26	RXP101	TXP101	J26	PCIE_TX_DP101
PCIE_RX_DN101	C26	RXN101	TXN101	H26	PCIE_TX_DN101
PCIE_RX_DP100	B27	RXP100	TXP100	G27	PCIE_TX_DP100
PCIE_RX_DN100	A27	RXN100	TXN100	F27	PCIE_TX_DN100
PCIE_RX_DP99	D28	RXP99	TXP99	J28	PCIE_TX_DP99
PCIE_RX_DN99	C28	RXN99	TXN99	H28	PCIE_TX_DN99
PCIE_RX_DP98	B29	RXP98	TXP98	G29	PCIE_TX_DP98
PCIE_RX_DN98	A29	RXN98	TXN98	F29	PCIE_TX_DN98
PCIE_RX_DP97	D30	RXP97	TXP97	J30	PCIE_TX_DP97
PCIE_RX_DN97	C30	RXN97	TXN97	H30	PCIE_TX_DN97
PCIE_RX_DP96	B31	RXP96	TXP96	G31	PCIE_TX_DP96
PCIE_RX_DN96	A31	RXN96	TXN96	F31	PCIE_TX_DN96

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PCIE_RX_DP127	B15	RXP127	TXP127	G15	PCIE_TX_DP127
PCIE_RX_DN127	A15	RXN127	TXN127	F15	PCIE_TX_DN127
PCIE_RX_DP126	D14	RXP126	TXP126	J14	PCIE_TX_DP126
PCIE_RX_DN126	C14	RXN126	TXN126	H14	PCIE_TX_DN126
PCIE_RX_DP125	B13	RXP125	TXP125	G13	PCIE_TX_DP125
PCIE_RX_DN125	A13	RXN125	TXN125	F13	PCIE_TX_DN125
PCIE_RX_DP124	D12	RXP124	TXP124	J12	PCIE_TX_DP124
PCIE_RX_DN124	C12	RXN124	TXN124	H12	PCIE_TX_DN124
PCIE_RX_DP123	B11	RXP123	TXP123	G11	PCIE_TX_DP123
PCIE_RX_DN123	A11	RXN123	TXN123	F11	PCIE_TX_DN123
PCIE_RX_DP122	D10	RXP122	TXP122	J10	PCIE_TX_DP122
PCIE_RX_DN122	C10	RXN122	TXN122	H10	PCIE_TX_DN122
PCIE_RX_DP121	B9	RXP121	TXP121	G9	PCIE_TX_DP121
PCIE_RX_DN121	A9	RXN121	TXN121	F9	PCIE_TX_DN121
PCIE_RX_DP120	D8	RXP120	TXP120	J8	PCIE_TX_DP120
PCIE_RX_DN120	C8	RXN120	TXN120	H8	PCIE_TX_DN120
PCIE_RX_DP119	B7	RXP119	TXP119	G7	PCIE_TX_DP119
PCIE_RX_DN119	A7	RXN119	TXN119	F7	PCIE_TX_DN119
PCIE_RX_DP118	D6	RXP118	TXP118	J6	PCIE_TX_DP118
PCIE_RX_DN118	C6	RXN118	TXN118	H6	PCIE_TX_DN118
PCIE_RX_DP117	B5	RXP117	TXP117	G5	PCIE_TX_DP117
PCIE_RX_DN117	A5	RXN117	TXN117	F5	PCIE_TX_DN117
PCIE_RX_DP116	D4	RXP116	TXP116	J4	PCIE_TX_DP116
PCIE_RX_DN116	C4	RXN116	TXN116	H4	PCIE_TX_DN116
PCIE_RX_DP115	B3	RXP115	TXP115	G3	PCIE_TX_DP115
PCIE_RX_DN115	A3	RXN115	TXN115	F3	PCIE_TX_DN115
PCIE_RX_DP114	C2	RXP114	TXP114	E2	PCIE_TX_DP114
PCIE_RX_DN114	C1	RXN114	TXN114	E1	PCIE_TX_DN114
PCIE_RX_DP113	K2	RXP113	TXP113	H2	PCIE_TX_DP113
PCIE_RX_DN113	K1	RXN113	TXN113	H1	PCIE_TX_DN113
PCIE_RX_DP112	M2	RXP112	TXP112	M5	PCIE_TX_DP112
PCIE_RX_DN112	M1	RXN112	TXN112	M4	PCIE_TX_DN112

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PCIE_RX_DP135	AJ43	RXP135	TXP135	AJ40	PCIE_TX_DP135
PCIE_RX_DN135	AJ44	RXN135	TXN135	AJ41	PCIE_TX_DN135
PCIE_RX_DP134	AG43	RXP134	TXP134	AG40	PCIE_TX_DP134
PCIE_RX_DN134	AG44	RXN134	TXN134	AG41	PCIE_TX_DN134
PCIE_RX_DP133	AE43	RXP133	TXP133	AE40	PCIE_TX_DP133
PCIE_RX_DN133	AE44	RXN133	TXN133	AE41	PCIE_TX_DN133
PCIE_RX_DP132	AC43	RXP132	TXP132	AC40	PCIE_TX_DP132
PCIE_RX_DN132	AC44	RXN132	TXN132	AC41	PCIE_TX_DN132
PCIE_RX_DP131	AA43	RXP131	TXP131	AA40	PCIE_TX_DP131
PCIE_RX_DN131	AA44	RXN131	TXN131	AA41	PCIE_TX_DN131
PCIE_RX_DP130	W43	RXP130	TXP130	W40	PCIE_TX_DP130
PCIE_RX_DN130	W44	RXN130	TXN130	W41	PCIE_TX_DN130
PCIE_RX_DP129	U43	RXP129	TXP129	U40	PCIE_TX_DP129
PCIE_RX_DN129	U44	RXN129	TXN129	U41	PCIE_TX_DN129
PCIE_RX_DP128	R43	RXP128	TXP128	R38	PCIE_TX_DP128
PCIE_RX_DN128	R44	RXN128	TXN128	R39	PCIE_TX_DN128

PCIE_RX_DP[96:111]PCIE_RX_DP[96:111]

PCIE_RX_DP96
PCIE_RX_DP97
PCIE_RX_DP98
PCIE_RX_DP99
PCIE_RX_DP100
PCIE_RX_DP101
PCIE_RX_DP102
PCIE_RX_DP103
PCIE_RX_DP104
PCIE_RX_DP105
PCIE_RX_DP106
PCIE_RX_DP107
PCIE_RX_DP108
PCIE_RX_DP109
PCIE_RX_DP110
PCIE_RX_DP111

PCIE_RX_DP[128:135] PCIE_RX_DP[128:135]

PCIE_RX_DP128
PCIE_RX_DP129
PCIE_RX_DP130
PCIE_RX_DP131
PCIE_RX_DP132
PCIE_RX_DP133
PCIE_RX_DP134
PCIE_RX_DP135

PCIE_RX_DN[96:111]PCIE_RX_DN[96:111]

PCIE_RX_DN96
PCIE_RX_DN97
PCIE_RX_DN98
PCIE_RX_DN99
PCIE_RX_DN100
PCIE_RX_DN101
PCIE_RX_DN102
PCIE_RX_DN103
PCIE_RX_DN104
PCIE_RX_DN105
PCIE_RX_DN106
PCIE_RX_DN107
PCIE_RX_DN108
PCIE_RX_DN109
PCIE_RX_DN110
PCIE_RX_DN111

PCIE_RX_DN[128:135] PCIE_RX_DN[128:135]

PCIE_RX_DN128
PCIE_RX_DN129
PCIE_RX_DN130
PCIE_RX_DN131
PCIE_RX_DN132
PCIE_RX_DN133
PCIE_RX_DN134
PCIE_RX_DN135

PCIE_RX_DP[112:127]PCIE_RX_DP[112:127]

PCIE_RX_DP112
PCIE_RX_DP113
PCIE_RX_DP114
PCIE_RX_DP115
PCIE_RX_DP116
PCIE_RX_DP117
PCIE_RX_DP118
PCIE_RX_DP119
PCIE_RX_DP120
PCIE_RX_DP121
PCIE_RX_DP122
PCIE_RX_DP123
PCIE_RX_DP124
PCIE_RX_DP125
PCIE_RX_DP126
PCIE_RX_DP127

PCIE_RX_DN[112:127] PCIE_RX_DN[112:127]

PCIE_RX_DN112
PCIE_RX_DN113
PCIE_RX_DN114
PCIE_RX_DN115
PCIE_RX_DN116
PCIE_RX_DN117
PCIE_RX_DN118
PCIE_RX_DN119
PCIE_RX_DN120
PCIE_RX_DN121
PCIE_RX_DN122
PCIE_RX_DN123
PCIE_RX_DN124
PCIE_RX_DN125
PCIE_RX_DN126
PCIE_RX_DN127

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 41 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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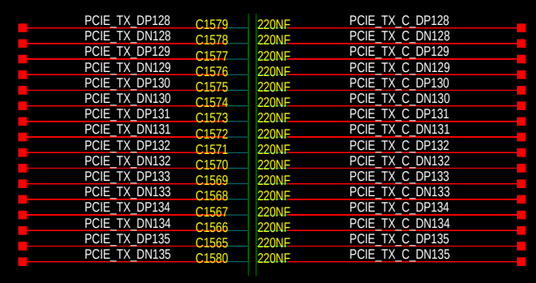
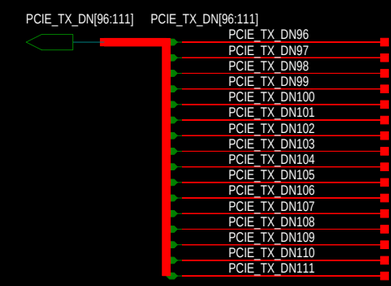
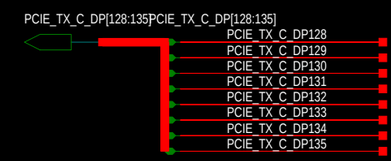
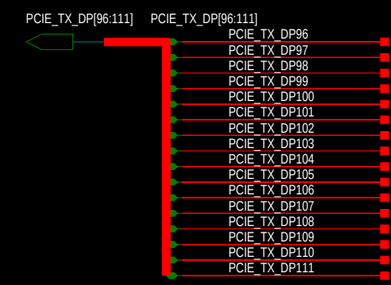
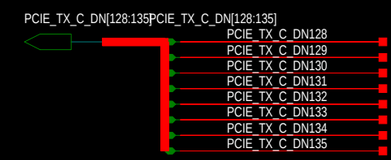
AC Cuppling capacitors near pex89104

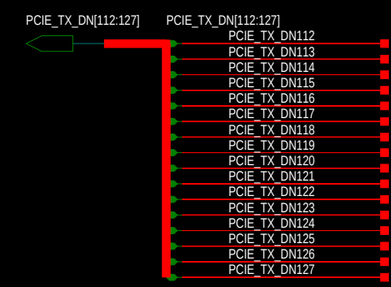


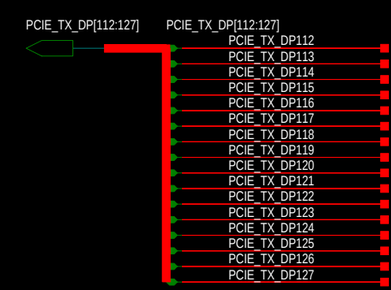












CNIT Technologies Co.,Ltd.			
BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 42 OF 190	REV
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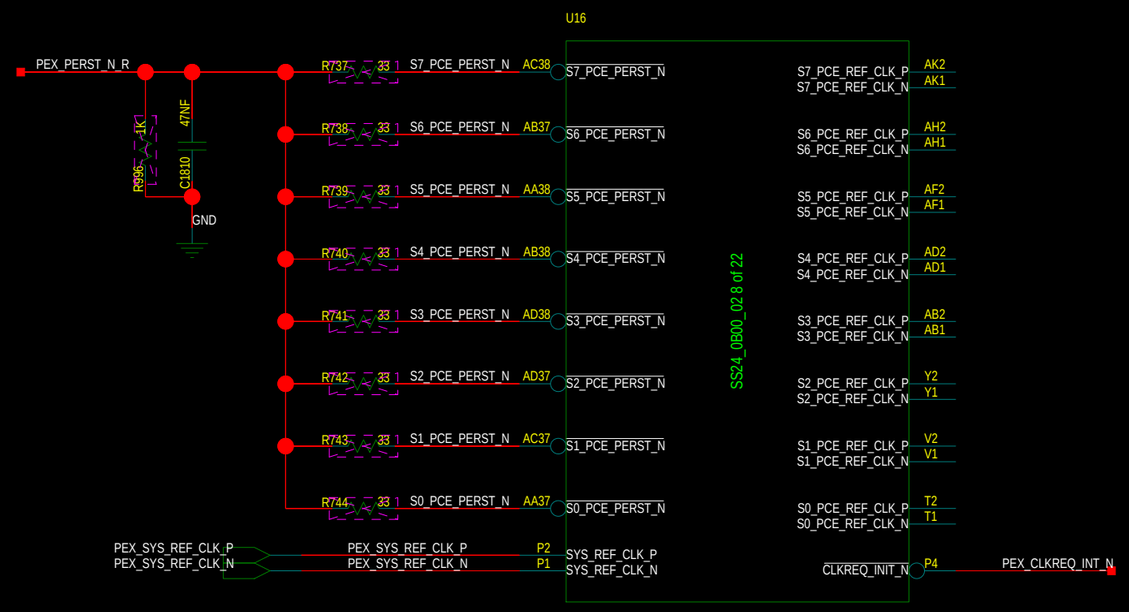

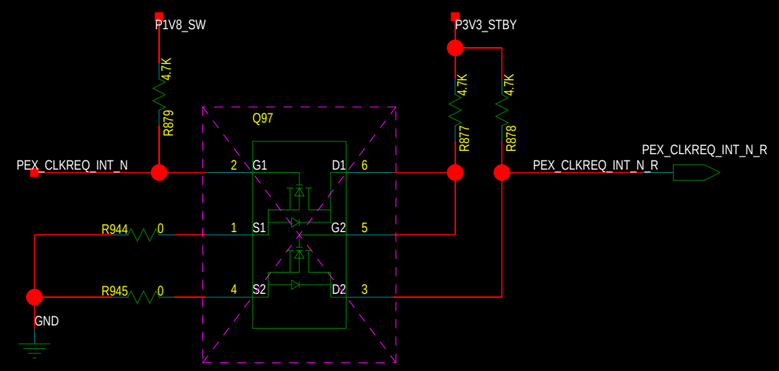

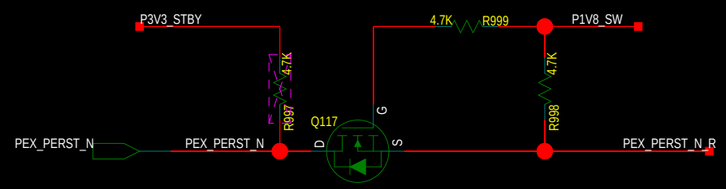

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP−4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 43 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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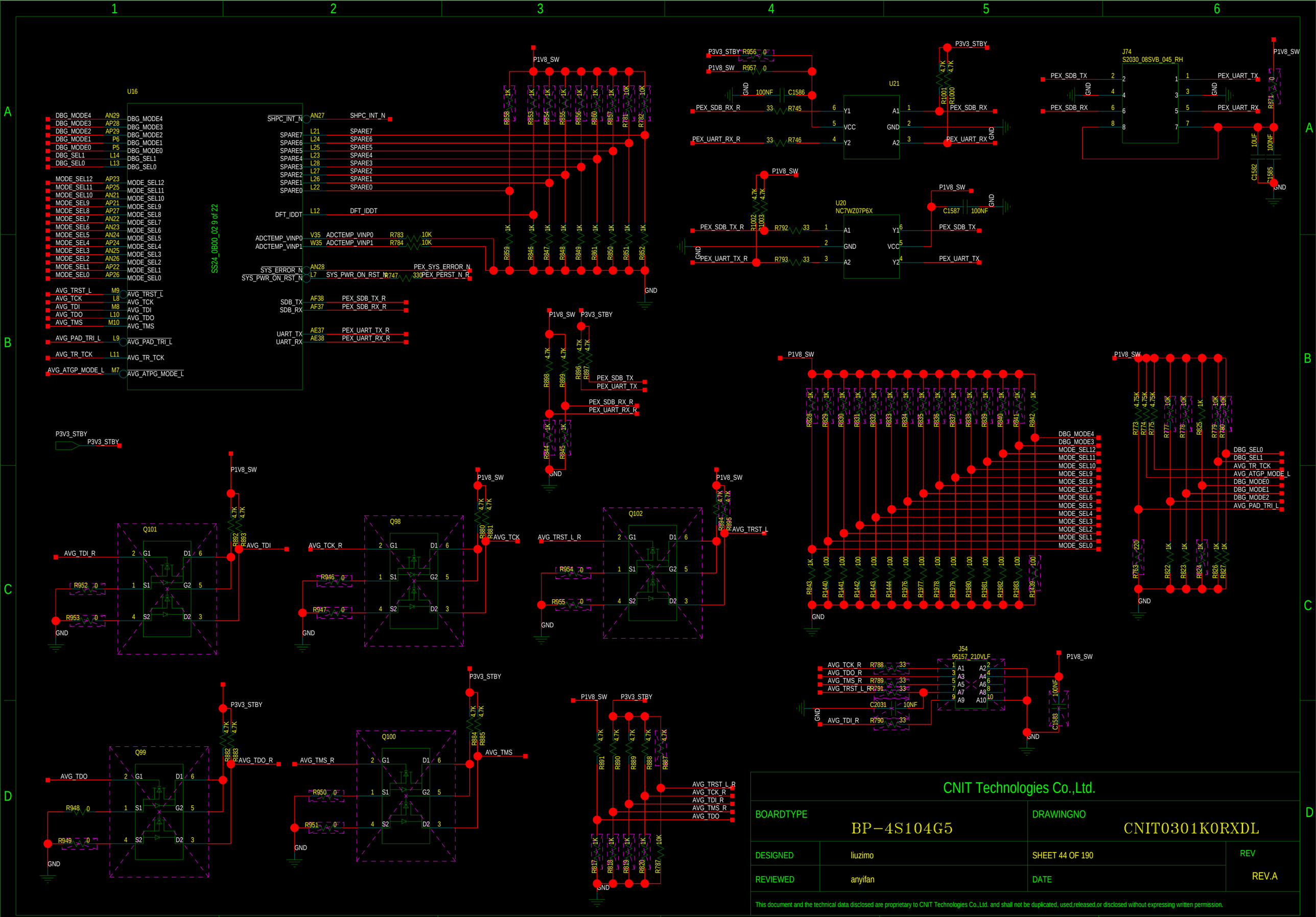

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 44 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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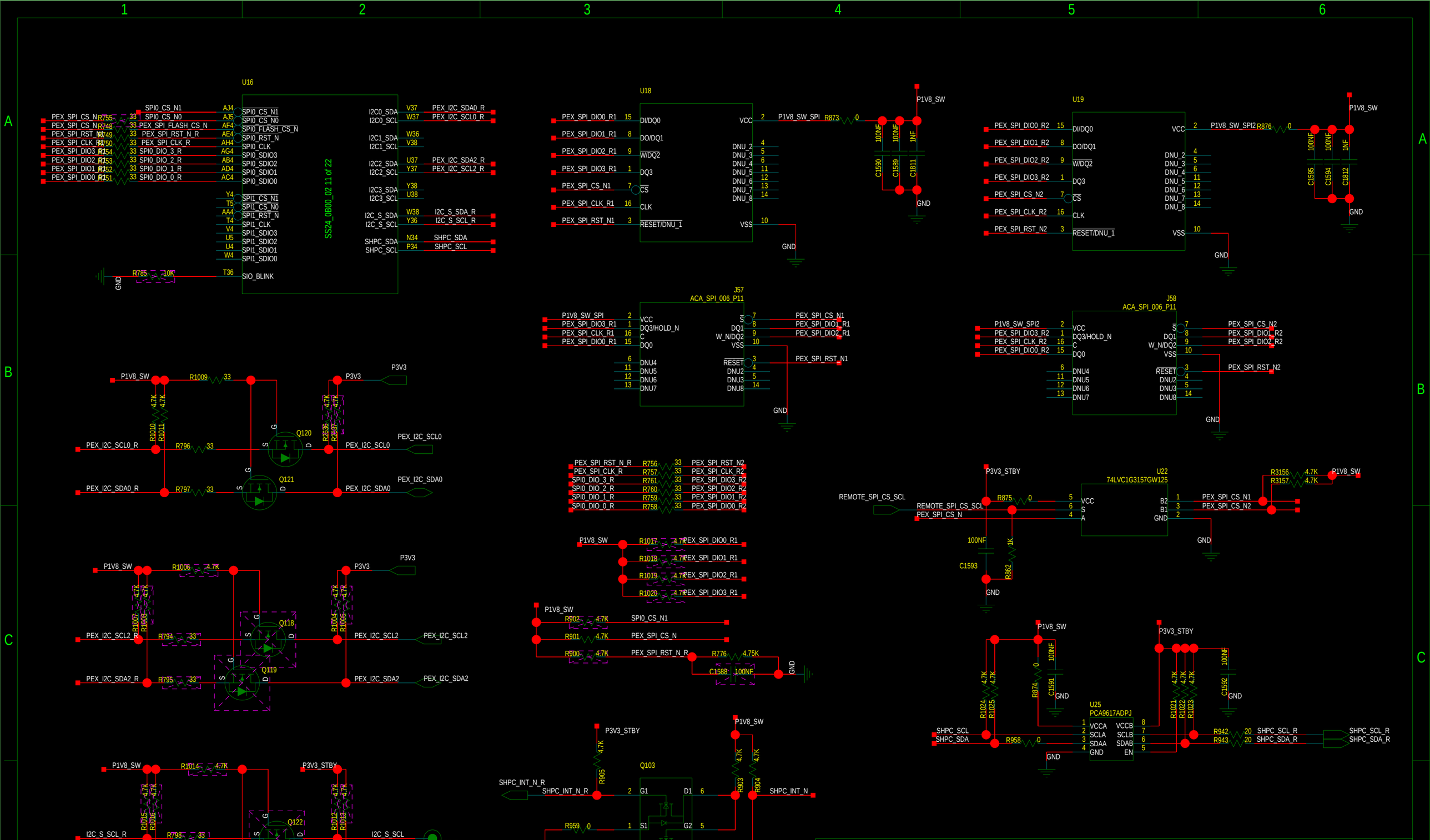

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 45 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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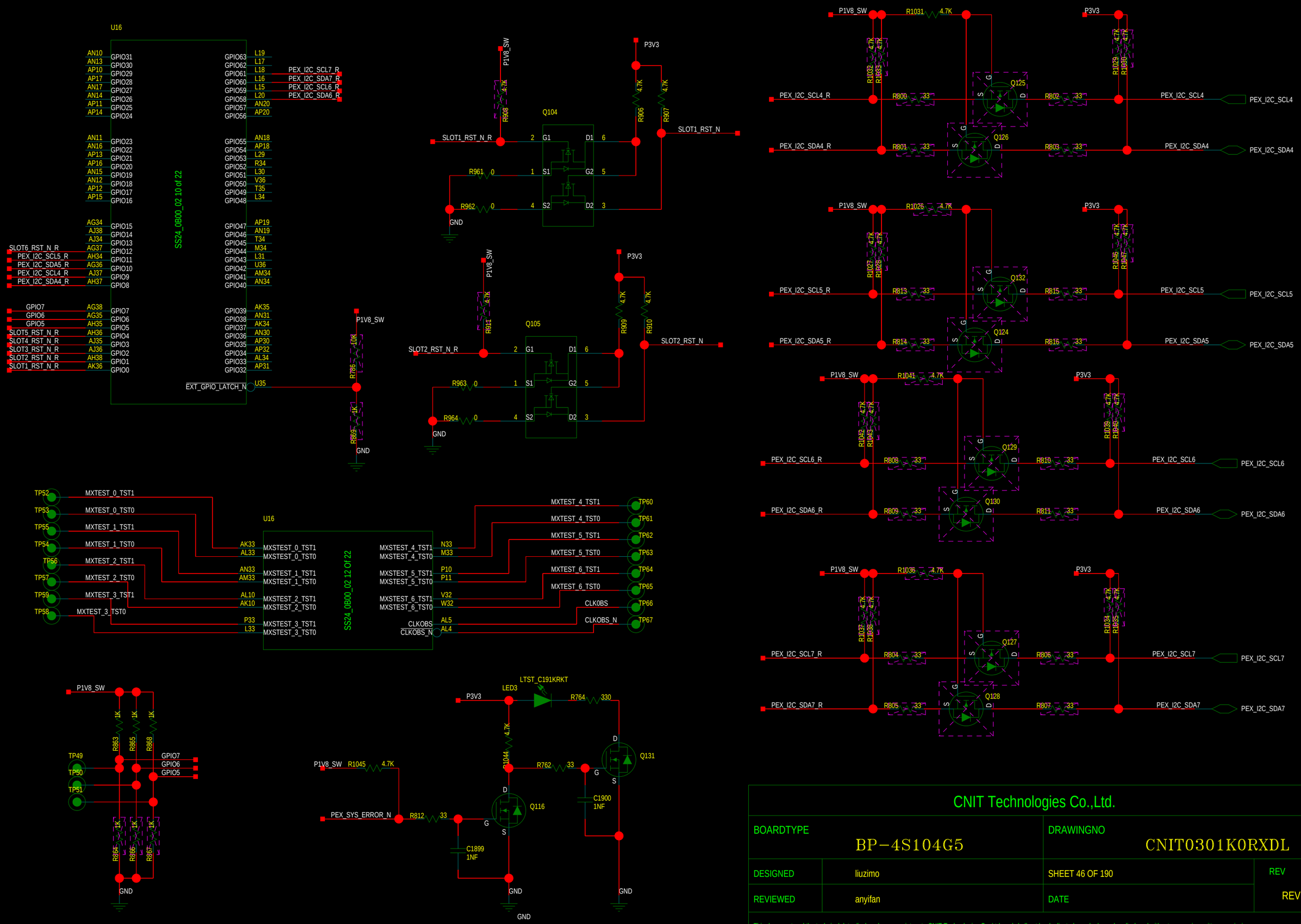

CNIT Technologies Co.,Ltd.			
BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 46 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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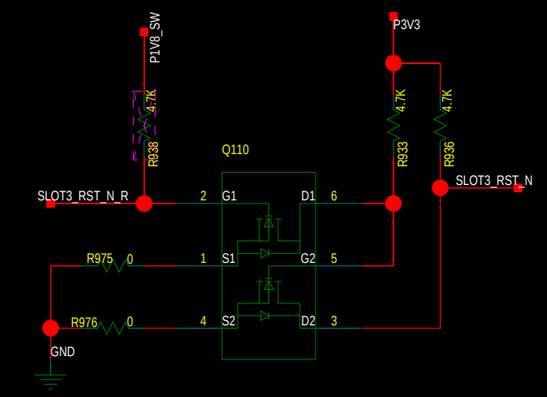

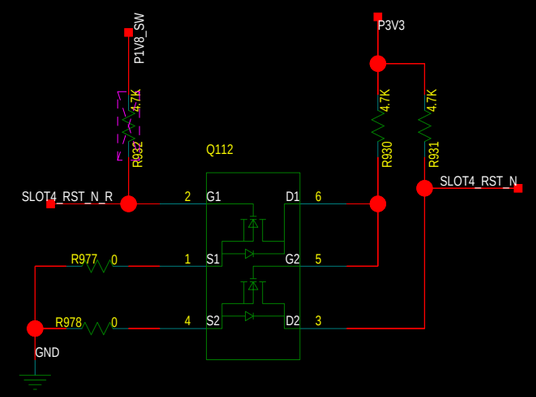

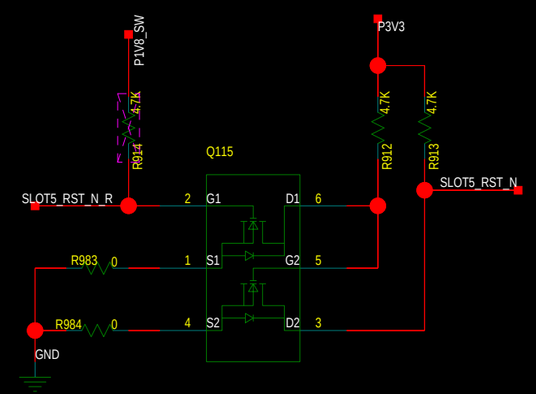

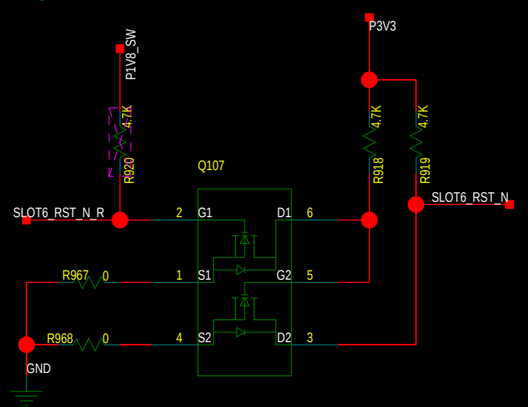

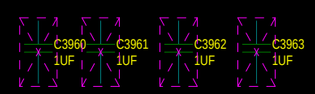

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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 47 OF 190	REV
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BOARDTYPE BP−4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 48 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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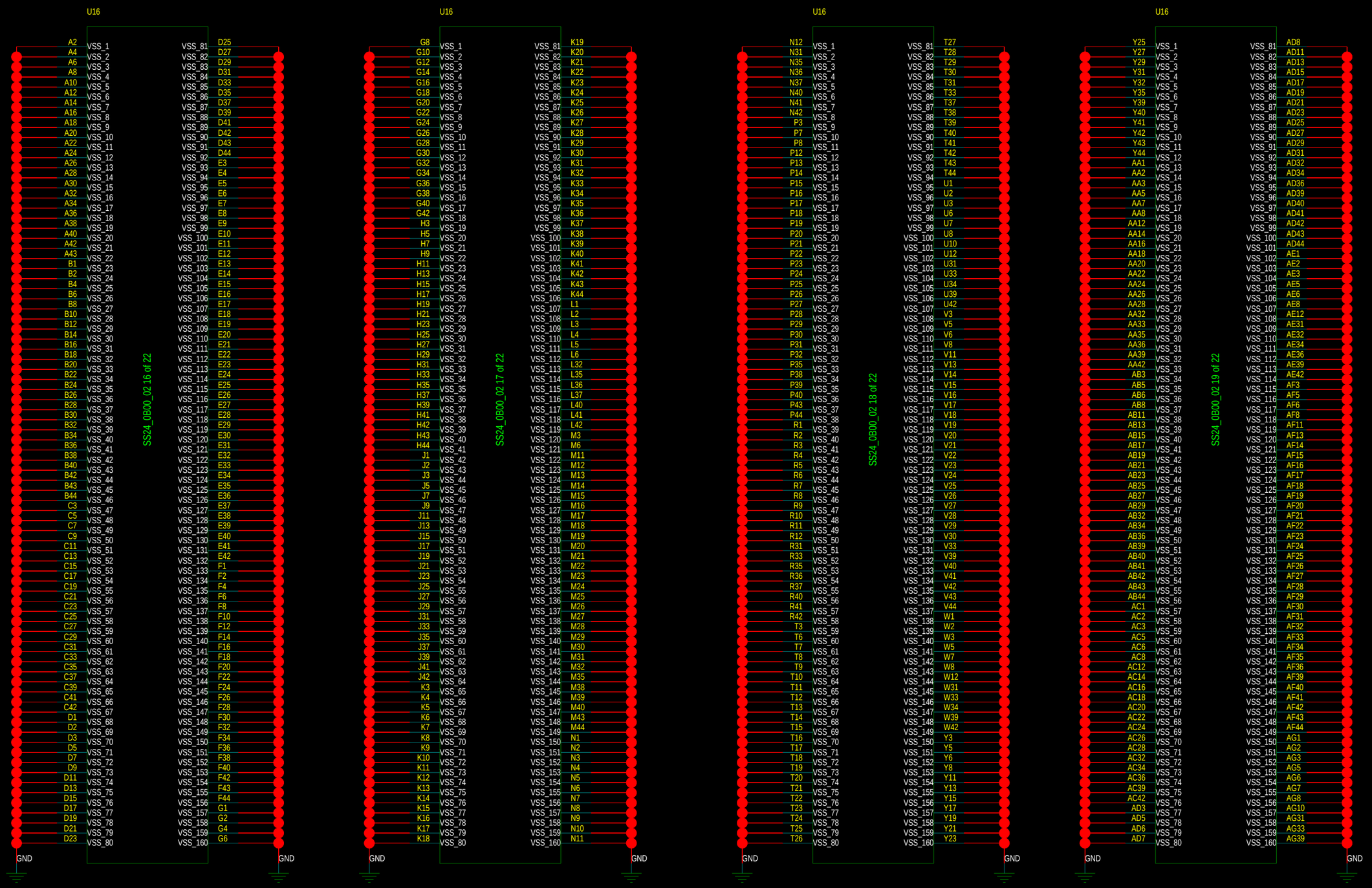

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 49 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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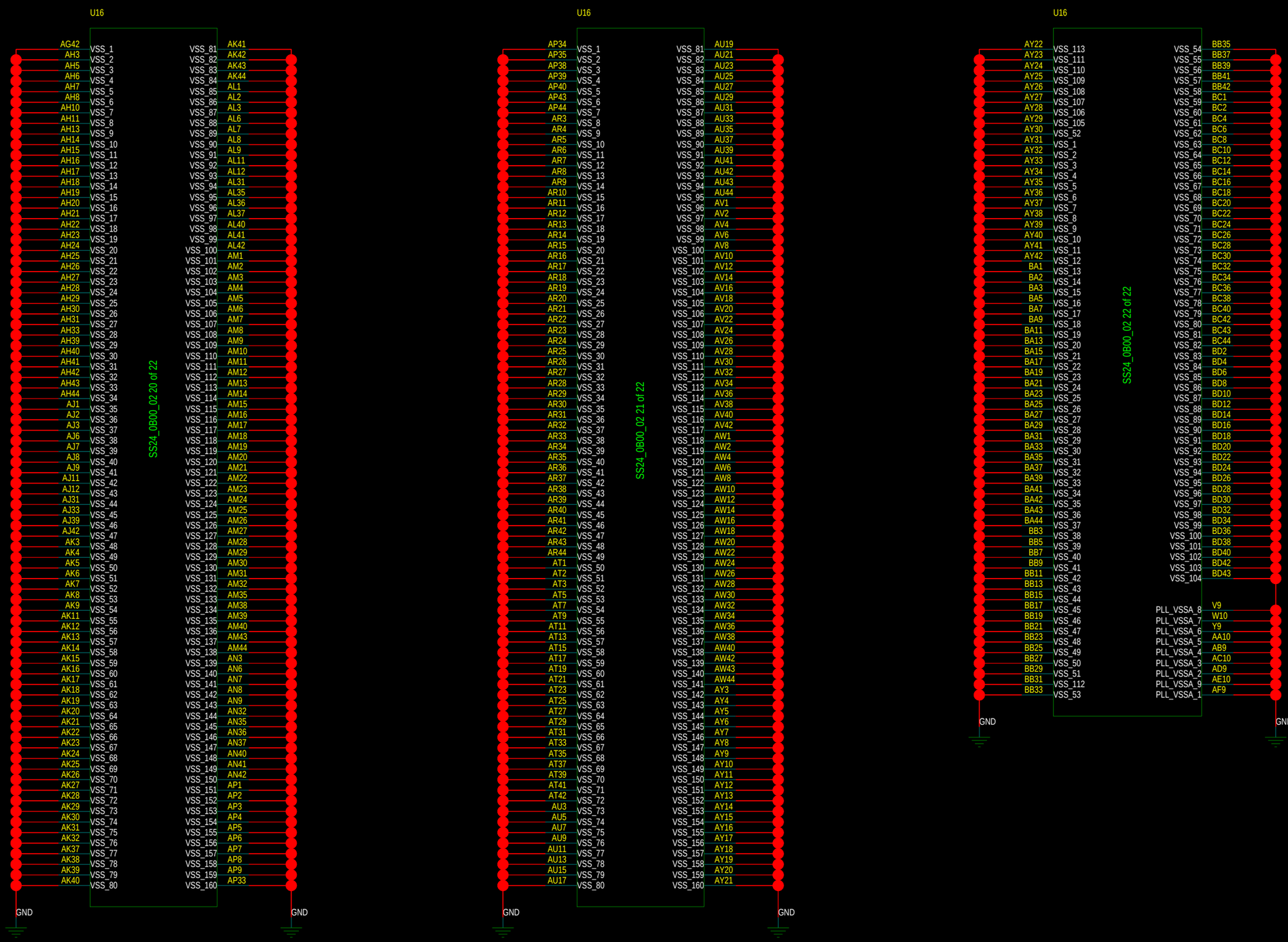

CNIT Technologies Co.,Ltd.			
BOARDTYPE BP−4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 50 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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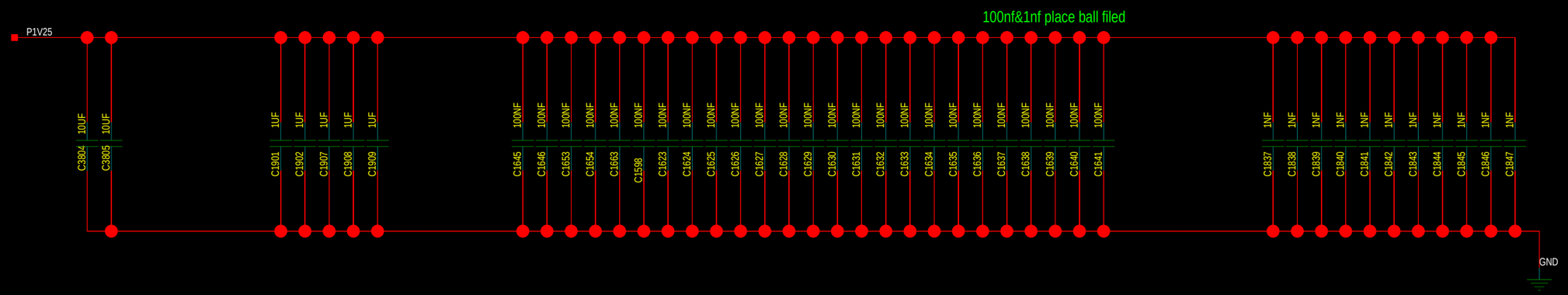
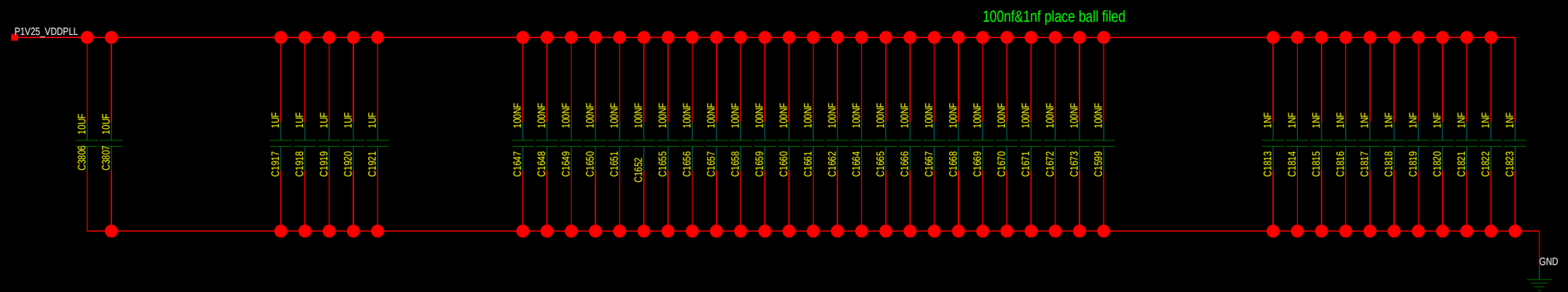
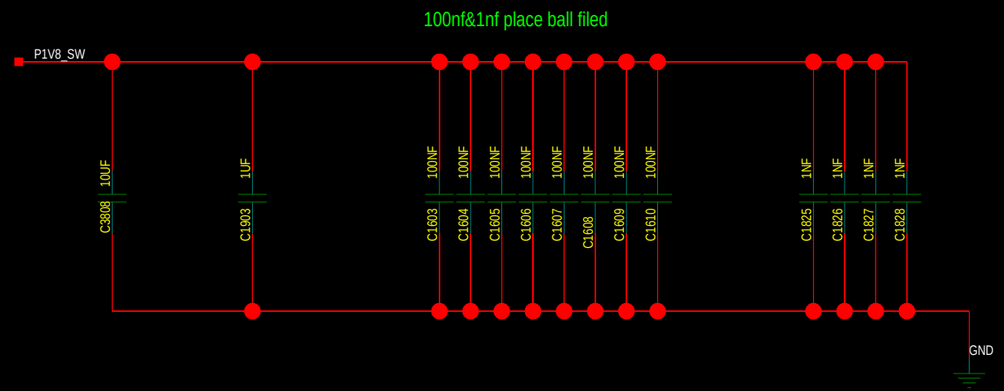
0.1U CAPS = 28
1NF CAPS =12
1UF CAPS = 6
10UF CAPS = 4



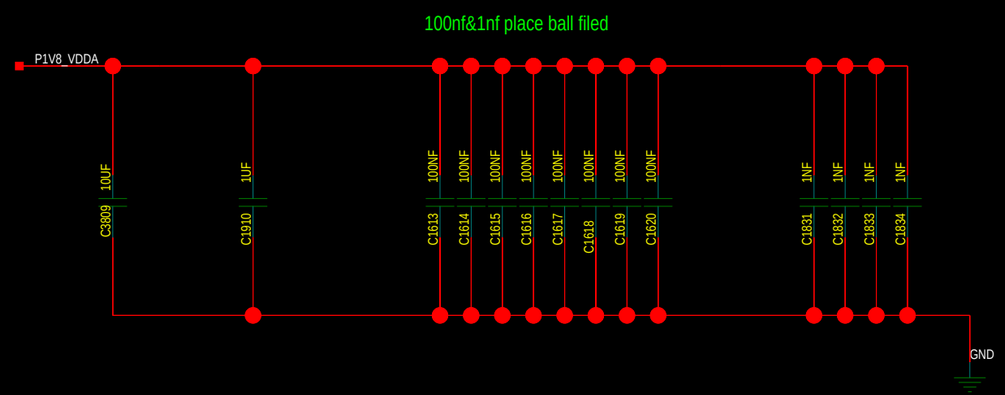
0.1U CAPS = 28
1NF CAPS =12
1UF CAPS = 6
10UF CAPS = 4



0.1U CAPS = 10
1NF CAPS = 6
1UF CAPS = 2
10UF CAPS = 1



0.1U CAPS = 10
1NF CAPS = 6
1UF CAPS = 2
10UF CAPS = 1



CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 51 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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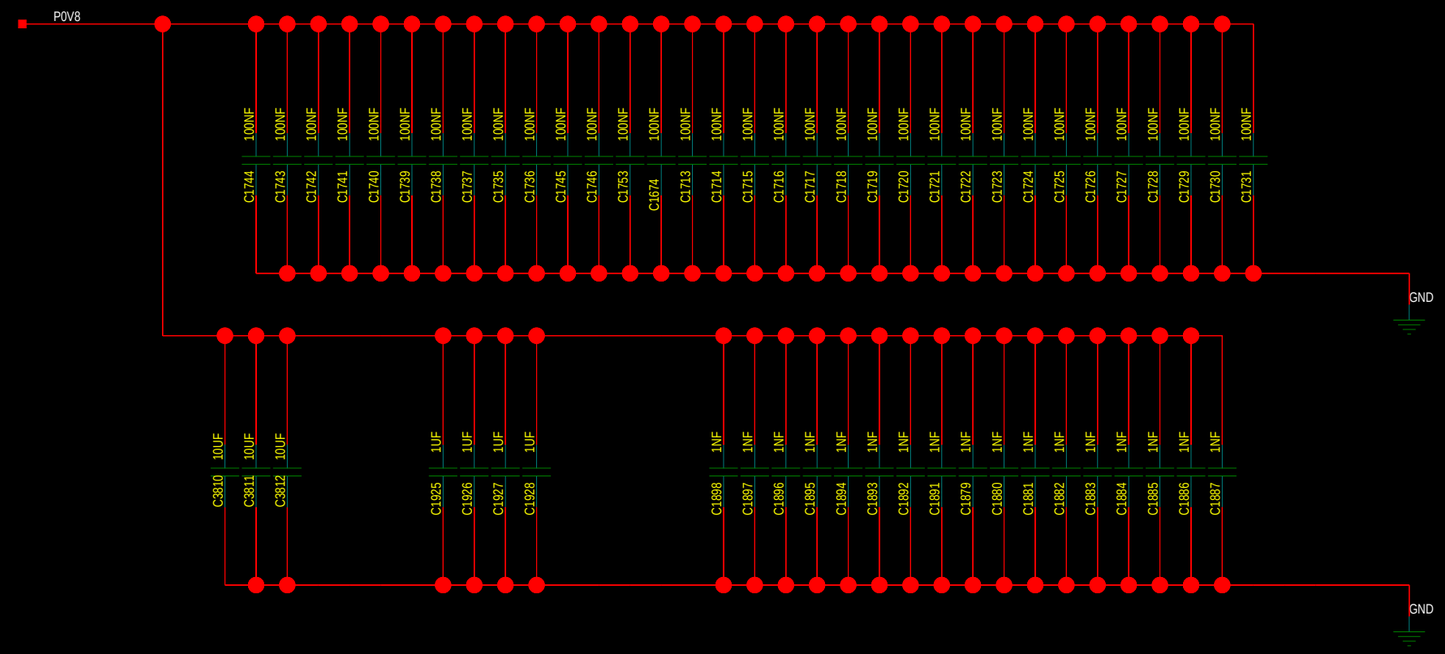
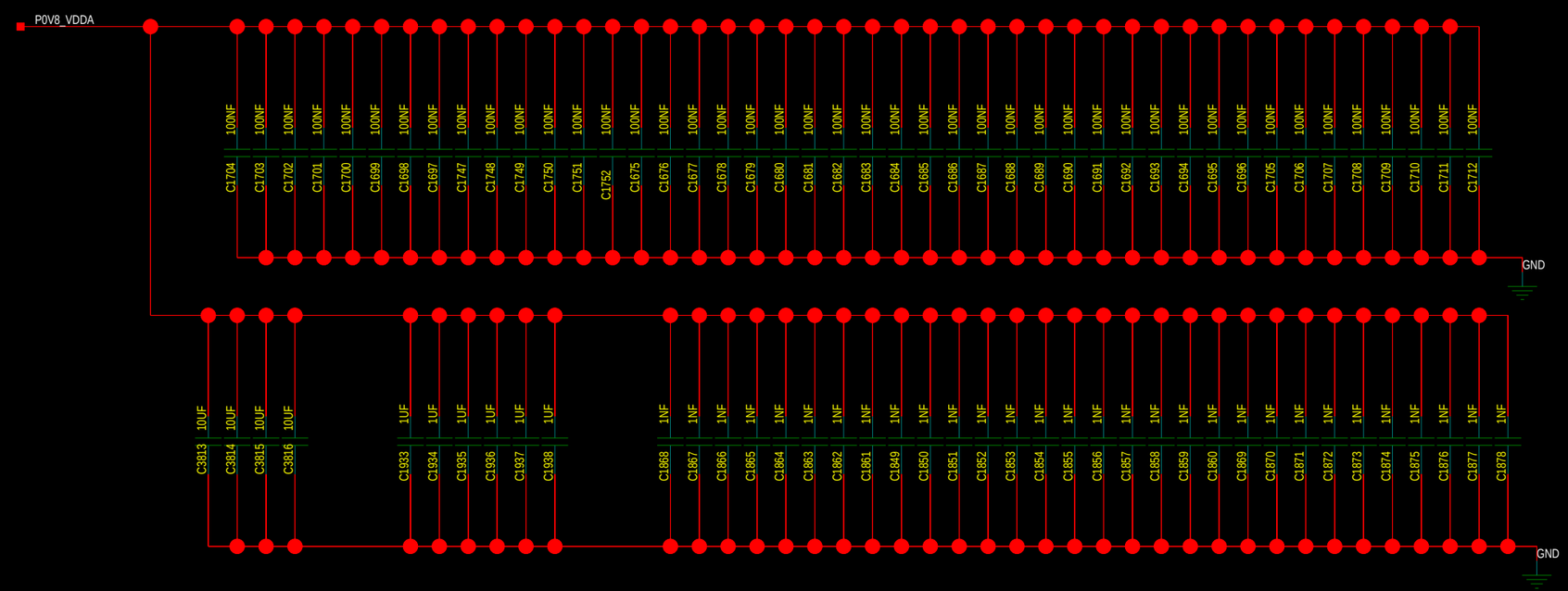
0.1U CAPS = 36
1NF CAPS =20
1UF CAPS = 6
10UF CAPS = 4

100nf&1nf place ball filed



0.1U CAPS = 44
1NF CAPS =30
1UF CAPS = 6
10UF CAPS = 4

100nf&1nf place ball filed



CNIT Technologies Co.,Ltd.			
BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 52 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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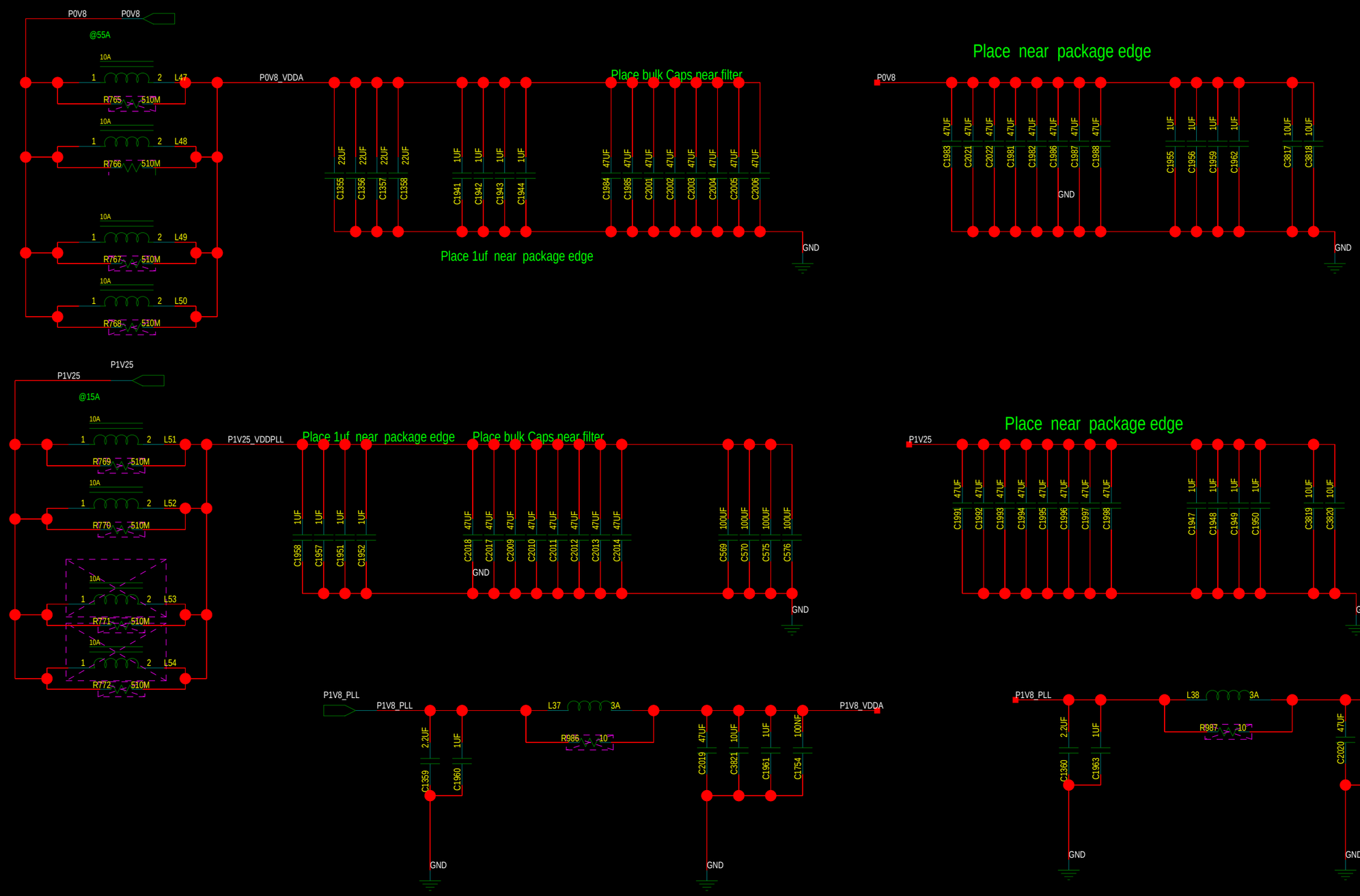

CNIT Technologies Co.,Ltd.			
BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 53 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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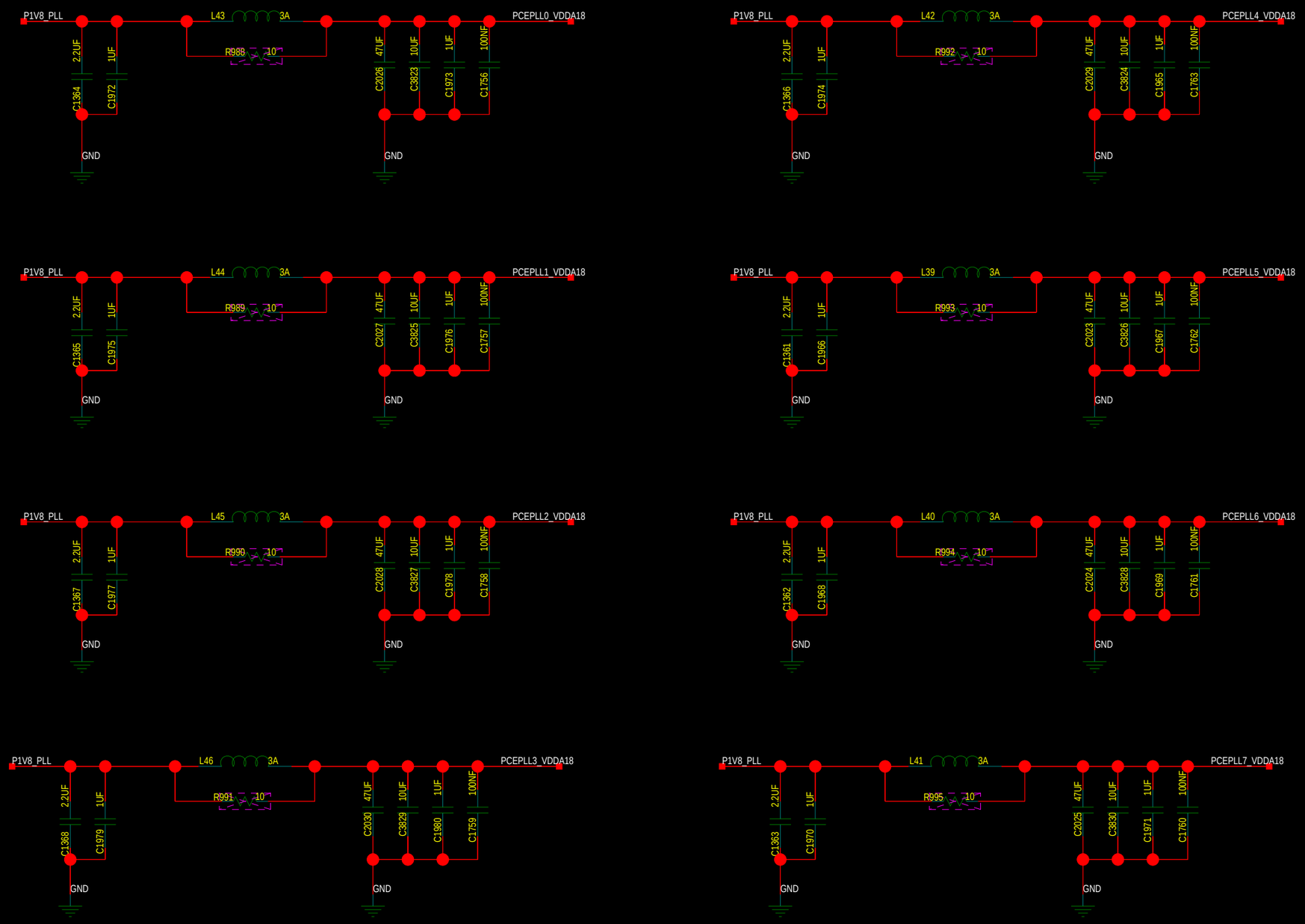

CNIT Technologies Co.,Ltd.			
BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 54 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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CNIT Technologies Co.,Ltd.			
BOARDTYPE BP−4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 55 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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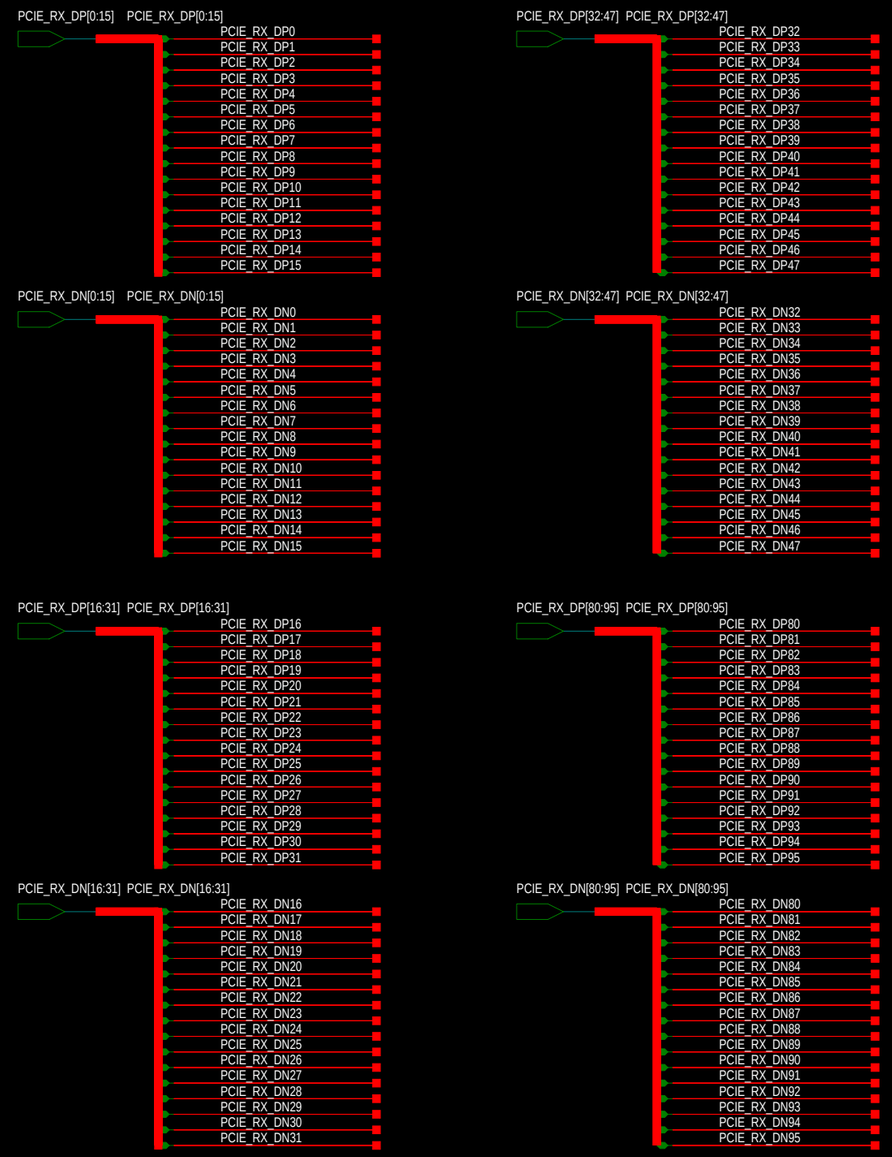

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 56 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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AC Cuppling capacitors near pex89104

PCIE_TX_DP0	C2113	220NF	PCIE_TX_C_DP0
PCIE_TX_DN0	C2112	220NF	PCIE_TX_C_DN0
PCIE_TX_DP1	C2111	220NF	PCIE_TX_C_DP1
PCIE_TX_DN1	C2110	220NF	PCIE_TX_C_DN1
PCIE_TX_DP2	C2109	220NF	PCIE_TX_C_DP2
PCIE_TX_DN2	C2108	220NF	PCIE_TX_C_DN2
PCIE_TX_DP3	C2107	220NF	PCIE_TX_C_DP3
PCIE_TX_DN3	C2106	220NF	PCIE_TX_C_DN3
PCIE_TX_DP4	C2105	220NF	PCIE_TX_C_DP4
PCIE_TX_DN4	C2104	220NF	PCIE_TX_C_DN4
PCIE_TX_DP5	C2103	220NF	PCIE_TX_C_DP5
PCIE_TX_DN5	C2102	220NF	PCIE_TX_C_DN5
PCIE_TX_DP6	C2101	220NF	PCIE_TX_C_DP6
PCIE_TX_DN6	C2100	220NF	PCIE_TX_C_DN6
PCIE_TX_DP7	C2099	220NF	PCIE_TX_C_DP7
PCIE_TX_DN7	C2098	220NF	PCIE_TX_C_DN7
PCIE_TX_DP8	C2097	220NF	PCIE_TX_C_DP8
PCIE_TX_DN8	C2096	220NF	PCIE_TX_C_DN8
PCIE_TX_DP9	C2095	220NF	PCIE_TX_C_DP9
PCIE_TX_DN9	C2094	220NF	PCIE_TX_C_DN9
PCIE_TX_DP10	C2093	220NF	PCIE_TX_C_DP10
PCIE_TX_DN10	C2092	220NF	PCIE_TX_C_DN10
PCIE_TX_DP11	C2091	220NF	PCIE_TX_C_DP11
PCIE_TX_DN11	C2090	220NF	PCIE_TX_C_DN11
PCIE_TX_DP12	C2089	220NF	PCIE_TX_C_DP12
PCIE_TX_DN12	C2088	220NF	PCIE_TX_C_DN12
PCIE_TX_DP13	C2087	220NF	PCIE_TX_C_DP13
PCIE_TX_DN13	C2086	220NF	PCIE_TX_C_DN13
PCIE_TX_DP14	C2085	220NF	PCIE_TX_C_DP14
PCIE_TX_DN14	C2084	220NF	PCIE_TX_C_DN14
PCIE_TX_DP15	C2083	220NF	PCIE_TX_C_DP15
PCIE_TX_DN15	C2082	220NF	PCIE_TX_C_DN15

PCIE_TX_DP32	C2145	220NF	PCIE_TX_C_DP32
PCIE_TX_DN32	C2144	220NF	PCIE_TX_C_DN32
PCIE_TX_DP33	C2143	220NF	PCIE_TX_C_DP33
PCIE_TX_DN33	C2142	220NF	PCIE_TX_C_DN33
PCIE_TX_DP34	C2141	220NF	PCIE_TX_C_DP34
PCIE_TX_DN34	C2140	220NF	PCIE_TX_C_DN34
PCIE_TX_DP35	C2139	220NF	PCIE_TX_C_DP35
PCIE_TX_DN35	C2138	220NF	PCIE_TX_C_DN35
PCIE_TX_DP36	C2137	220NF	PCIE_TX_C_DP36
PCIE_TX_DN36	C2136	220NF	PCIE_TX_C_DN36
PCIE_TX_DP37	C2135	220NF	PCIE_TX_C_DP37
PCIE_TX_DN37	C2134	220NF	PCIE_TX_C_DN37
PCIE_TX_DP38	C2133	220NF	PCIE_TX_C_DP38
PCIE_TX_DN38	C2132	220NF	PCIE_TX_C_DN38
PCIE_TX_DP39	C2131	220NF	PCIE_TX_C_DP39
PCIE_TX_DN39	C2130	220NF	PCIE_TX_C_DN39
PCIE_TX_DP40	C2129	220NF	PCIE_TX_C_DP40
PCIE_TX_DN40	C2128	220NF	PCIE_TX_C_DN40
PCIE_TX_DP41	C2127	220NF	PCIE_TX_C_DP41
PCIE_TX_DN41	C2126	220NF	PCIE_TX_C_DN41
PCIE_TX_DP42	C2125	220NF	PCIE_TX_C_DP42
PCIE_TX_DN42	C2124	220NF	PCIE_TX_C_DN42
PCIE_TX_DP43	C2123	220NF	PCIE_TX_C_DP43
PCIE_TX_DN43	C2122	220NF	PCIE_TX_C_DN43
PCIE_TX_DP44	C2121	220NF	PCIE_TX_C_DP44
PCIE_TX_DN44	C2120	220NF	PCIE_TX_C_DN44
PCIE_TX_DP45	C2119	220NF	PCIE_TX_C_DP45
PCIE_TX_DN45	C2118	220NF	PCIE_TX_C_DN45
PCIE_TX_DP46	C2117	220NF	PCIE_TX_C_DP46
PCIE_TX_DN46	C2116	220NF	PCIE_TX_C_DN46
PCIE_TX_DP47	C2115	220NF	PCIE_TX_C_DP47
PCIE_TX_DN47	C2114	220NF	PCIE_TX_C_DN47

PCIE_TX_C_DN[0:15]PCIE_TX_C_DN[0:15]

PCIE_TX_C_DN0
PCIE_TX_C_DN1
PCIE_TX_C_DN2
PCIE_TX_C_DN3
PCIE_TX_C_DN4
PCIE_TX_C_DN5
PCIE_TX_C_DN6
PCIE_TX_C_DN7
PCIE_TX_C_DN8
PCIE_TX_C_DN9
PCIE_TX_C_DN10
PCIE_TX_C_DN11
PCIE_TX_C_DN12
PCIE_TX_C_DN13
PCIE_TX_C_DN14
PCIE_TX_C_DN15

PCIE_TX_C_DN[32:47] PCIE_TX_C_DN[32:47]

PCIE_TX_C_DN32
PCIE_TX_C_DN33
PCIE_TX_C_DN34
PCIE_TX_C_DN35
PCIE_TX_C_DN36
PCIE_TX_C_DN37
PCIE_TX_C_DN38
PCIE_TX_C_DN39
PCIE_TX_C_DN40
PCIE_TX_C_DN41
PCIE_TX_C_DN42
PCIE_TX_C_DN43
PCIE_TX_C_DN44
PCIE_TX_C_DN45
PCIE_TX_C_DN46
PCIE_TX_C_DN47

PCIE_TX_C_DP[0:15]PCIE_TX_C_DP[0:15]

PCIE_TX_C_DP0
PCIE_TX_C_DP1
PCIE_TX_C_DP2
PCIE_TX_C_DP3
PCIE_TX_C_DP4
PCIE_TX_C_DP5
PCIE_TX_C_DP6
PCIE_TX_C_DP7
PCIE_TX_C_DP8
PCIE_TX_C_DP9
PCIE_TX_C_DP10
PCIE_TX_C_DP11
PCIE_TX_C_DP12
PCIE_TX_C_DP13
PCIE_TX_C_DP14
PCIE_TX_C_DP15

PCIE_TX_C_DP[32:47] PCIE_TX_C_DP[32:47]

PCIE_TX_C_DP32
PCIE_TX_C_DP33
PCIE_TX_C_DP34
PCIE_TX_C_DP35
PCIE_TX_C_DP36
PCIE_TX_C_DP37
PCIE_TX_C_DP38
PCIE_TX_C_DP39
PCIE_TX_C_DP40
PCIE_TX_C_DP41
PCIE_TX_C_DP42
PCIE_TX_C_DP43
PCIE_TX_C_DP44
PCIE_TX_C_DP45
PCIE_TX_C_DP46
PCIE_TX_C_DP47

PCIE_TX_DP16	C2177	220NF	PCIE_TX_C_DP16
PCIE_TX_DN16	C2176	220NF	PCIE_TX_C_DN16
PCIE_TX_DP17	C2175	220NF	PCIE_TX_C_DP17
PCIE_TX_DN17	C2174	220NF	PCIE_TX_C_DN17
PCIE_TX_DP18	C2173	220NF	PCIE_TX_C_DP18
PCIE_TX_DN18	C2172	220NF	PCIE_TX_C_DN18
PCIE_TX_DP19	C2171	220NF	PCIE_TX_C_DP19
PCIE_TX_DN19	C2170	220NF	PCIE_TX_C_DN19
PCIE_TX_DP20	C2169	220NF	PCIE_TX_C_DP20
PCIE_TX_DN20	C2168	220NF	PCIE_TX_C_DN20
PCIE_TX_DP21	C2167	220NF	PCIE_TX_C_DP21
PCIE_TX_DN21	C2166	220NF	PCIE_TX_C_DN21
PCIE_TX_DP22	C2165	220NF	PCIE_TX_C_DP22
PCIE_TX_DN22	C2164	220NF	PCIE_TX_C_DN22
PCIE_TX_DP23	C2163	220NF	PCIE_TX_C_DP23
PCIE_TX_DN23	C2162	220NF	PCIE_TX_C_DN23
PCIE_TX_DP24	C2161	220NF	PCIE_TX_C_DP24
PCIE_TX_DN24	C2160	220NF	PCIE_TX_C_DN24
PCIE_TX_DP25	C2159	220NF	PCIE_TX_C_DP25
PCIE_TX_DN25	C2158	220NF	PCIE_TX_C_DN25
PCIE_TX_DP26	C2157	220NF	PCIE_TX_C_DP26
PCIE_TX_DN26	C2156	220NF	PCIE_TX_C_DN26
PCIE_TX_DP27	C2155	220NF	PCIE_TX_C_DP27
PCIE_TX_DN27	C2154	220NF	PCIE_TX_C_DN27
PCIE_TX_DP28	C2153	220NF	PCIE_TX_C_DP28
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PCIE_TX_DN29	C2150	220NF	PCIE_TX_C_DN29
PCIE_TX_DP30	C2149	220NF	PCIE_TX_C_DP30
PCIE_TX_DN30	C2148	220NF	PCIE_TX_C_DN30
PCIE_TX_DP31	C2147	220NF	PCIE_TX_C_DP31
PCIE_TX_DN31	C2146	220NF	PCIE_TX_C_DN31

PCIE_TX_DP80	C2081	220NF	PCIE_TX_C_DP80
PCIE_TX_DN80	C2080	220NF	PCIE_TX_C_DN80
PCIE_TX_DP81	C2079	220NF	PCIE_TX_C_DP81
PCIE_TX_DN81	C2078	220NF	PCIE_TX_C_DN81
PCIE_TX_DP82	C2077	220NF	PCIE_TX_C_DP82
PCIE_TX_DN82	C2076	220NF	PCIE_TX_C_DN82
PCIE_TX_DP83	C2075	220NF	PCIE_TX_C_DP83
PCIE_TX_DN83	C2074	220NF	PCIE_TX_C_DN83
PCIE_TX_DP84	C2073	220NF	PCIE_TX_C_DP84
PCIE_TX_DN84	C2072	220NF	PCIE_TX_C_DN84
PCIE_TX_DP85	C2071	220NF	PCIE_TX_C_DP85
PCIE_TX_DN85	C2070	220NF	PCIE_TX_C_DN85
PCIE_TX_DP86	C2069	220NF	PCIE_TX_C_DP86
PCIE_TX_DN86	C2068	220NF	PCIE_TX_C_DN86
PCIE_TX_DP87	C2067	220NF	PCIE_TX_C_DP87
PCIE_TX_DN87	C2066	220NF	PCIE_TX_C_DN87
PCIE_TX_DP88	C2065	220NF	PCIE_TX_C_DP88
PCIE_TX_DN88	C2064	220NF	PCIE_TX_C_DN88
PCIE_TX_DP89	C2063	220NF	PCIE_TX_C_DP89
PCIE_TX_DN89	C2062	220NF	PCIE_TX_C_DN89
PCIE_TX_DP90	C2061	220NF	PCIE_TX_C_DP90
PCIE_TX_DN90	C2060	220NF	PCIE_TX_C_DN90
PCIE_TX_DP91	C2059	220NF	PCIE_TX_C_DP91
PCIE_TX_DN91	C2058	220NF	PCIE_TX_C_DN91
PCIE_TX_DP92	C2057	220NF	PCIE_TX_C_DP92
PCIE_TX_DN92	C2056	220NF	PCIE_TX_C_DN92
PCIE_TX_DP93	C2055	220NF	PCIE_TX_C_DP93
PCIE_TX_DN93	C2054	220NF	PCIE_TX_C_DN93
PCIE_TX_DP94	C2053	220NF	PCIE_TX_C_DP94
PCIE_TX_DN94	C2052	220NF	PCIE_TX_C_DN94
PCIE_TX_DP95	C2051	220NF	PCIE_TX_C_DP95
PCIE_TX_DN95	C2050	220NF	PCIE_TX_C_DN95

PCIE_TX_C_DN[16:31]PCIE_TX_C_DN[16:31]

PCIE_TX_C_DN16
PCIE_TX_C_DN17
PCIE_TX_C_DN18
PCIE_TX_C_DN19
PCIE_TX_C_DN20
PCIE_TX_C_DN21
PCIE_TX_C_DN22
PCIE_TX_C_DN23
PCIE_TX_C_DN24
PCIE_TX_C_DN25
PCIE_TX_C_DN26
PCIE_TX_C_DN27
PCIE_TX_C_DN28
PCIE_TX_C_DN29
PCIE_TX_C_DN30
PCIE_TX_C_DN31

PCIE_TX_C_DN[80:95] PCIE_TX_C_DN[80:95]

PCIE_TX_C_DN80
PCIE_TX_C_DN81
PCIE_TX_C_DN82
PCIE_TX_C_DN83
PCIE_TX_C_DN84
PCIE_TX_C_DN85
PCIE_TX_C_DN86
PCIE_TX_C_DN87
PCIE_TX_C_DN88
PCIE_TX_C_DN89
PCIE_TX_C_DN90
PCIE_TX_C_DN91
PCIE_TX_C_DN92
PCIE_TX_C_DN93
PCIE_TX_C_DN94
PCIE_TX_C_DN95

PCIE_TX_C_DP[16:31] PCIE_TX_C_DP[16:31]

PCIE_TX_C_DP16
PCIE_TX_C_DP17
PCIE_TX_C_DP18
PCIE_TX_C_DP19
PCIE_TX_C_DP20
PCIE_TX_C_DP21
PCIE_TX_C_DP22
PCIE_TX_C_DP23
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PCIE_TX_C_DP25
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PCIE_TX_C_DP28
PCIE_TX_C_DP29
PCIE_TX_C_DP30
PCIE_TX_C_DP31

PCIE_TX_C_DP[80:95] PCIE_TX_C_DP[80:95]

PCIE_TX_C_DP80
PCIE_TX_C_DP81
PCIE_TX_C_DP82
PCIE_TX_C_DP83
PCIE_TX_C_DP84
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PCIE_TX_C_DP91
PCIE_TX_C_DP92
PCIE_TX_C_DP93
PCIE_TX_C_DP94
PCIE_TX_C_DP95

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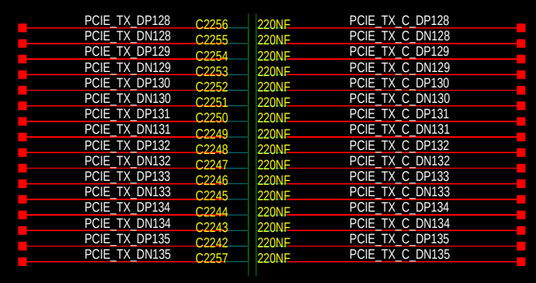
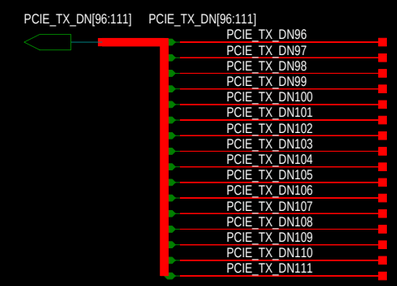
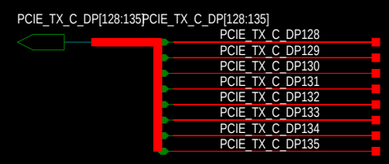
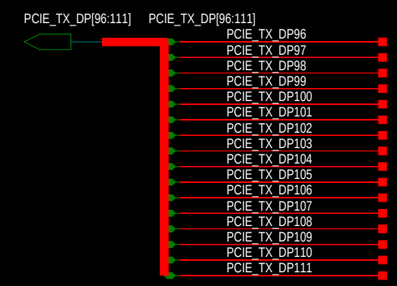
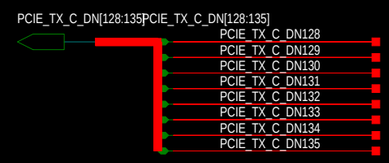
AC Cuppling capacitors near pex89104

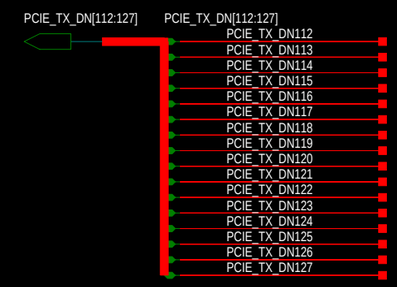


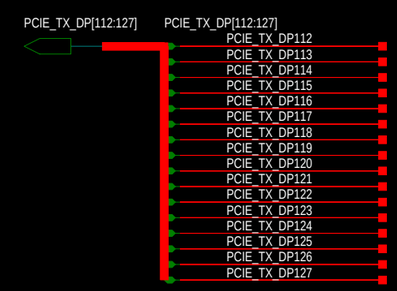












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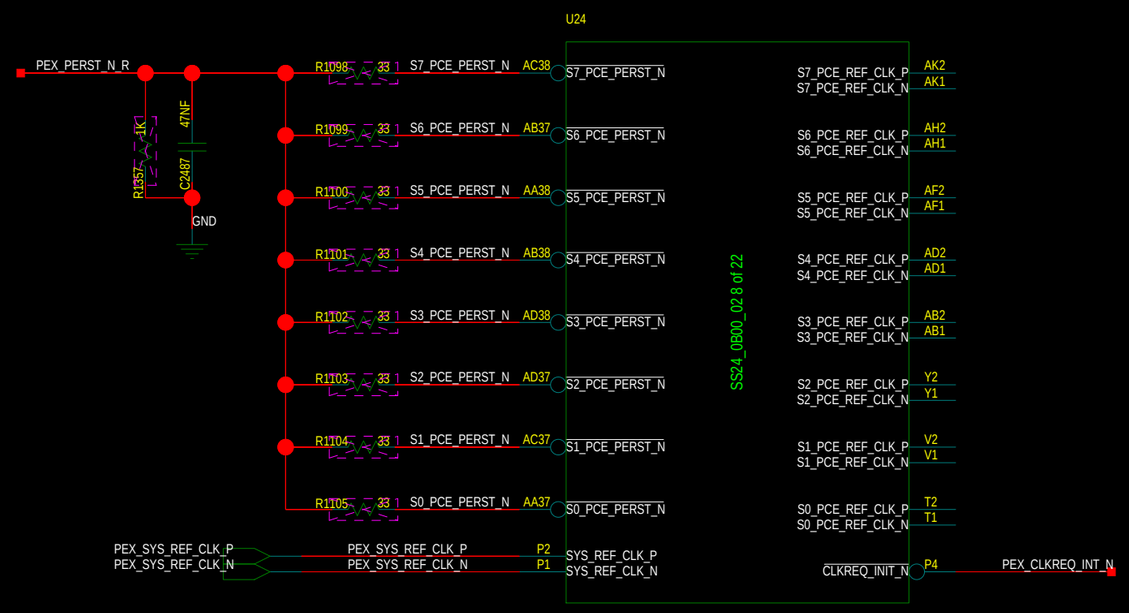

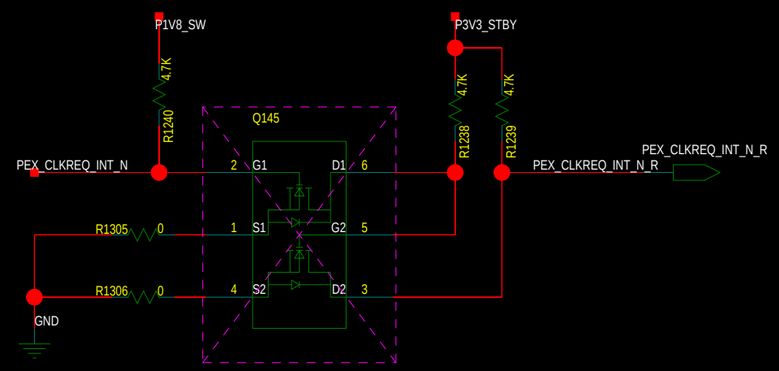

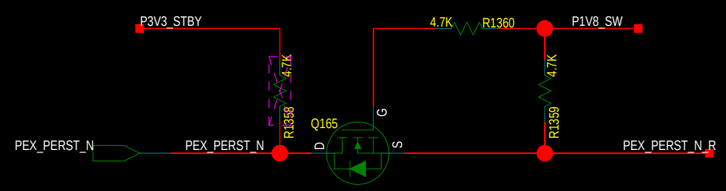

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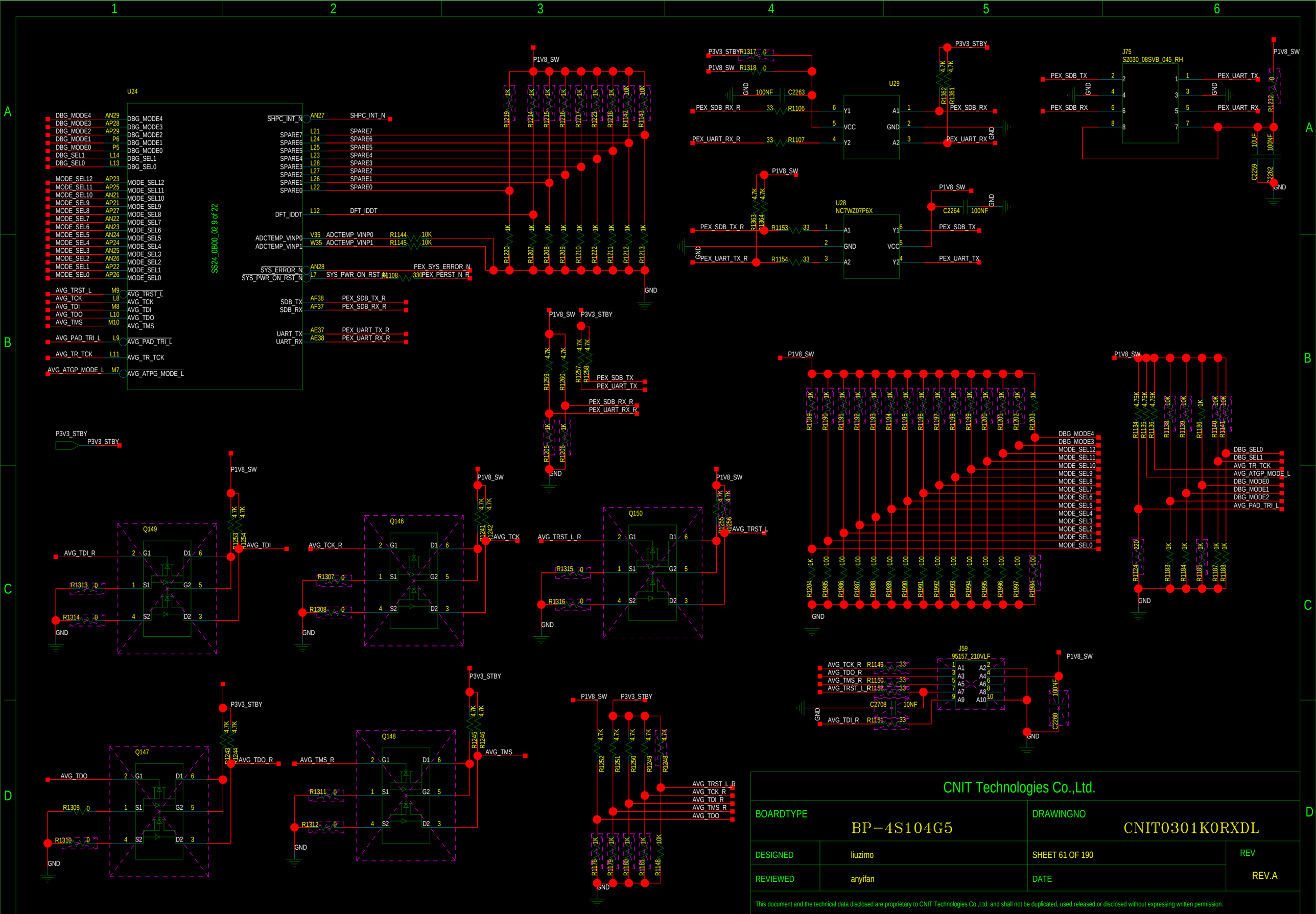
U24
SS24_0B00_02 9 of 22
DBG_MODE4 AN29
DBG_MODE3 AP28
DBG_MODE2 AP29
DBG_MODE1 P6
DBG_MODE0 P5
DBG_SEL1 L14
DBG_SEL0 L13
MODE_SEL12 AP23
MODE_SEL11 AP25
MODE_SEL10 AN21
MODE_SEL9 AP21
MODE_SEL8 AP27
MODE_SEL7 AN22
MODE_SEL6 AN23
MODE_SEL5 AN24
MODE_SEL4 AP24
MODE_SEL3 AN25
MODE_SEL2 AN26
MODE_SEL1 AP22
MODE_SEL0 AP26
AVG_TRST_L M9
AVG_TCK L8
AVG_TDI M8
AVG_TDO L10
AVG_TMS M10
AVG_PAD_TRI_L L9
AVG_TR_TCK L11
AVG_ATGP_MODE_L M7
SHPC_INT_N AN27
SPARE7 L21
SPARE6 L24
SPARE5 L25
SPARE4 L23
SPARE3 L28
SPARE2 L27
SPARE1 L26
SPARE0 L22
DFT_IDDT L12
ADCTEMP_VINP0 V35
ADCTEMP_VINP1 W35
SYS_ERROR_N AN28
SYS_PWR_ON_RST_N L7
SDB_TX AF38
SDB_RX AF37
UART_TX AE37
UART_RX AE38
R1144 10K
R1145 10K
R1108 330
PEX_SYS_ERROR_N
PEX_PERST_N_R
PEX_SDB_TX_R
PEX_SDB_RX_R
PEX_UART_TX_R
PEX_UART_RX_R
P1V8_SW
GND
P3V3_STBY
R1317 0
R1318 0
C2263 100NF
PEX_SDB_RX_R R1106 33
PEX_UART_RX_R R1107 33
U29
PEX_SDB_RX
PEX_UART_RX
J75
S2030_08SVB_045_RH
PEX_SDB_TX
PEX_UART_TX
PEX_UART_RX
C2259 10UF
C2262 100NF
PEX_SDB_TX_R R1153 33
PEX_UART_TX_R R1154 33
U28
NC7WZ07P6X
C2264 100NF
PEX_SDB_TX
PEX_UART_TX
Q149
AVG_TDI_R
AVG_TDI
Q146
AVG_TCK_R
AVG_TCK
Q150
AVG_TRST_L_R
AVG_TRST_L
Q147
AVG_TDO
AVG_TDO_R
Q148
AVG_TMS_R
AVG_TMS
J59
95157_210VLF
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AVG_TDO_R
AVG_TMS_R R1150 33
AVG_TRST_L_R R1152 33
C2708 10NF
AVG_TDI_R R1151 33
C2286 100NF
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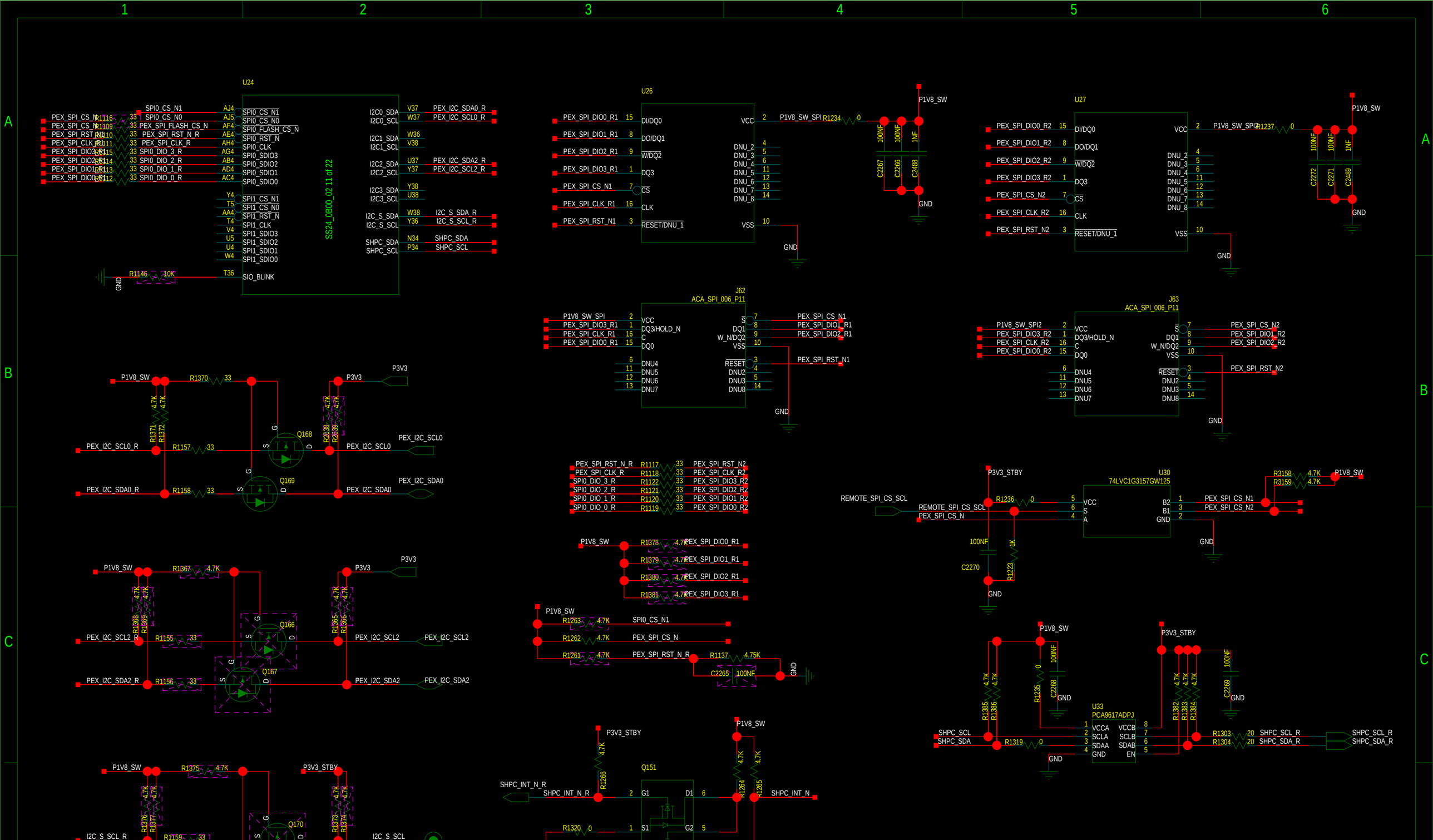

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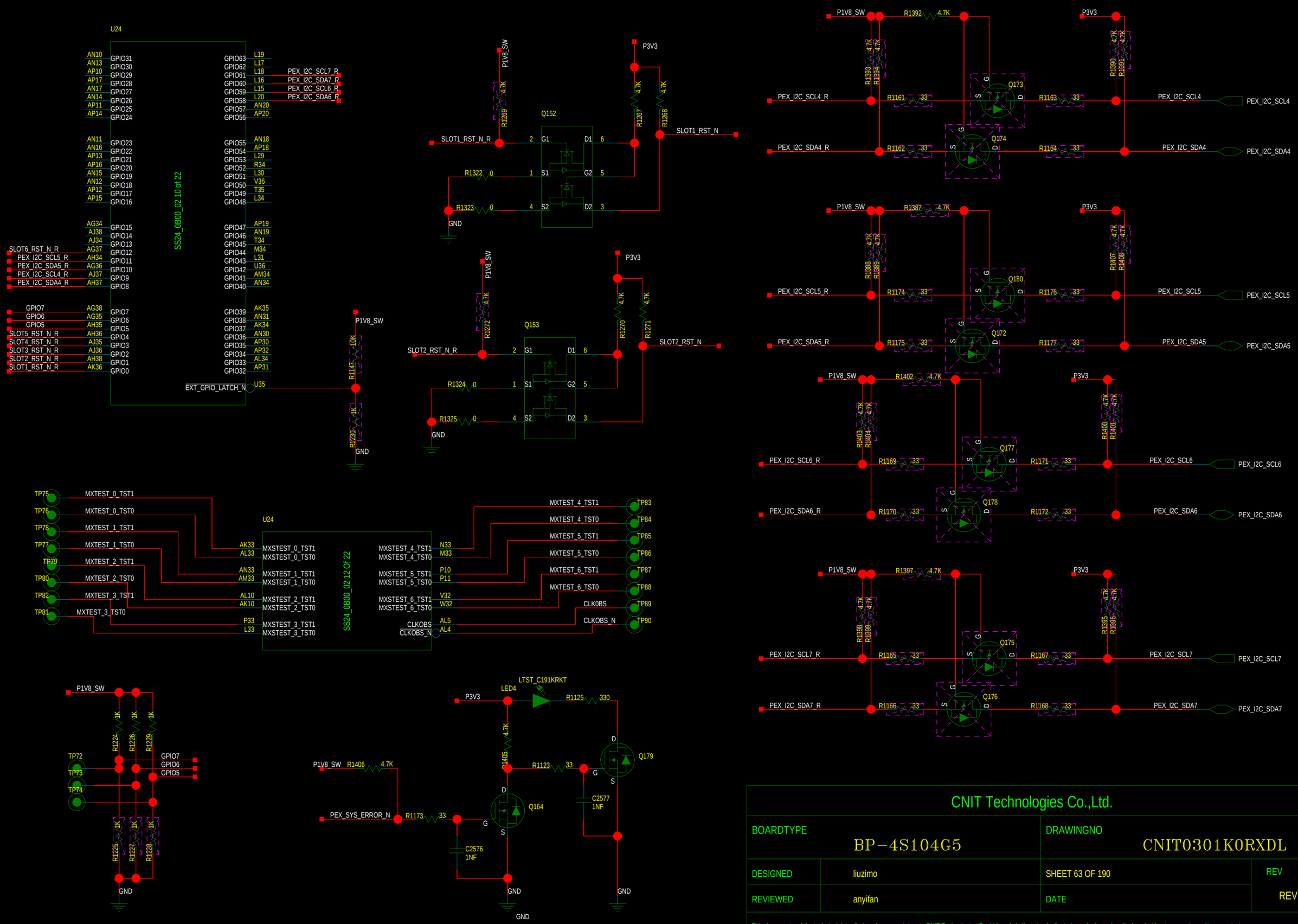

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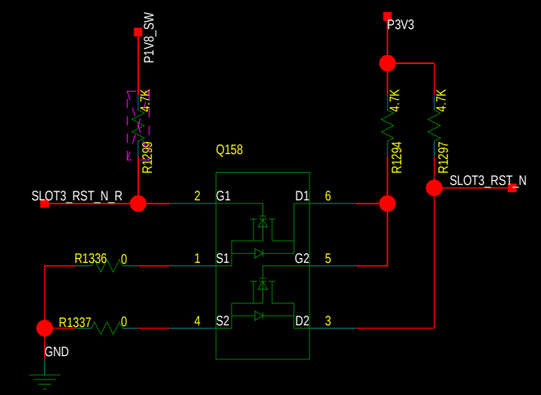

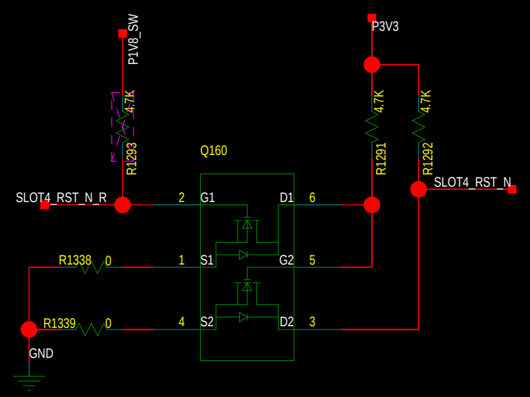

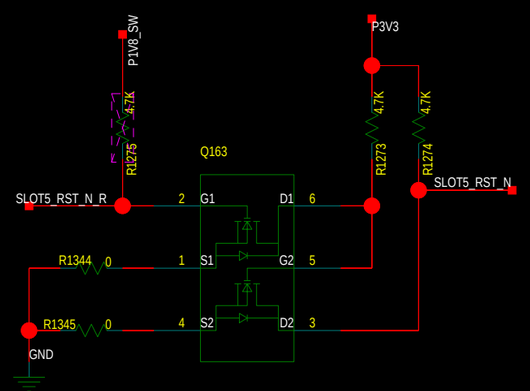

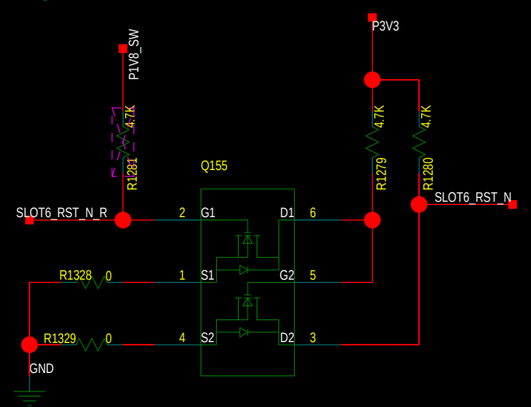

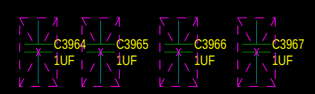

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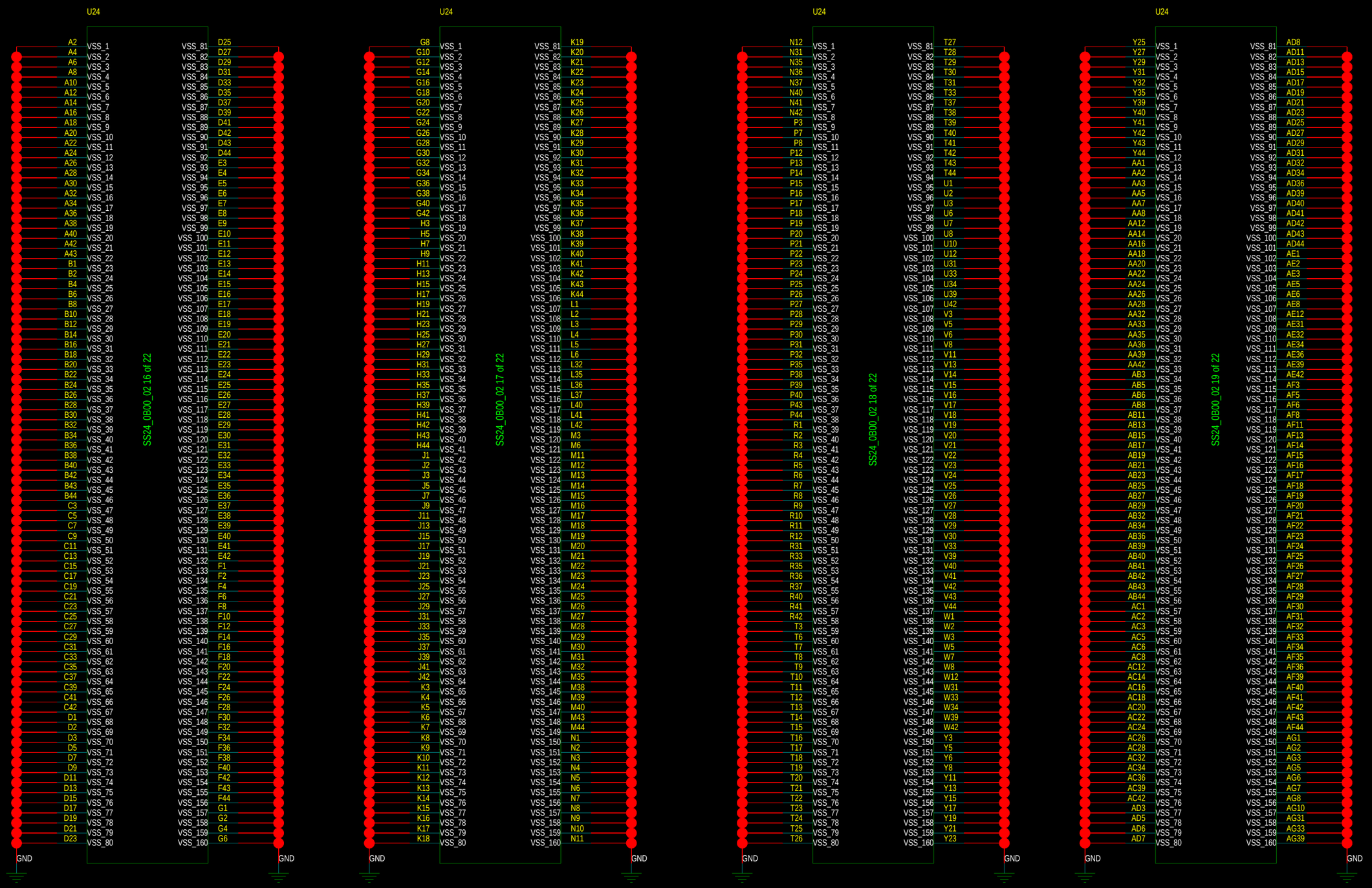

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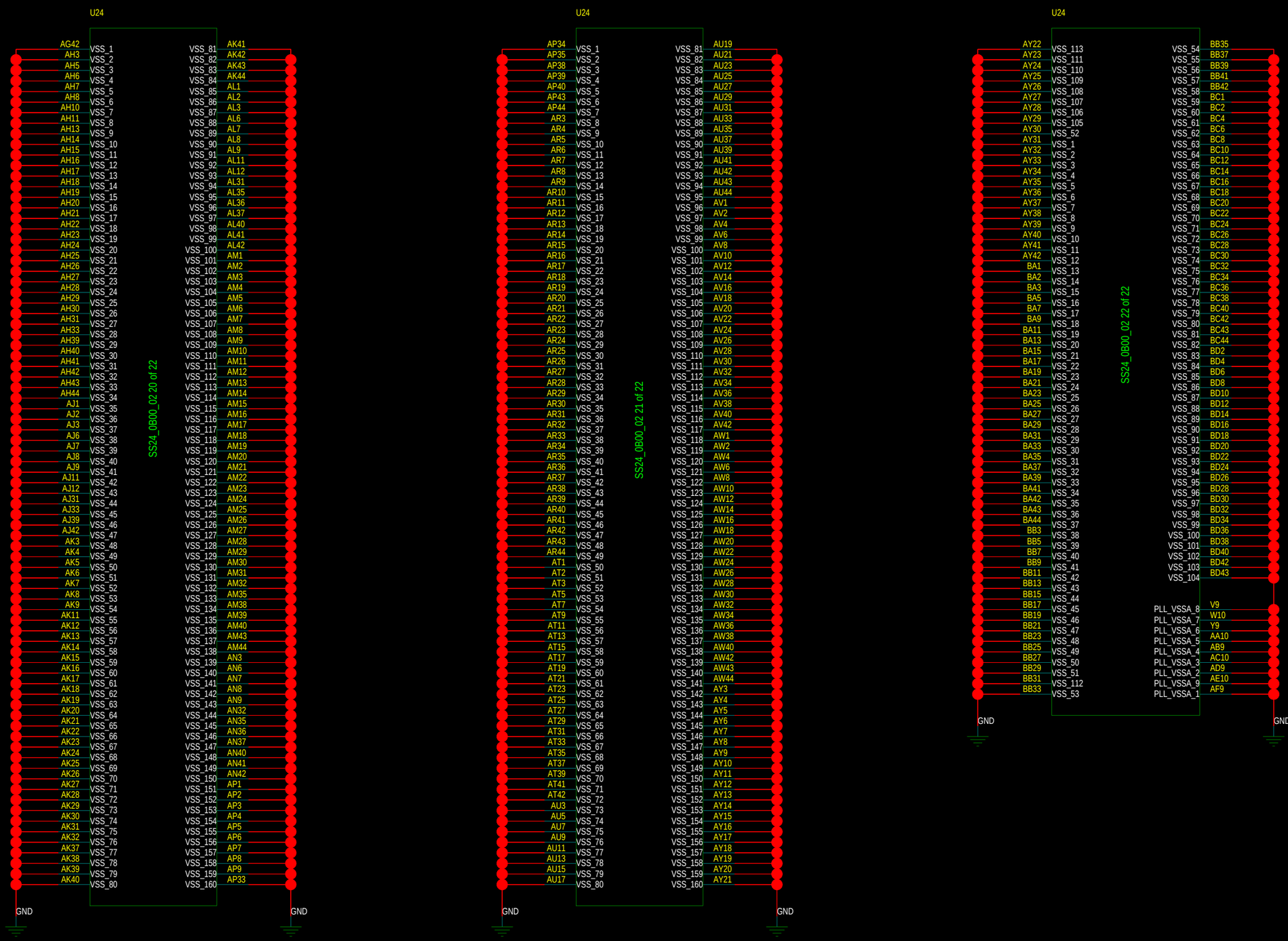

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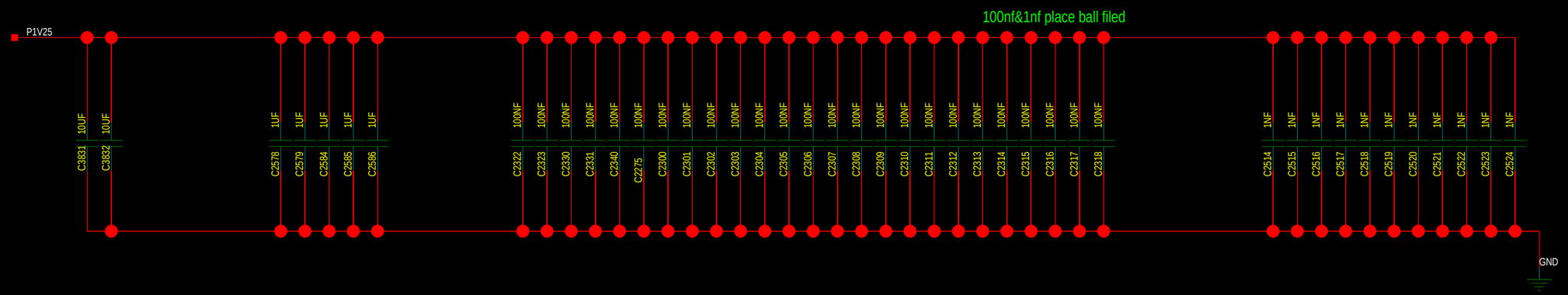
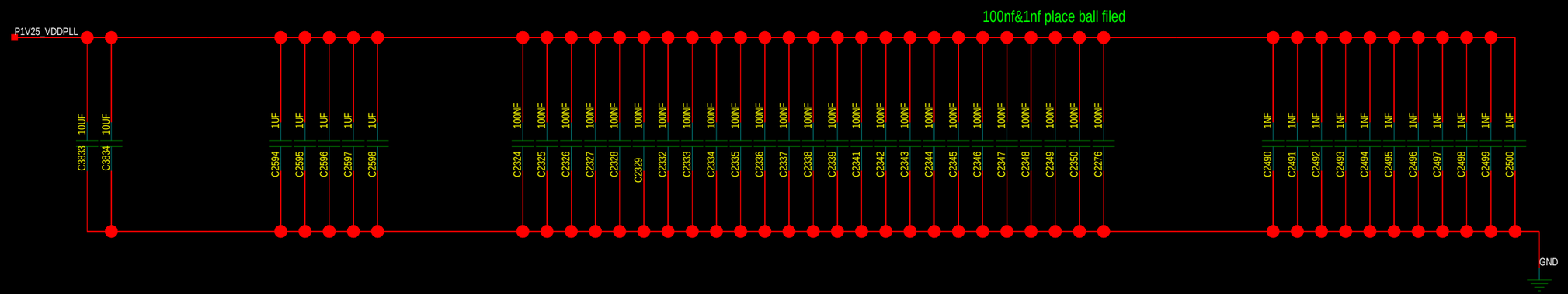
0.1U CAPS = 28
1NF CAPS =12
1UF CAPS = 6
10UF CAPS = 4



0.1U CAPS = 28
1NF CAPS =12
1UF CAPS = 6
10UF CAPS = 4



0.1U CAPS = 10
1NF CAPS = 6
1UF CAPS = 2
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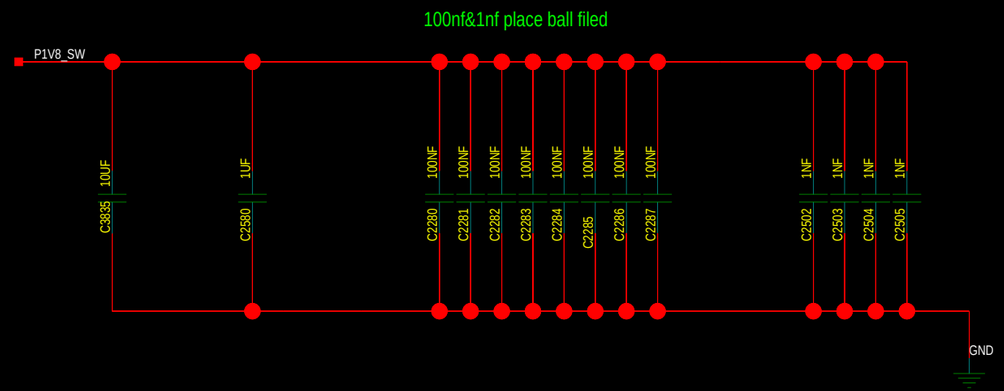
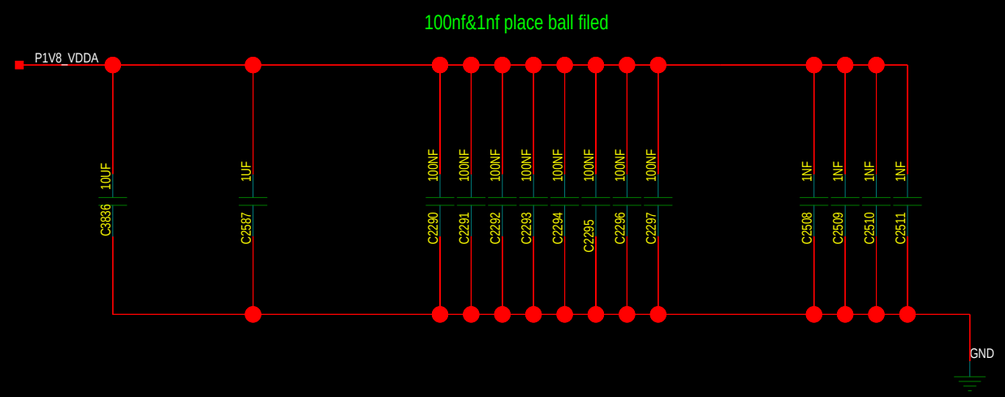


0.1U CAPS = 10
1NF CAPS = 6
1UF CAPS = 2
10UF CAPS = 1



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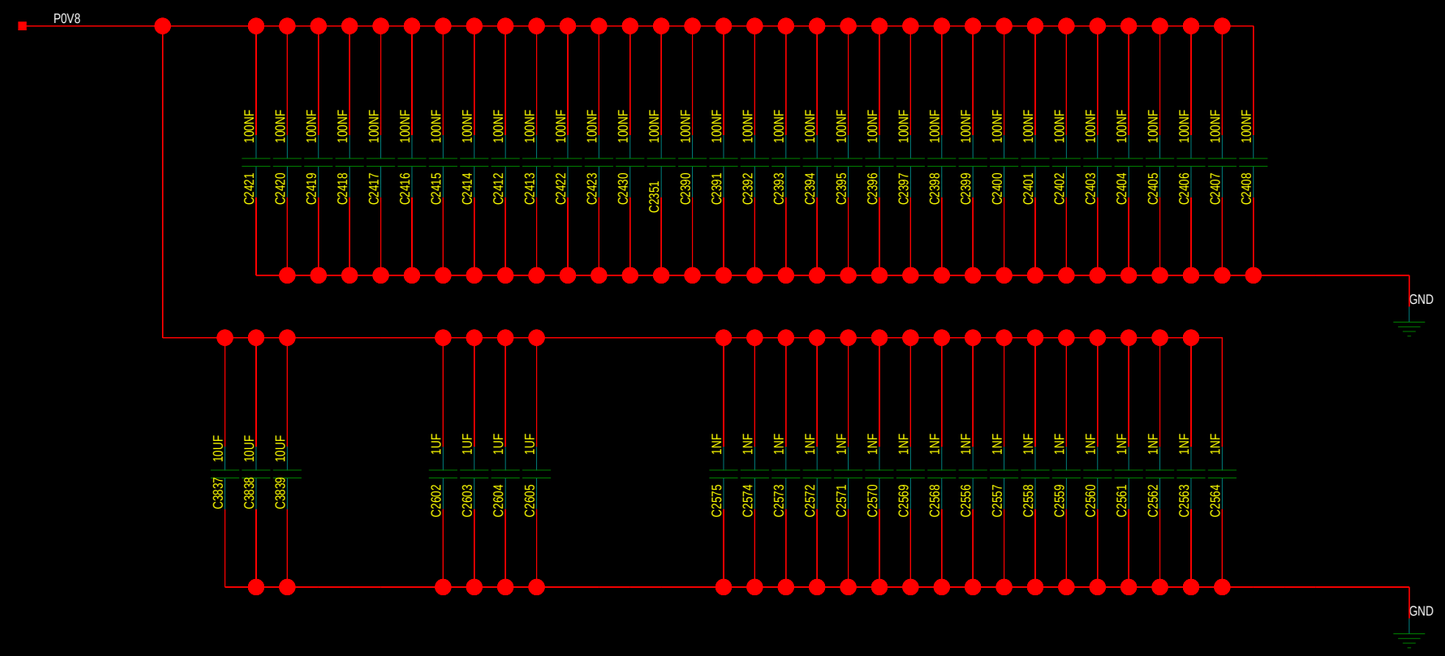
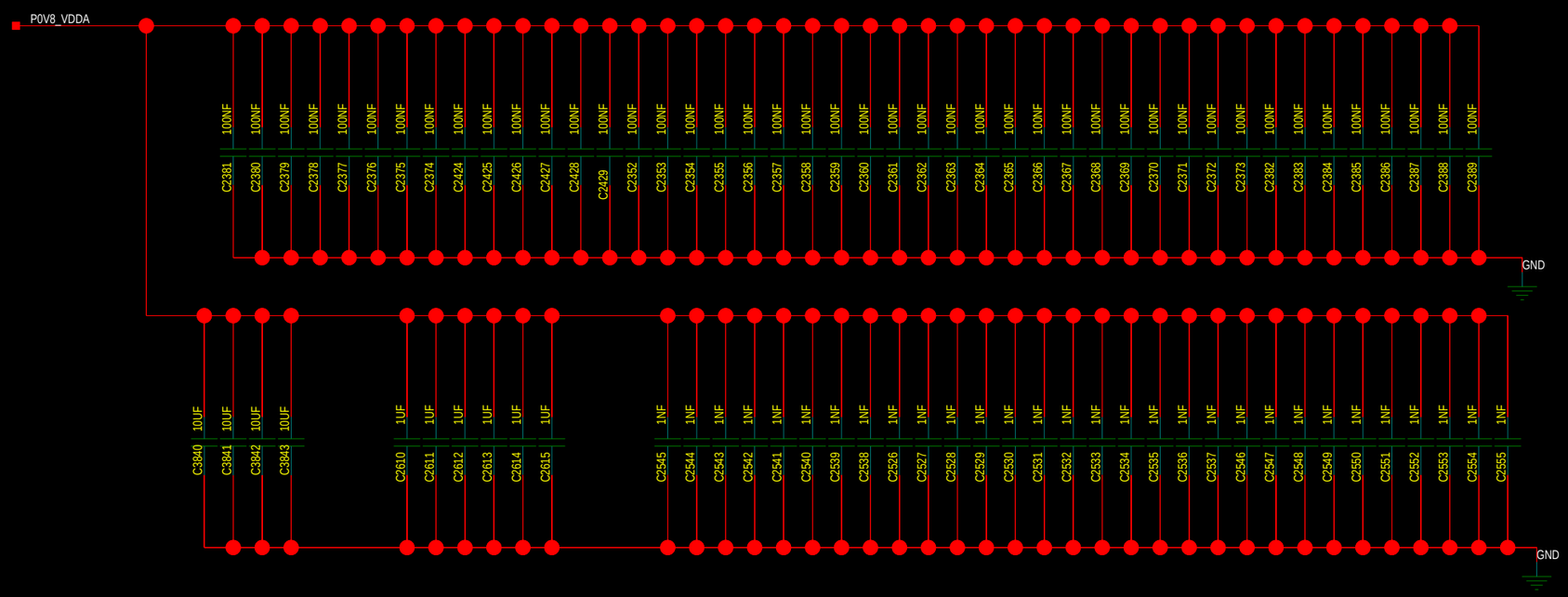
0.1U CAPS = 36
1NF CAPS =20
1UF CAPS = 6
10UF CAPS = 4

100nf&1nf place ball filed



0.1U CAPS = 44
1NF CAPS =30
1UF CAPS = 6
10UF CAPS = 4

100nf&1nf place ball filed



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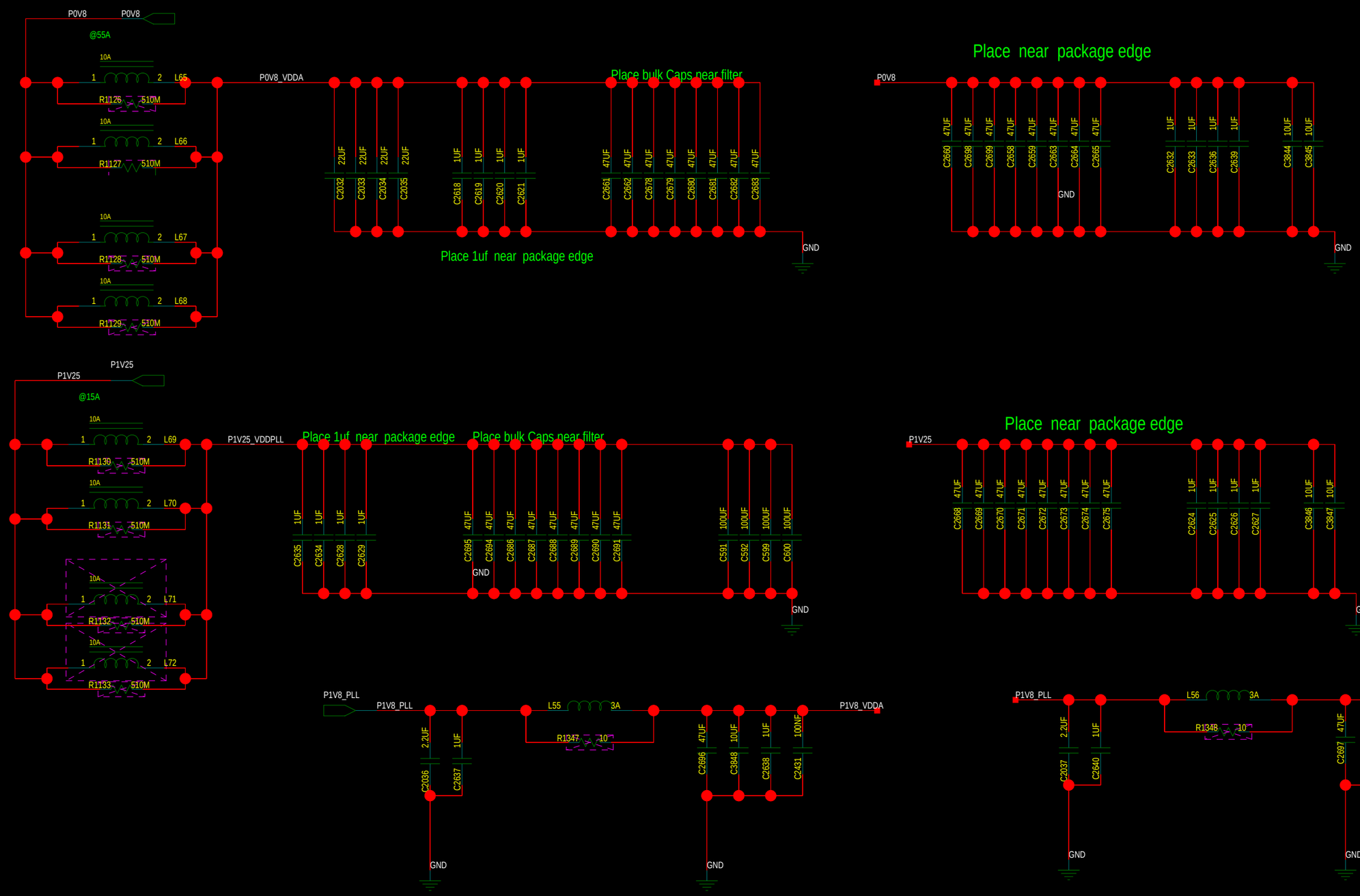

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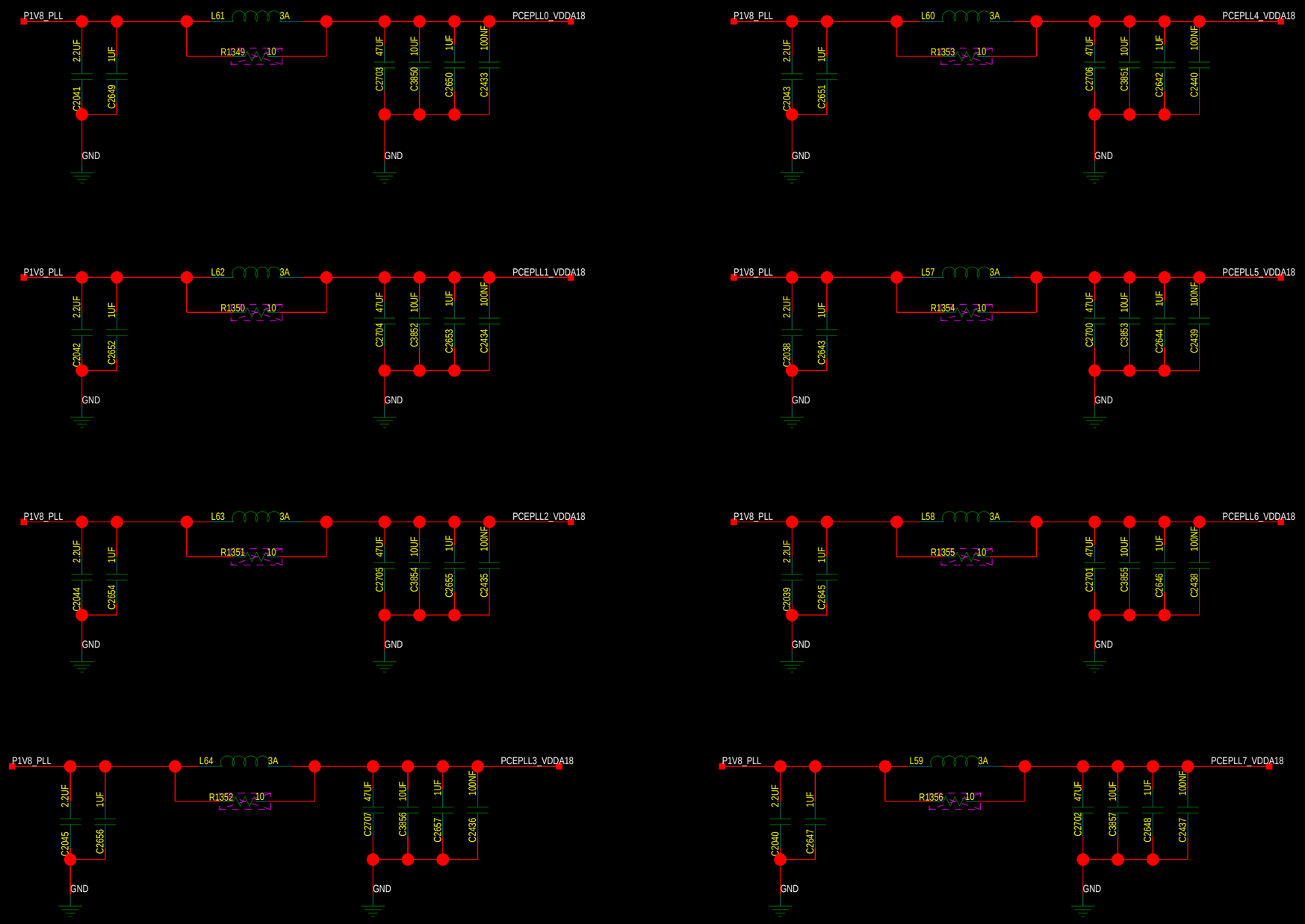

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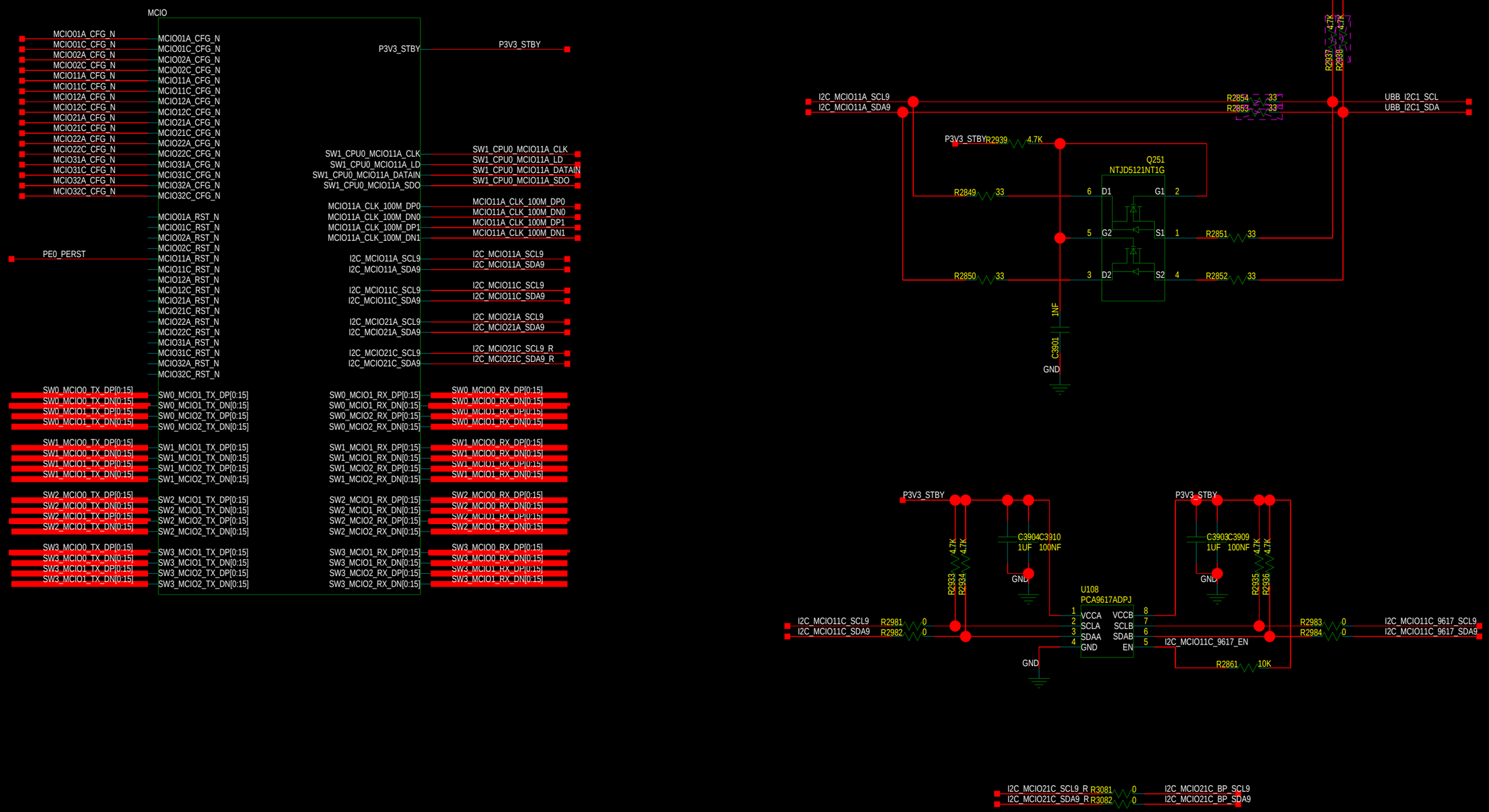

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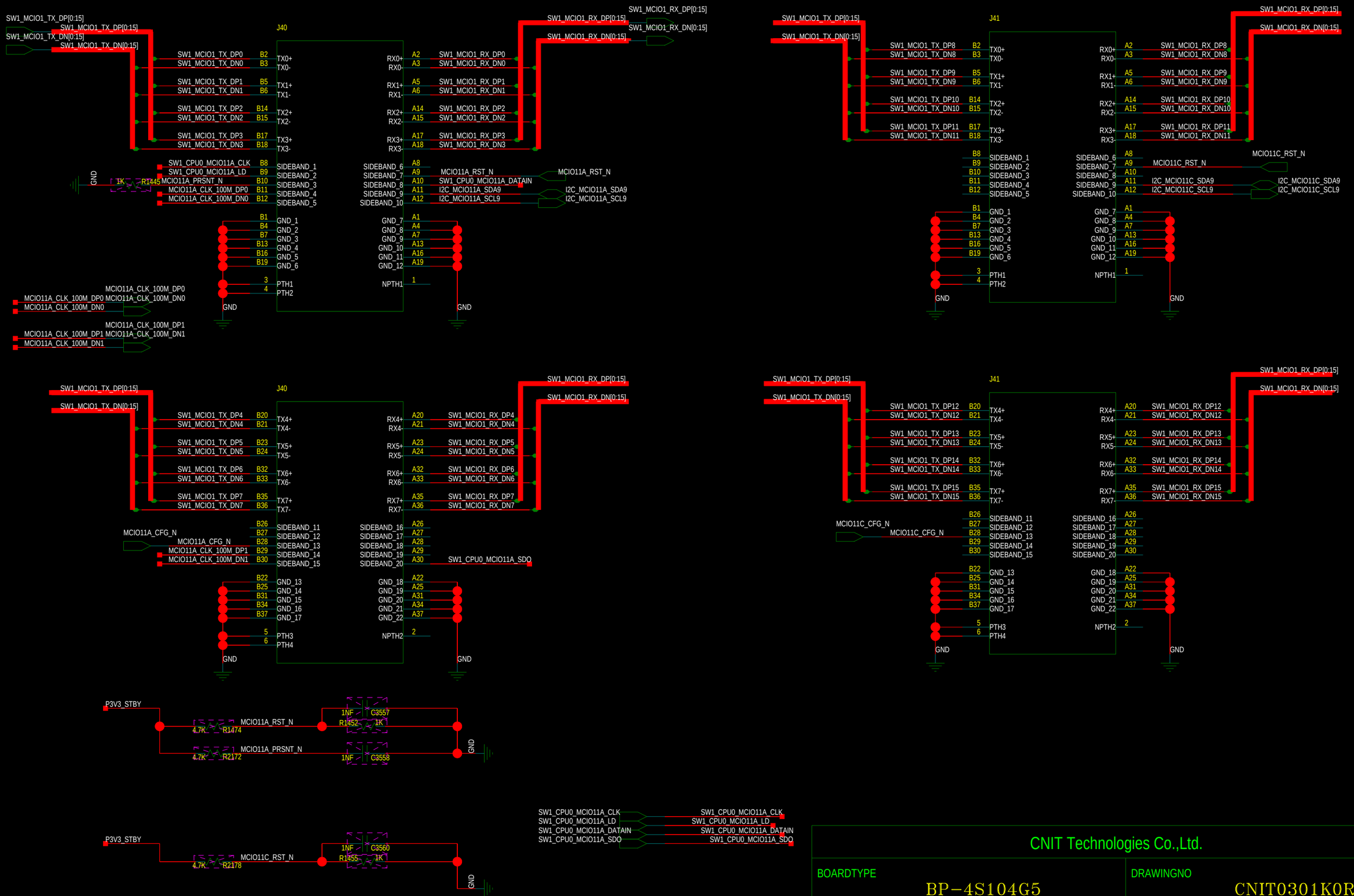

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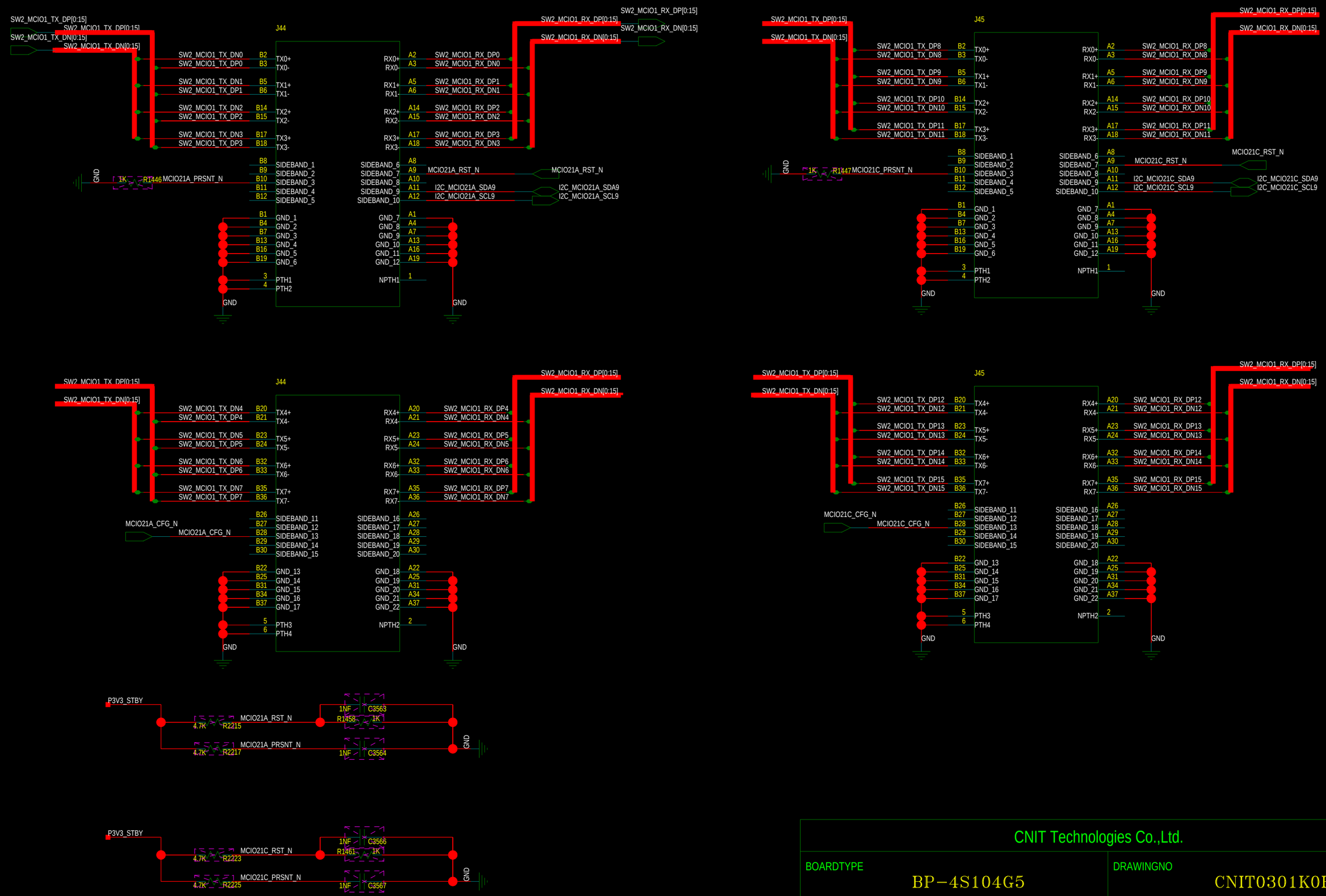

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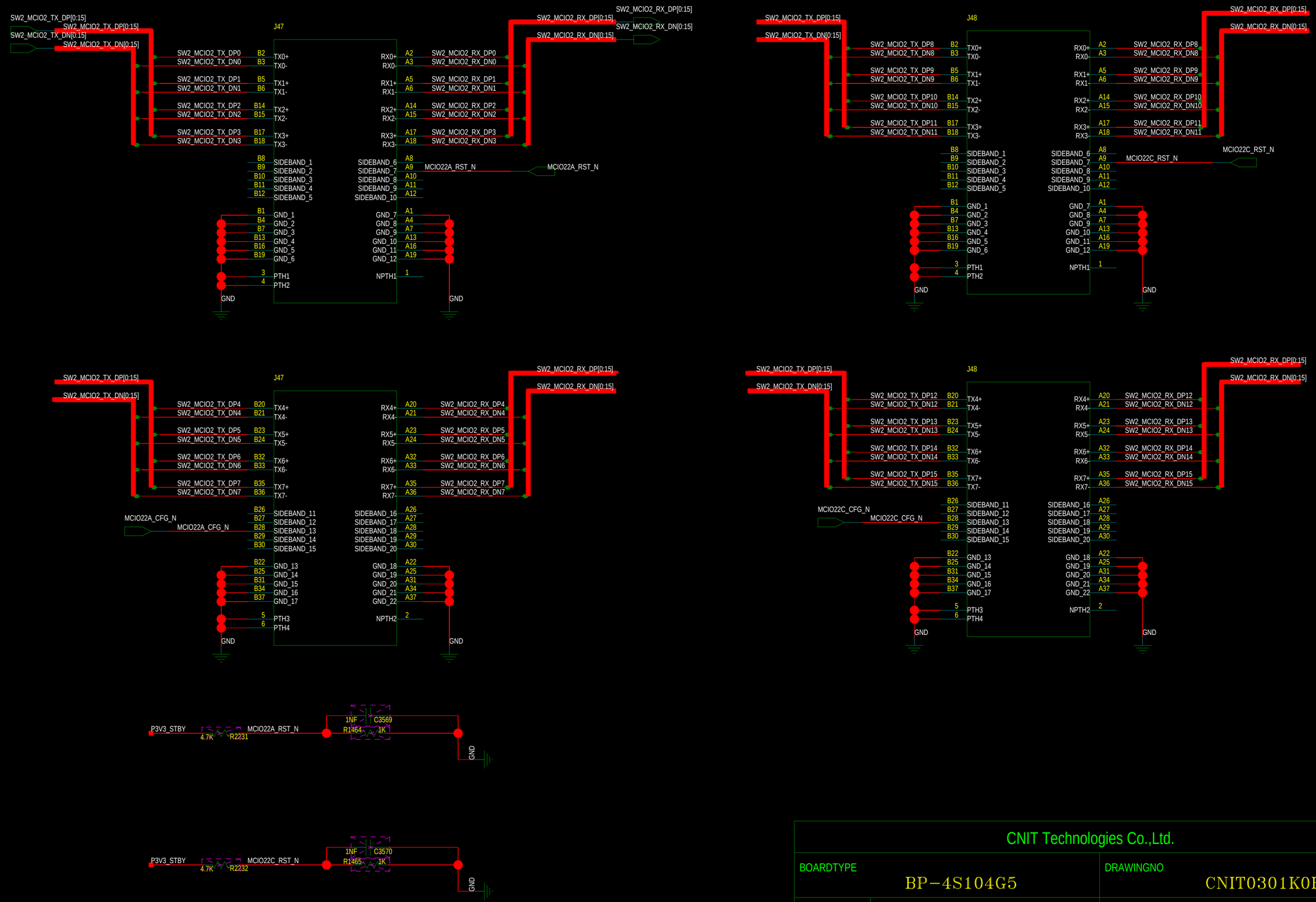

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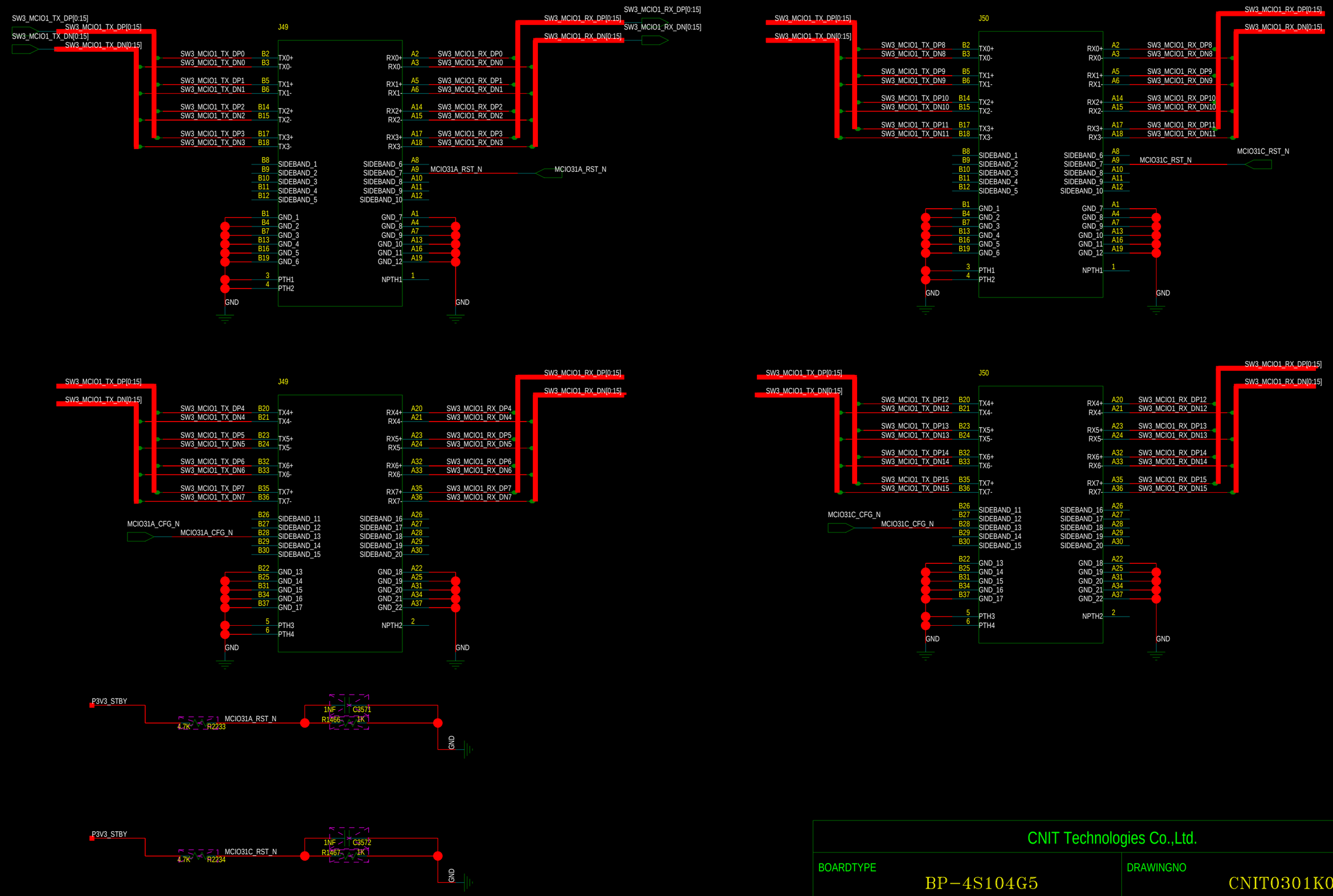

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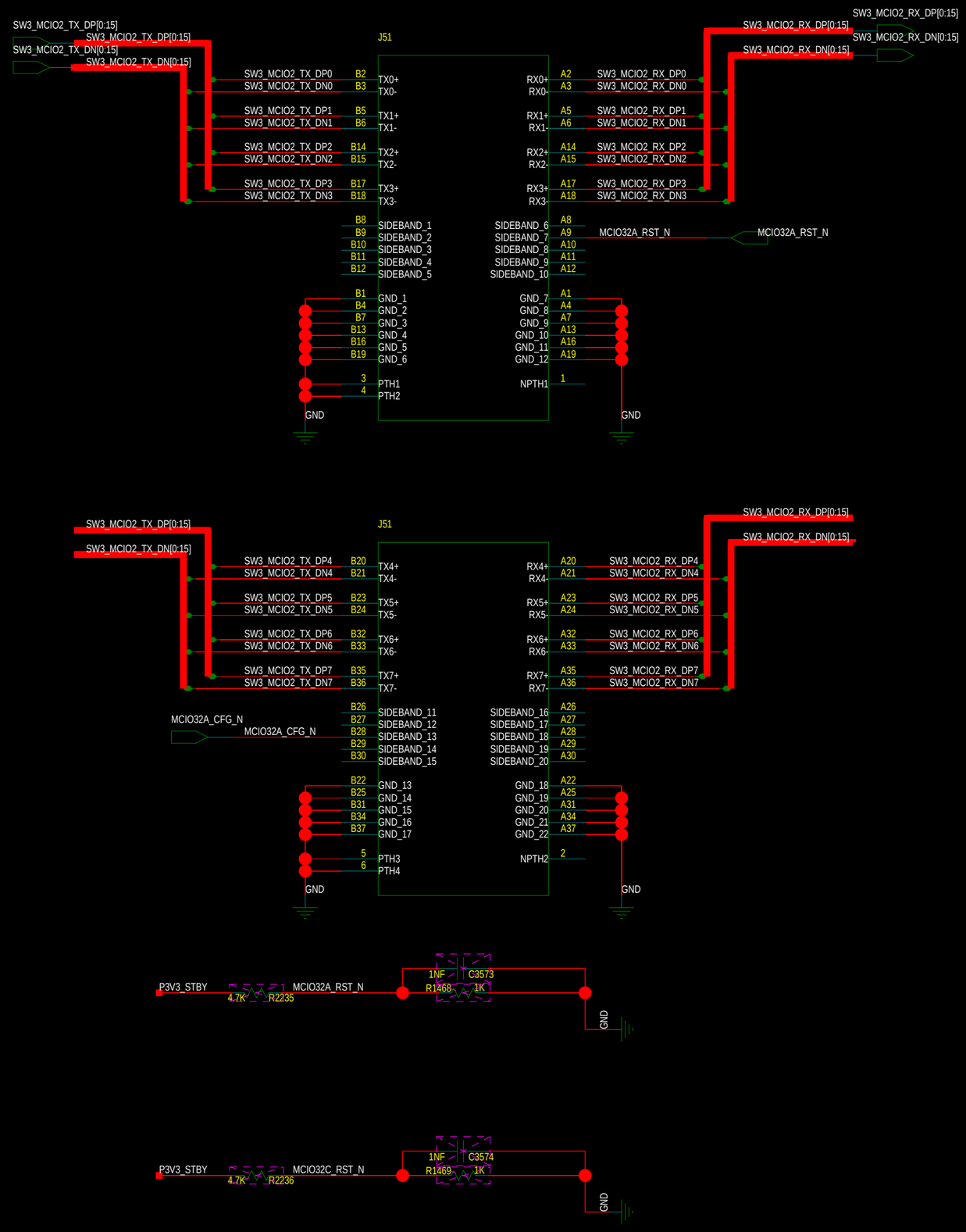

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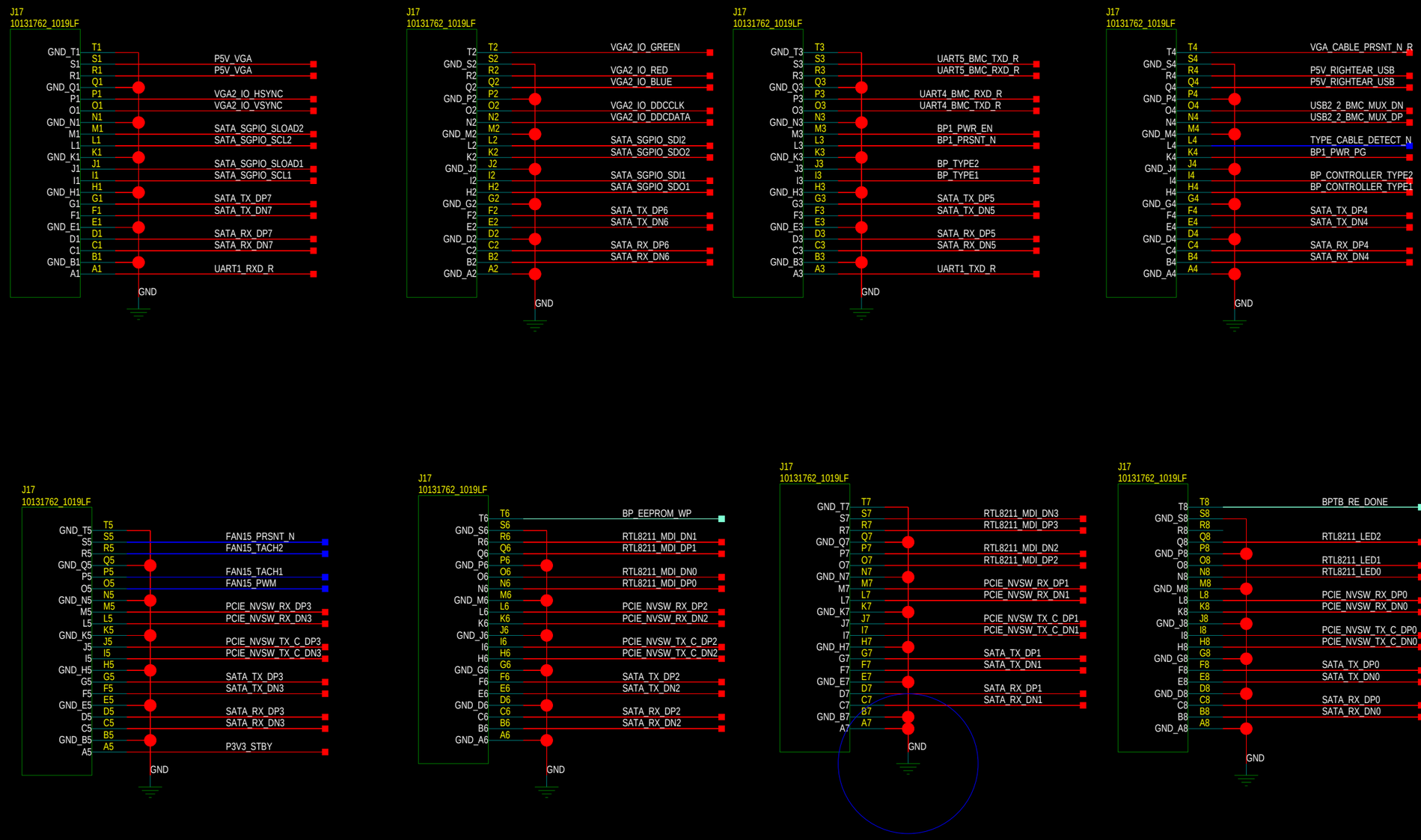

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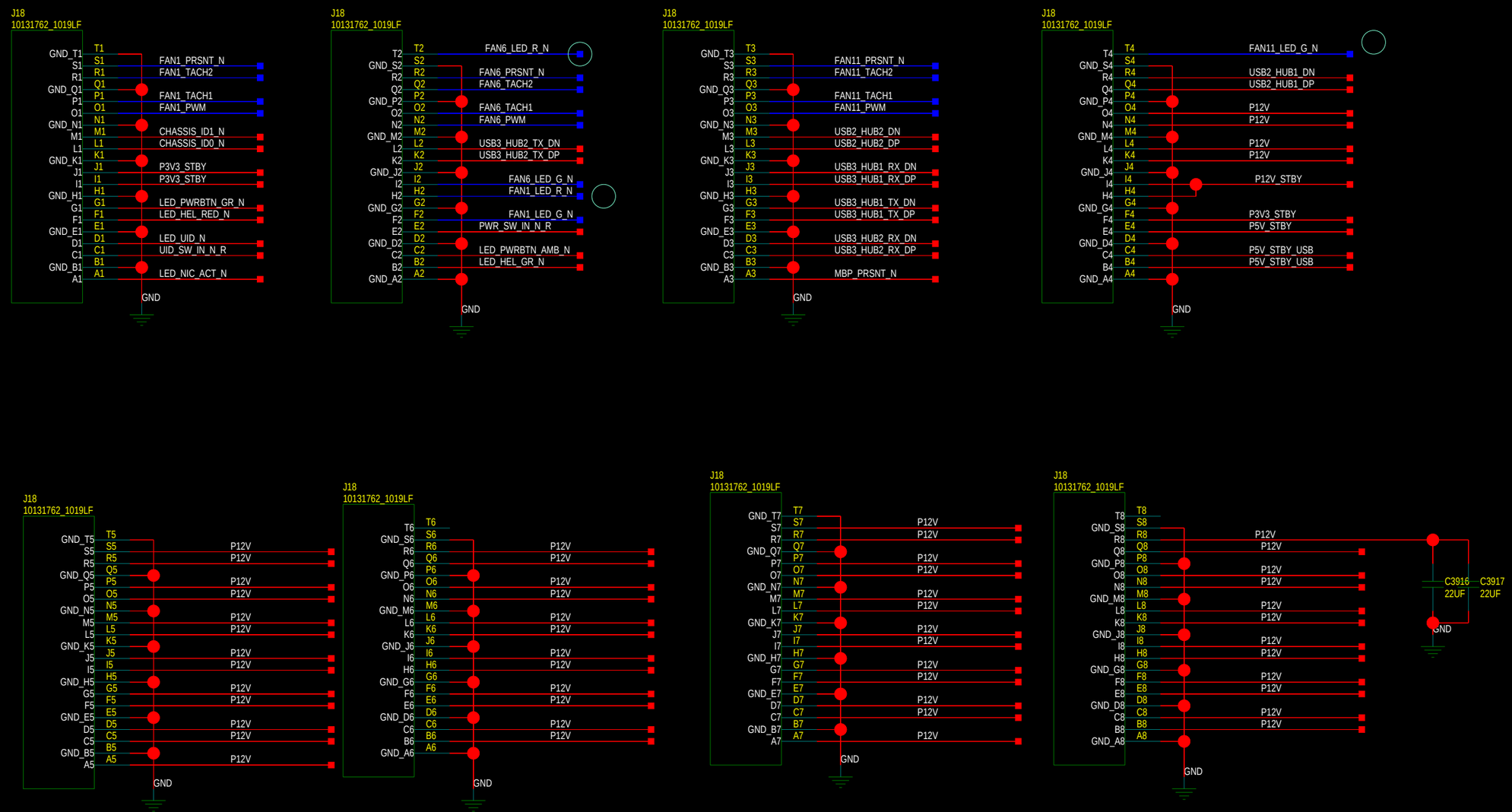

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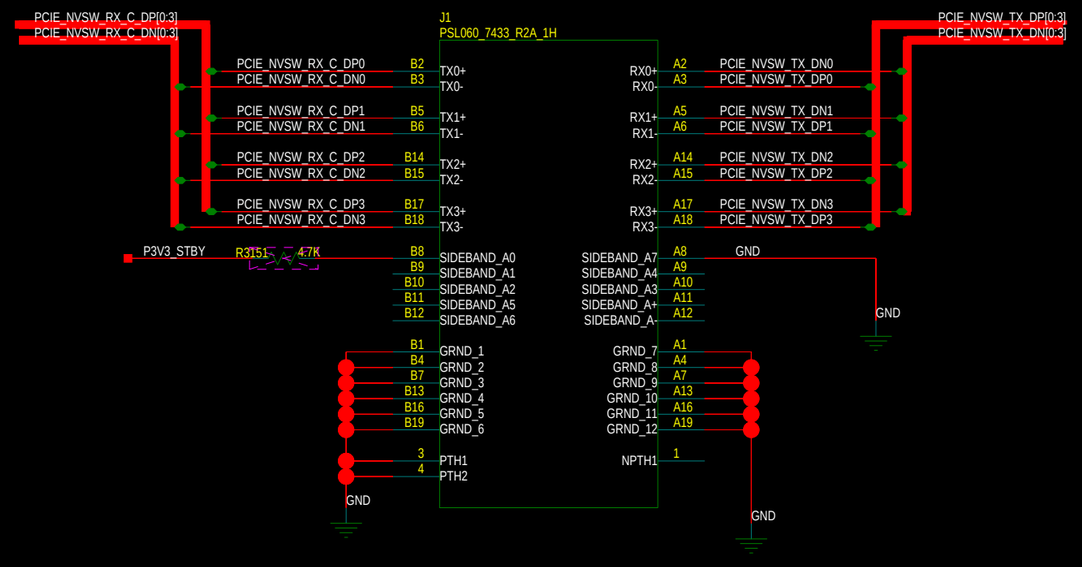

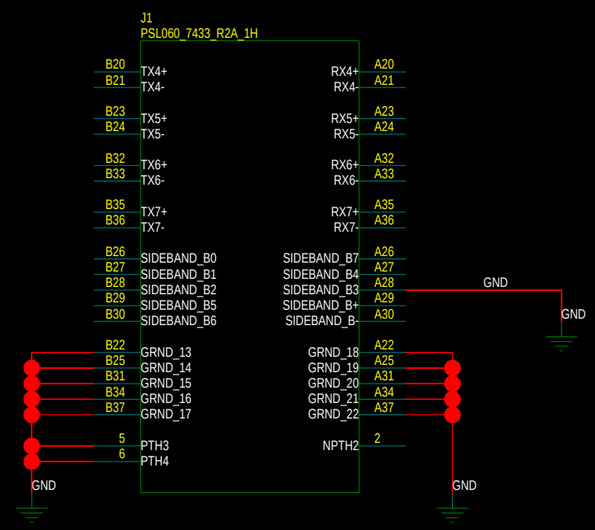

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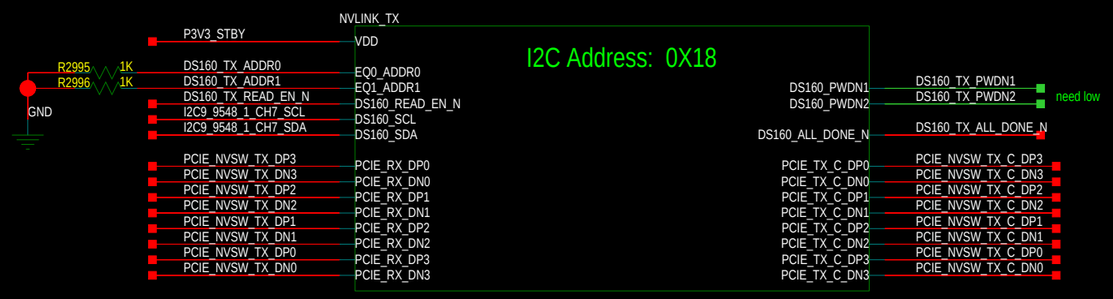

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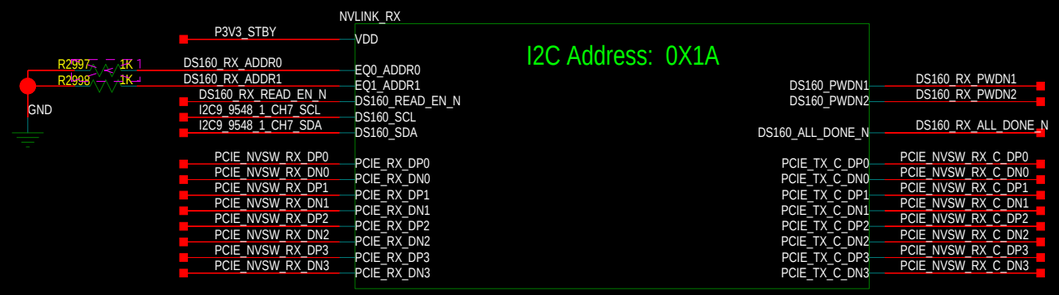

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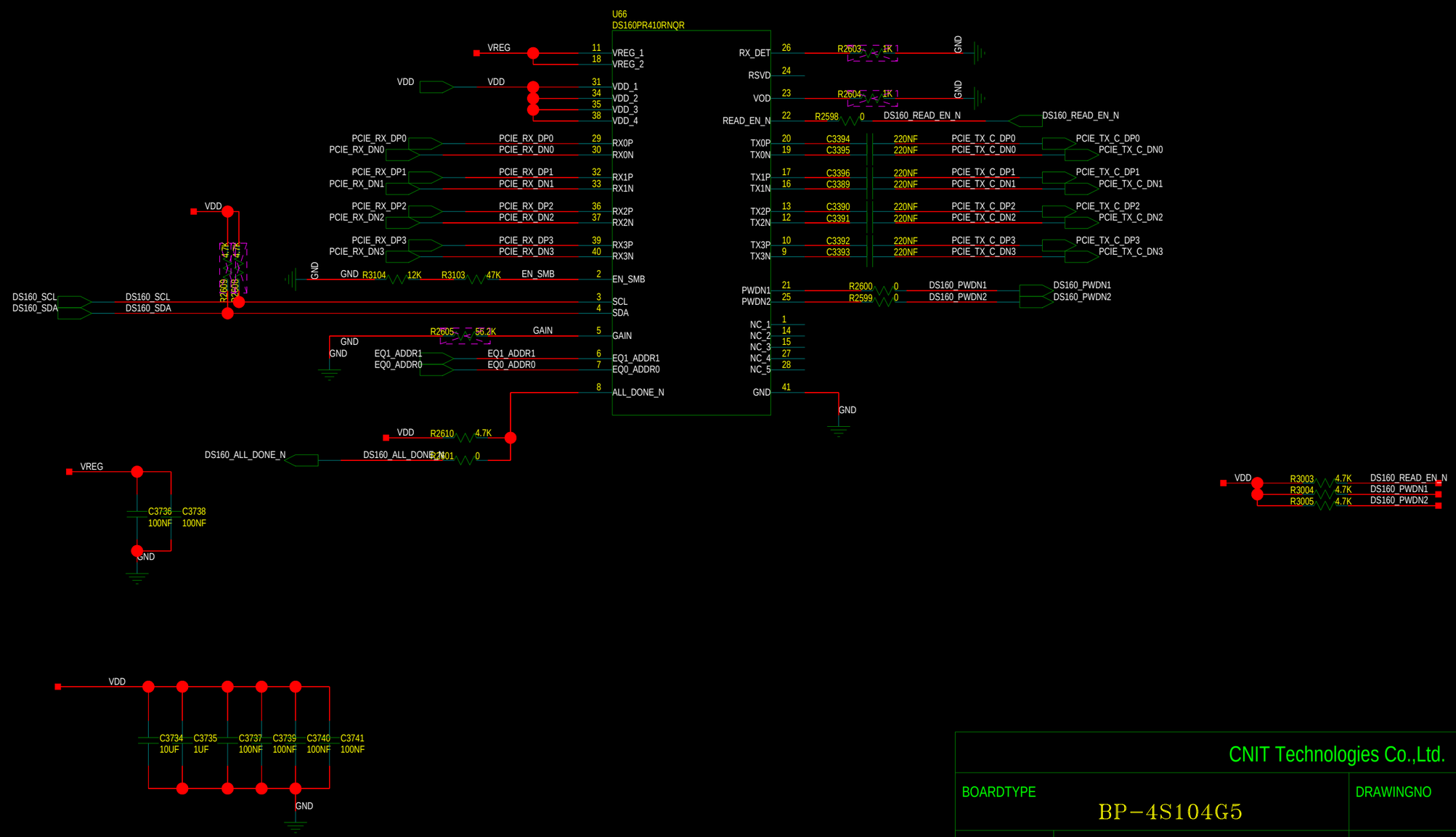

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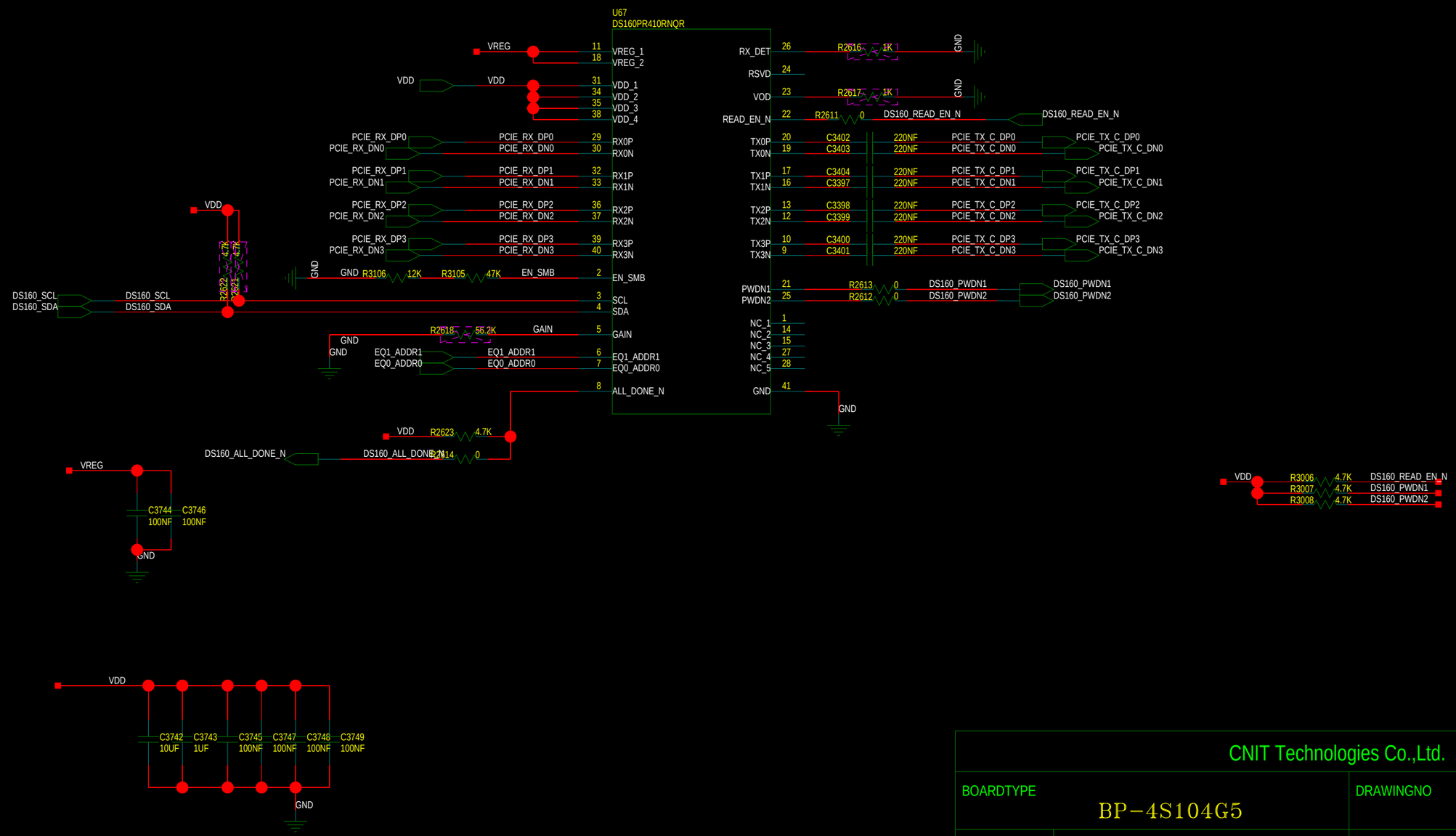

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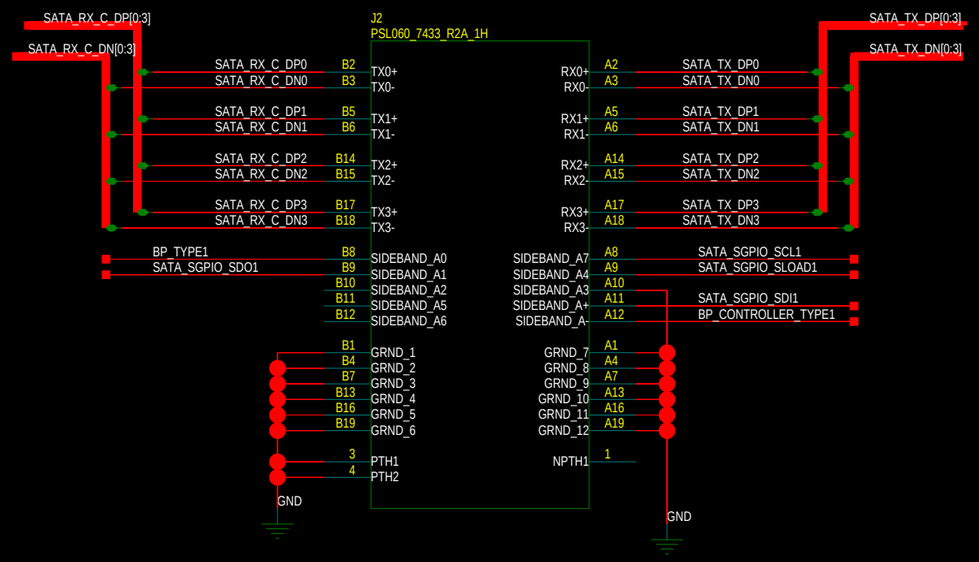

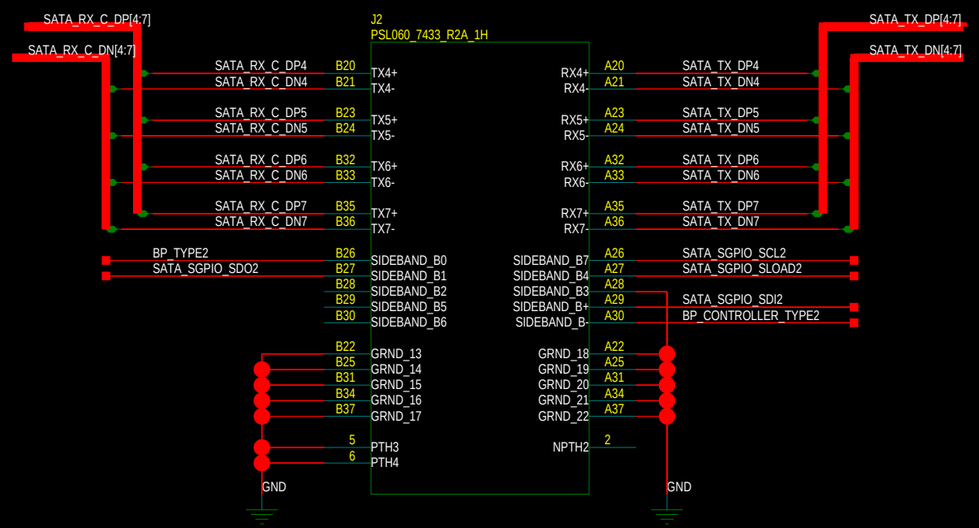

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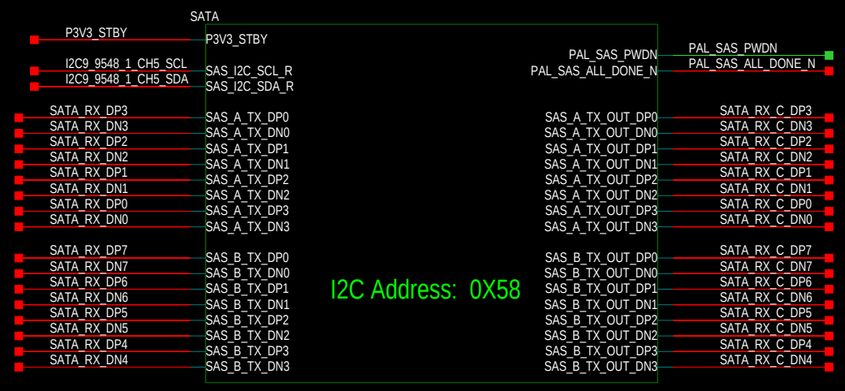

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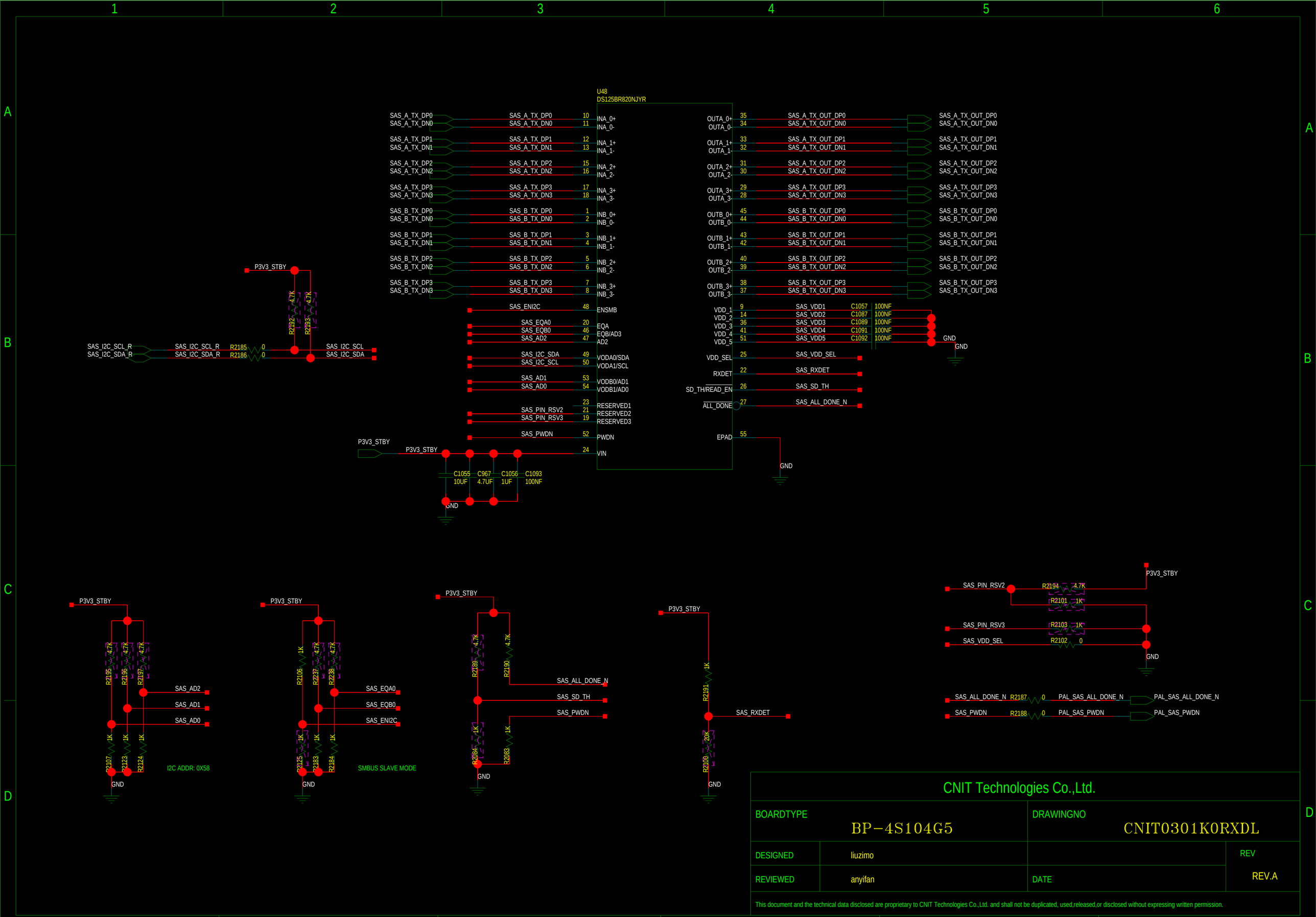

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REVIEWED	anyifan	DATE	REV.A

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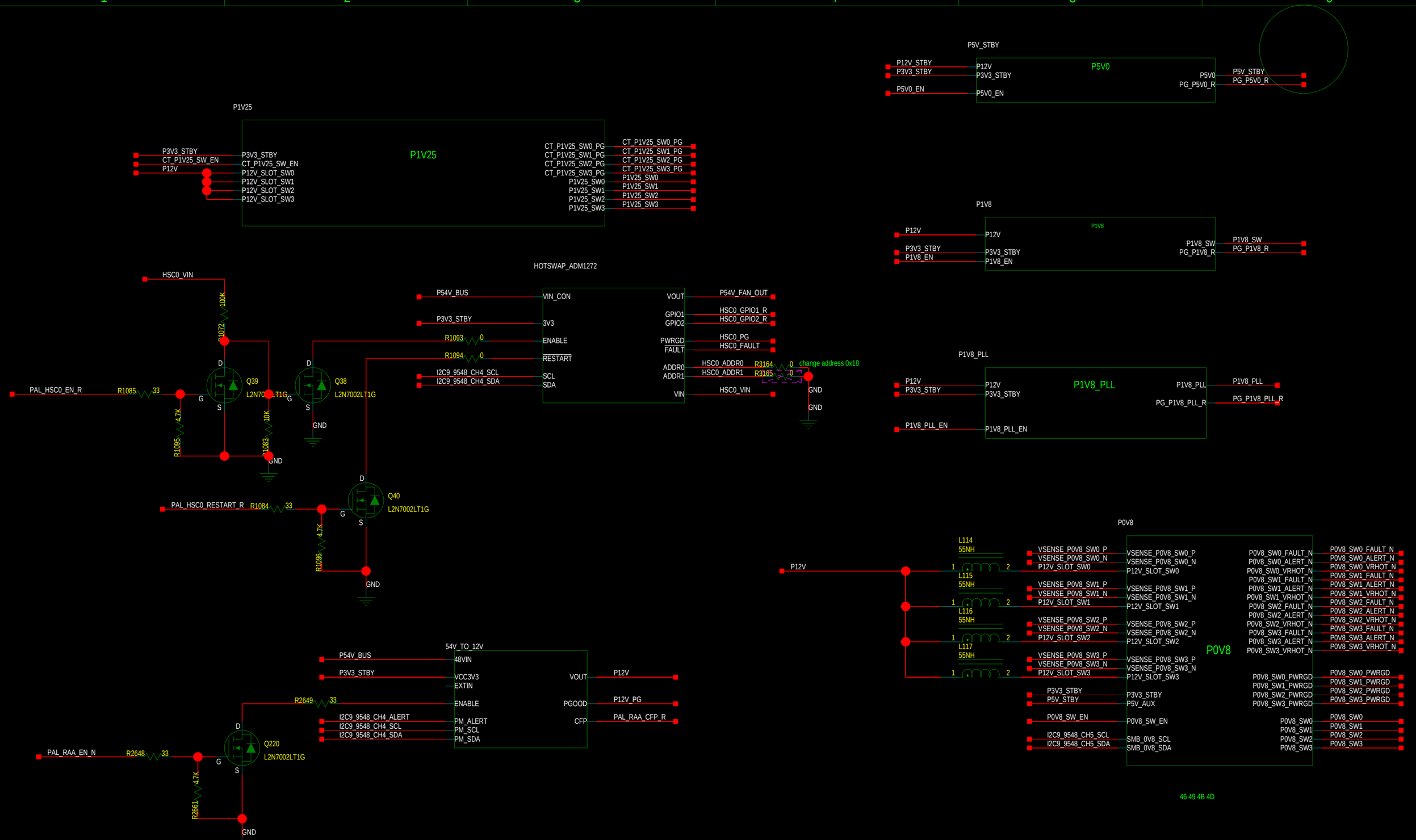

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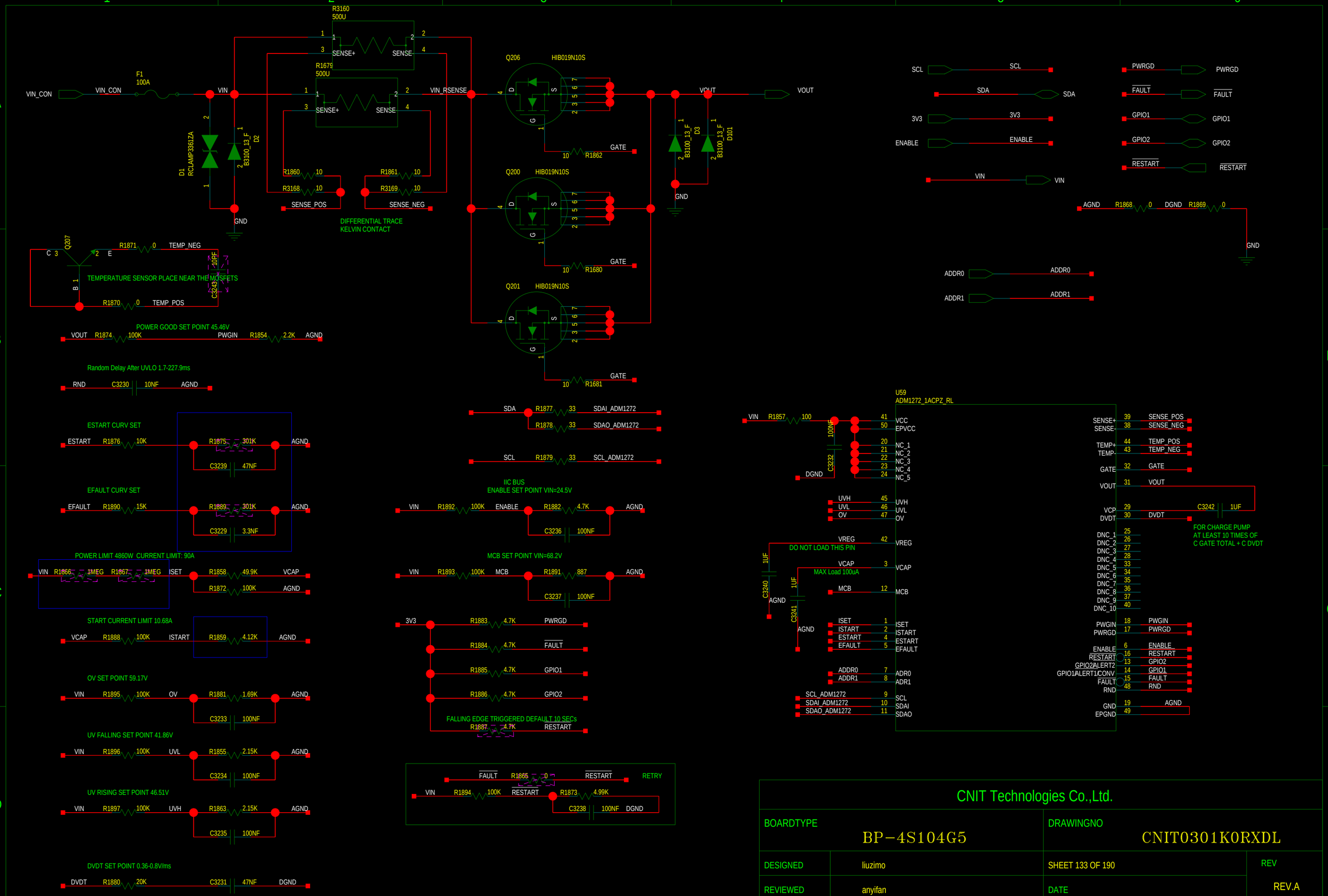

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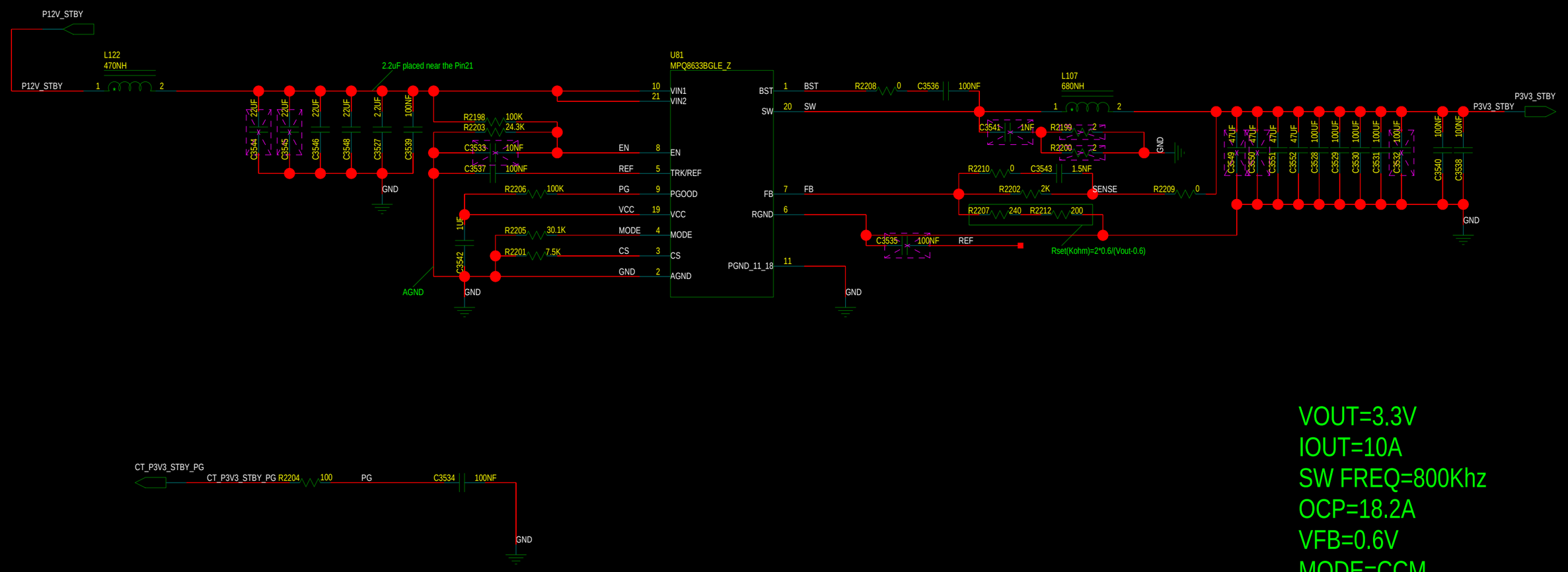
3911A05P_MPQ8633B_3V3_V1.0



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IOUT=10A
SW FREQ=800Khz
OCP=18.2A
VFB=0.6V
MODE=CCM

CNIT Technologies Co.,Ltd.			
BOARDTYPE BP−4S104G5		DRAWINGNO CNIT0301K0RXDL	
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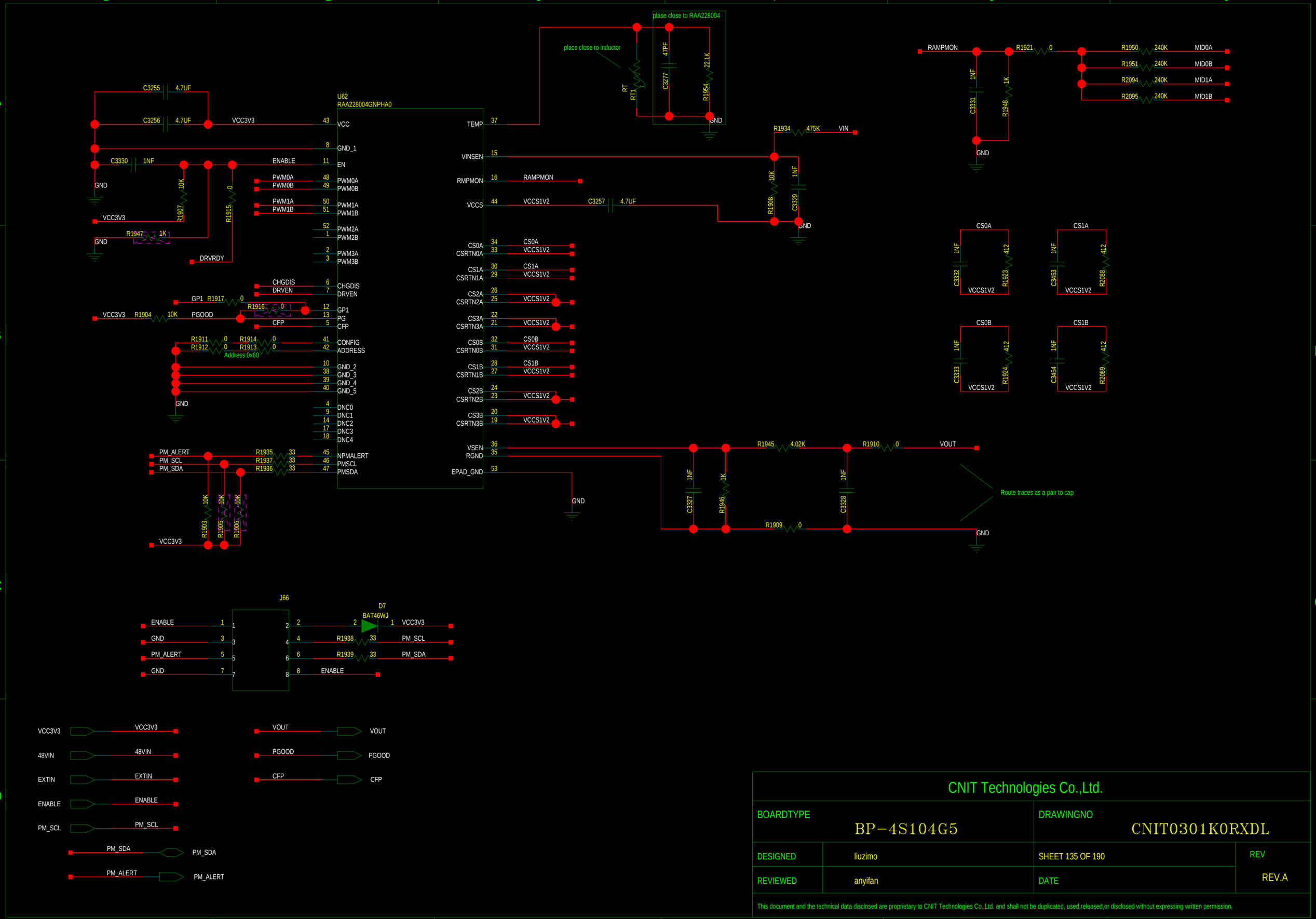

CNIT Technologies Co.,Ltd.			
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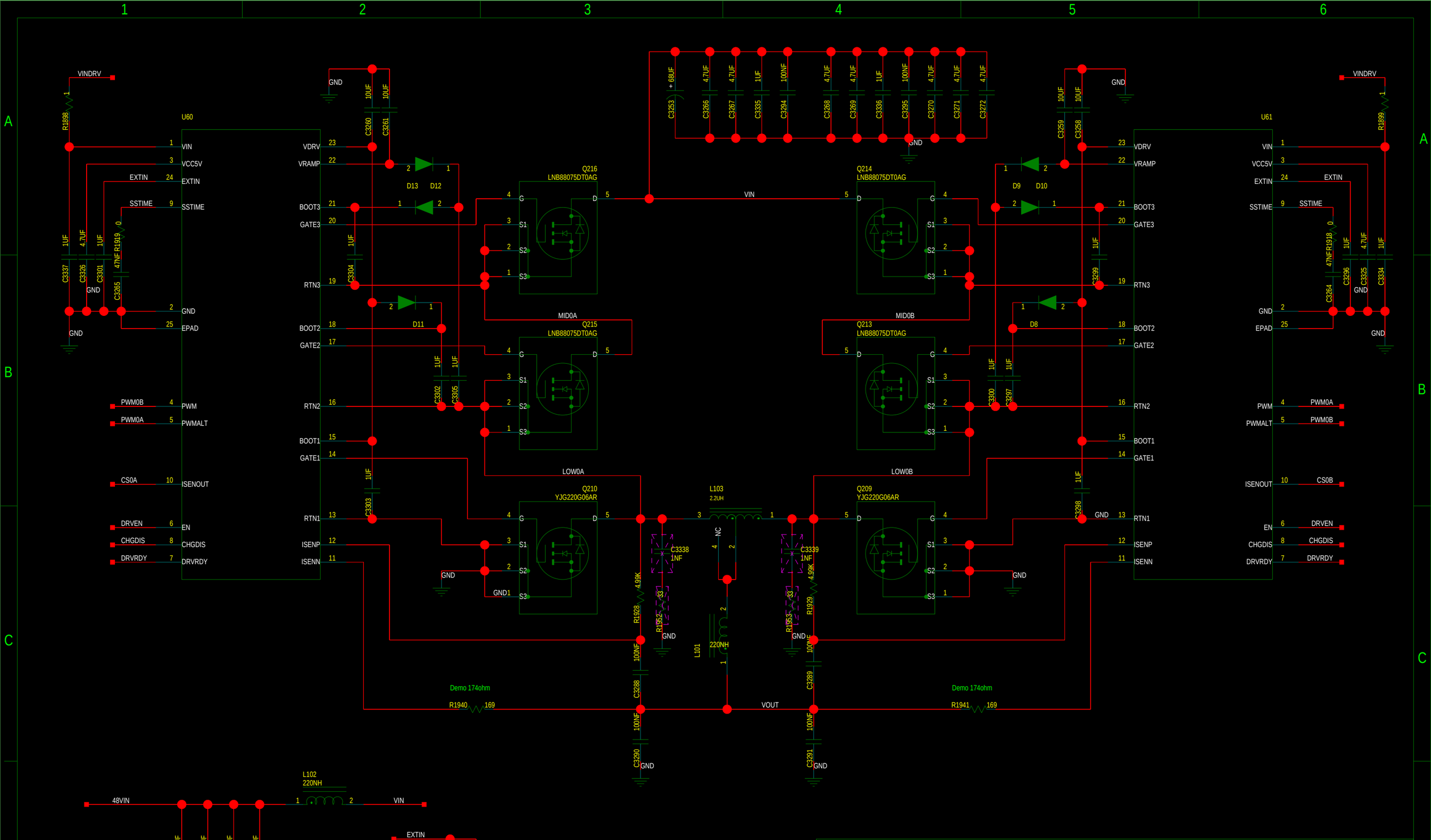

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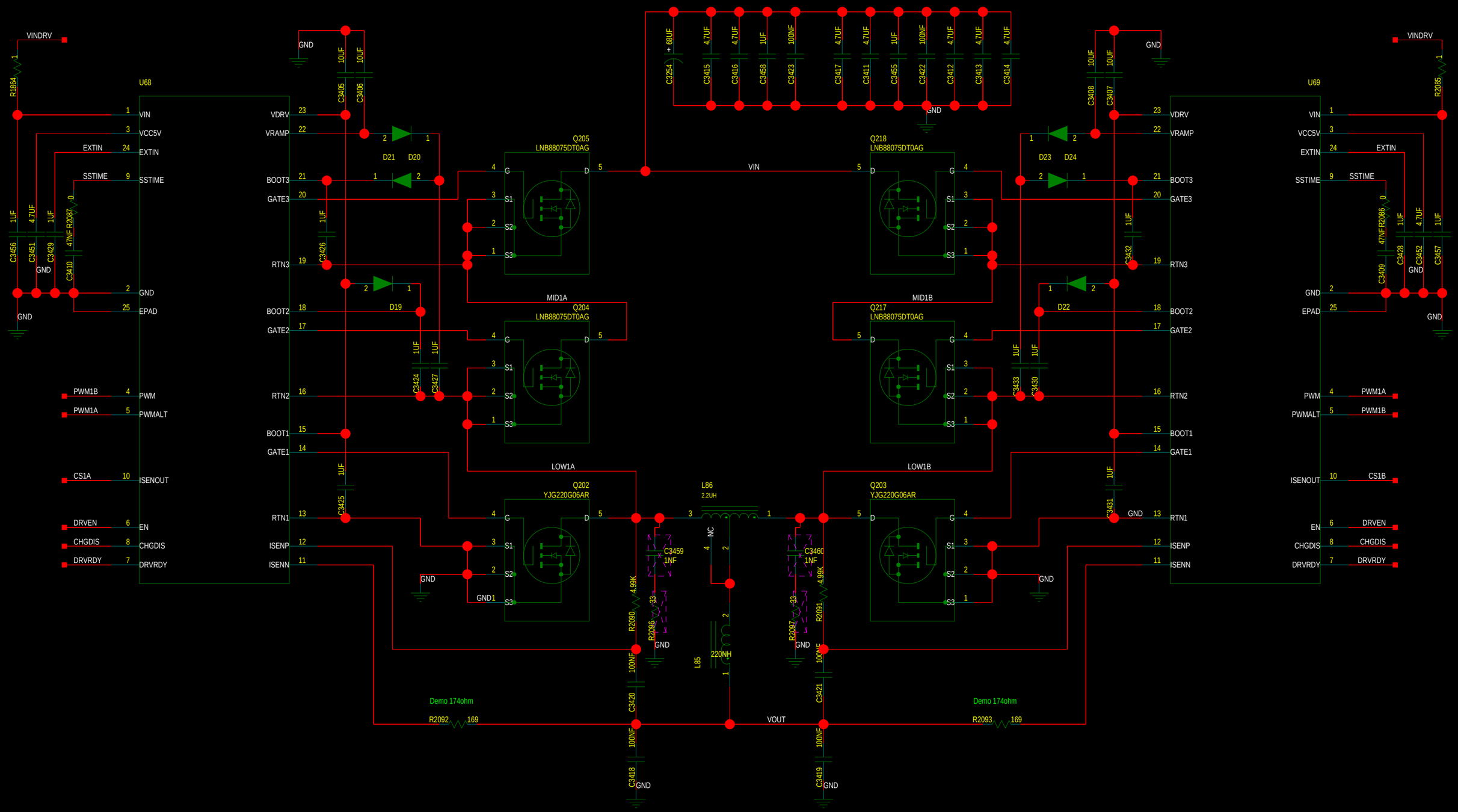

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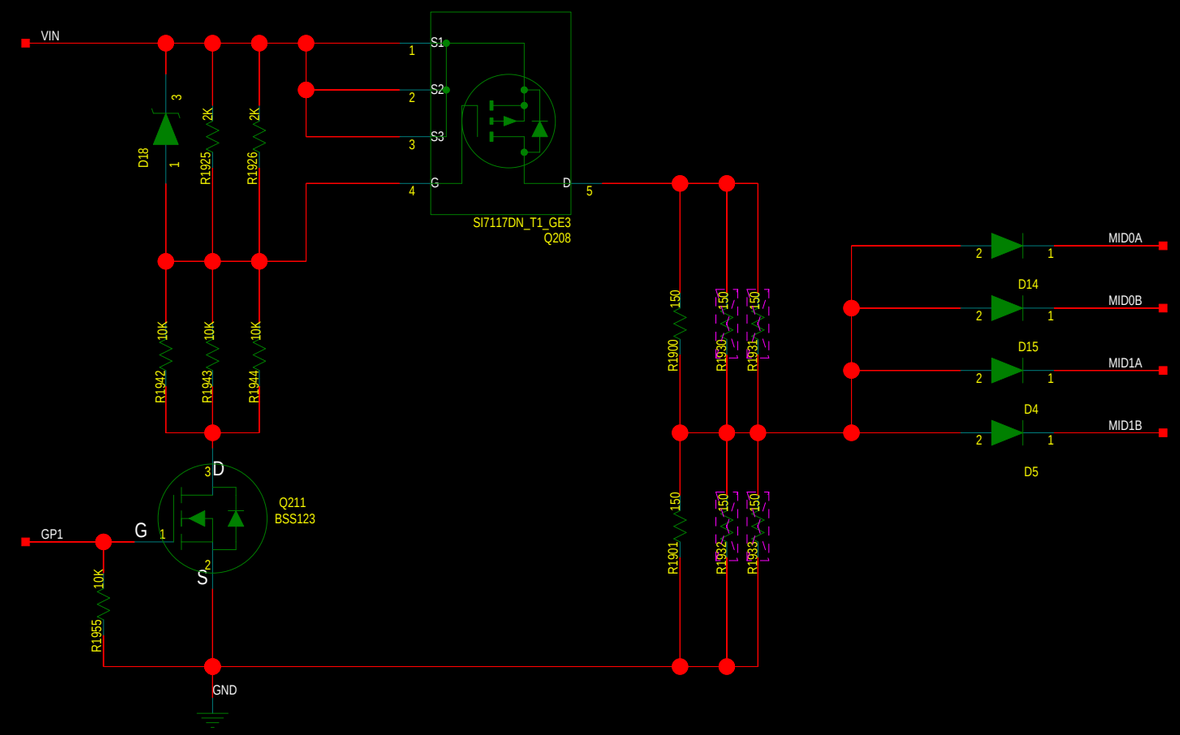
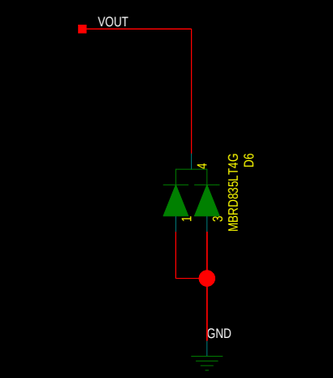
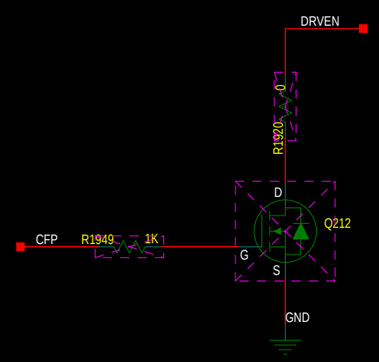
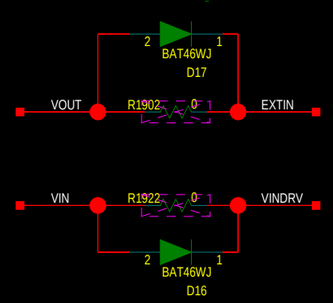
Pre Charge Circuit









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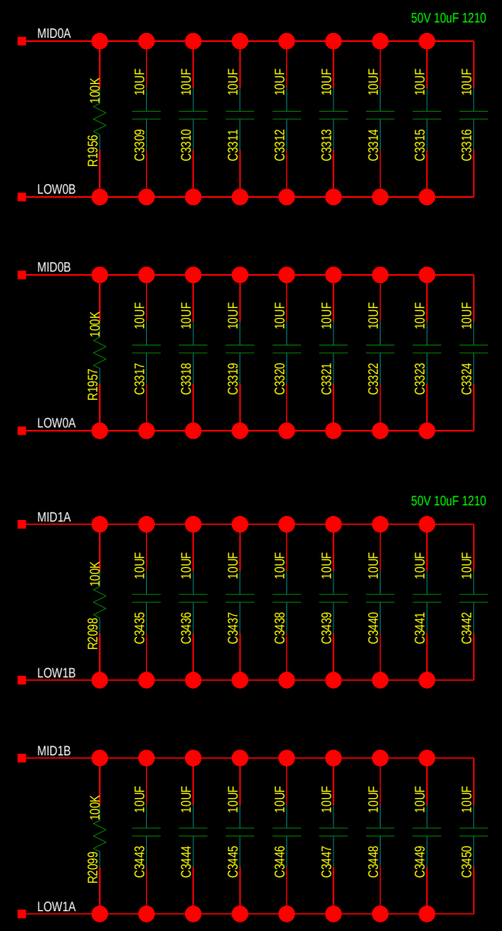
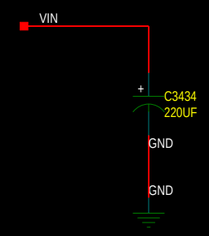
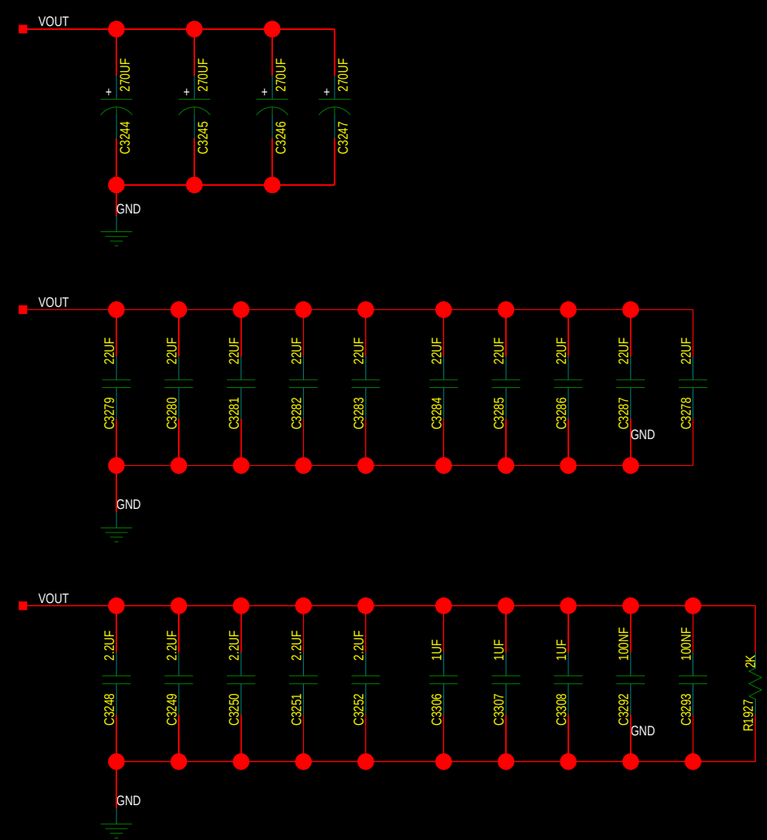
Fly Caps



INPUT Caps



OUTPUT Caps



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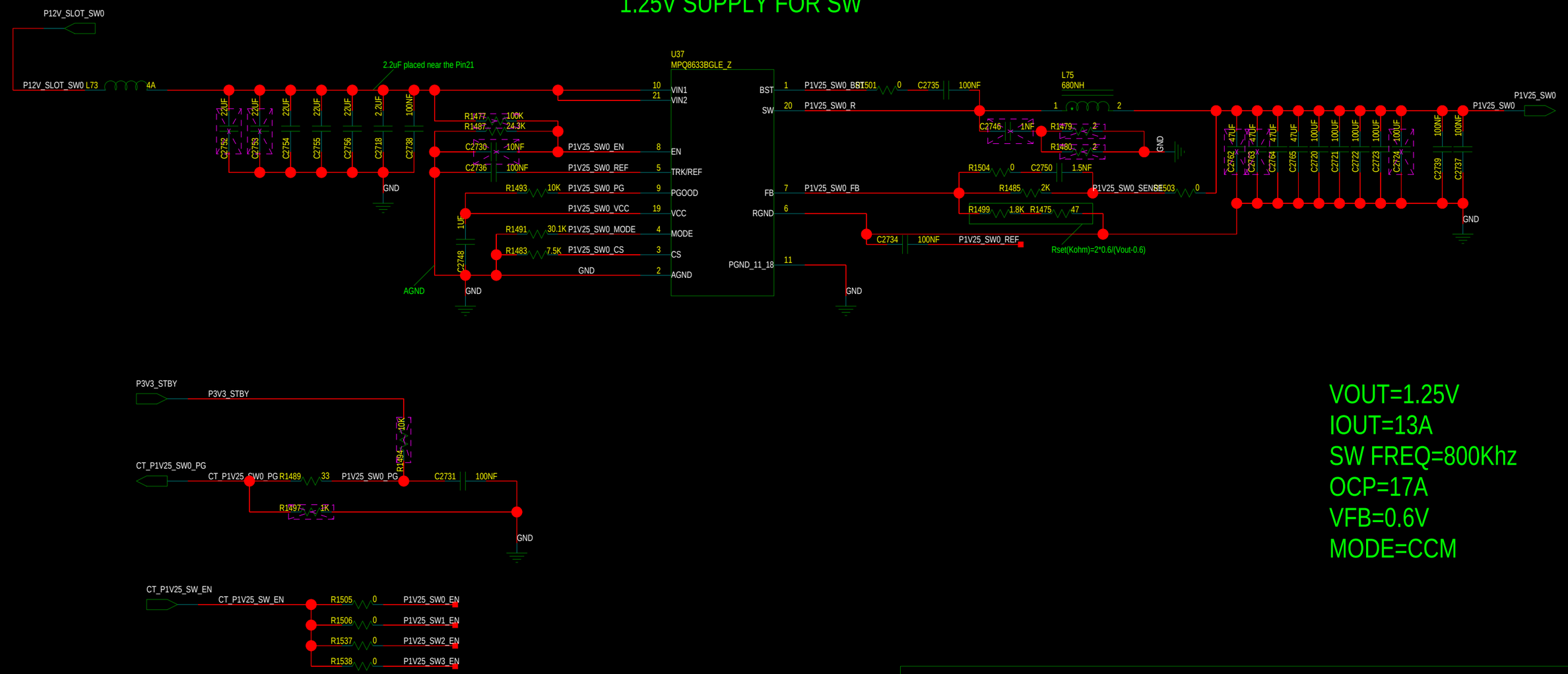
1.25V SUPPLY FOR SW



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IOUT=13A
SW FREQ=800Khz
OCP=17A
VFB=0.6V
MODE=CCM

CNIT Technologies Co.,Ltd.			
BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
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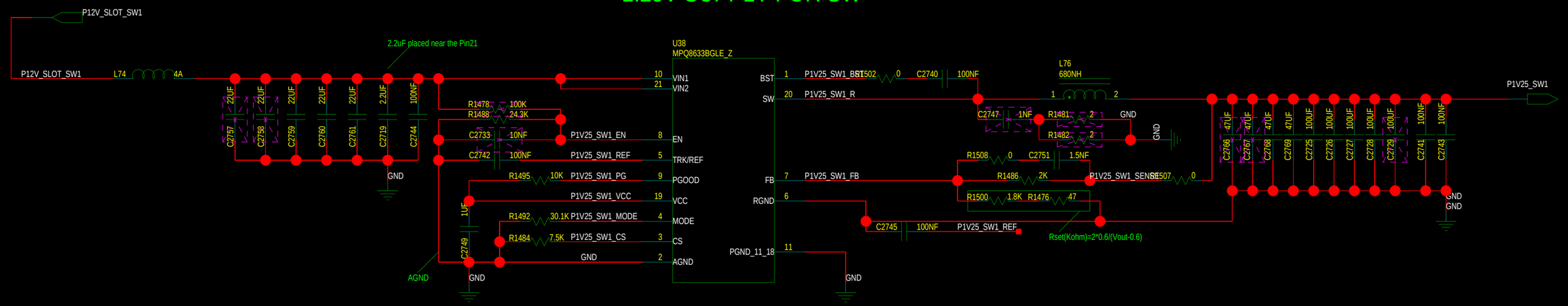
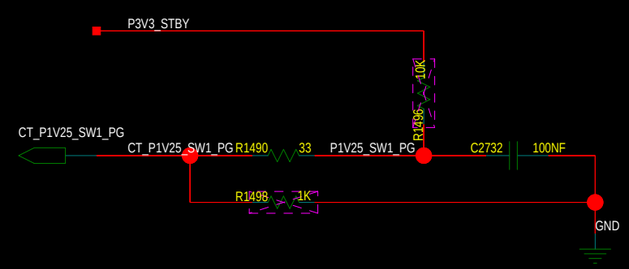
1.25V SUPPLY FOR SW





VOUT=1.25V
IOUT=13A
SW FREQ=800Khz
OCP=17A
VFB=0.6V
MODE=CCM

CNIT Technologies Co.,Ltd.			
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MPQ8633B_4UGPU_V1.0
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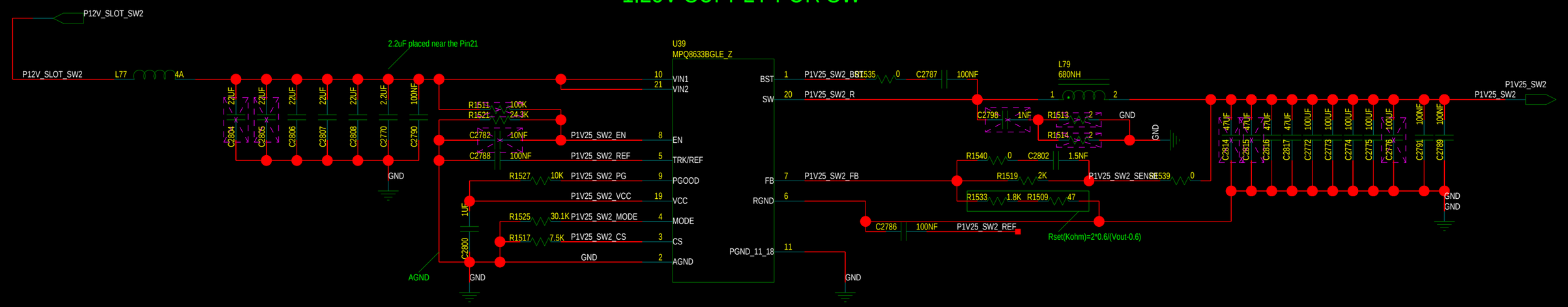
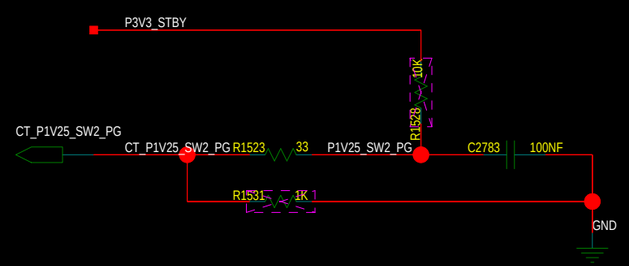
1.25V SUPPLY FOR SW





VOUT=1.25V
IOUT=13A
SW FREQ=800Khz
OCP=17A
VFB=0.6V
MODE=CCM

CNIT Technologies Co.,Ltd.			
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MPQ8633B_4UGPU_V1.0
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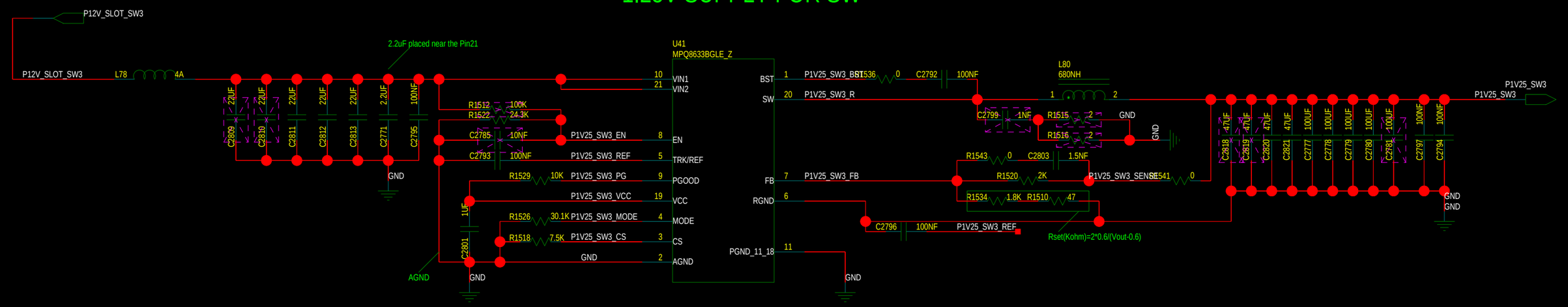
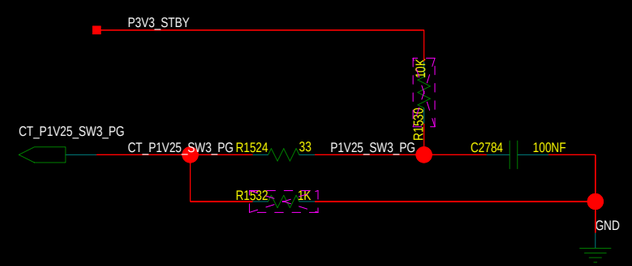
1.25V SUPPLY FOR SW





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IOUT=13A
SW FREQ=800Khz
OCP=17A
VFB=0.6V
MODE=CCM

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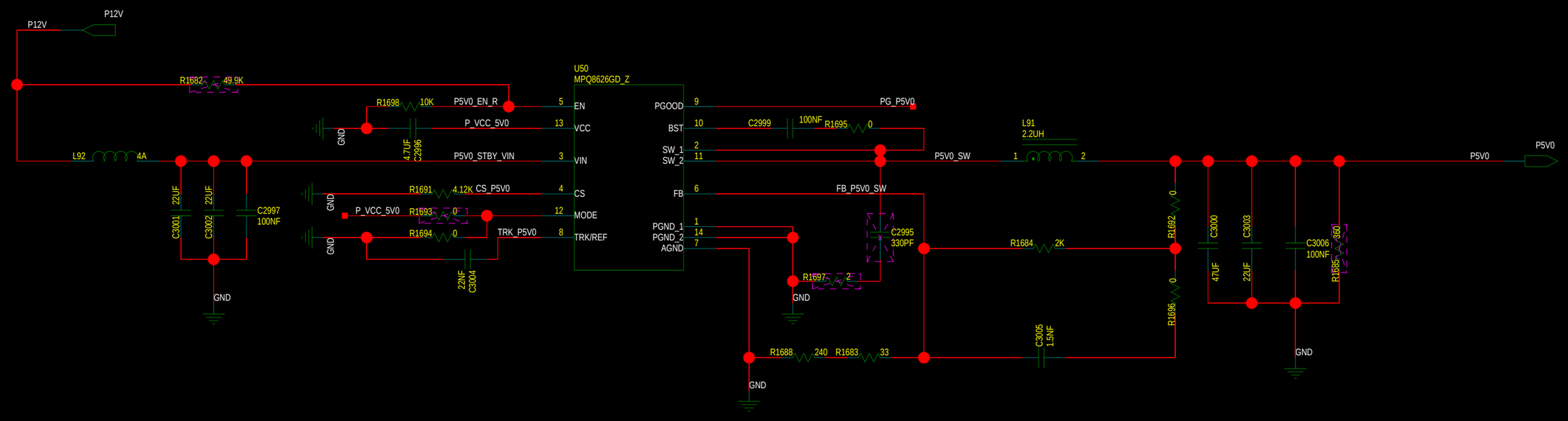

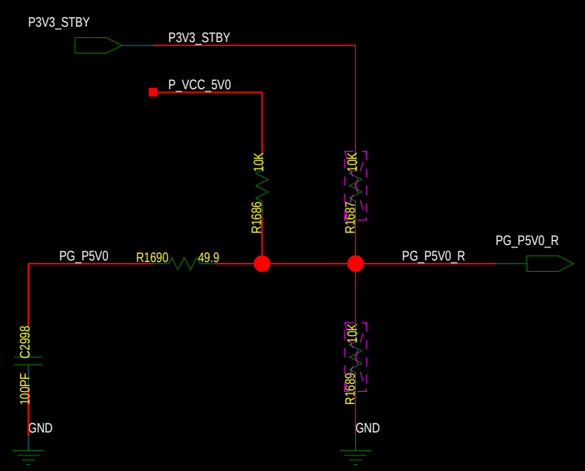

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SW FREQ=1100Khz
OCP=7.9A
VFB=0.6V
MODE=CCM

CNIT Technologies Co.,Ltd.			
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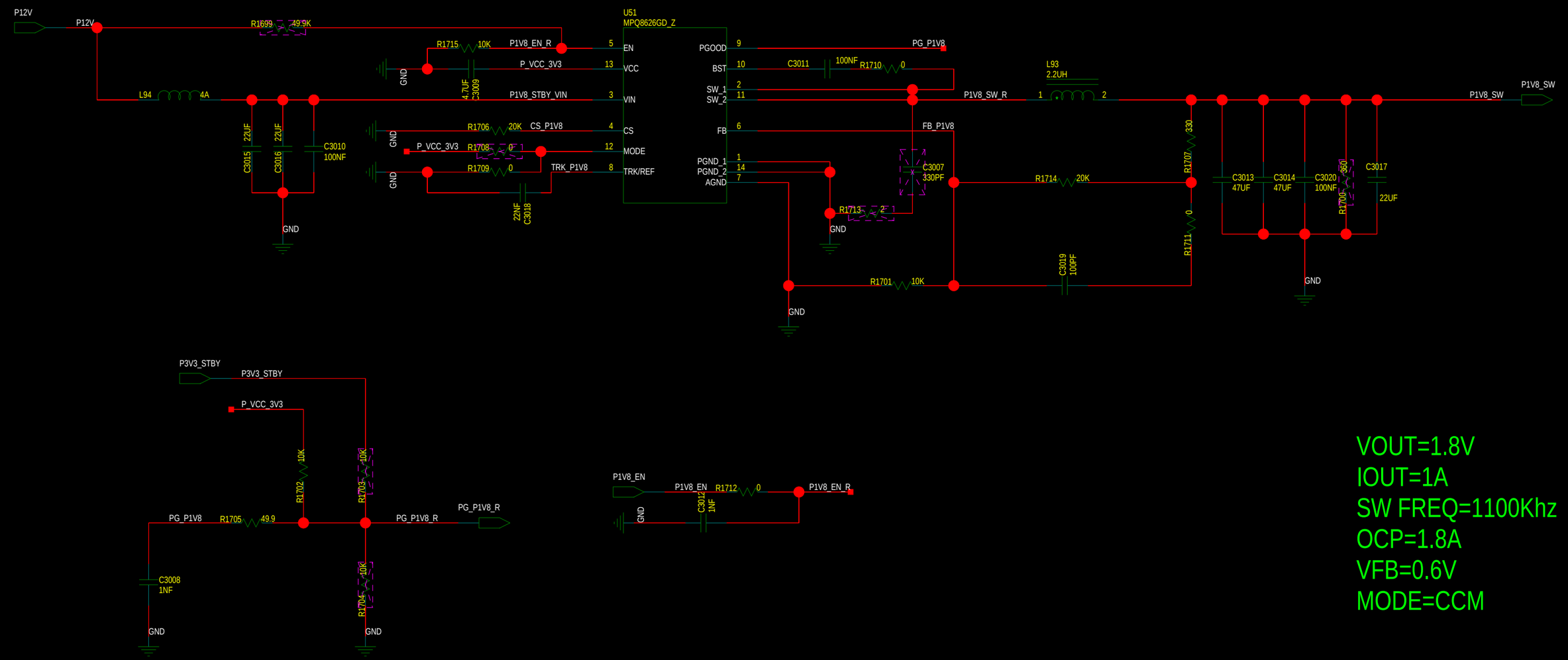

VOUT=1.8V
IOUT=1A
SW FREQ=1100Khz
OCP=1.8A
VFB=0.6V
MODE=CCM

CNIT Technologies Co.,Ltd.			
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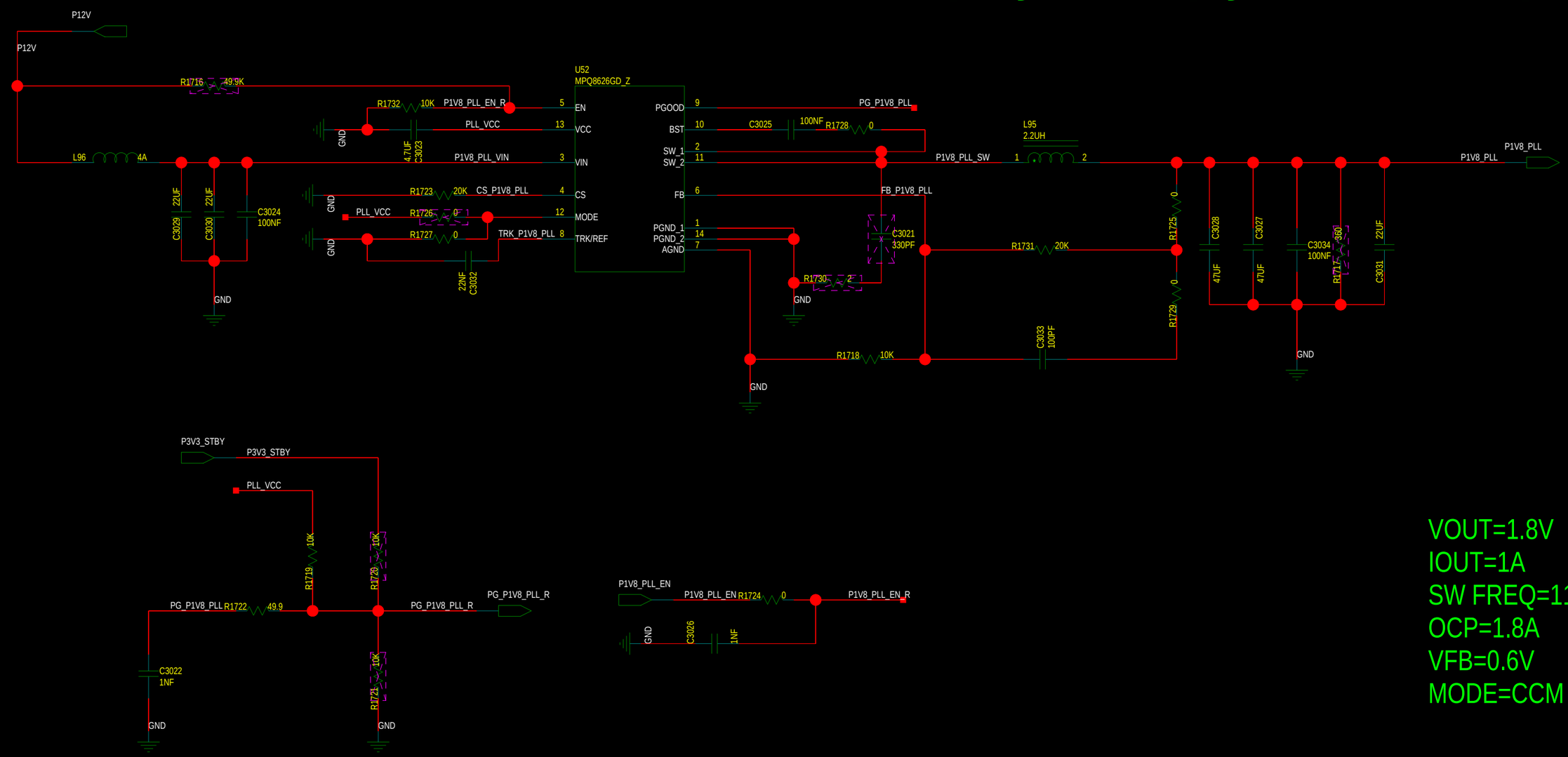

VOUT=1.8V
IOUT=1A
SW FREQ=1100Khz
OCP=1.8A
VFB=0.6V
MODE=CCM

CNIT Technologies Co.,Ltd.			
BOARDTYPE BP-4S104G5		DRAWINGNO CNIT0301K0RXDL	
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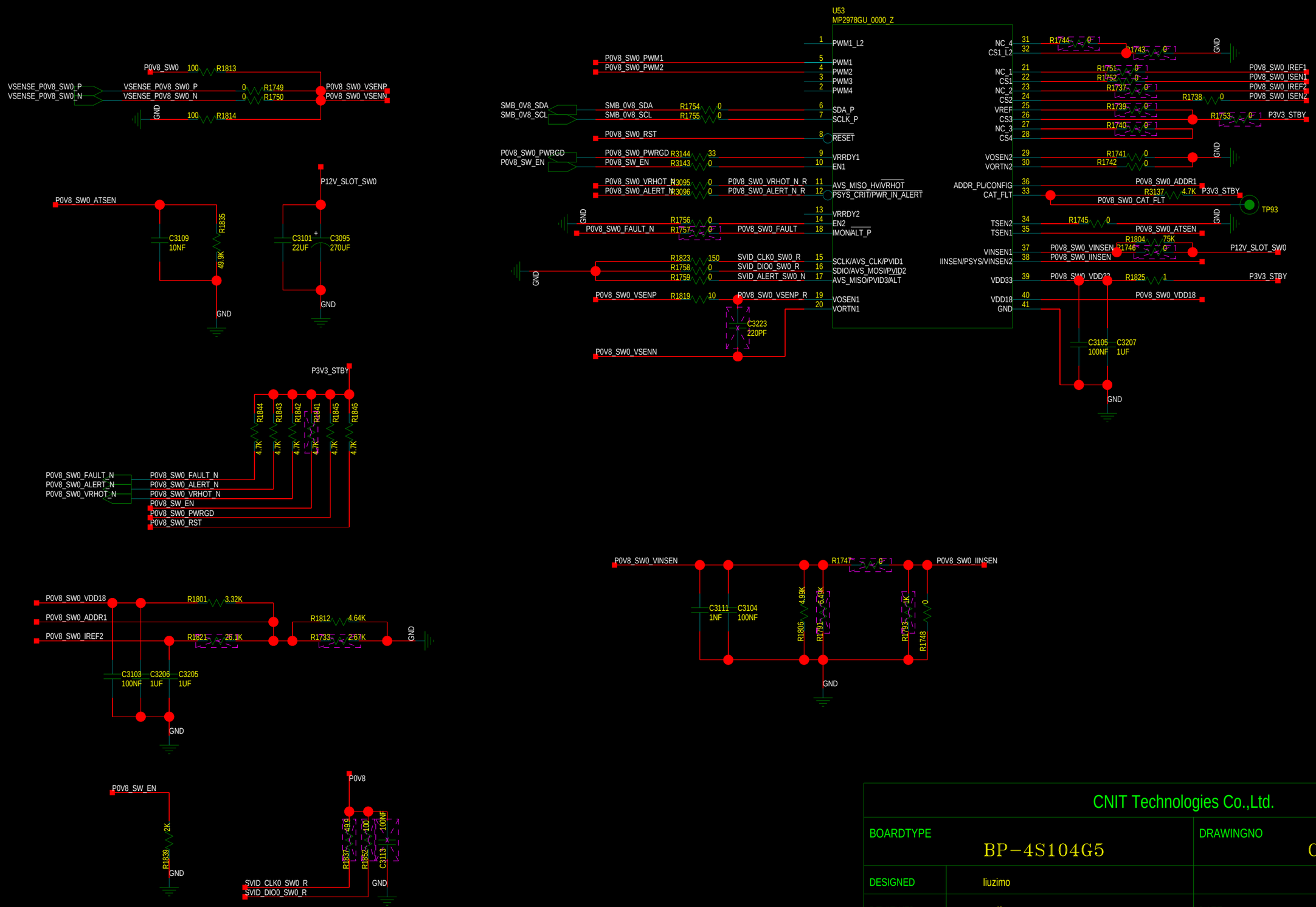

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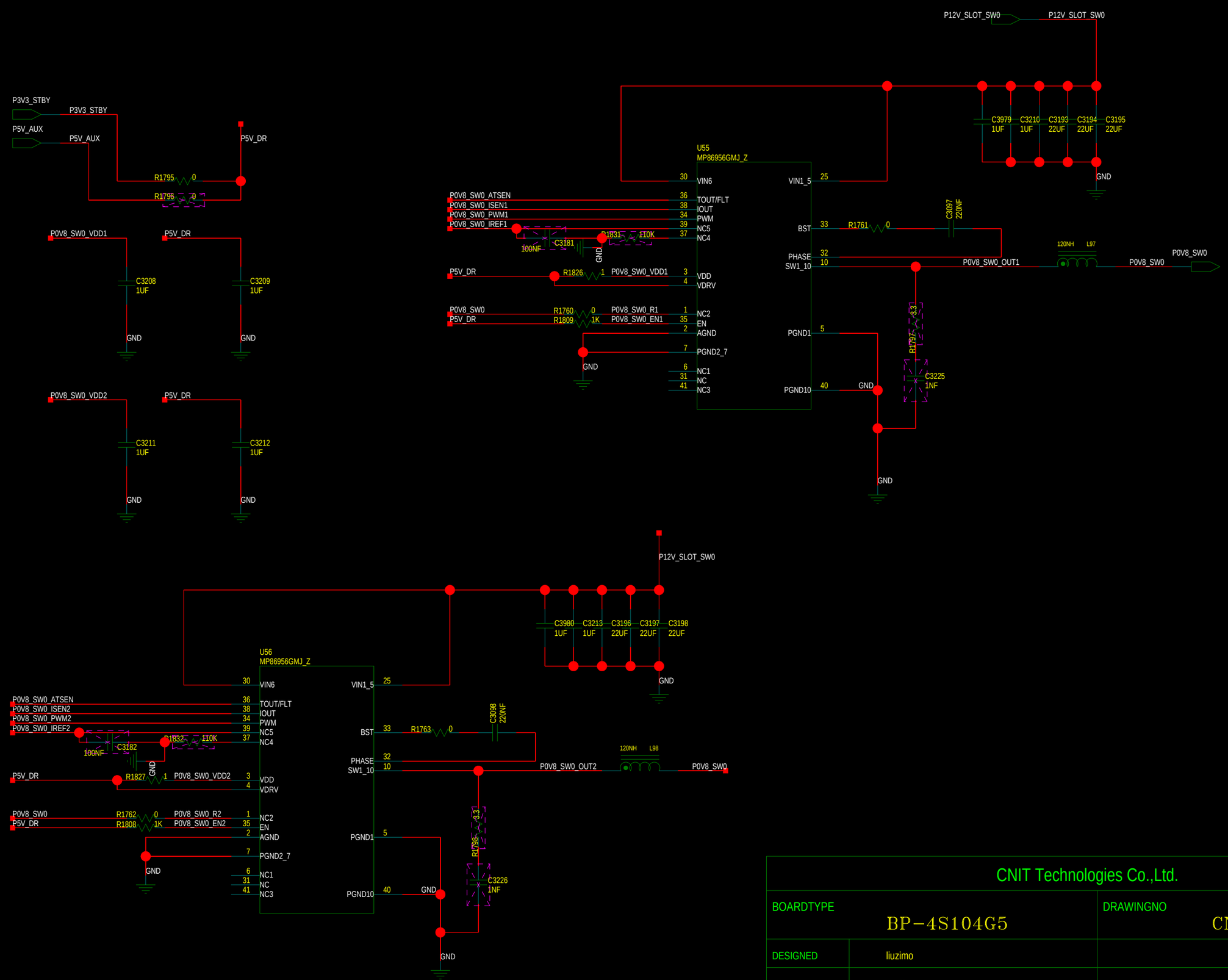

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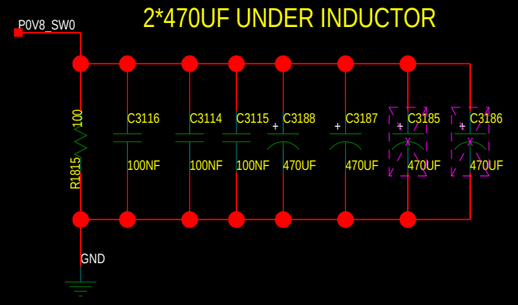
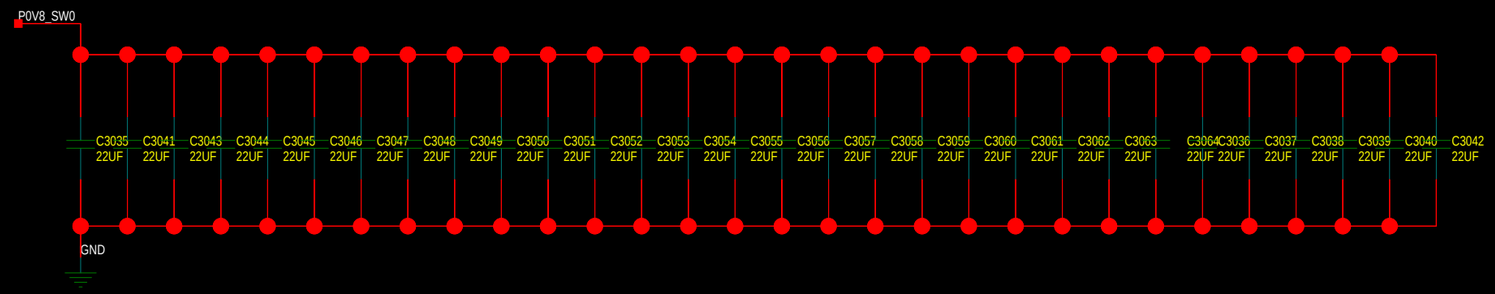
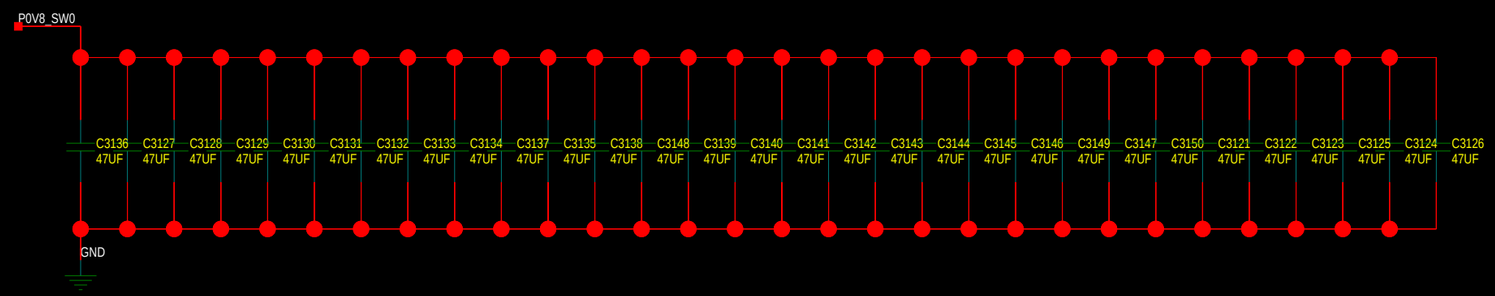
2*470UF UNDER INDUCTOR



30*22UF TOP CAVITY



30*47UF BOT CAVITY



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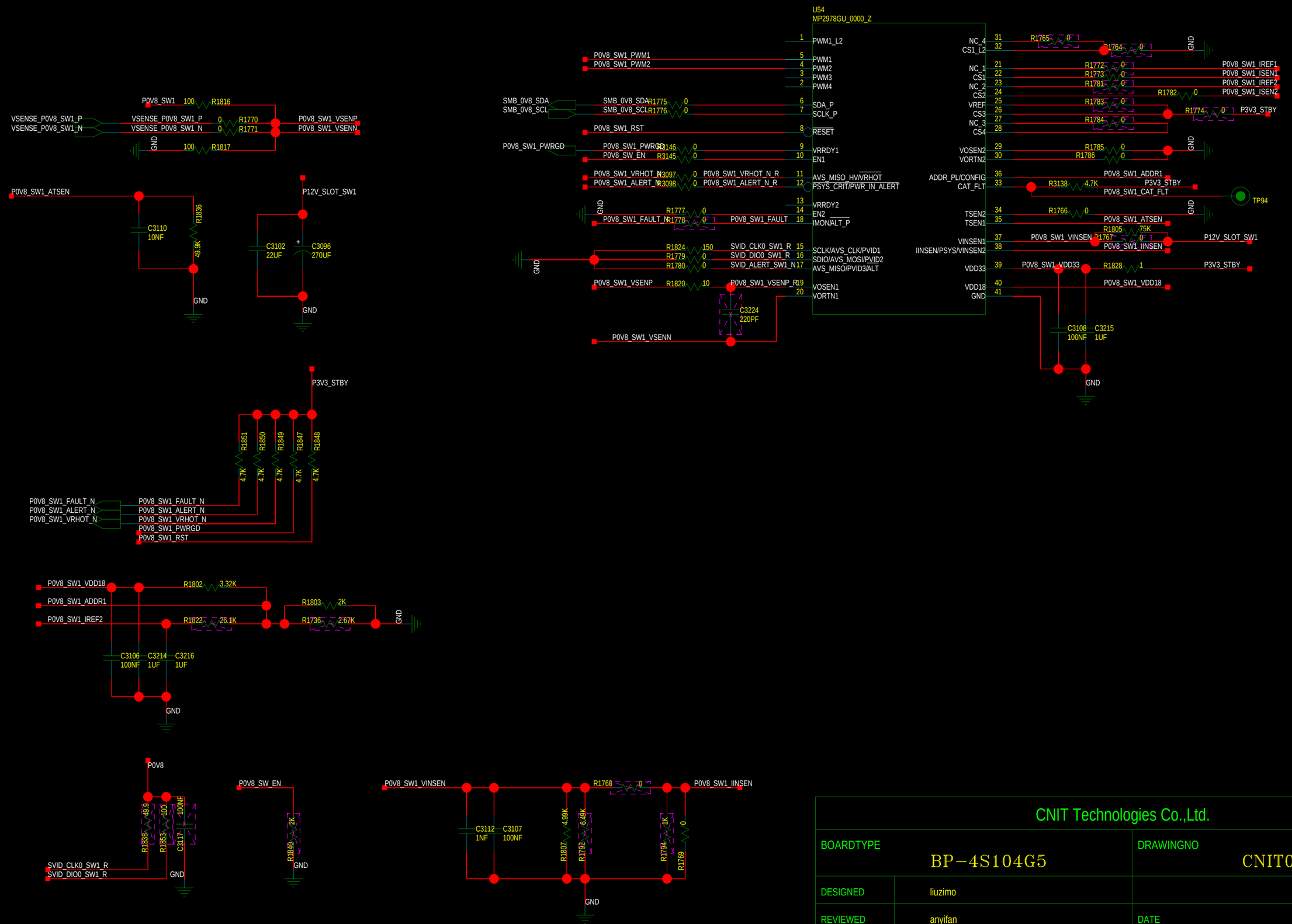

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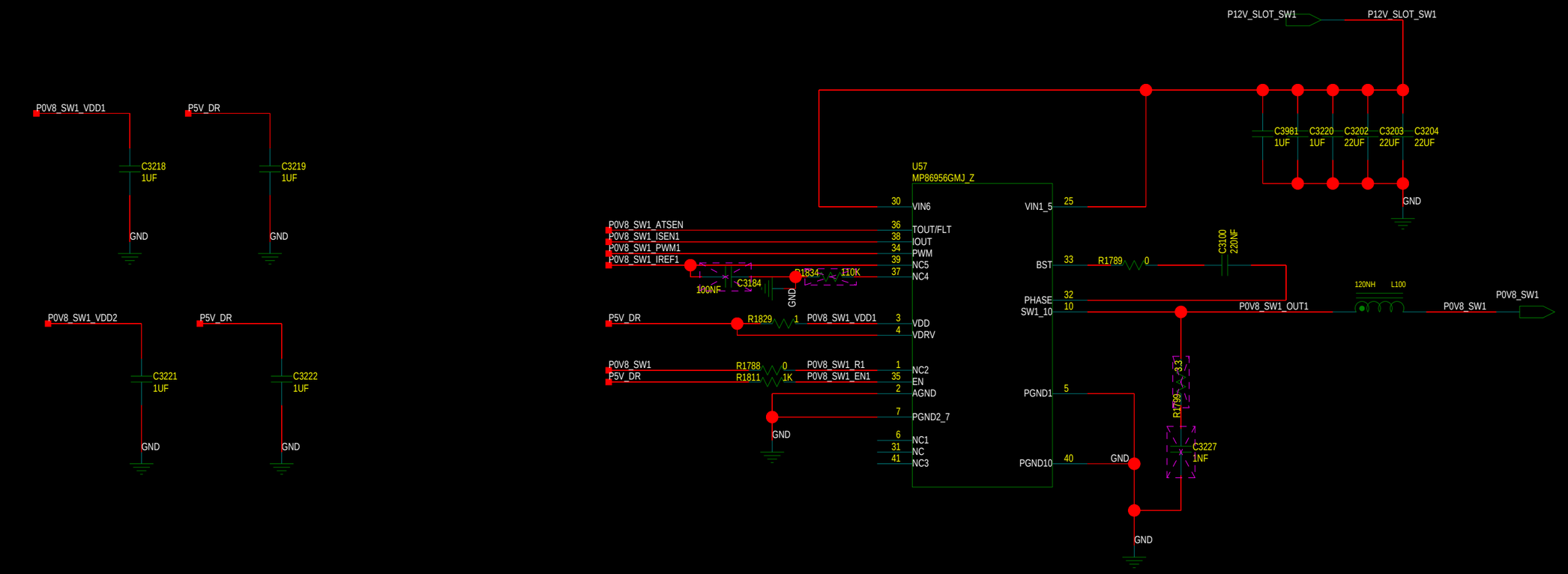

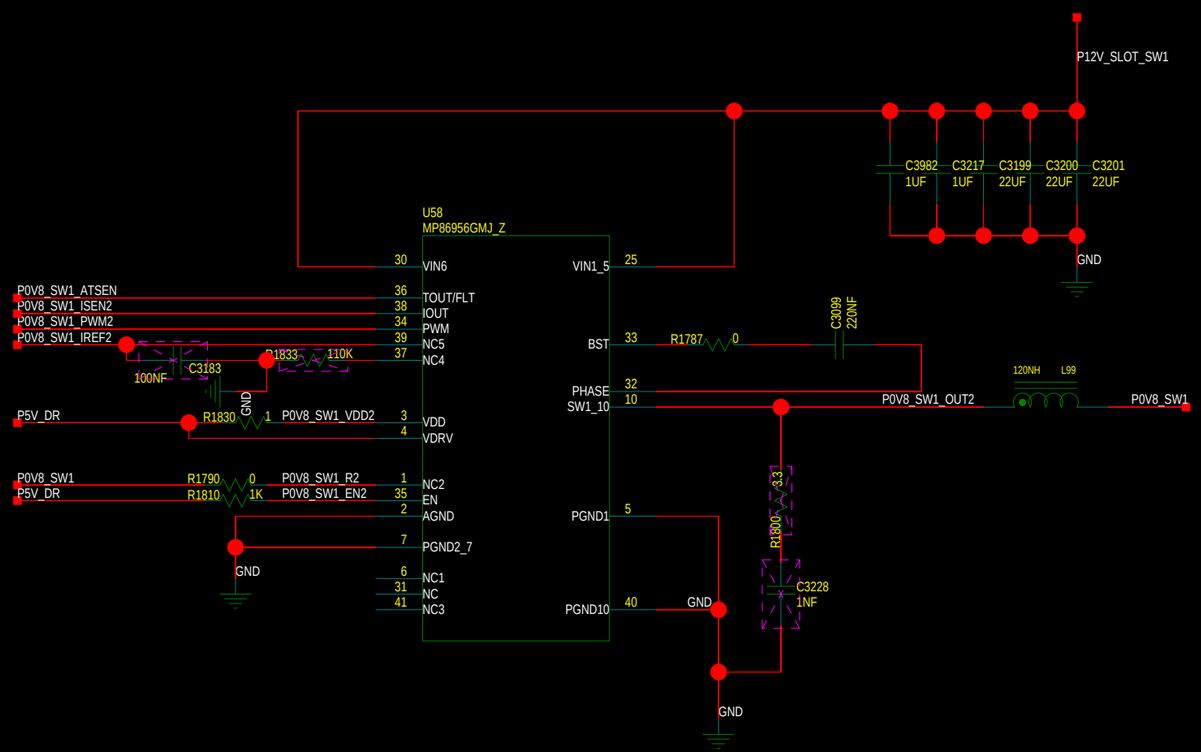

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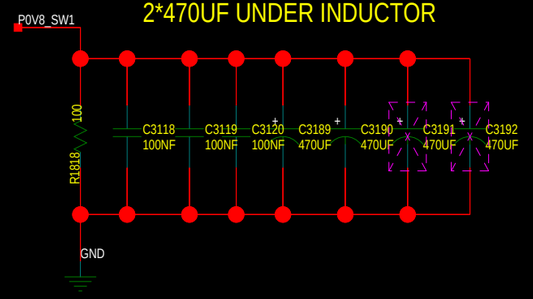

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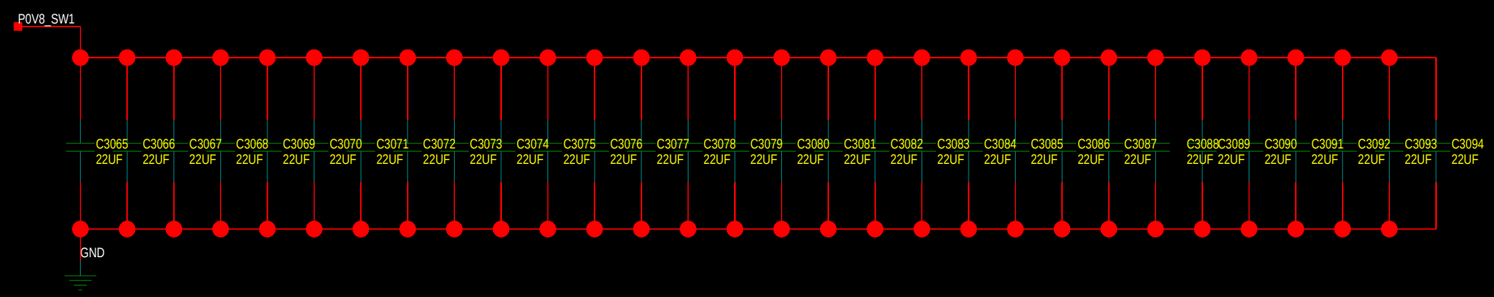

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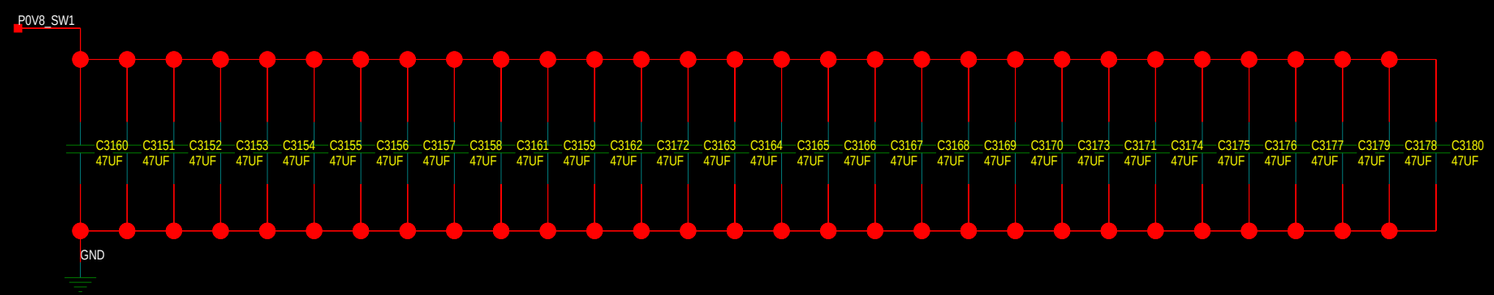

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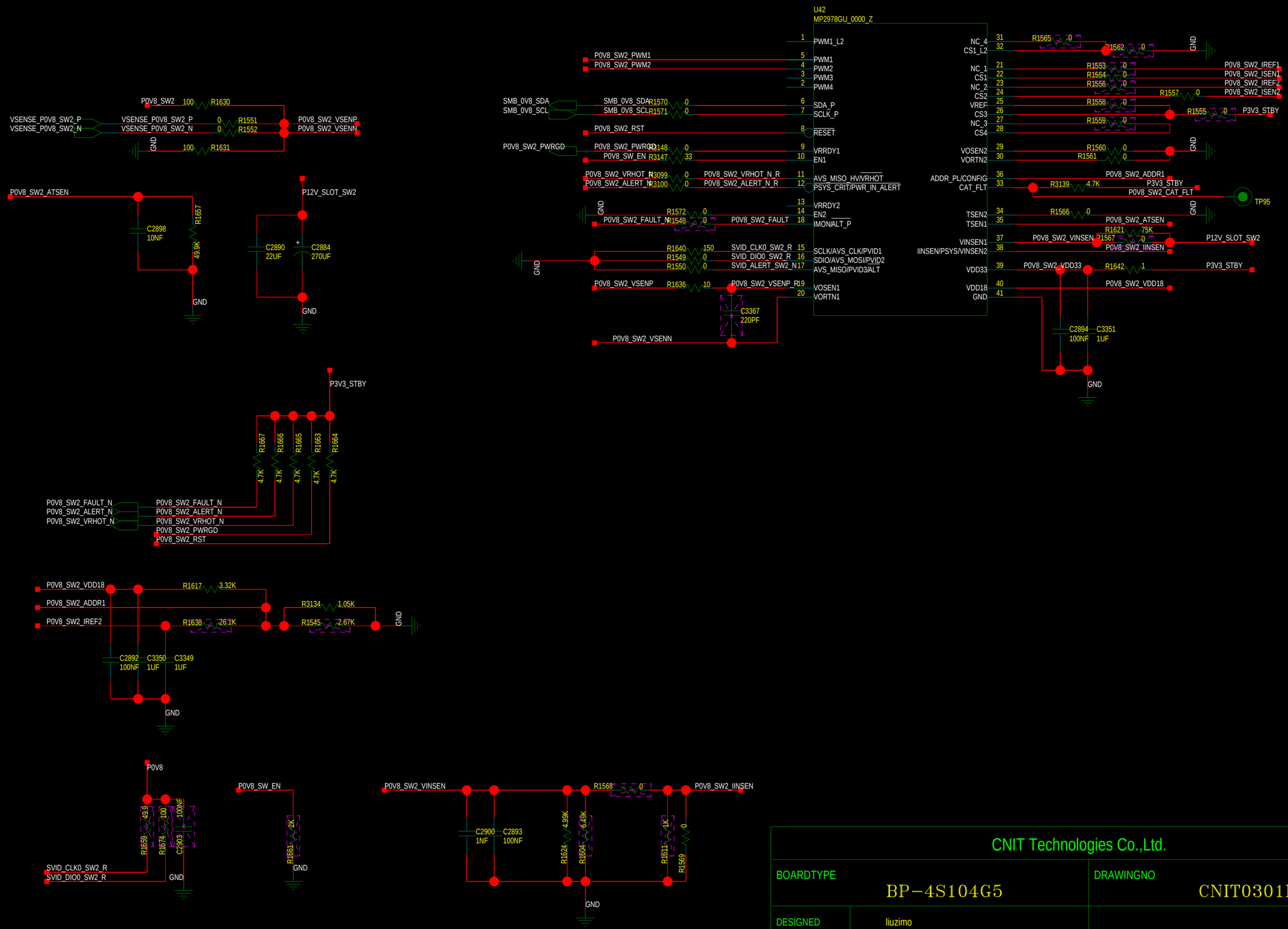

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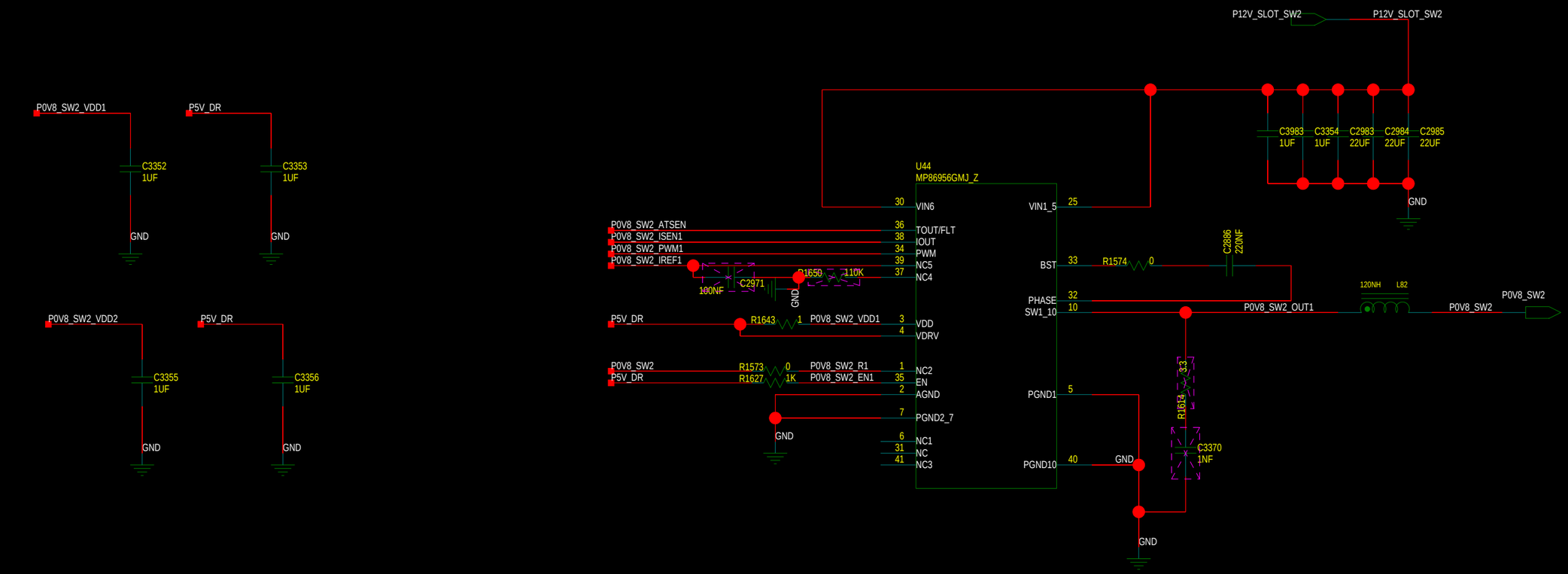

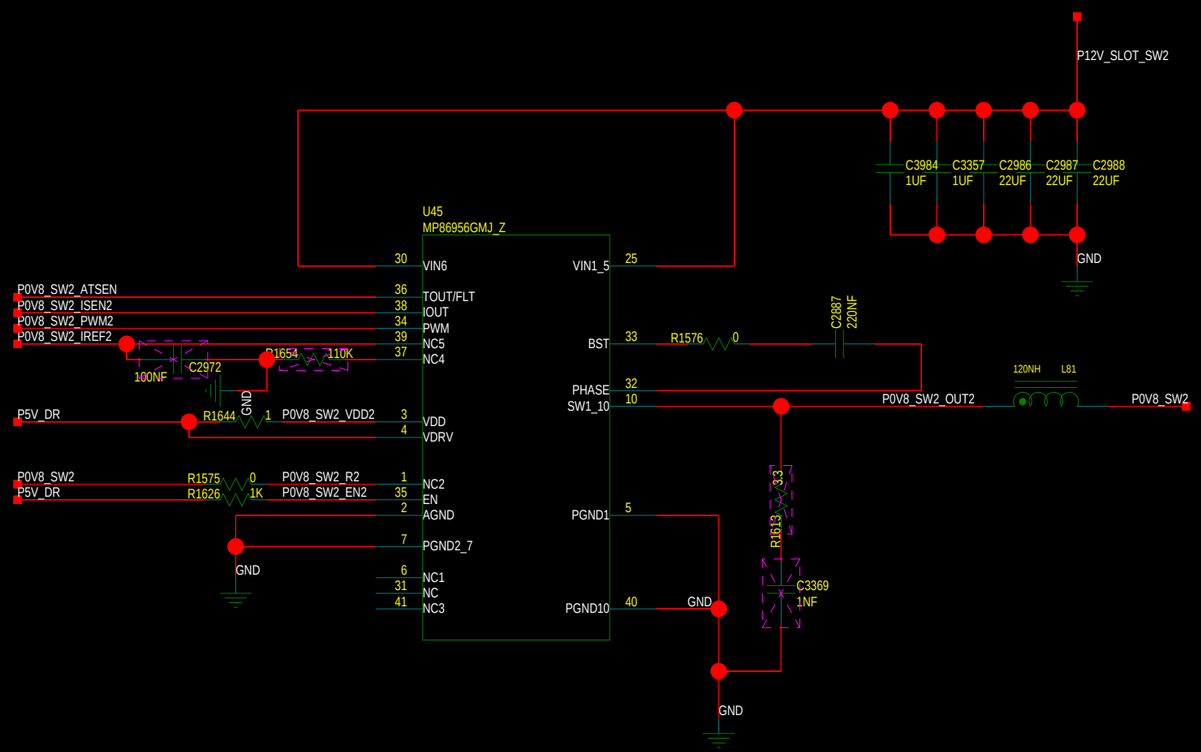

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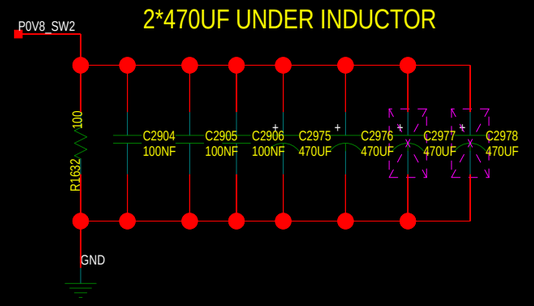

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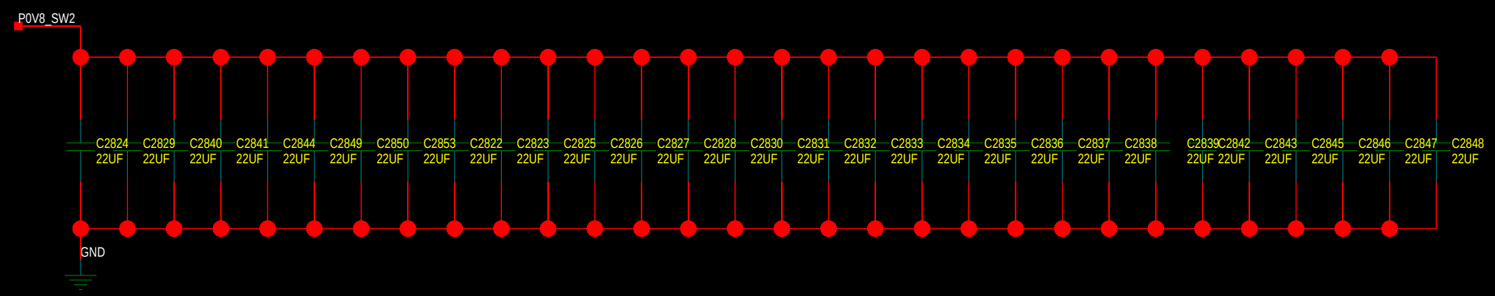

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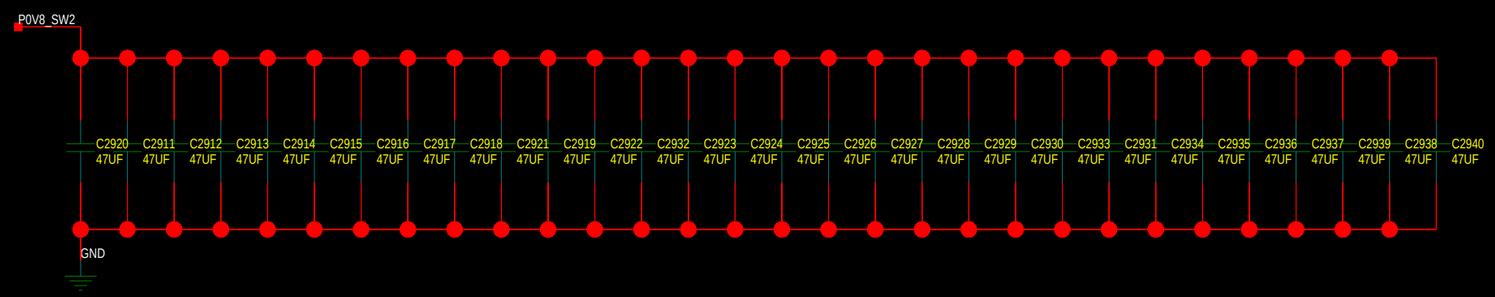

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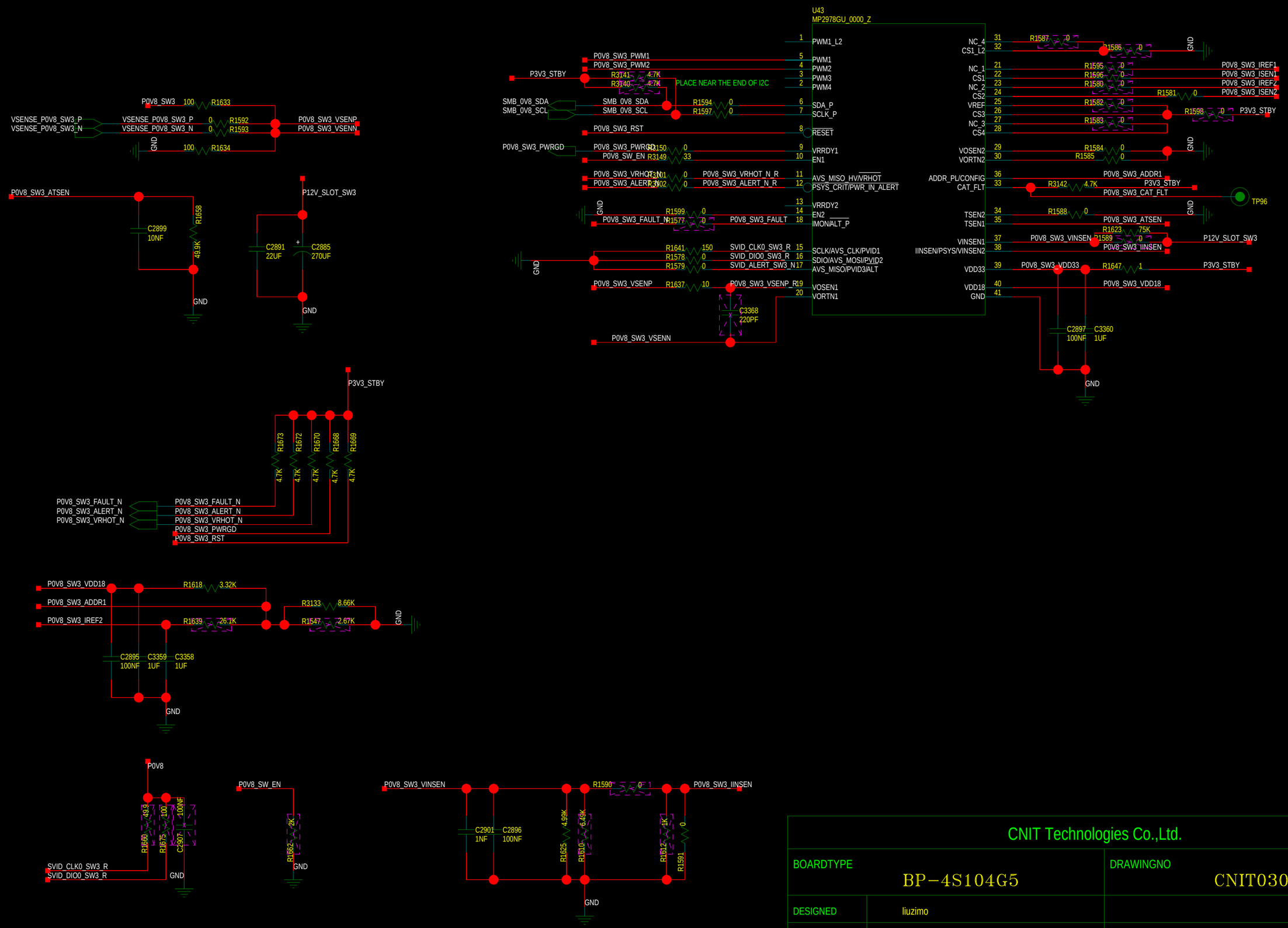

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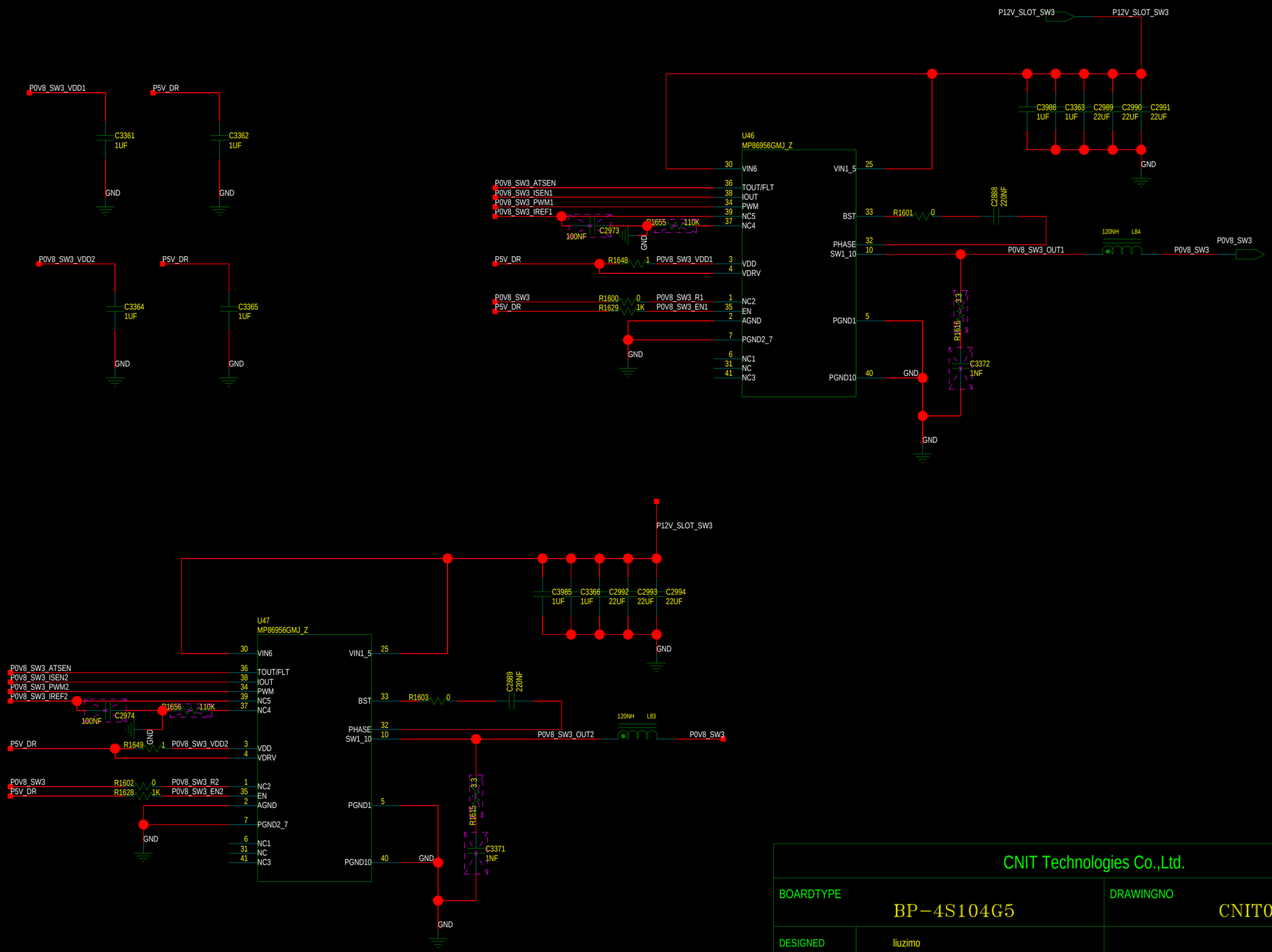

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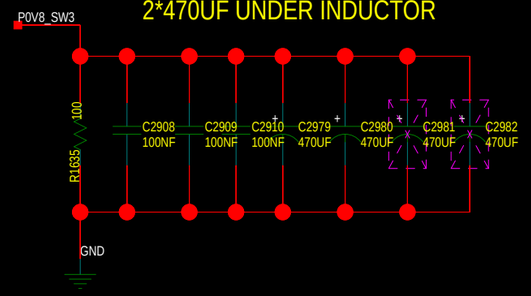

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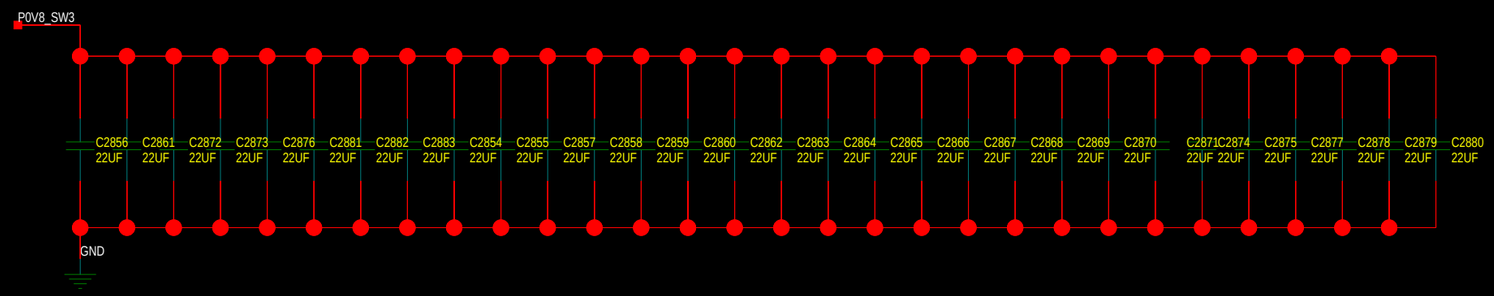

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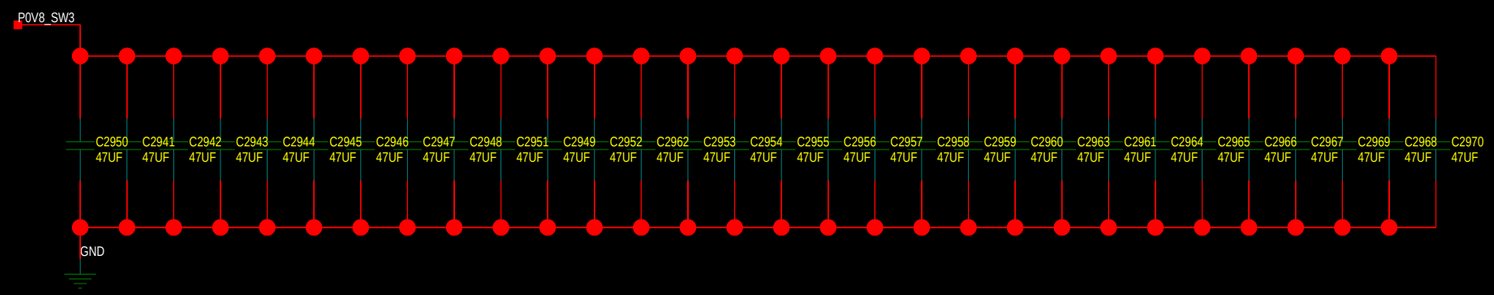

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U1
LCMXO3LF_6900C_5BG400C

				CPLD_JTAG_TMS	D9	TMS			
				CPLD_JTAG_TCK	C9	TCK			
				CPLD_JTAG_TDI	C7	TDI			
				CPLD_JTAG_TDO	E8	TDO			
3V3IO_RSVD4	R326	0		3V3IO_RSVD4_R	A20	PT36B			
				CPLD_DONE	A19	PT36D/DONE			
74LV165_DATA_IN	R3088	0		74LV165_DATA_IN_R	B19	PT36A			
				CPLD_INIT_N	C17	PT36C/INITN			
PSU5_PWROK_N_R	R2736	0		PSU5_PWROK_N	F14	PT35D			
				PAL_FAN7_TACH2	D16	PT35B			
SMB_PSU3_ALERT	R2731	0		SMB_PSU3_ALERT_R	G14	PT35C			
SMB_PSU5_ALERT	R2732	0		SMB_PSU5_ALERT_R	E15	PT35A			
				CT_P1V25_SW2_PG	B18	PT34B			
PSU4_PWROK_N_R	R2739	0		PSU4_PWROK_N	D15	PT34D			
				P3V3_STBY_PG	A18	PT34A			
				PAL_FAN11_TACH1	E14	PT34C			
				P1V8_EN	F13	PT33D			
				PAL_FAN13_TACH2	C16	PT33B			
				P5V_STBY_USB_EN	G13	PT33C			
				PAL_FAN8_TACH2	C15	PT33A			
				PAL_FAN12_LED_R	B17	PT32B			
				PAL_FAN6_TACH2	D14	PT32D			
WP_HW_CTRL_N	R328	0		WP_HW_CTRL_N_R	A17	PT32A			
				PAL_FAN3_TACH1	C14	PT32C			
PSU4_PSON	R2741	0		PSU4_PSON_R	F12	PT28D			
				PAL_FAN3_PWM	B16	PT28B			
				PAL_FAN13_PWM	G12	PT28C			
BB_RSVD_1	R357	0		BB_RSVD_1_R	A16	PT28A			
				PAL_FAN8_TACH1	B15	PT27B			
				CPLD_PROGRAM_N	D13	PT27D/PROGRAMN			
SW2_PEX_PERST_N	R2867	0		SW2_PEX_PERST_N_R	A15	PT27A			
				CPLD_JTAGEN	C13	PT27C/JTAGENB			
				PAL_FAN3_TACH2	B14	PT26B			
				PAL_FAN3_LED_R	C12	PT26D			
PAL_SAS_PWDN	R722	0		PAL_SAS_PWDN_R	A14	PT26A			
				PAL_FAN6_PWM	D12	PT26C			
				PAL_FAN9_TACH1	F11	PT25D			
					B13	PT25B			
				PAL_FAN9_PWM	G11	PT25C			
SW2_SPI_CS_SEL	R2869	0		SW2_SPI_CS_SEL_R	A13	PT25A			
				PG_P1V8_R	B12	PT22B			
I2C10_9548_2_CH5_SDA	R2993	0		I2C9_CPLD_UPDATE_SDA	D11	PT22D/SDA/PCLK0_0_DN			
				PAL_FAN11_PWM	A12	PT22A			
I2C10_9548_2_CH5_SCL	R2994	0		I2C9_CPLD_UPDATE_SCL	C11	PT22C/SCL/PCLK0_0_DP			
				PAL_FAN7_PWM	A11	PT21B			
				PAL_FAN11_LED_G	C10	PT21D			
				PAL_FAN3_LED_G	B11	PT21A			
				PAL_FAN1_TACH1	D10	PT21C			
				PAL_FAN11_LED_R	F10	PT18D			
				PAL_FAN9_TACH2	A10	PT18B/PCLK0_1_DN			
				P12V_PG	G10	PT18C			
				CPLD_CLK	B10	PT18A/PCLK0_1_DP			
SW3_NVME1_RST	R327	0		SW3_NVME1_RST_R	A9	PT17B			
				PAL_FAN8_LED_G	B9	PT17A			
I2C_RST0_N	R724	0		I2C_RST0_N_R	A8	PT16B			
				PAL_FAN4_TACH2	C8	PT16D			
				PAL_FAN9_LED_R	B8	PT16A			
				PAL_FAN2_TACH2	D8	PT16C			
				PAL_FAN4_TACH1	F9	PT15D			
3V3IO_RSVD1	R330	0		3V3IO_RSVD1_R	A7	PT15B			
				PAL_RAA_EN_N	G9	PT15C			
FPGA_OVERT_N	R334	0		FPGA_OVERT_N_R	B7	PT15A			
I2C_RST1_N	R725	0		I2C_RST1_N_R	A6	PT14B			
				PAL_FAN4_LED_G	B6	PT14A			
				PAL_FAN6_LED_G	F8	PT13D			
BPTB_EEP_WP	R3092	0		BPTB_EEP_WP_R	A5	PT13B			
				PAL_FAN7_LED_R	G8	PT13C			
					B5	PT13A			
I2C_RST2_N	R726	0		I2C_RST2_N_R	A4	PT12B			
				PAL_FAN11_TACH2	D7	PT12D			
				CT_P1V25_SW_EN	B4	PT12A			
				P0V8_SW1_PWRGD	C6	PT12C			
				PAL_FAN9_LED_G	E7	PT11D			
SW2_NVME1_RST	R1056	0		SW2_NVME1_RST_R	A3	PT11B			
				PAL_FAN12_TACH2	D6	PT11C			
SW1_SLOT2_RST_N	R2886	0		SW1_SLOT2_RST_N_R	B3	PT11A			
				CT_P1V25_SW1_PG	D5	PT10D			
74LV165_1_LD	R3084	0		74LV165_1_LD_R	A2	PT10B			
SW3_SLOT3_RST_N	R2900	0		SW3_SLOT3_RST_N_R	E6	PT10C			
SW1_CPU0_MCIO11A_SDO	R2628	0		MB_SGPIO_DATA_OUT	B2	PT10A			
				CT_P1V25_SW3_PG	F7	PT9D			
74LV165_1_CLK	R3083	0		74LV165_1_CLK_R	A1	PT9B			
				PAL_FAN2_LED_R	G7	PT9C			
SW1_SPI_CS_SEL	R2871	0		SW1_SPI_CS_SEL_R	B1	PT9A			

BANK0

BANK1

PR25D	V17	PAL_FAN15_TACH2				
PR25B	T17	PAL_RETIMER2_0P9_EN_R	R2991	0	PAL_RETIMER2_0P9_EN	
PR25C	U17					
PR25A	V19	SLOT2_THORTTLE_R	R2744	0	SLOT2_THORTTLE	
PR24D	R16					
PR24B	U18	PAL_FAN15_TACH1				
PR24C	P15					
PR24A	R17	SW3_SLOT6_RST_N_R	R2902	0	SW3_SLOT6_RST_N	
PR23D	N14	PAL_FAN4_PWM				
PR23B	P16	PAL_SAS_ALL_DONE_N				
PR23C	N15					
PR23A	V20	PAL_RETIMER5_0P9_EN_R	R363	0	PAL_RETIMER5_0P9_EN	
PR22D	U19	PAL_RETIMER1_0P9_EN_R	R372	0	PAL_RETIMER1_0P9_EN	
PR22B	P17	SW3_SLOT5_RST_N_R	R2901	0	SW3_SLOT5_RST_N	
PR22C	T18					
PR22A	U20	SLOT3_THORTTLE_R	R2745	0	SLOT3_THORTTLE	
PR21D	T19	SLOT4_THORTTLE_R	R2746	0	SLOT4_THORTTLE	
PR21B	R19	PAL_RETIMER4_0P9_EN_R	R366	0	PAL_RETIMER4_0P9_EN	
PR21C	T20	PAL_RETIMER3_0P9_EN_R	R365	0	PAL_RETIMER3_0P9_EN	
PR21A	N16					
PR19D	M14	PSU3_PWROK_N	R2738	0	PSU3_PWROK_N_R	
PR19B	R20	74LV165_1_DATA_IN_R	R3085	0	74LV165_1_DATA_IN	
PR19C	M15					
PR19A	P18	SW3_SLOT4_RST_N_R	R2897	0	SW3_SLOT4_RST_N	
PR18D	P19	NIC_SGPIO_SDI_R	R702	0	NIC_SGPIO_SDI	
PR18B	N17	SMB_PSU1_ALERT_R	R2484	0	SMB_PSU1_ALERT	
PR18C	P20	PAL_DB2000_1_PWRGD				
PR18A	N18	SMB_PSU2_ALERT_R	R2485	0	SMB_PSU2_ALERT	
PR17D	N19	NIC_SGPIO_SLOAD_R	R701	0	NIC_SGPIO_SLOAD	
PR17B	N20	SLOT6_THORTTLE_R	R2748	0	SLOT6_THORTTLE	
PR17C	M16	SMB_PSU0_ALERT_R	R2483	0	SMB_PSU0_ALERT	
PR17A	M17	SW3_SLOT2_RST_N_R	R2899	0	SW3_SLOT2_RST_N	
PR16D	M18	SW2_SLOT4_RST_N_R	R2891	0	SW2_SLOT4_RST_N	
PR16B	M19	NIC_SGPIO_SDO_R	R703	0	NIC_SGPIO_SDO	
PR16C	L16	PSU2_PSON_R	R2496	0	PSU2_PSON	
PR16A	M20	SLOT7_THORTTLE_R	R2749	0	SLOT7_THORTTLE	
PR15D	L15	PSU1_PSON_R	R2494	0	PSU1_PSON	
PR15B	L20	74LV165_CLK_R	R3086	0	74LV165_CLK	
PR15C	L14	SW0_SLOT3_RST_N_R	R2882	0	SW0_SLOT3_RST_N	
PR15A	L19	NIC_SGPIO_CLK_R	R704	0	NIC_SGPIO_CLK	
PR12D	L17	PAL_FAN14_TACH1				
PR12B/PCLK1_0_DN	K20	PAL_FAN13_TACH1				
PR12C	K16	PAL_FAN13_LED_G				
PR12A/PCLK1_0_DP	K19	I2C_CPLD_SCL	R3131	0	I2C10_9548_2_CH5_SCL	
PR11D	K18	SLOT5_THORTTLE_R	R2747	0	SLOT5_THORTTLE	
PR11B	J20	SW3_PEX_PERST_N_R	R2868	0	SW3_PEX_PERST_N	
PR11C	K17	PAL_FAN13_LED_R				
PR11A	J19	SW3_SPI_CS_SEL_R	R2872	0	SW3_SPI_CS_SEL	
PR10D	K15	PSU0_PSON_R	R2495	0	PSU0_PSON	
PR10B	J16	PAL_FAN12_LED_G				
PR10C	K14	PAL_FAN1_TACH2				
PR10A	J18	PG_P5V0_R				
PR9D	H20	SLOT8_THORTTLE_R	R2750	0	SLOT8_THORTTLE	
PR9B	H19	P5V_STBY_USB_OC				
PR9C	J17					
PR9A	H18	SW2_SLOT1_RST_N_R	R2892	0	SW2_SLOT1_RST_N	
PR8D	G20	74LV165_LD_R	R3087	0	74LV165_LD	
PR8B	H17					
PR8C	H16	SW2_SLOT5_RST_N_R	R2895	0	SW2_SLOT5_RST_N	
PR8A	G19	P5V0_EN				
PR7D	J15	PSU0_PWROK_N	R2488	0	PSU0_PWROK_N_R	
PR7B	F20	SLOT1_THORTTLE_R	R2743	0	SLOT1_THORTTLE	
PR7C	J14	SW0_SLOT4_RST_N_R	R2879	0	SW0_SLOT4_RST_N	
PR7A	F19	PG_P1V8_PLL_R				
PR6D	E20	I2C_CPLD_SDA	R3132	0	I2C10_9548_2_CH5_SDA	
PR6B	F18	P1V8_PLL_EN				
PR6C	G17					
PR6A	G16	PAL_HSC0_EN_R				
PR5D	E19	SW2_SLOT6_RST_N_R	R2896	0	SW2_SLOT6_RST_N	
PR5B	F17	BASE_PRSNT_N_R	R3161	0	BASE_PRSNT_N	
PR5C	D20					
PR5A	D19	SW2_SLOT2_RST_N_R	R2893	0	SW2_SLOT2_RST_N	
PR4D	H15	SW3_SLOT1_RST_N_R	R2898	0	SW3_SLOT1_RST_N	
PR4B	C20	BP_9548_RST_N_R	R3091	0	BP_9548_RST_N	
PR4C	H14	PAL_FAN1_PWM				
PR4A	B20	NVLINK_REFCLK_SELECT_R	R355	0	NVLINK_REFCLK_SELECT	
PR3D	D18	PAL_FAN2_PWM				
PR3B/R_GPLL_IN_DN	E17	DS160_RX_PWDN2				
PR3C	F16	3V3IO_RSVD3_R	R329	0	3V3IO_RSVD3	
PR3A/R_GPLL_IN_DP	C19	DS160_RX_ALL_DONE_N				
PR2D	G15	PAL_FAN6_TACH1				
PR2B/R_GPLL_FB_DN	C18	PAL_HSC0_RESTART_R				
PR2C	F15	SMB_PSU4_ALERT_R	R2730	0	SMB_PSU4_ALERT	
PR2A/R_GPLL_FB_DP	D17	PAL_FAN8_PWM				

NIC_SGPIO_SLOAD	C3889	100PF
NIC_SGPIO_SDI	C3890	100PF
NIC_SGPIO_SDO	C3891	100PF
NIC_SGPIO_CLK	C3892	100PF

GND

CNIT Technologies Co.,Ltd.

BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 143 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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U1
LCMXO3LF_6900C_5BG400C

3V3IO_RSVD0_FFU	R1065	0	3V3IO_RSVD0_FFU_R	W1	PB4A		
FPGA_EROT_RST_N	R346	0	FPGA_EROT_RST_N_R	Y1	PB4B		
GPU_BASE_STBY_EN	R352	0	GPU_BASE_STBY_EN_R	R6	PB4C		
HMC_PRSNT_N	R354	0	HMC_PRSNT_N_R	T6	PB4D		
FPGA_BOOT_EN	R347	0	FPGA_BOOT_EN_R	W2	PB6A/CSSPIN		
HGX_DETECT_N	R731	0	HGX_DETECT_N_R	Y2	PB6B		
			PAL_FAN10_LED_G	P7	PB6C		
				R7	PB6D		
GPU_BASE_FPGA_READY	R732	0	GPU_BASE_FPGA_READY_R	V6	PB7C		
RSVD_PARTNER0	R1059	0	RSVD_PARTNER0_R	U6	PB7D		
I2C2_ALERT_N	R345	0	I2C2_ALERT_N_R	W3	PB7A		
BP2_PWR_EN	R350	0	BP2_PWR_EN_R	Y3	PB7B		
GPU_BASE_HMC_READY	R349	0	GPU_BASE_HMC_READY_R	W4	PB9A		
			PAL_DB2000_PWRGD	Y4	PB9B		
			PAL_FAN10_LED_R	P8	PB9C		
			PAL_FAN1_LED_G	R8	PB9D		
SW1_NVME1_RST	R1063	0	SW1_NVME1_RST_R	T7	PB10C		
			PAL_FAN10_TACH2	T8	PB10D		
FPGA_EROT_RECOV_N	R343	0	FPGA_EROT_RECOV_N_R	W5	PB10A		
BPTB_RE_DONE	R3093	0	BPTB_RE_DONE_R	Y5	PB10B		
THERM_OVERT_N	R1048	0	THERM_OVERT_N_R	W6	PB12A/MCLK/CCLK		
BP2_PRSNT_N	R351	0	BP2_PRSNT_N_R	Y6	PB12B/SO/SPISO		
PSU5_PSON	R2742	0	PSU5_PSON_R	P9	PB12C		
			PAL_FAN6_LED_R	R9	PB12D		
UBB_PEX_RST1_N	R735	0	UBB_PEX_RST1_N_R	W7	PB13A		
BP1_PWR_PG	R2624	0	BP1_PWR_PG_R	Y7	PB13B		
			DS160_TX_PWDN1	V8	PB13C		
SW0_SLOT2_RST_N	R2881	0	SW0_SLOT2_RST_N_R	U9	PB13D		
			DS160_TX_READ_EN_N	V9	PB15C		
			PAL_FAN2_LED_G	T9	PB15D		
PWR_BRAKE_N	R1049	0	PWR_BRAKE_N_R	W8	PB15A		
BP_EEPROM_WP	R3094	0	BP_EEPROM_WP_R	Y8	PB15B		
UBB_PEX_RST0_N	R1054	0	UBB_PEX_RST0_N_R	W9	PB16A/PCLK2_0_DP		
GPU_BASE_PWR_GD	R1055	0	GPU_BASE_PWR_GD_R	Y9	PB16B/PCLK2_0_DN		
			P0V8_SW_EN	P10	PB16C		
			PAL_FAN15_LED_G	R10	PB16D		
			DS160_RX_PWDN1	Y10	PB18A		
			P0V8_SW0_PWRGD	W10	PB18B		
			CPLD_TEST1	U10	PB18C		
			DS160_TX_PWDN2	V10	PB18D		
			CPLD_TEST2	U11	PB21C		
				T10	PB21D		
UBB_FPGA_PEX_RST_N	R730	0	UBB_FPGA_PEX_RST_N_R	Y11	PB21A		
SW0_SPI_CS_SEL	R2870	0	SW0_SPI_CS_SEL_R	W11	PB21B		
			DS160_RX_READ_EN_N	Y12	PB23A/PCLK2_1_DP		
			CPLD_LED0_N	W12	PB23B/PCLK2_1_DN		
			PAL_RAA_CFP_R	P11	PB23C		
				R11	PB23D		
UBB_PEX_STRAP1	R727	0	UBB_PEX_STRAP1_R	Y13	PB26A		
			CPLD_LED1_N	W13	PB26B		
CPLD_HDR	R3171	0	CPLD_HDR_R	V12	PB26C		
			CPLD_TEST3	V13	PB26D		
			CT_P1V25_SW0_PG	U12	PB28C		
			PAL_FAN10_TACH1	T11	PB28D		
BP1_PWR_EN	R712	0	BP1_PWR_EN_R	Y14	PB28A		
PAL_RETIMER8_0P9_EN	R359	0	PAL_RETIMER8_0P9_EN_R	W14	PB28B		
UBB_PEX_RST2_N	R736	0	UBB_PEX_RST2_N_R	Y15	PB29A		
PAL_RETIMER6_0P9_EN	R2992	0	PAL_RETIMER6_0P9_EN_R	W15	PB29B		
PSU3_PSON	R2740	0	PSU3_PSON_R	P12	PB29C		
				R12	PB29D		
BP1_PRSNT_N	R713	0	BP1_PRSNT_N_R	Y16	PB31A		
SW0_NVME1_RST	R734	0	SW0_NVME1_RST_R	W16	PB31B		
			PAL_FAN15_PWM	T12	PB31C		
			P5V_RIGHTEAR_USB_OC	T13	PB31D		
SW0_PEX_PERST_N	R2866	0	SW0_PEX_PERST_N_R	Y17	PB32A		
SMB_NIC_RST_N	R369	0	SMB_NIC_RST_N_R	W17	PB32B		
				P13	PB32C		
				R13	PB32D		
			CPLD_TEST4	V15	PB34C		
NIC_3P3V_B_PG	R368	0	NIC_3P3V_B_PG_R	V16	PB34D		
PAL_RETIMER7_0P9_EN	R358	0	PAL_RETIMER7_0P9_EN_R	V14	PB34A		
			P5V_RIGHTEAR_USB_EN	U14	PB34B		
UBB_PEX_STRAP0	R728	0	UBB_PEX_STRAP0_R	Y18	PB35A		
NICSLOT_3P3V_EN	R370	0	NICSLOT_3P3V_EN_R	W18	PB35B		
			DS160_TX_ALL_DONE_N	T14	PB35C		
NIC_3P3V_A_PG	R367	0	NIC_3P3V_A_PG_R	U15	PB35D		
PE0_PERST	R2445	0	PE0_PERST_R	Y19	PB37A		
RETIMER_1P8V_EN	R371	0	RETIMER_1P8V_EN_R	W19	PB37B		
			PAL_USBMUX_OE_N	P14	PB37C		
				R14	PB37D		
			CPLD_PULLUP_SN	Y20	PB38A/SN		
			PAL_FAN7_LED_G	W20	PB38B/SI/SISPI		
			PAL_FAN10_PWM	T16	PB38C		
				R15	PB38D		

BANK2

BANK3

PL18A	N3	RETIMER3_INT_N_R	R3128	0	RETIMER3_INT_N
PL18B	N4	RETIMER8_RESET_N_R	R3107	33	RETIMER8_RESET_N
PL18C	M6	NIC4_PERST_N_R	R3119	20	NIC4_PERST_N
PL18D	M7	RETIMER1_RESET_N_R	R3114	33	RETIMER1_RESET_N
PL19A	P3				
PL19B	P4	NIC7_PERST_N_R	R3116	20	NIC7_PERST_N
PL19C	R1	RETIMER2_INT_N_R	R3129	0	RETIMER2_INT_N
PL19D	R2	RETIMER7_RESET_N_R	R3108	33	RETIMER7_RESET_N
PL21A	T1	RETIMER6_INT_N_R	R3125	0	RETIMER6_INT_N
PL21B	T2	RETIMER3_RESET_N_R	R3112	33	RETIMER3_RESET_N
PL21C	N5	NIC8_PERST_N_R	R3115	20	NIC8_PERST_N
PL21D	N6	RETIMER2_RESET_N_R	R3113	33	RETIMER2_RESET_N
PL22A/PCLK3_0_DP	U1	NIC5_PERST_N_R	R3118	20	NIC5_PERST_N
PL22B/PCLK3_0_DN	U2	NIC6_PERST_N_R	R3117	20	NIC6_PERST_N
PL22C	R3	RETIMER7_INT_N_R	R3124	0	RETIMER7_INT_N
PL22D	R4	NIC2_PERST_N_R	R3121	20	NIC2_PERST_N
PL23A	T3	RETIMER4_INT_N_R	R3127	0	RETIMER4_INT_N
PL23B	T4	NIC1_PERST_N_R	R3122	20	NIC1_PERST_N
PL23C	V1	RETIMER4_RESET_N_R	R3111	33	RETIMER4_RESET_N
PL23D	V2	RETIMER1_INT_N_R	R3130	0	RETIMER1_INT_N
PL24A	V3				
PL24B	V4	RETIMER8_INT_N_R	R3123	0	RETIMER8_INT_N
PL24C	P5	RETIMER6_RESET_N_R	R3109	33	RETIMER6_RESET_N
PL24D	P6	NIC3_PERST_N_R	R3120	20	NIC3_PERST_N
PL25A	T5				
PL25B	R5	RETIMER5_RESET_N_R	R3110	33	RETIMER5_RESET_N
PL25C	U4	RETIMER5_INT_N_R	R3126	0	RETIMER5_INT_N
PL25D	U5				

BANK4

PL10A	J2	SW1_SLOT3_RST_N_R	R2887	0	SW1_SLOT3_RST_N
PL10B	J1	MB_SGPIO_CLK	R2625	0	SW1_CPU0_MCIO11A_CLK
PL10C	K5	PAL_FAN14_LED_G			
PL10D	K4	3V3IO_RSVD2_FFU_R	R1061	0	3V3IO_RSVD2_FFU
PL11A	K2				
PL11C	K6	PAL_FAN14_LED_R			
PL11B	K1	GPU_BASE_POWER_EN_R	R2631	0	GPU_BASE_POWER_EN
PL11D	K7	SW1_SLOT5_RST_N_R	R2889	0	SW1_SLOT5_RST_N
PL12A/PCLK4_0_DP	L1	PSU1_PWROK_N	R2492	0	PSU1_PWROK_N_R
PL12B/PCLK4_0_DN	L2	PSU2_PWROK_N	R2493	0	PSU2_PWROK_N_R
PL12C	L3	PAL_FAN14_TACH2			
PL12D	L4				
PL15A	M1	RSVD_PARTNER1_R	R1064	0	RSVD_PARTNER1
PL15B	M2	FPGA_EROT_FATALERR_N_R	R1060	0	FPGA_EROT_FATALERR_N
PL15C	M3	RSVD_PARTNER3_R	R1062	0	RSVD_PARTNER3
PL15D	M4	SW0_SLOT5_RST_N_R	R2883	0	SW0_SLOT5_RST_N
PL16A	L5	PAL_USBMUX_SEL			
PL16B	M5	SW0_SLOT1_RST_N_R	R2880	0	SW0_SLOT1_RST_N
PL16C	L6	PAL_FAN15_LED_R			
PL16D	L7	PAL_FAN12_PWM			
PL17A	N1	3V3IO_RSVD1_FFU_R	R1057	0	3V3IO_RSVD1_FFU
PL17B	N2	BP2_PWR_PG_R	R344	0	BP2_PWR_PG
PL17C	P1	RSVD_PARTNER2_R	R1058	0	RSVD_PARTNER2
PL17D	P2	I2C1_ALERT_N_R	R348	0	I2C1_ALERT_N

BANK5

PL2A	C4	SW1_SLOT6_RST_N_R	R2890	0	SW1_SLOT6_RST_N
PL2B	C3	PAL_FAN4_LED_R			
PL2C	F6	SW2_SLOT3_RST_N_R	R2894	0	SW2_SLOT3_RST_N
PL2D	G6	P0V8_SW2_PWRGD			
PL3A/L_GPLL_FB_DP	C2	SW1_SLOT1_RST_N_R	R2885	0	SW1_SLOT1_RST_N
PL3B/L_GPLL_FB_DN	C1	SW1_PEX_PERST_N_R	R2865	0	SW1_PEX_PERST_N
PL3C	E4	PAL_FAN14_PWM			
PL3D	E3				
PL4A/L_GPLL_IN_DP	D2	P5V_VGA_EN			
PL4B/L_GPLL_IN_DN	D1	P5V_VGA_OC			
PL4C	F5	PAL_FAN5_PWM			
PL4D	G5	PAL_FAN12_TACH1			
PL5A	F4	P0V8_SW3_PWRGD			
PL5B	F3				
PL5C	H6	I2C9_9548_CH4_ALERT			
PL5D	H7	PAL_FAN2_TACH1			
PL6A/PCLK5_0_DP	E2	PAL_FAN5_LED_G			
PL6B/PCLK5_0_DN	E1	PAL_FAN8_LED_R			
PL6C	F2	SW0_SLOT6_RST_N_R	R2884	0	SW0_SLOT6_RST_N
PL6D	F1	3V3IO_RSVD5_FFU_R	R341	0	3V3IO_RSVD5_FFU
PL7A	G4	PAL_FAN5_TACH2			
PL7B	G3	PAL_FAN5_LED_R			
PL7C	H3	PAL_FAN5_TACH1			
PL7D	H4	PAL_FAN1_LED_R			
PL8A	G2				
PL8B	G1	MB_SGPIO_LD	R2626	0	SW1_CPU0_MCIO11A_LD
PL8C	J6	PAL_FAN7_TACH1			
PL8D	J5				
PL9A	H2	3V3IO_RSVD3_FFU_R	R333	0	3V3IO_RSVD3_FFU
PL9B	H1	MB_SGPIO_DATA_IN	R2627	0	SW1_CPU0_MCIO11A_DATAIN
PL9C	J4	SW1_SLOT4_RST_N_R	R2888	0	SW1_SLOT4_RST_N
PL9D	J3	3V3IO_RSVD4_FFU_R	R339	0	3V3IO_RSVD4_FFU

NIC_PERST_N SET OD

RETIMER_RERST_N SET OD

CPLD_TEST1	TP97
CPLD_TEST2	TP98
CPLD_TEST3	TP99
CPLD_TEST4	TP100

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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
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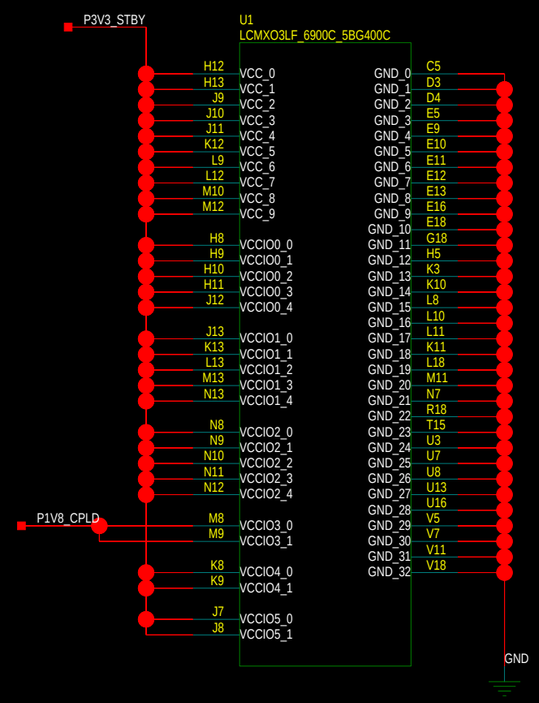

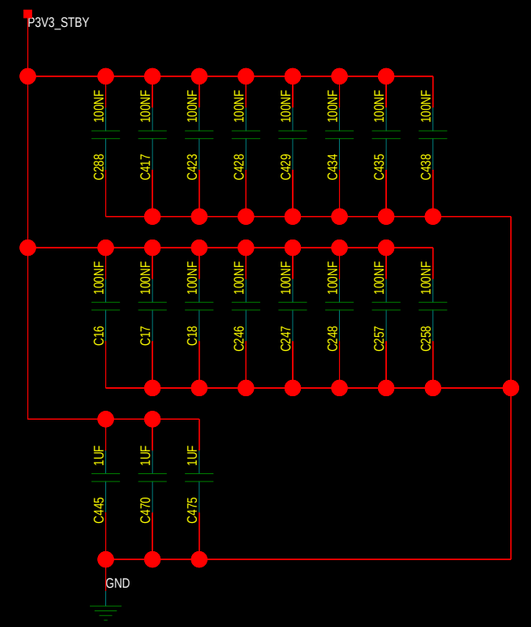

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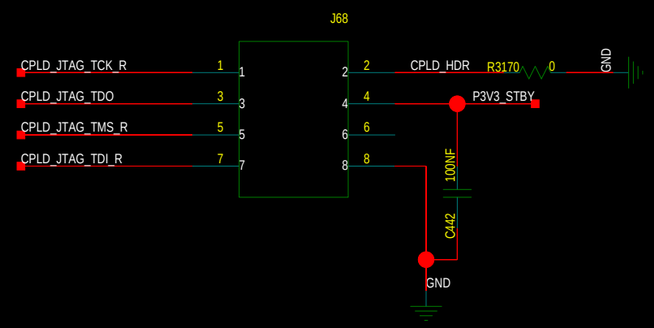

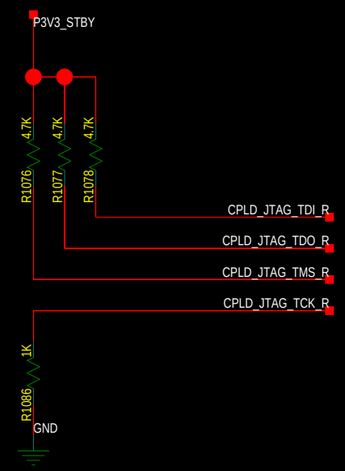

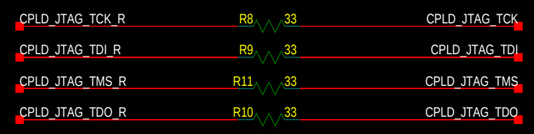

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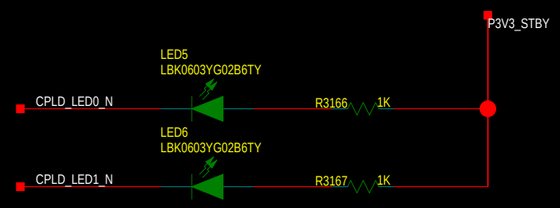

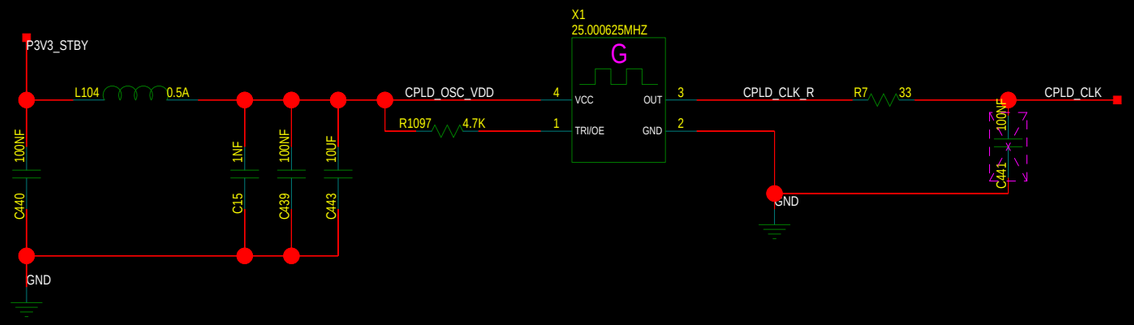

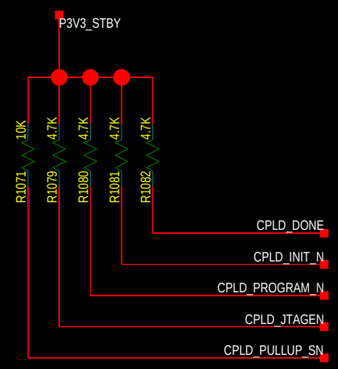

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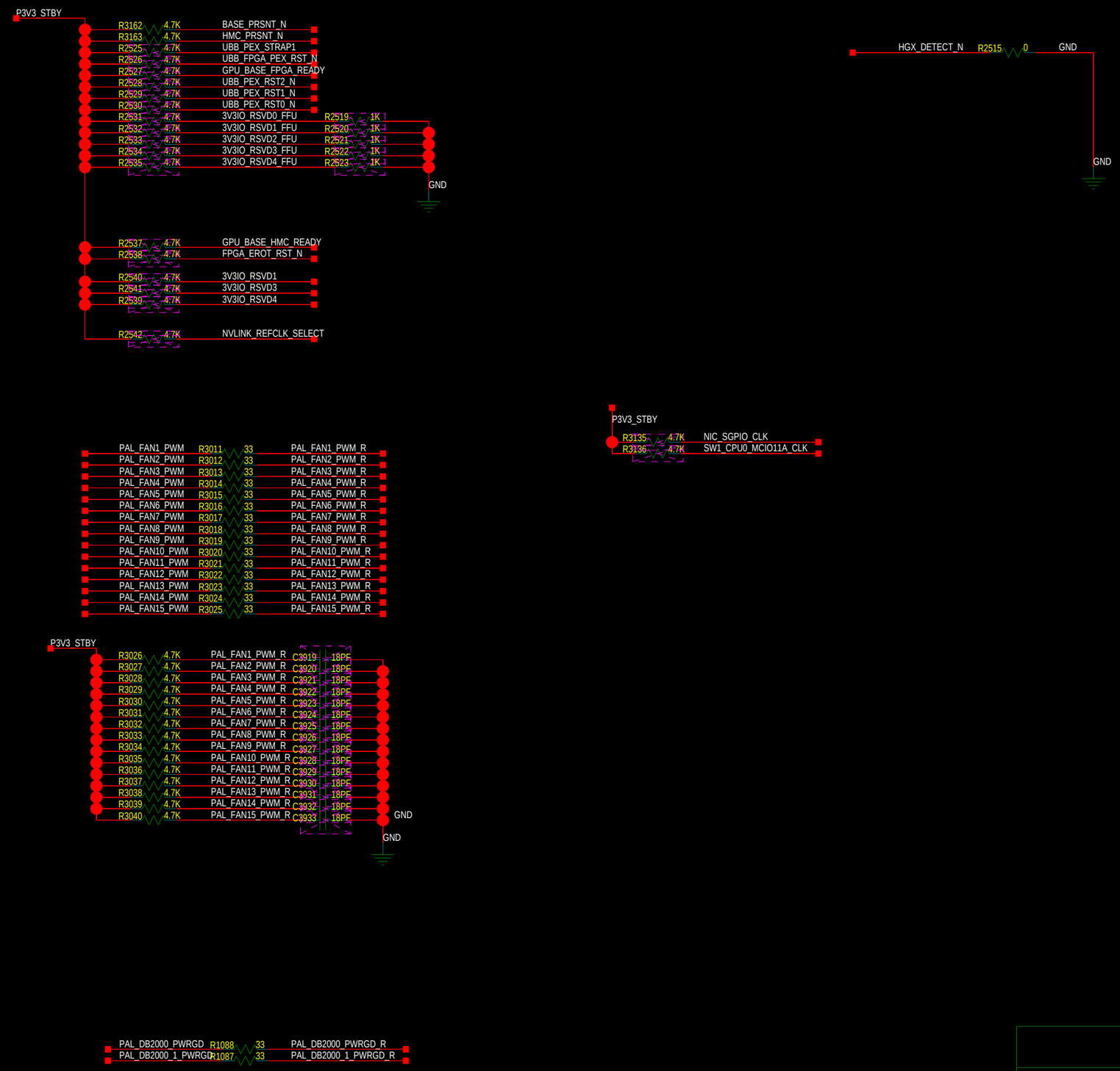

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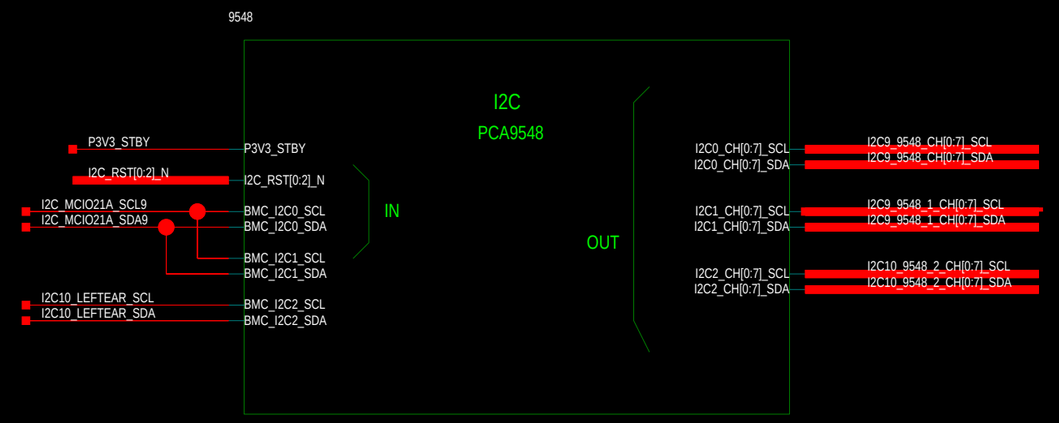

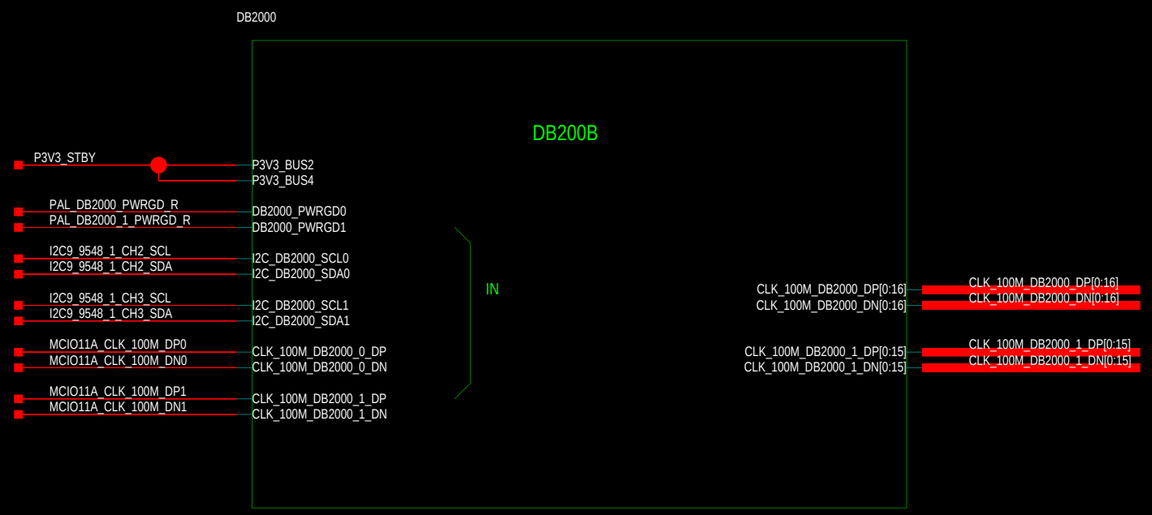

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SW_CLK_100M

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Revision History & Index

Revision History

Rev	Date	Description	Remark
1.0	2023/10/21		

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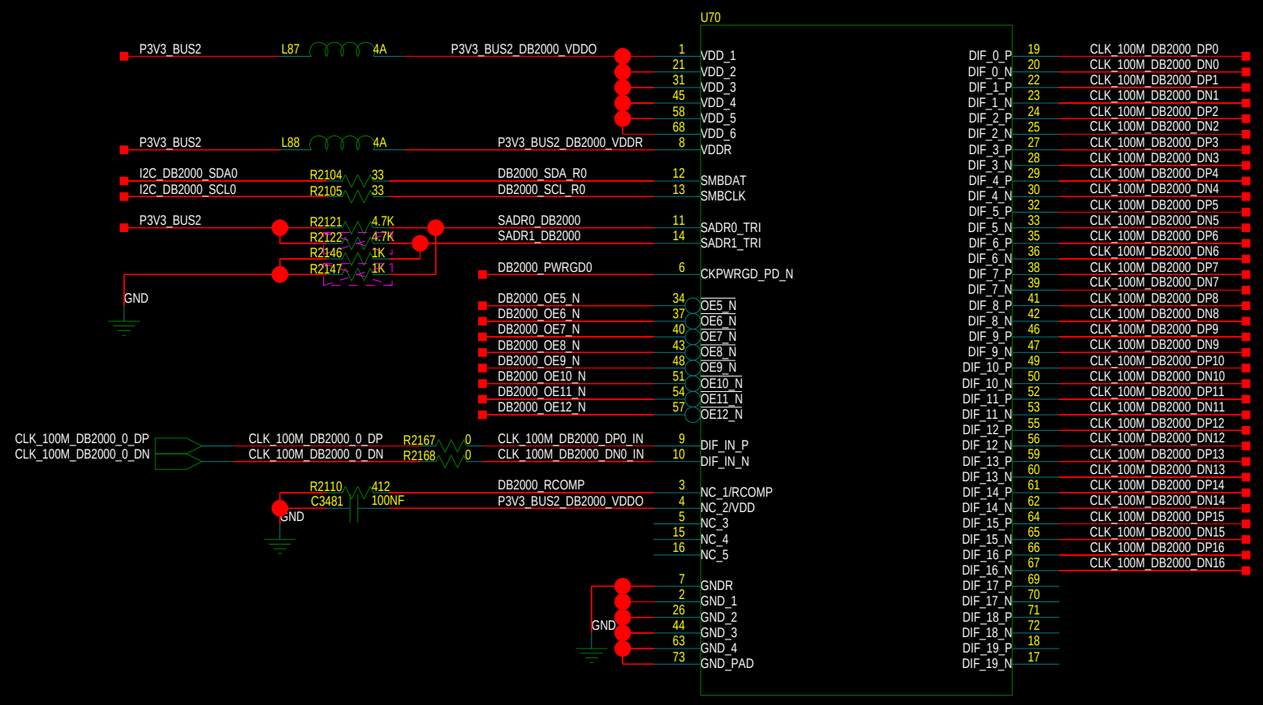

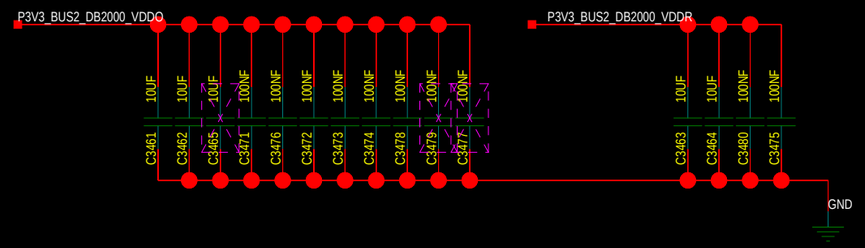

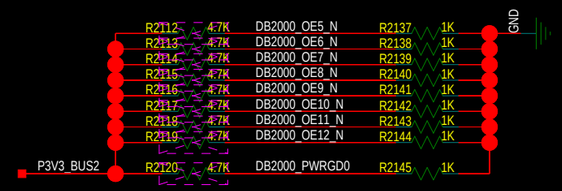

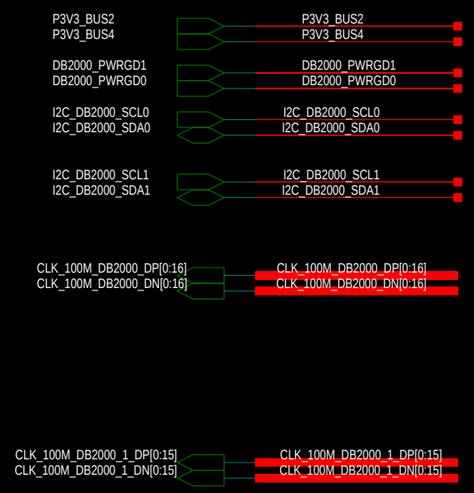

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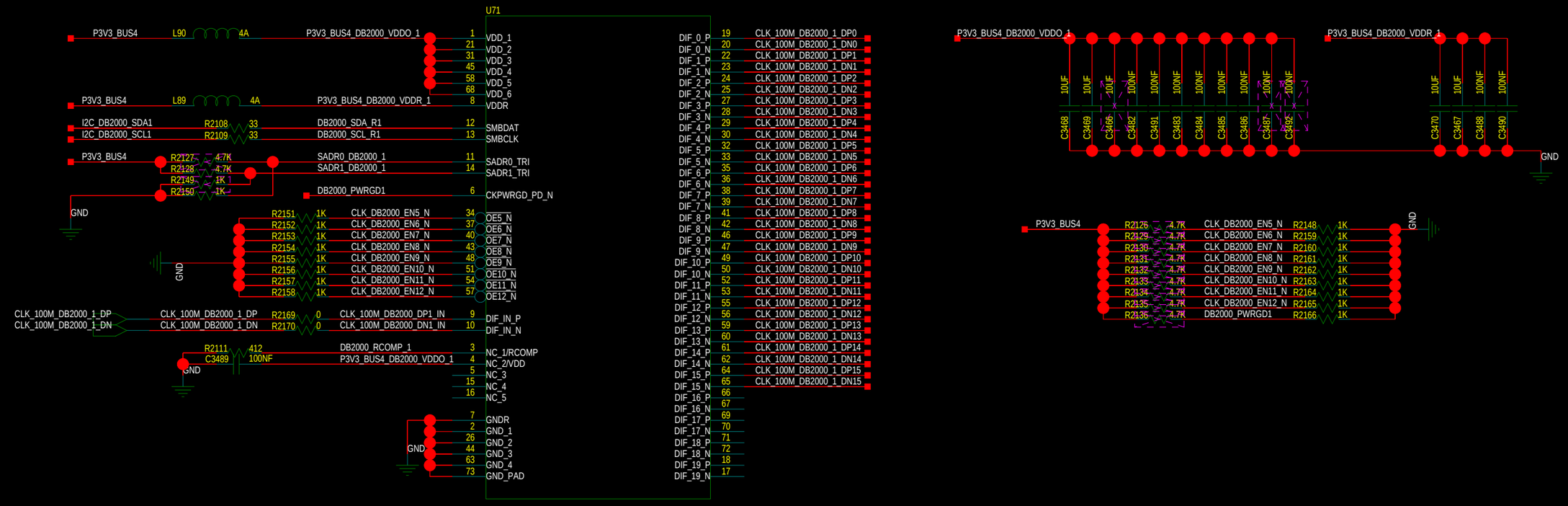

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Revision History

Rev	Date	Description	Remark
1.0	2023/10/21		

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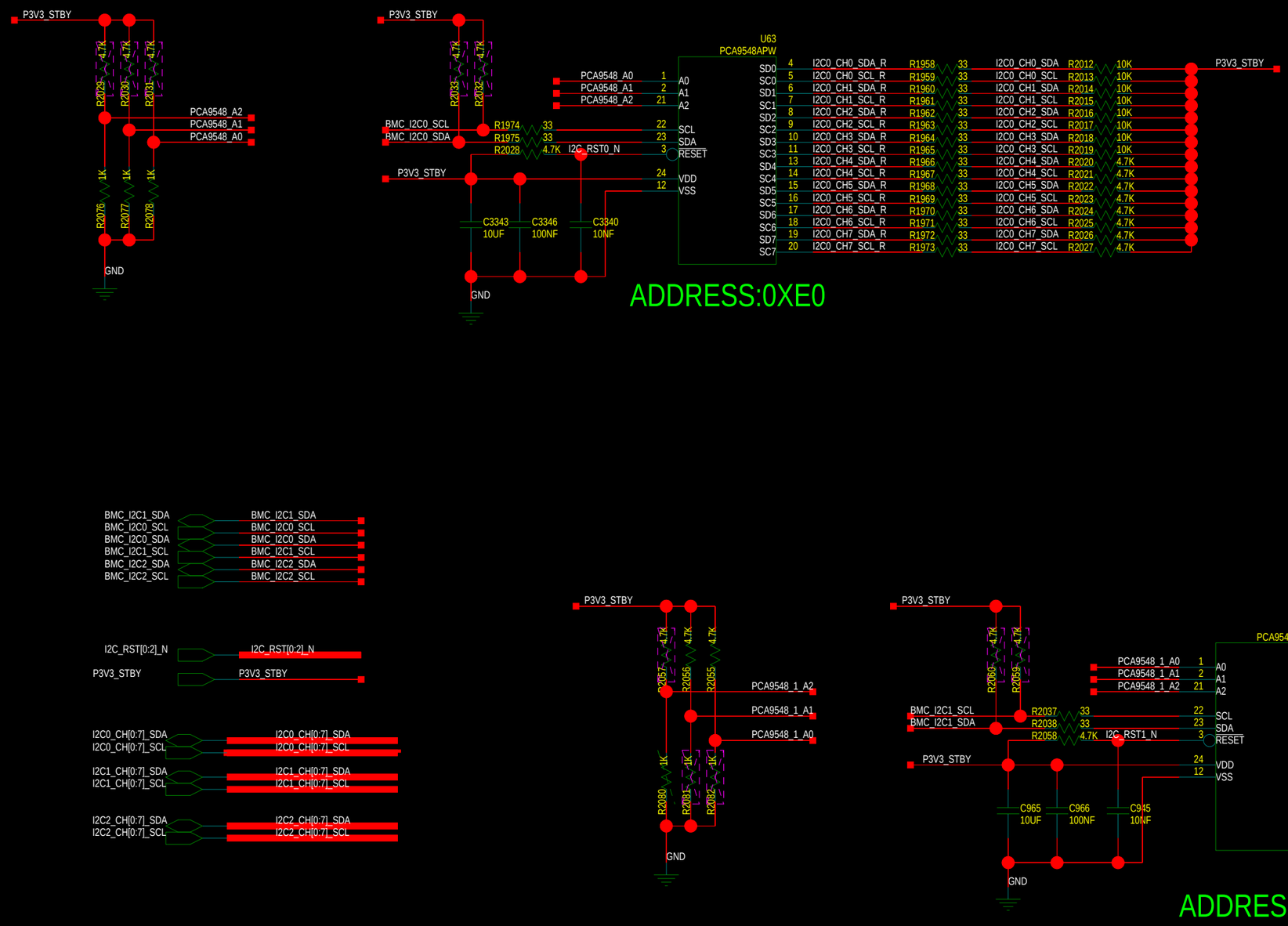

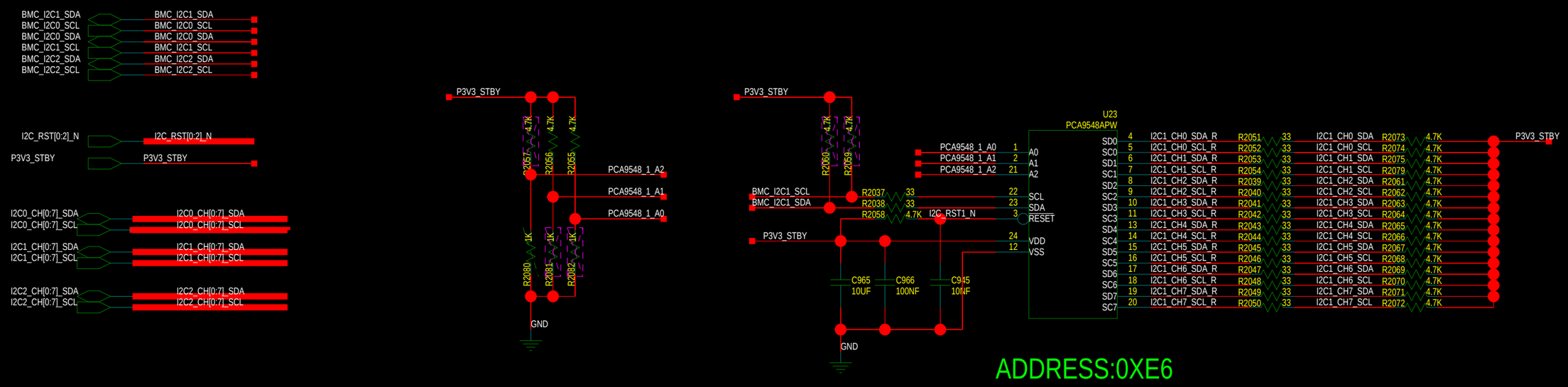

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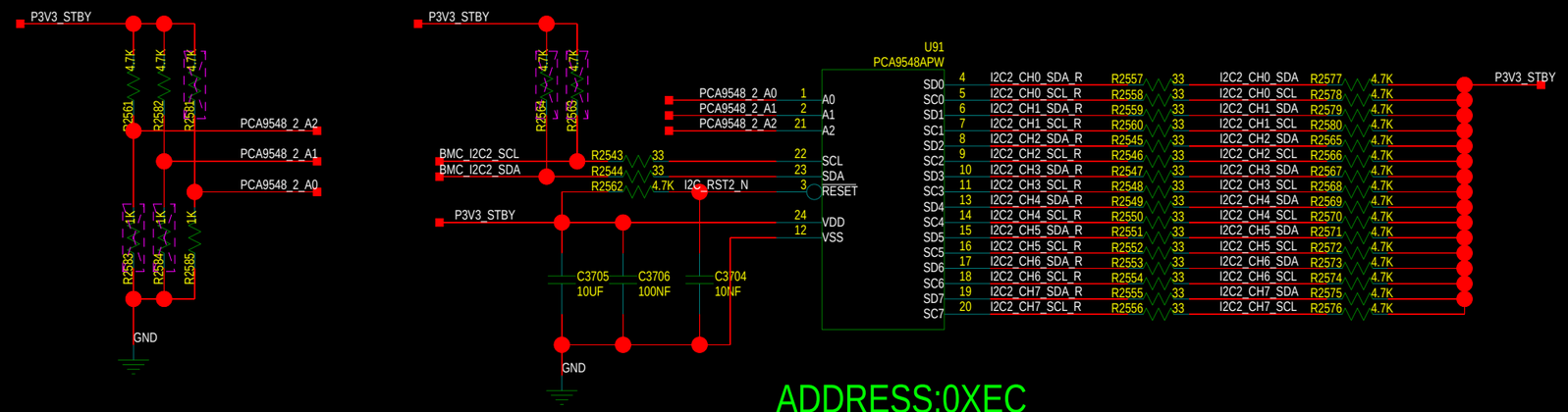

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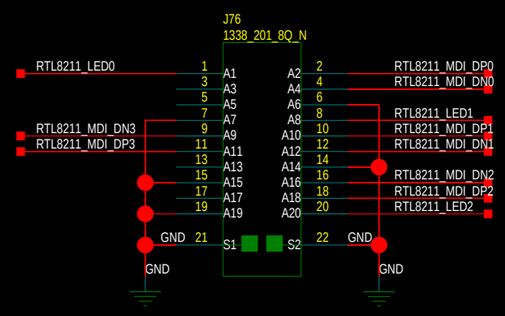

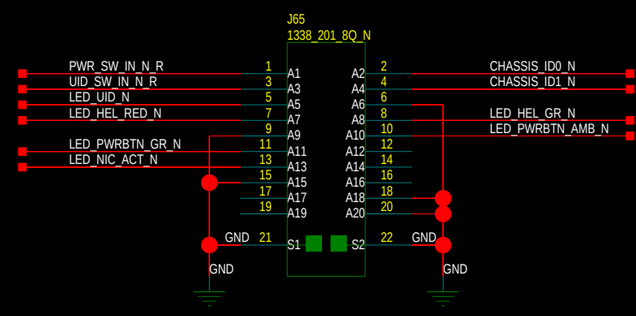

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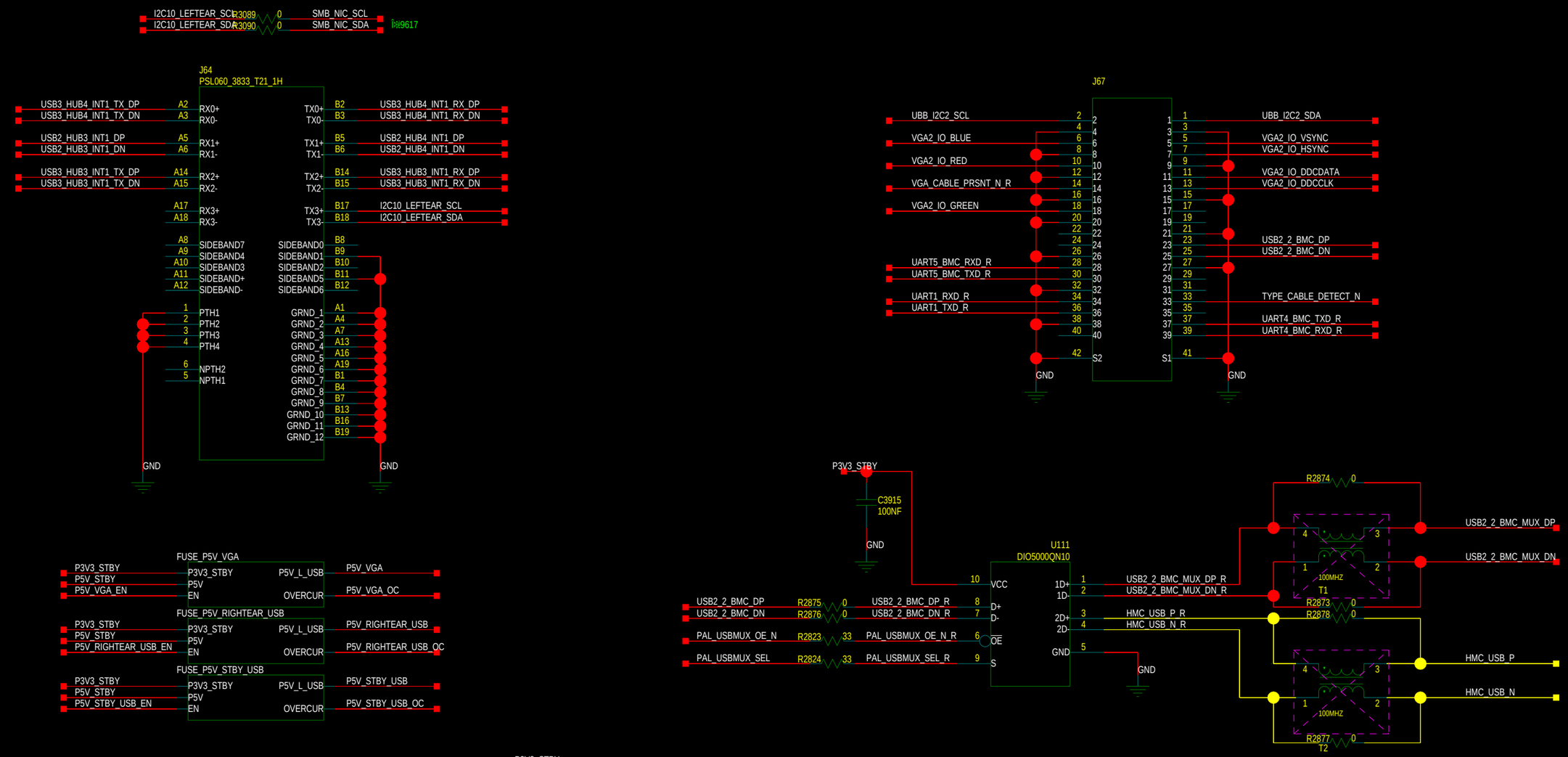

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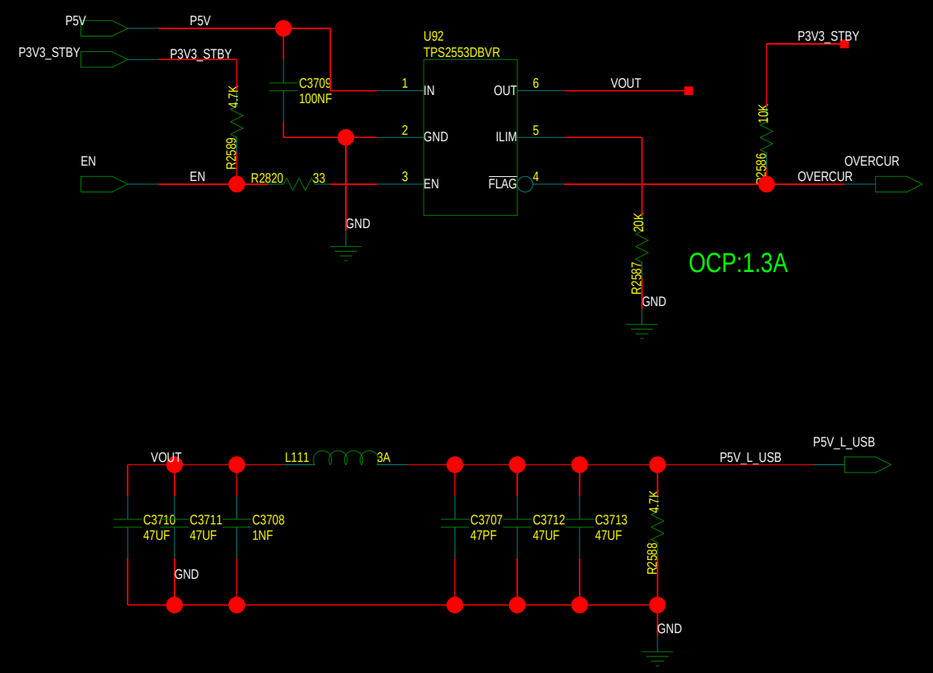

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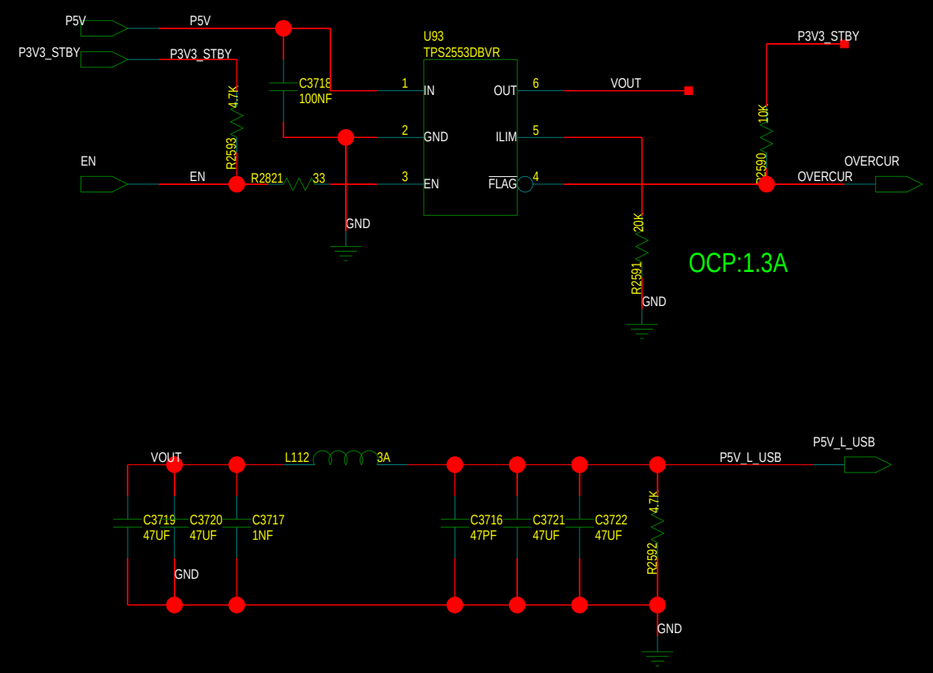

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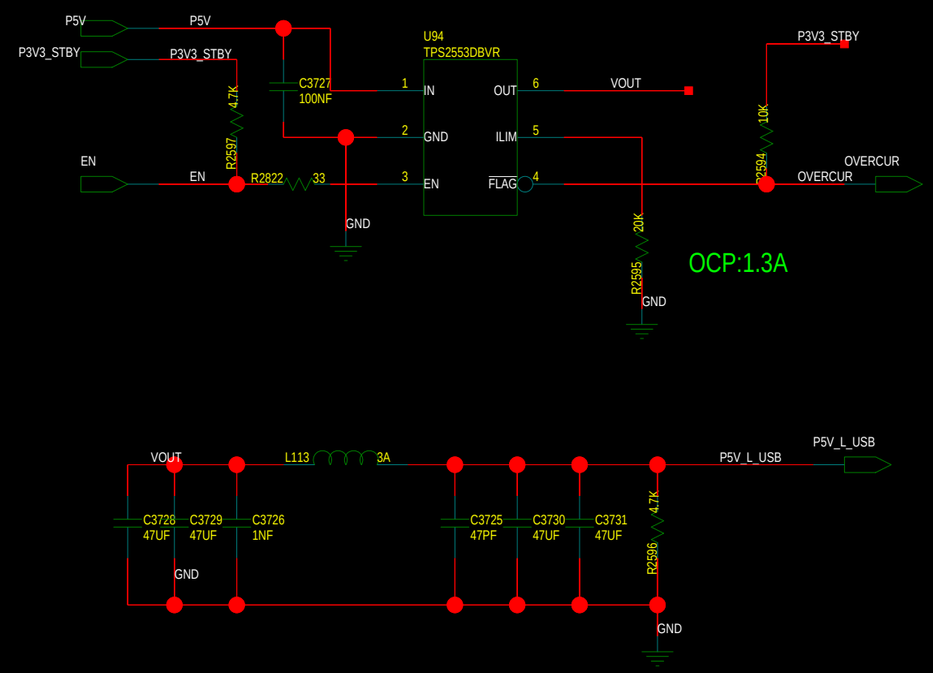

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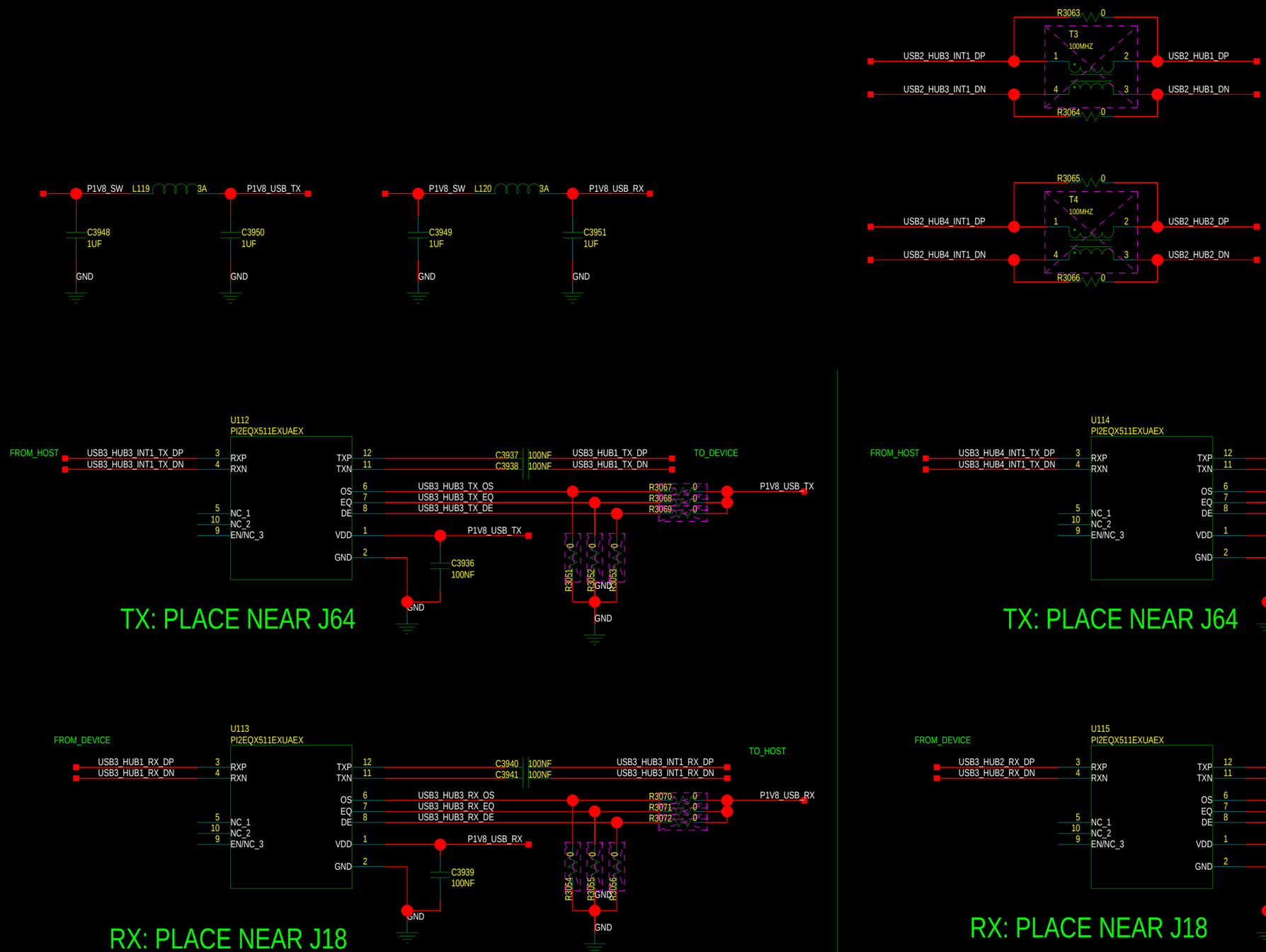

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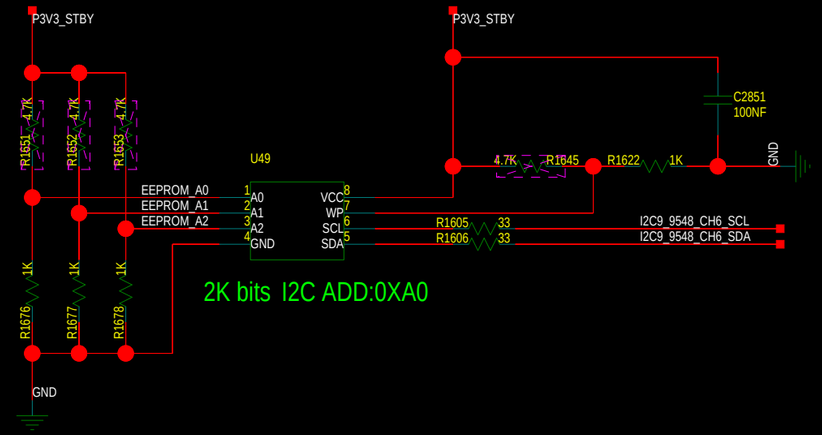

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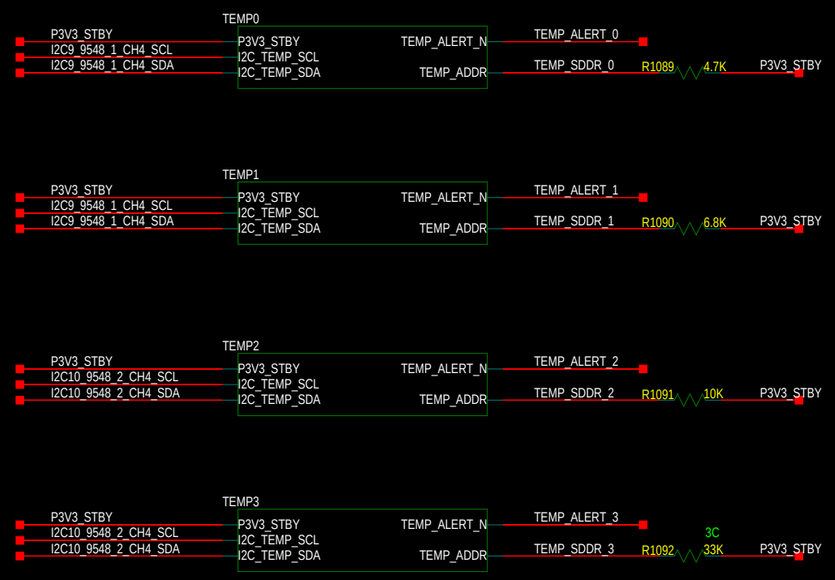

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33K: 0111_1000(B) 3C(H)

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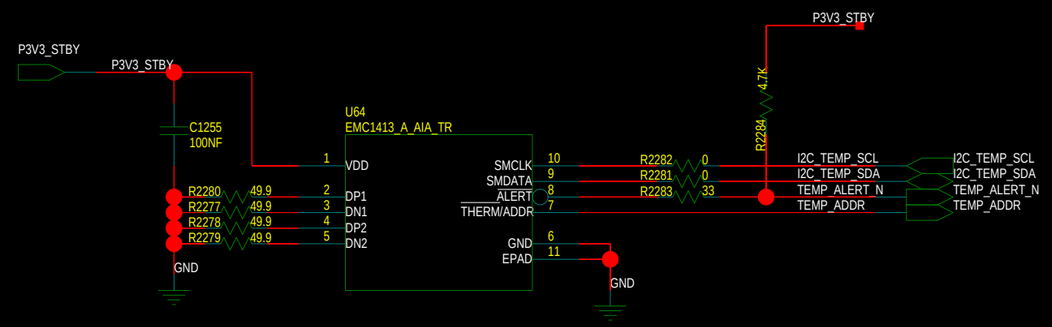

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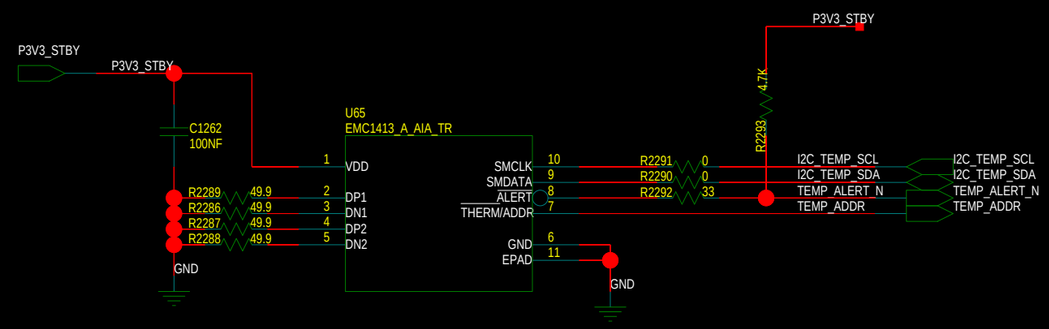

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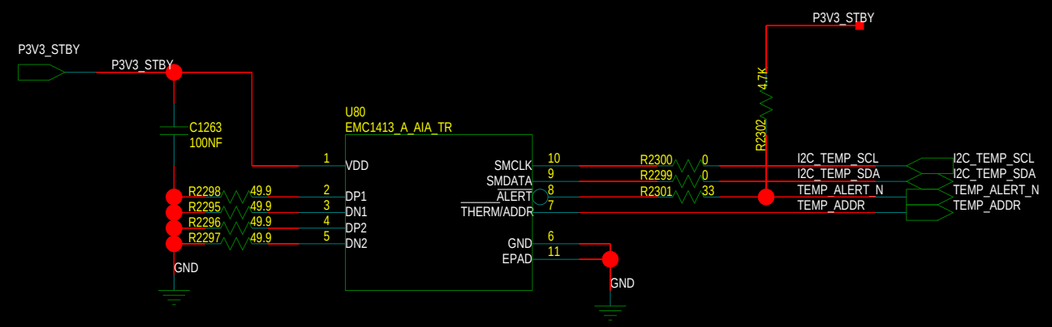

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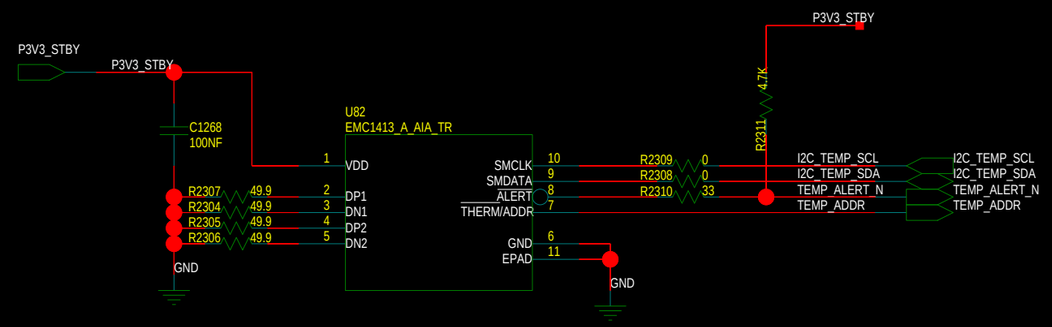

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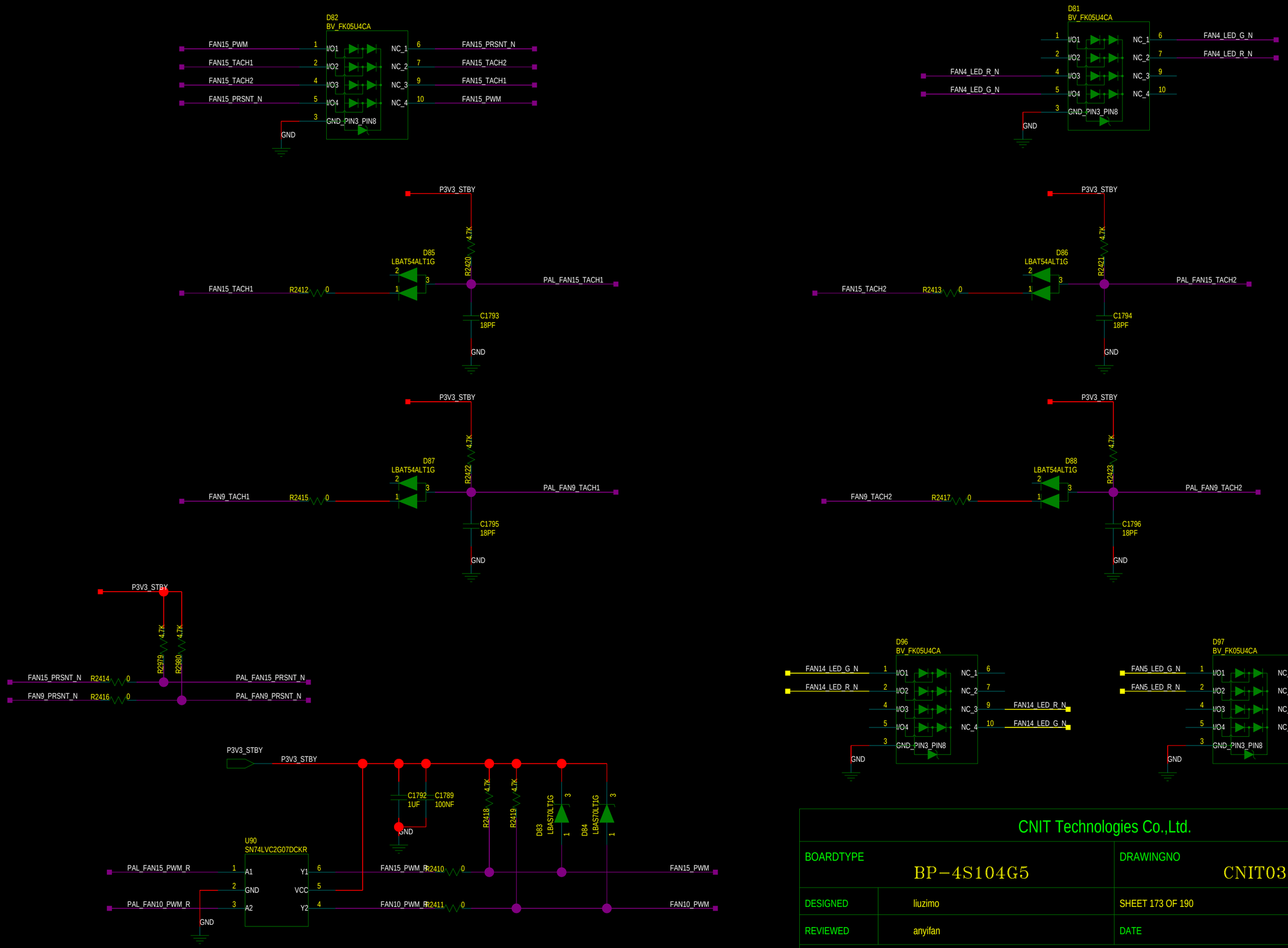

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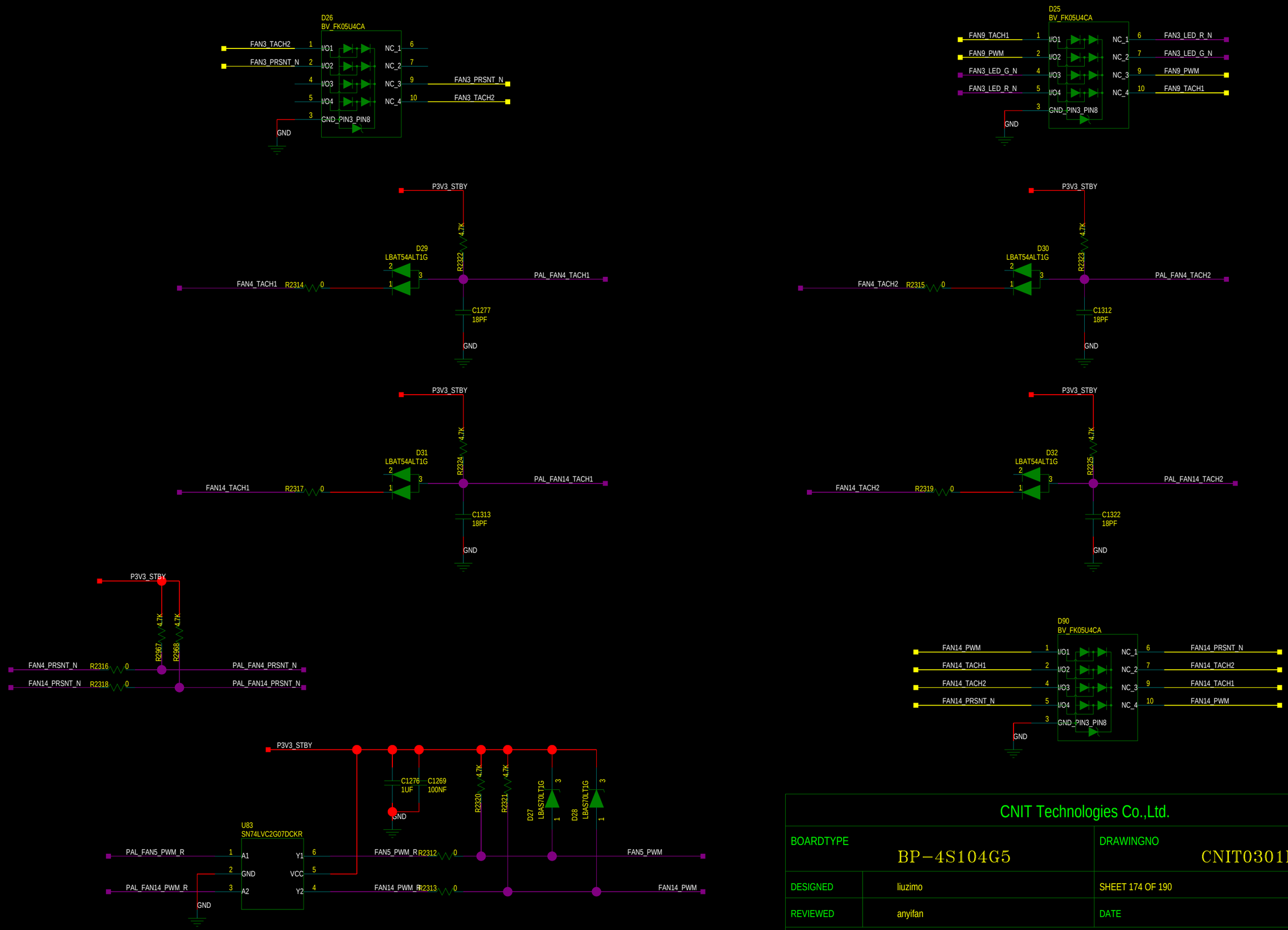

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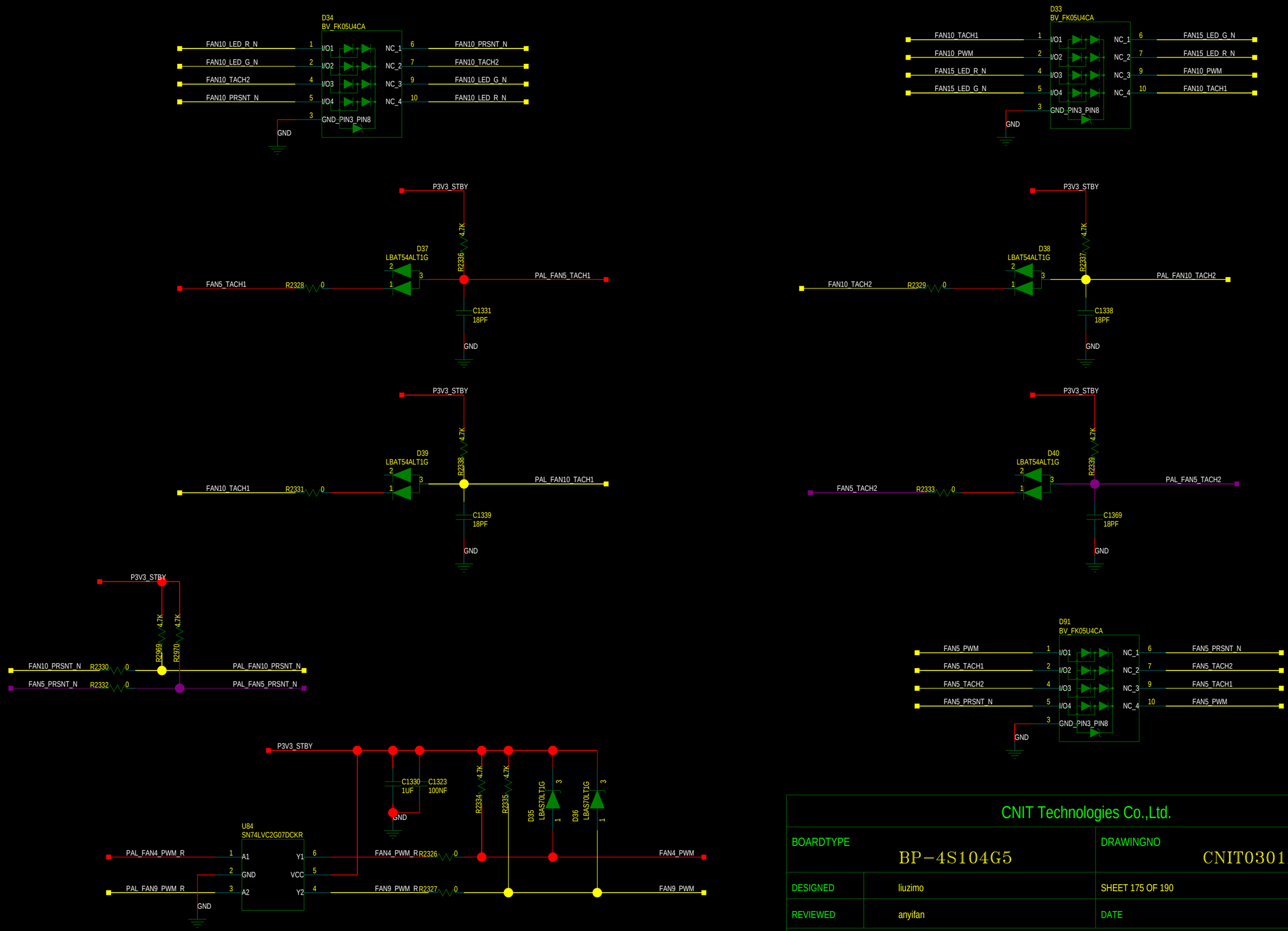

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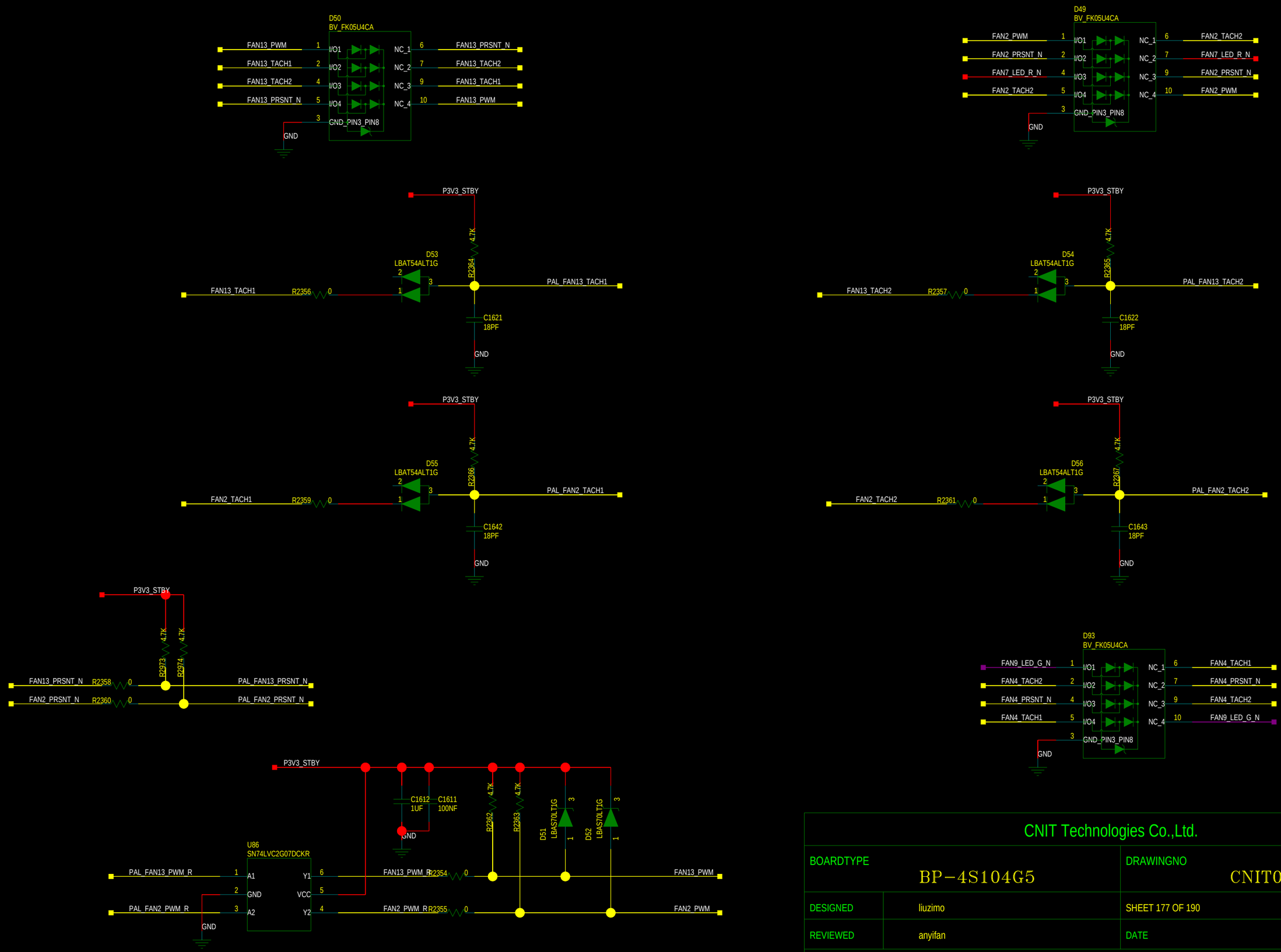

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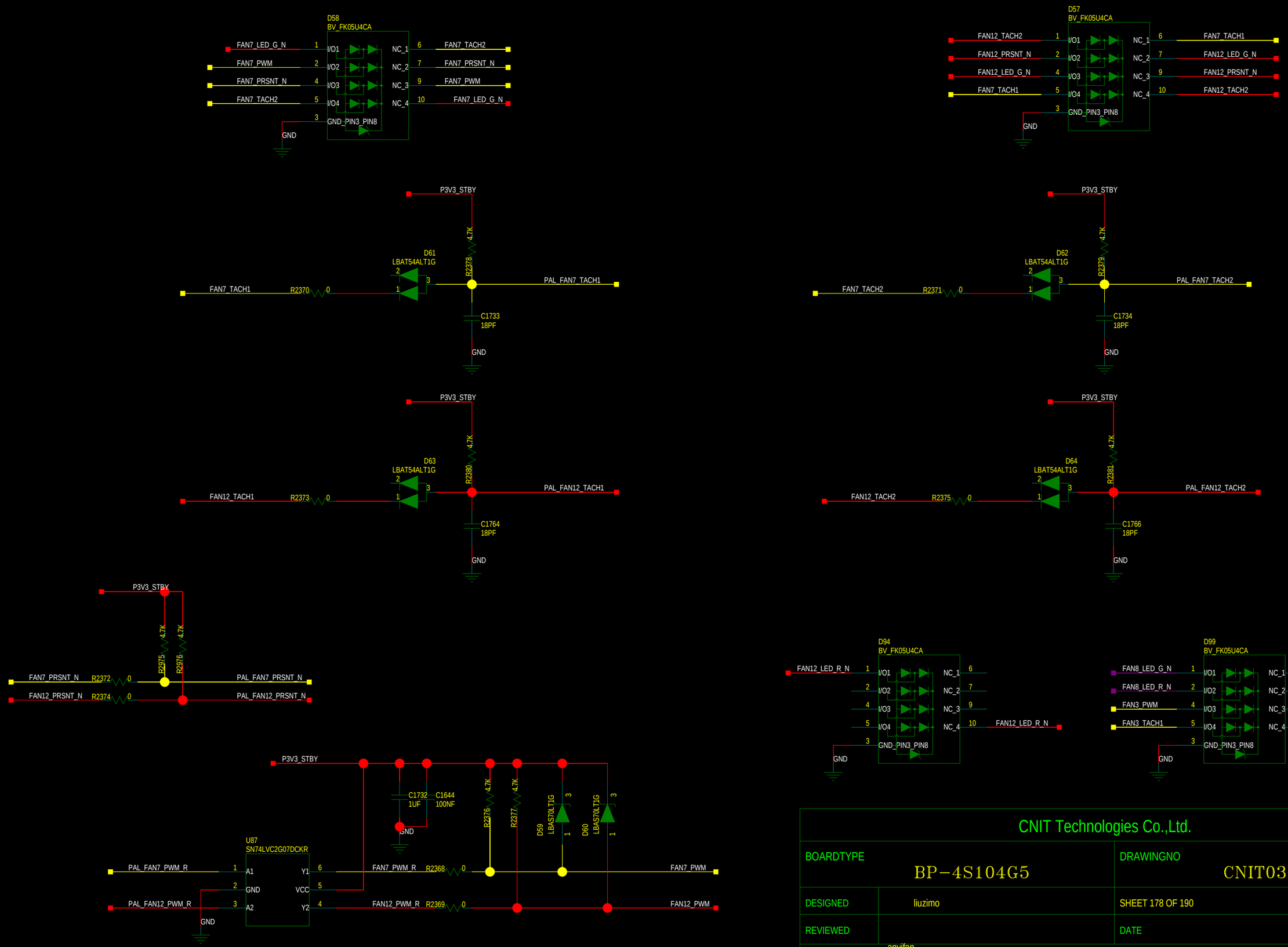

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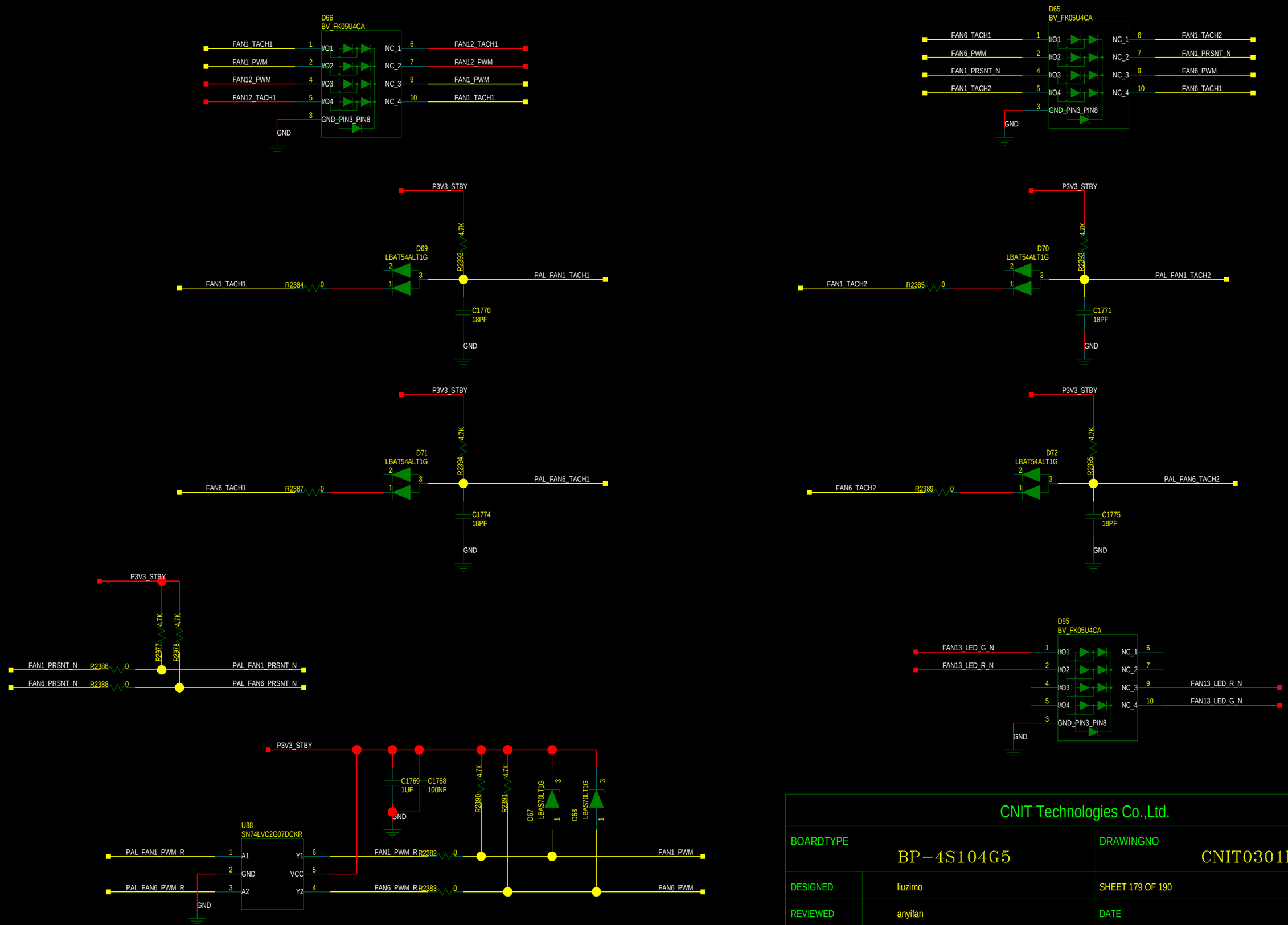

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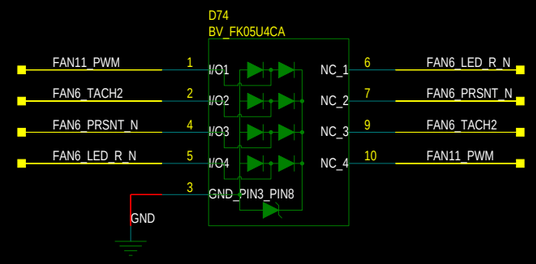

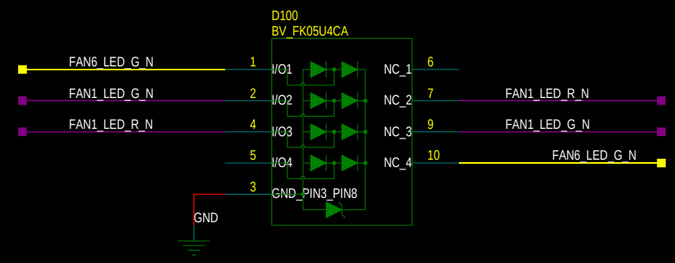

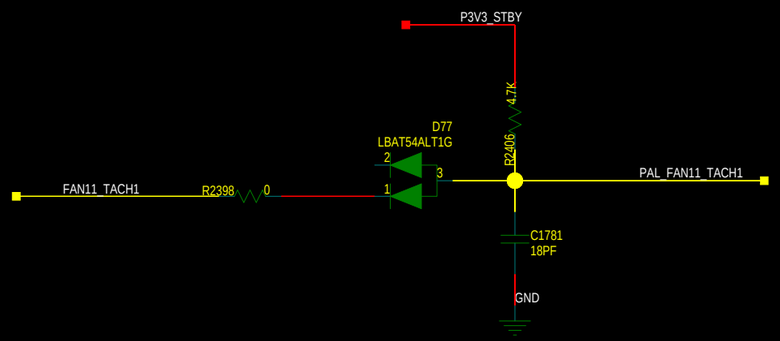

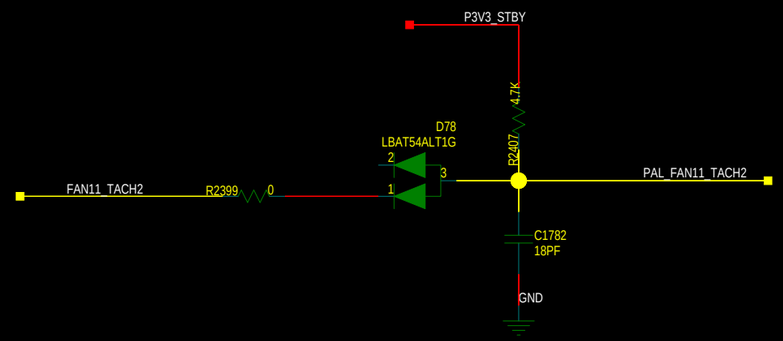

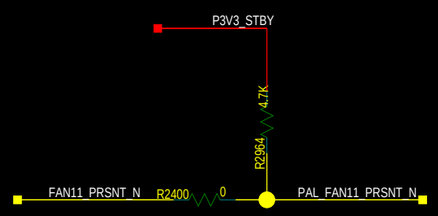

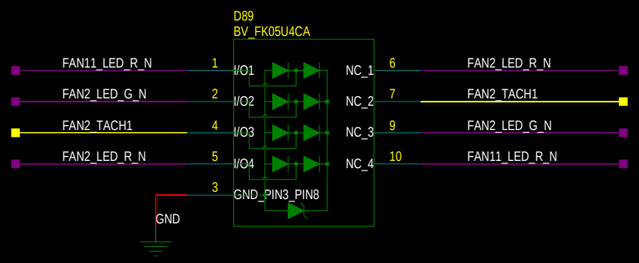

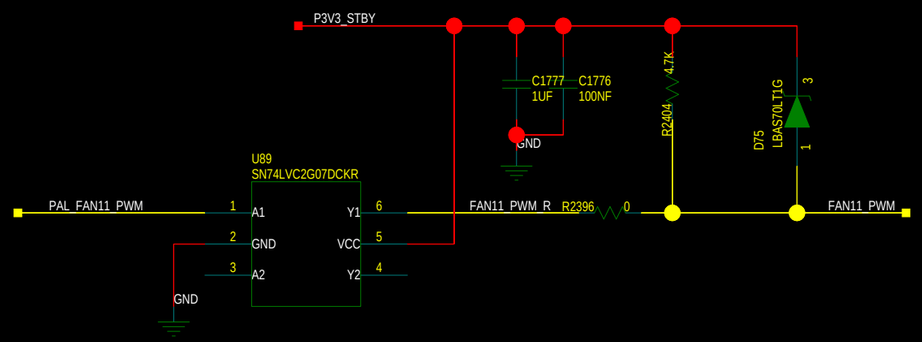

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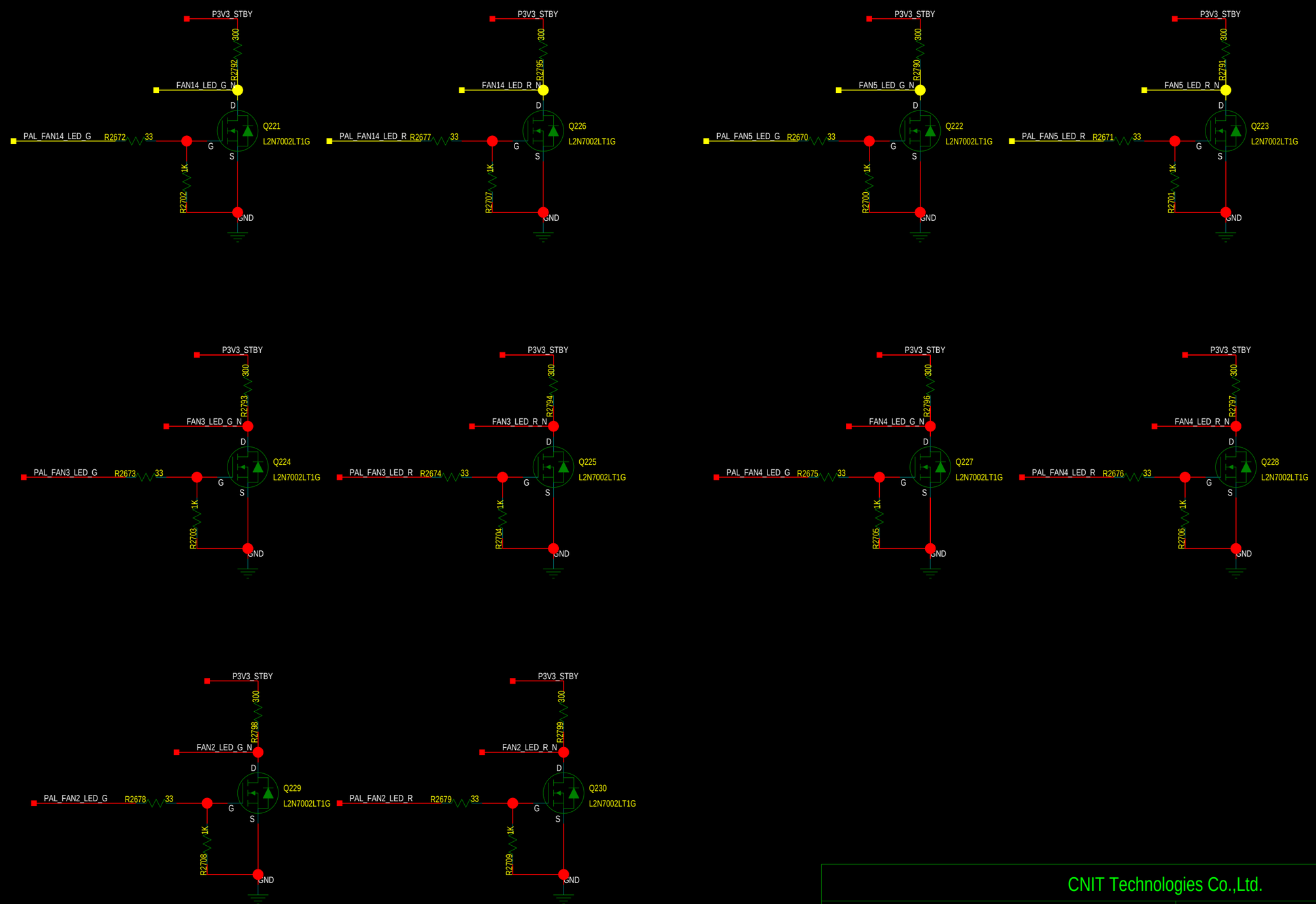

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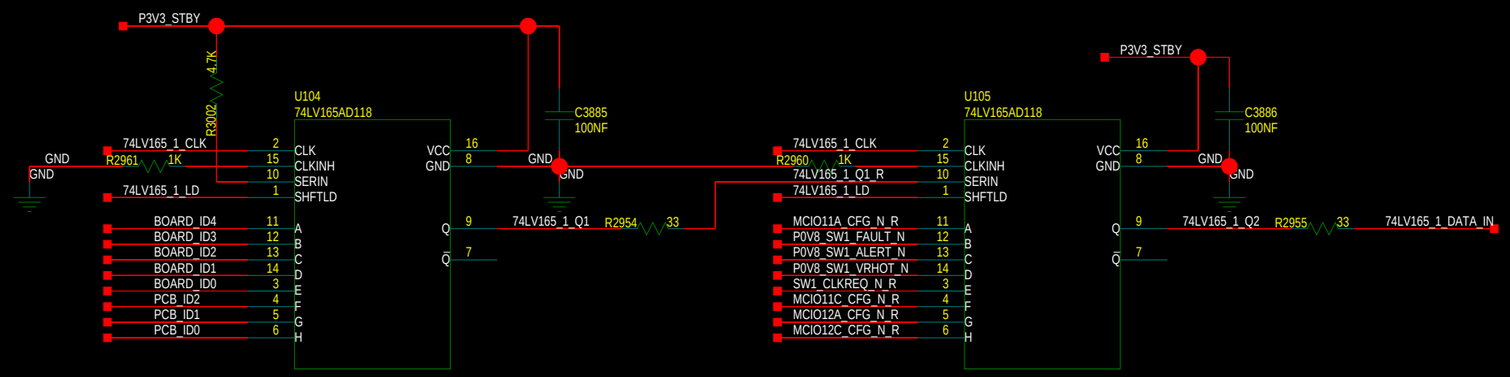

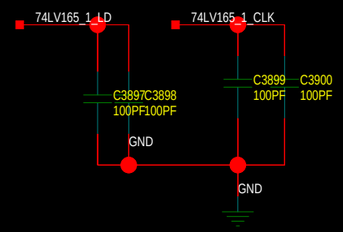

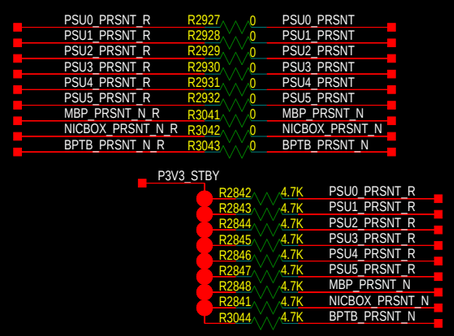

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BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 184 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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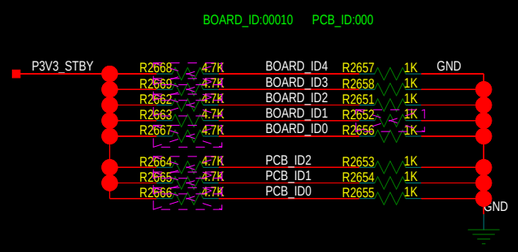

CNIT Technologies Co.,Ltd.			
BOARDTYPE BP−4S104G5		DRAWINGNO CNIT0301K0RXDL	
DESIGNED	liuzimo	SHEET 188 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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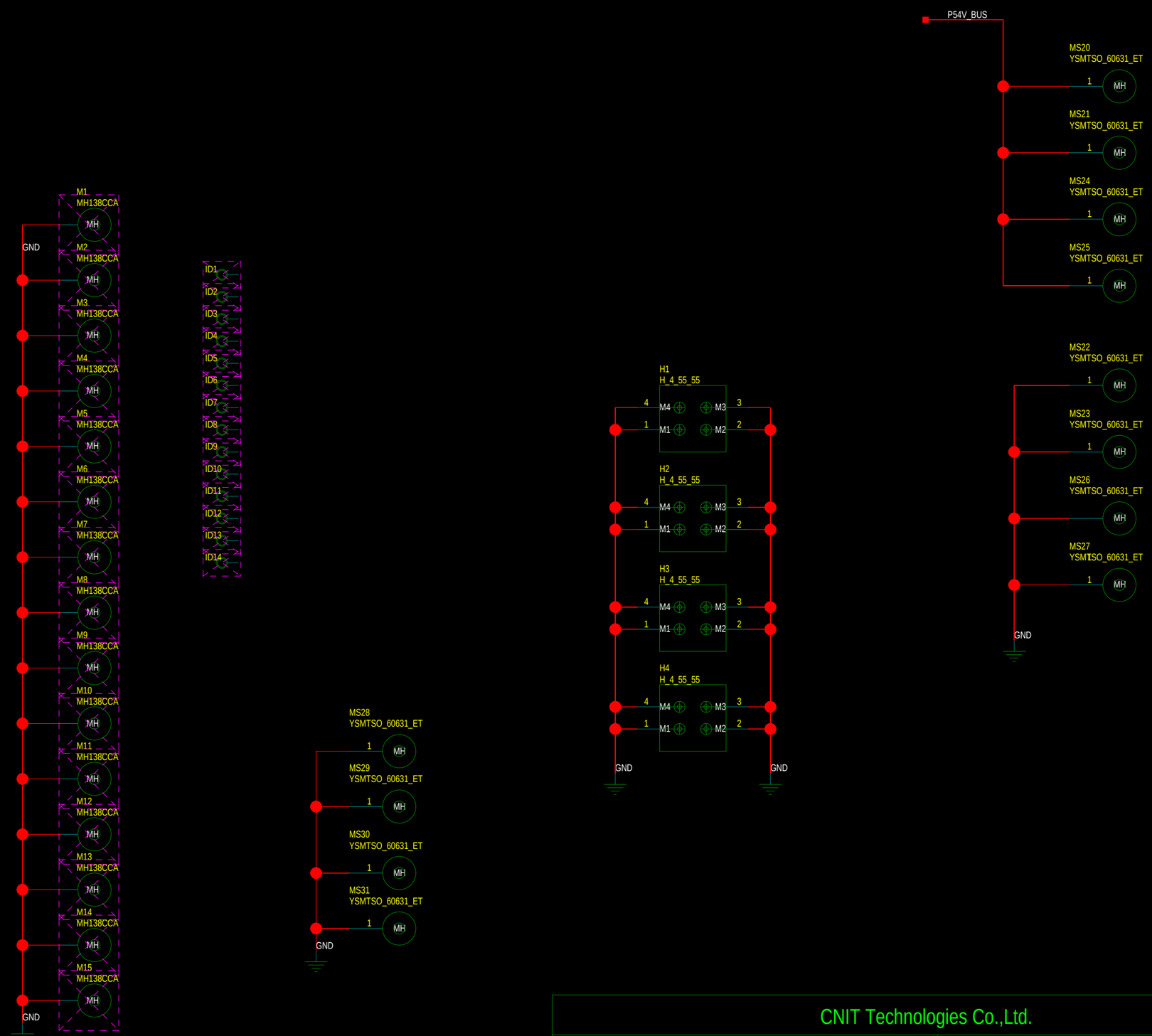

CNIT Technologies Co.,Ltd.			
BOARDTYPE	BP-4S104G5	DRAWINGNO	CNIT0301K0RXDL
DESIGNED	liuzimo	SHEET 190 OF 190	REV
REVIEWED	anyifan	DATE	REV.A

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FAN_TACH: CHANGE TO 1501S00M D29,D30,D31,D32,D37,D38,D39,D40,D45,D46,D47,D48,D53,D54,D55,D56,D61,D62,D63,D64,D69,D70,D71,D72,D77,D78,D85,D86,D87,D88
SW_PERST PULL DOMN NEED NC: R274,R635,R996,R1357
1V8 5V EN PULL DOWN ADD: R1698,R1715,R1732
SW CAP NEED NC: C3952,C3953,C3954,C3955,C3956,C3957,C3958,C3959,C3960,C3961,C3962,C3963,C3964,C3965,C3966,C3967
MOS TEMP NEED CHANGE 1506K03B TO 1506S03G:Q7,Q8,Q9,Q11,Q14,Q16,Q19,Q55,Q56,Q57,Q59,Q62,Q64,Q67,Q103,Q104,Q105,Q107,Q110,Q112,Q115,Q151,Q152,Q153,Q155,Q158,Q160,Q163,Q251,Q252 .ETC
delete 3V3IO_RSVD_FFU NEED PULL UP: R2531,R2532,R2533,R2534,R2535
1.25V Css Need Add: C2745,C2786,C2734,C2796 CDMS:202406010012
0.8V_SW0 PG RES Need Change to 33 ohm: R3144 CDMS:202406030003
delete 1.25V Cloop Need Change to 4.7nF: C2750,C2751,C2802,C2803 CDMS:202406040031
3V3_STBY PG Rpu need change to 100k: R2206 CDMS:202406010011
3V3_STBY PG RC need change to 100ohm AND 100nF: R2204,C3534 CDMS:202406010011
1.25V PG RC need change to 33ohm AND 100nF: R1489,R1490,R1523,R1524,C2731,C2732,C2783,C2784 CDMS:202405290061
TO 1.8V I2C PULL UP NEED CHANGE TO 10K: R2012,R2013,R2014,R2015,R2016,R2017,R2018,R2019 CDMS:202406180031
SW SYSRST CHANGE TO 330ohm: R25,R386,R747,R1108,C cahnge to 47nF:C456,C1133,C1810,C2487 CDMS:202405310001
SW SLOT RST PULL UP NC: R186,R189,R216,R210,R192,R198,R547,R550,R577,R571,R553,R559.R908,R911,R938,R932,R914,R920,R1269,R1272,R1299,R1293,R1275,R1281 CDMS:202406260007
0V8 Ren CHANGE TO 33ohm: R3147,R3149 CDMS:202406070016
SW I2C MOS Rg CHANGE TO 33ohm: R287,R648,R1009,R1370 CDMS:202405310002
1.8V Rfb CHANGE TO 330ohm: R1707 CDMS:202406180031
8LP Rperst change to 20ohm: R3119,R3116,R3115,R3118,R3117,3121,R3122,R3120 CDMS:202405290070
8LP Rrerst change to 33ohm: R3107,R3114,R3108,R3112,R3113,R3111,R3109,R3110 CDMS:202406260003