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Lumia 1320 Service Schematic and Placement Manual

RM-995 V1.0

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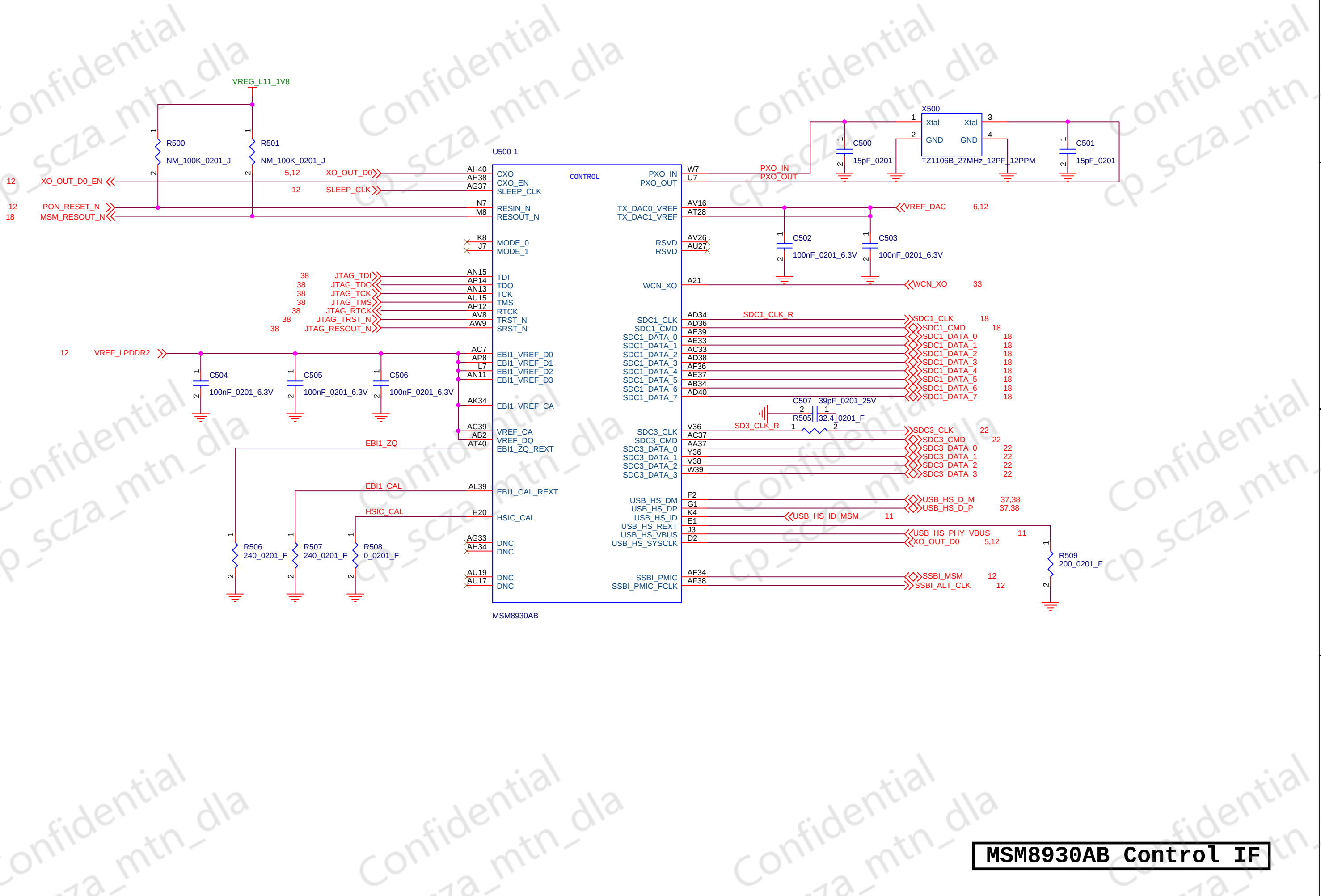
Schematics - Main board

Service Schematics Main Board

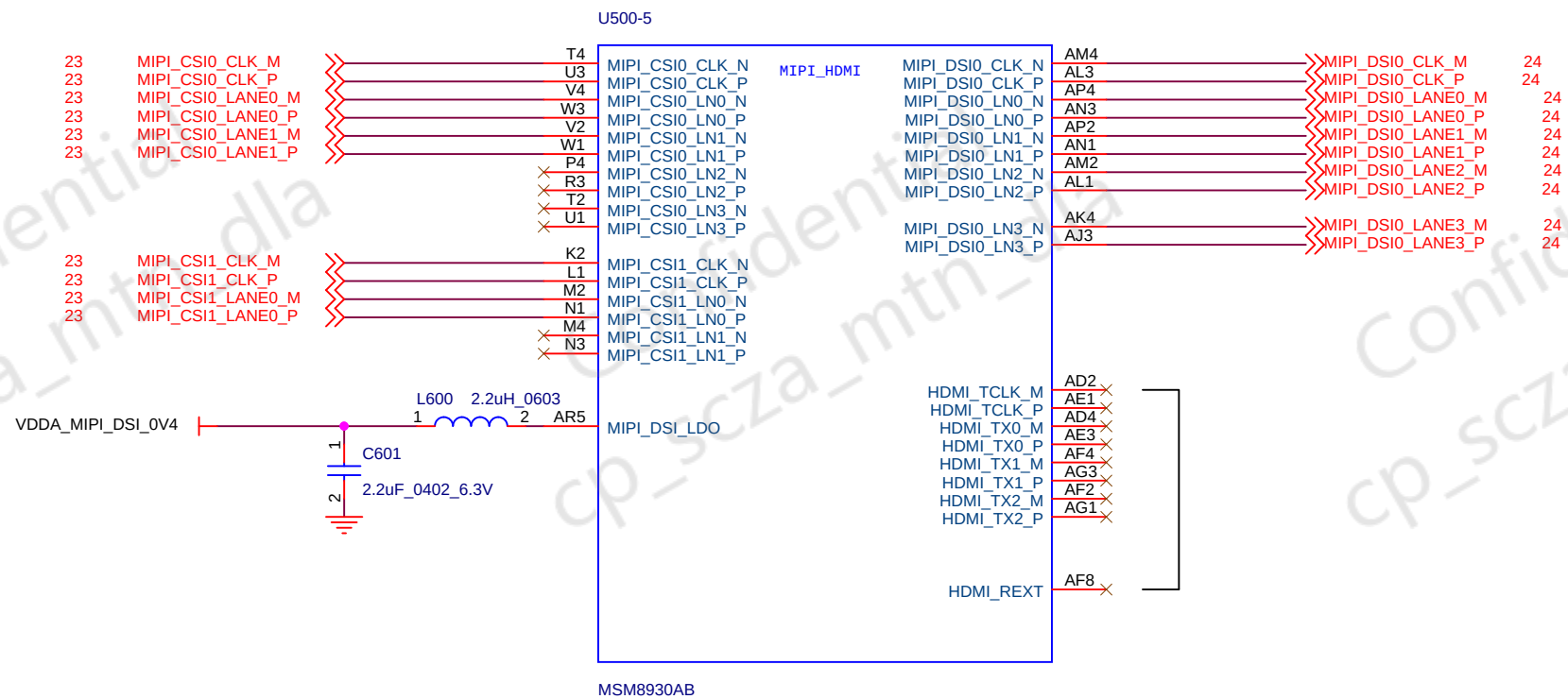
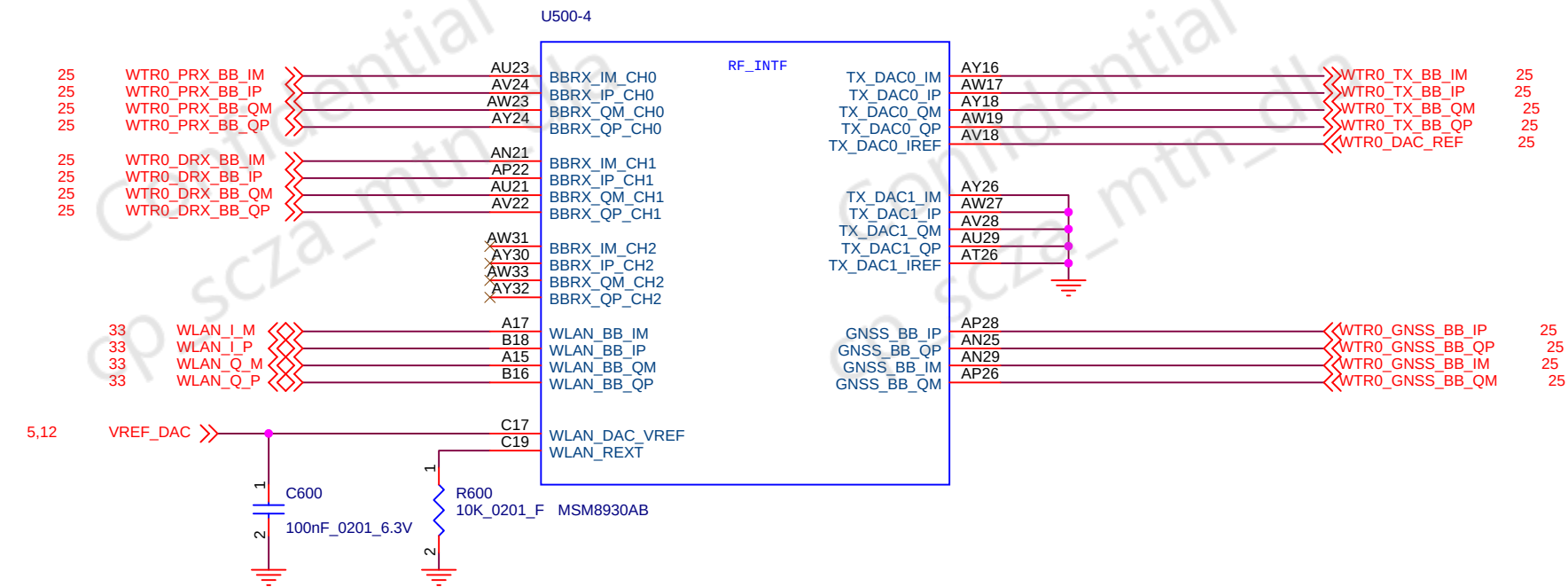
RM-995

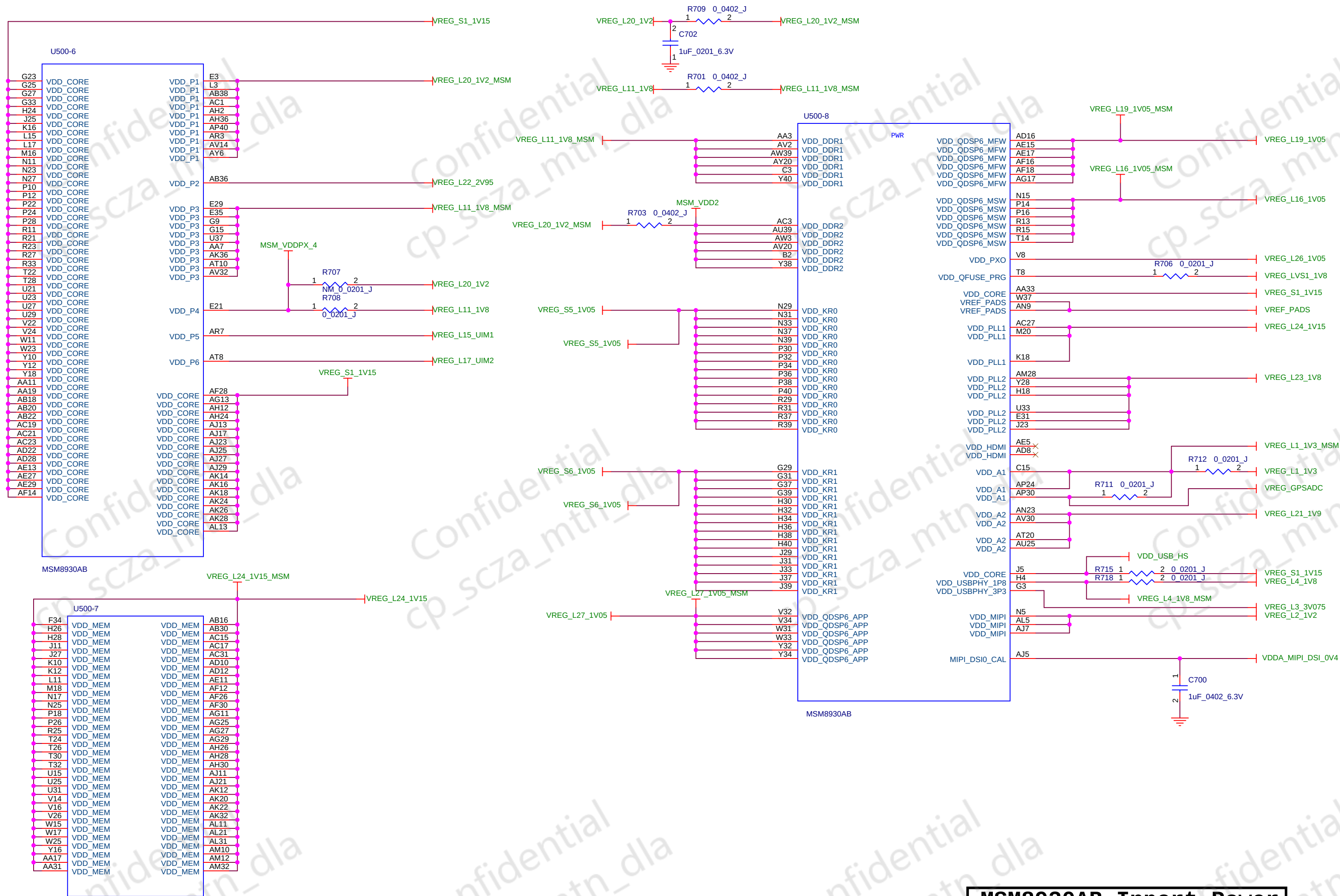
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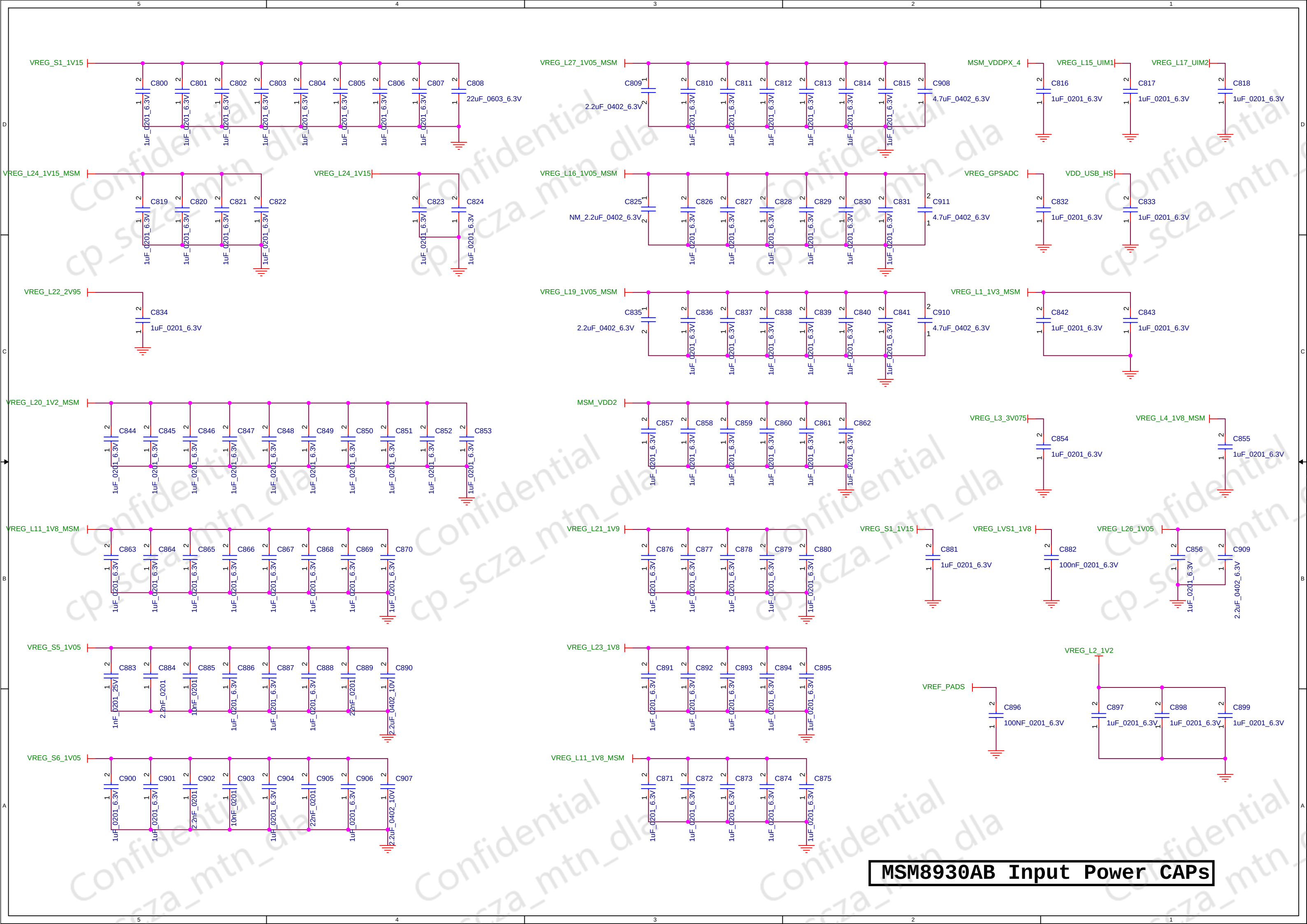


MSM8930AB Control IF

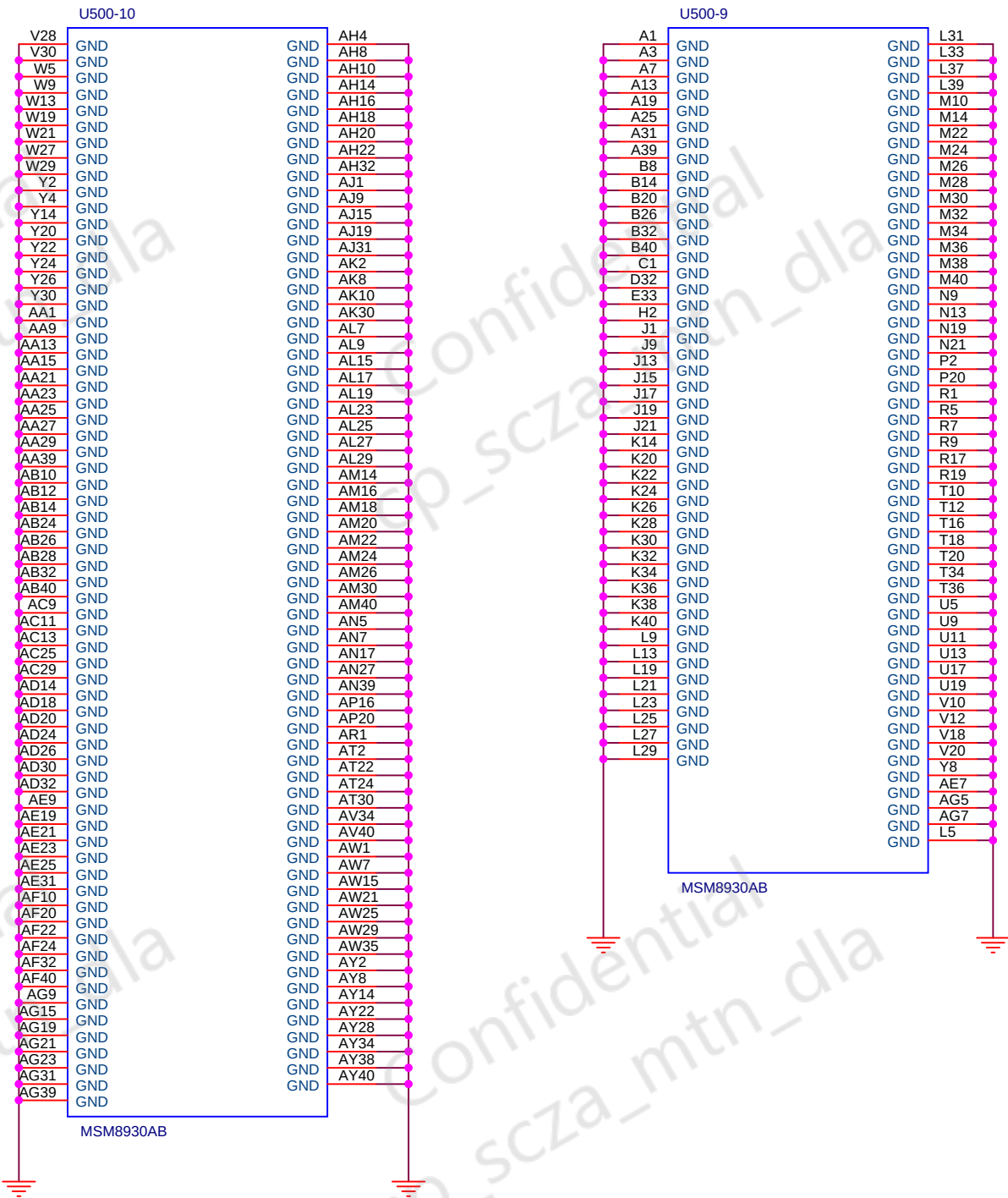


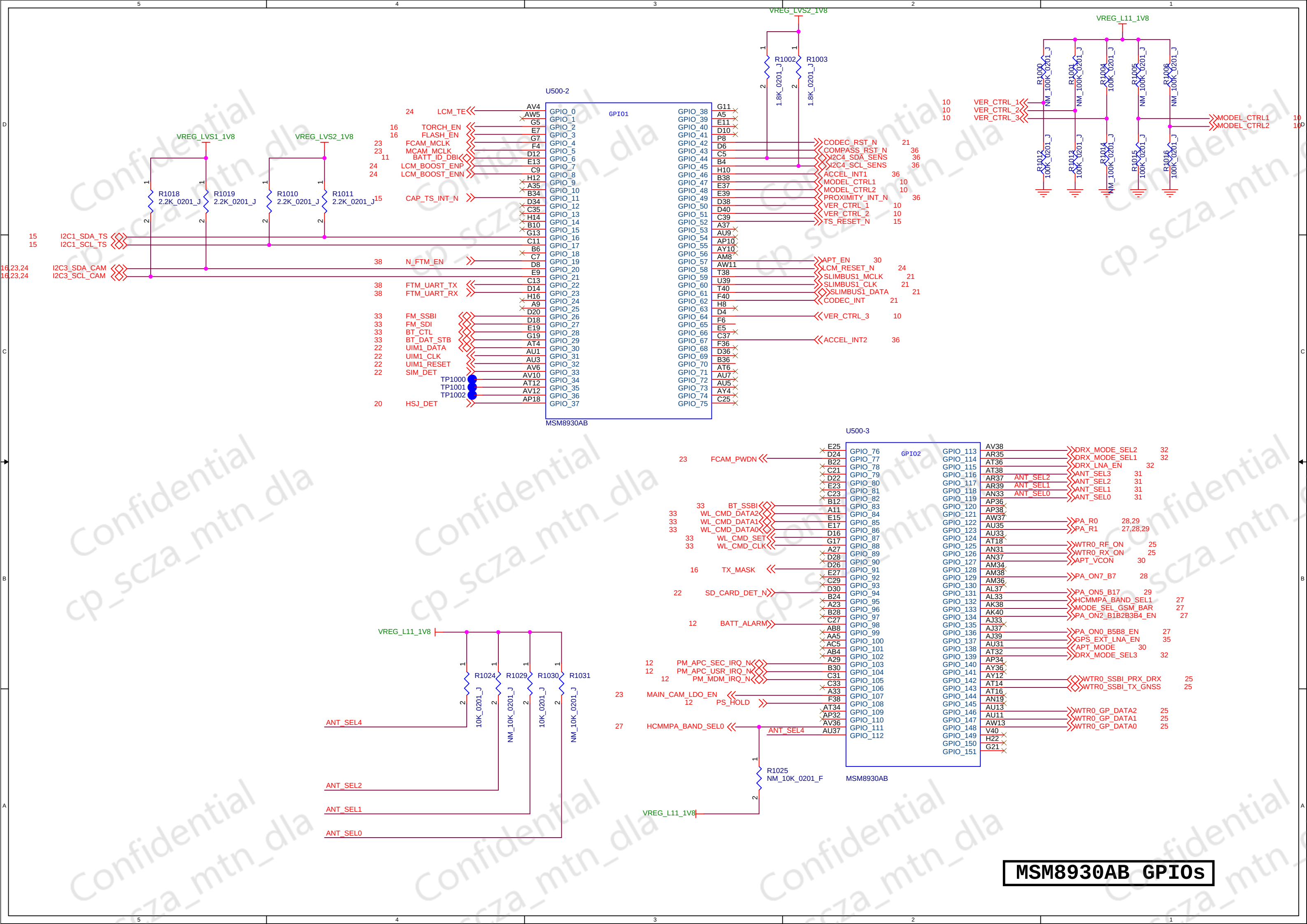


MSM8930AB Inport Power



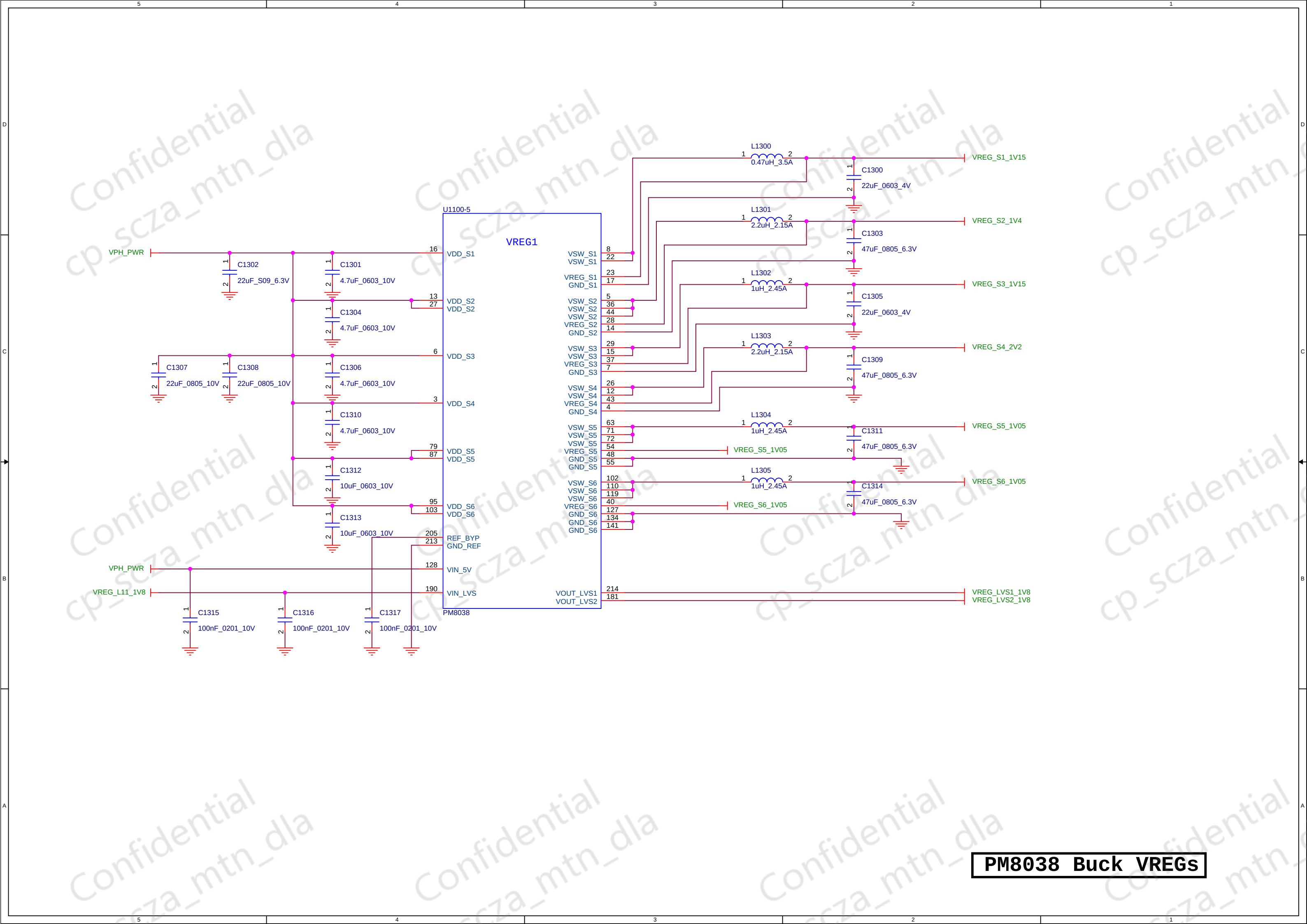
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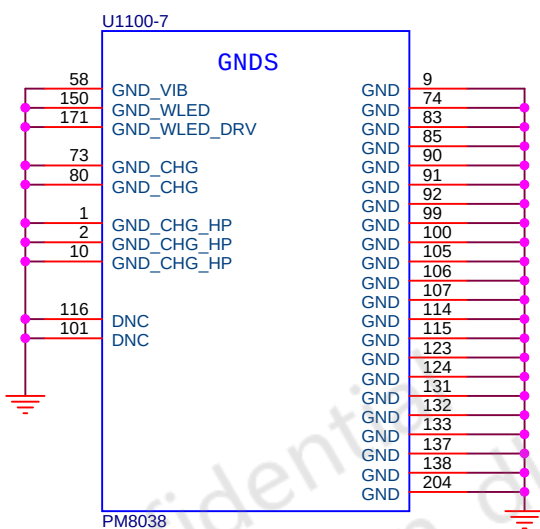
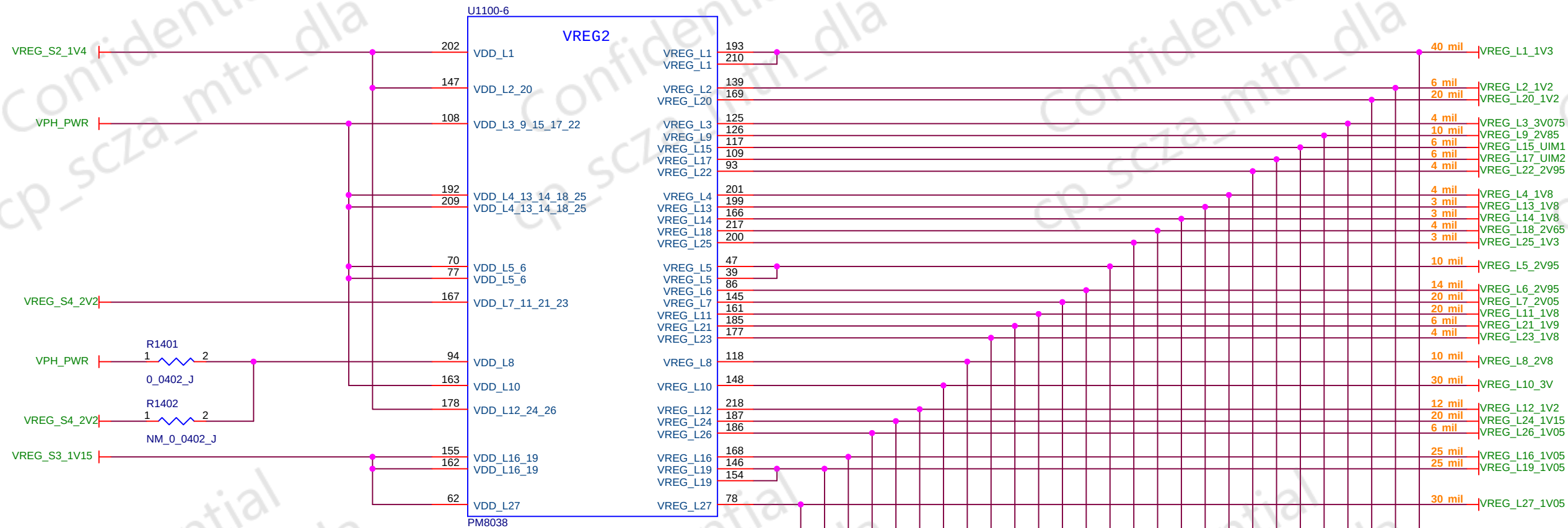




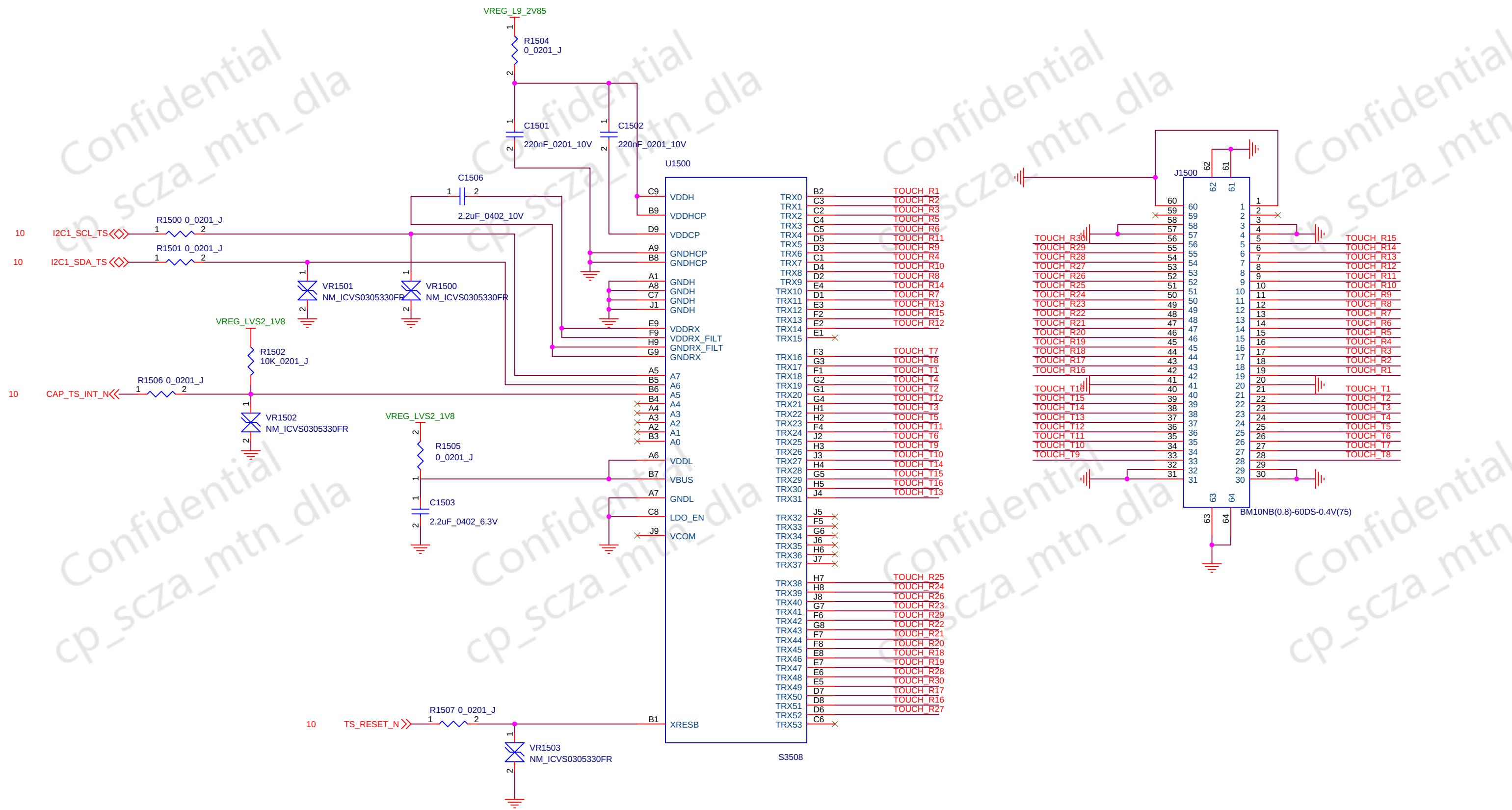
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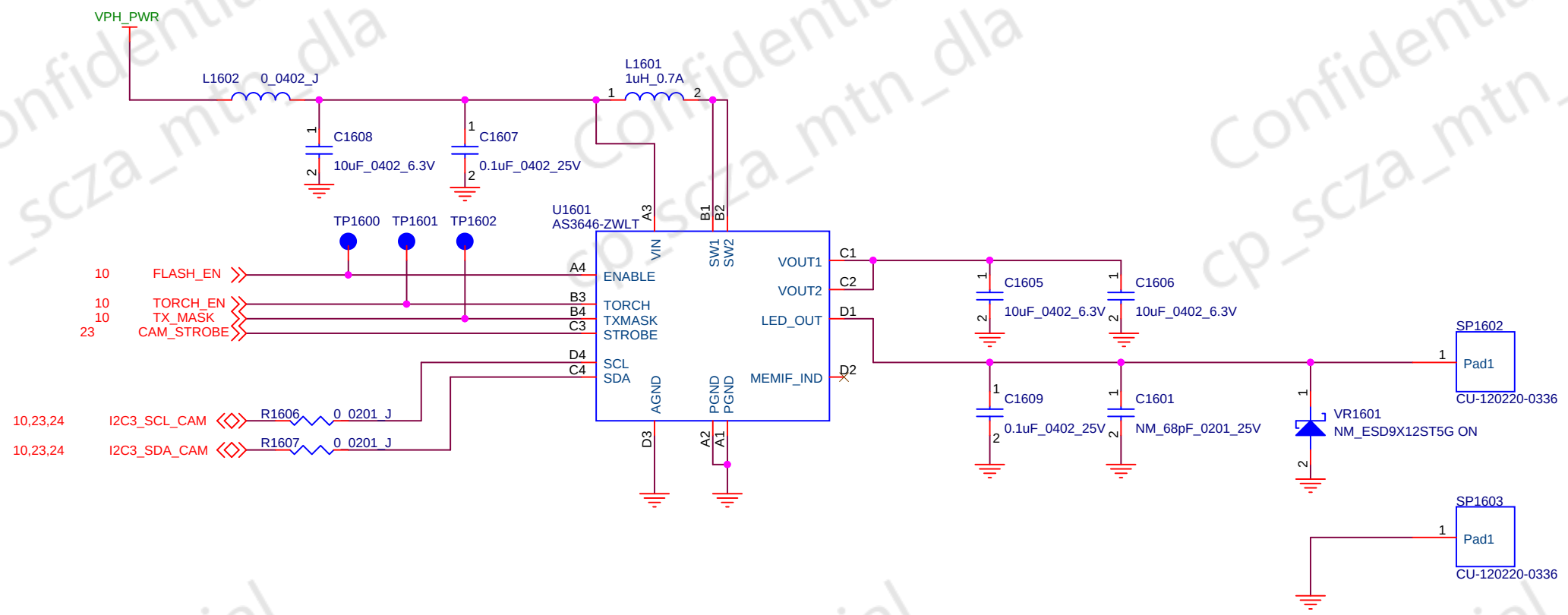




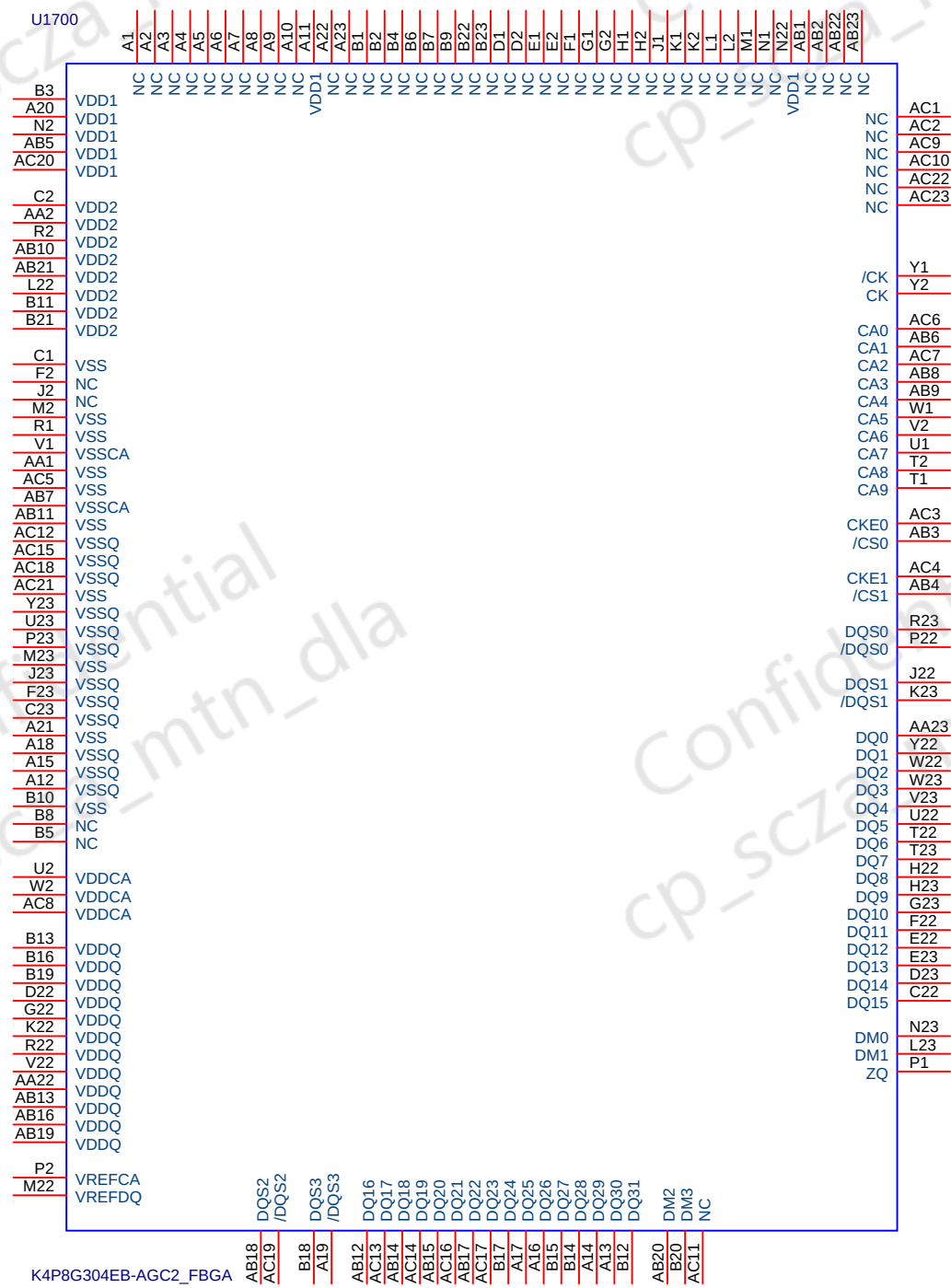
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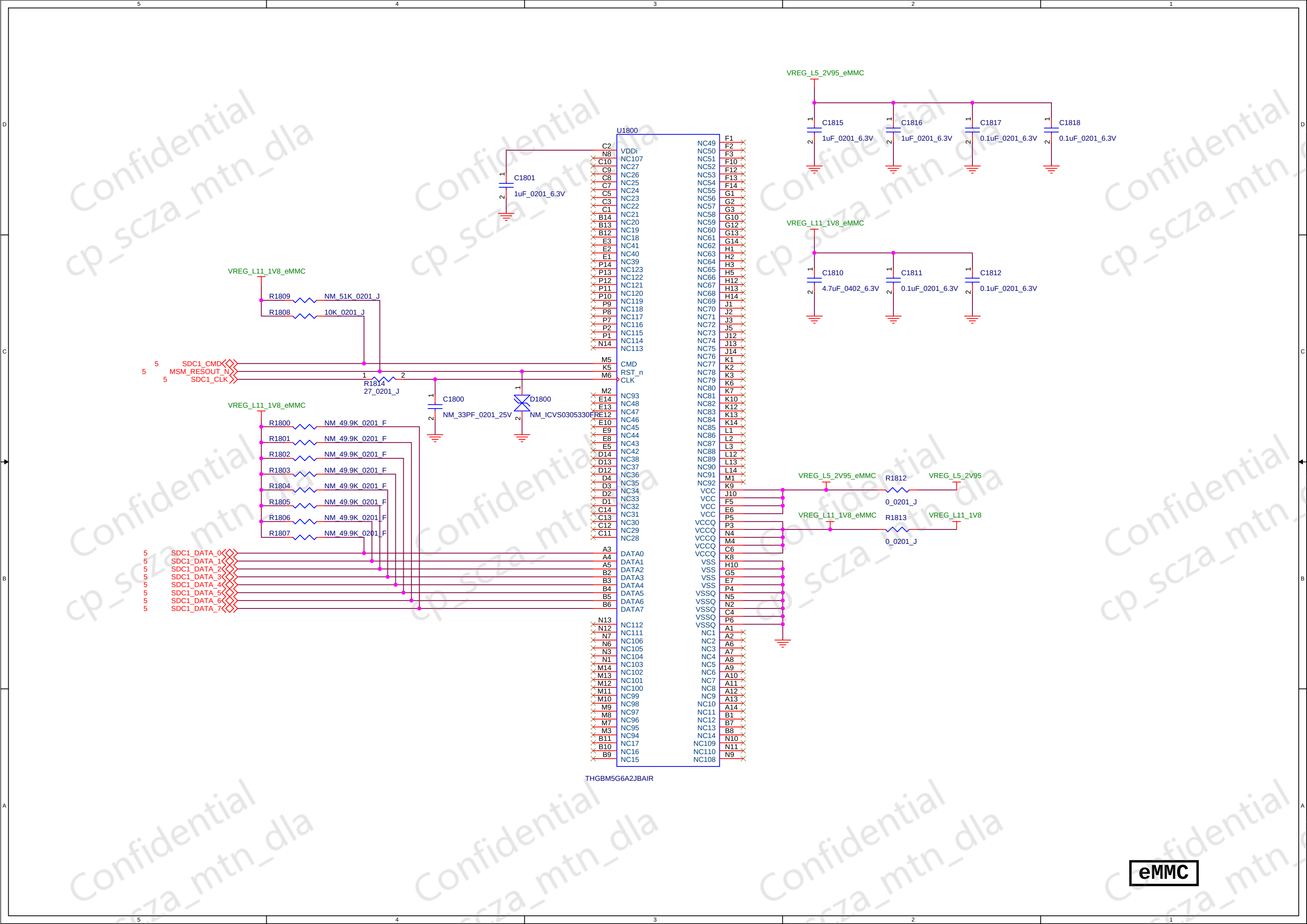


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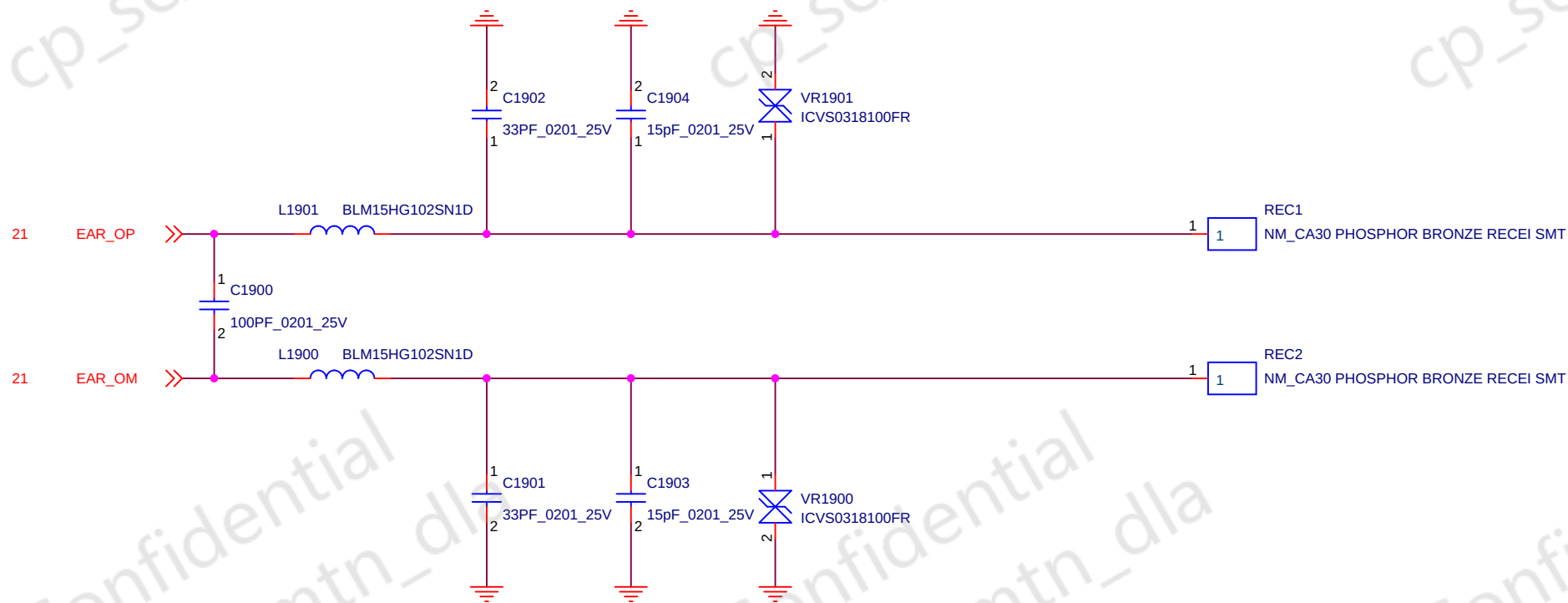


Flash LED

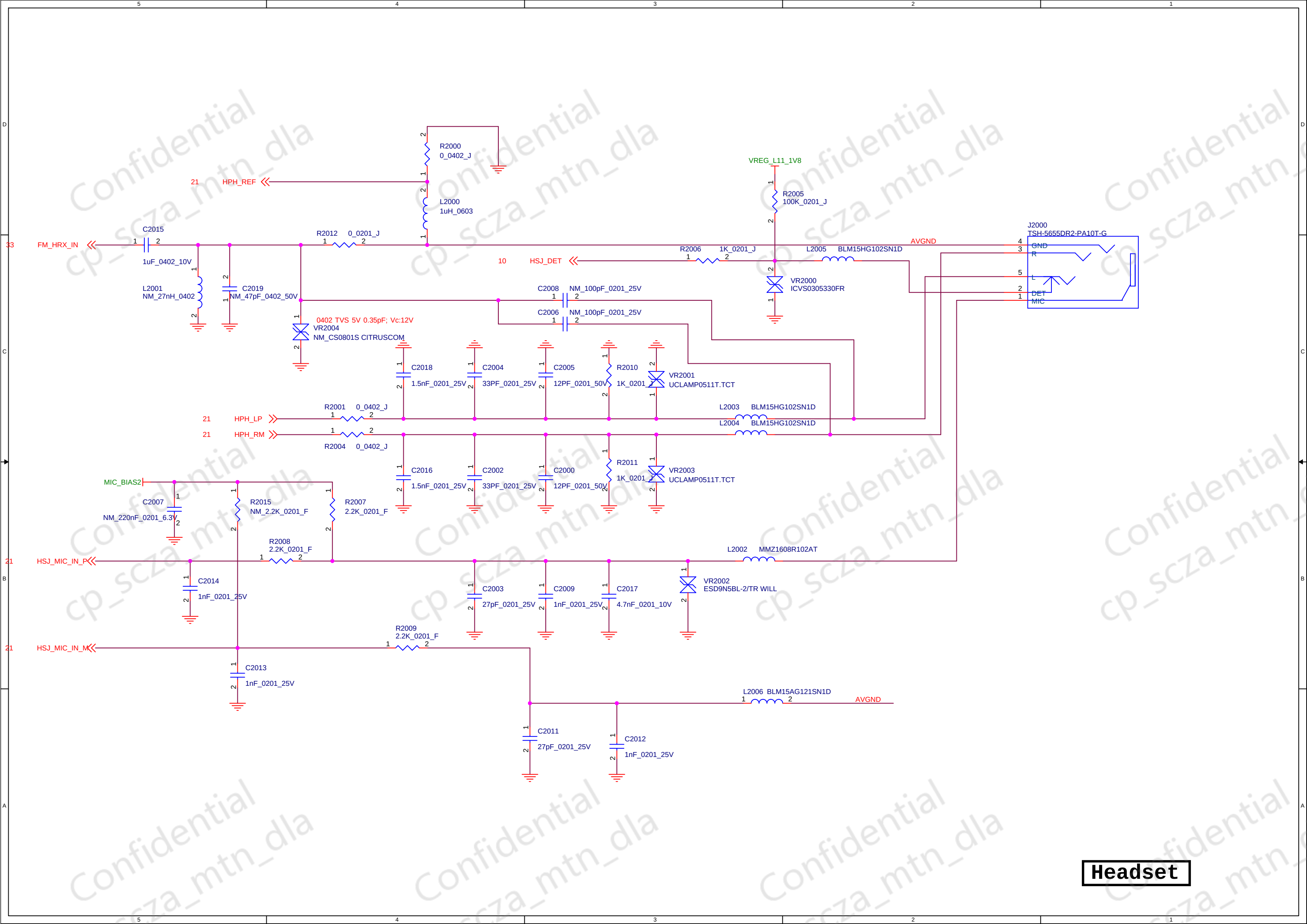




eMMC

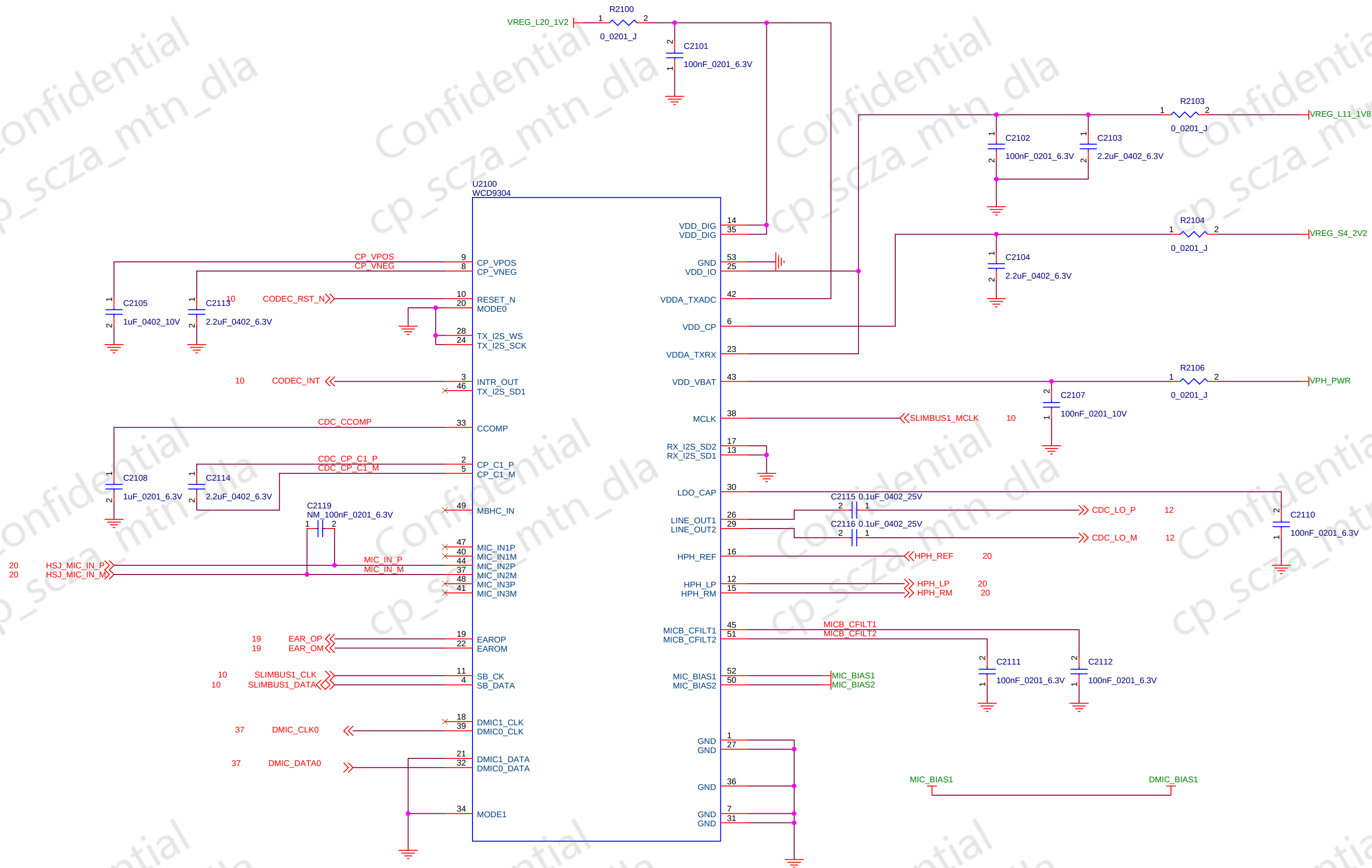


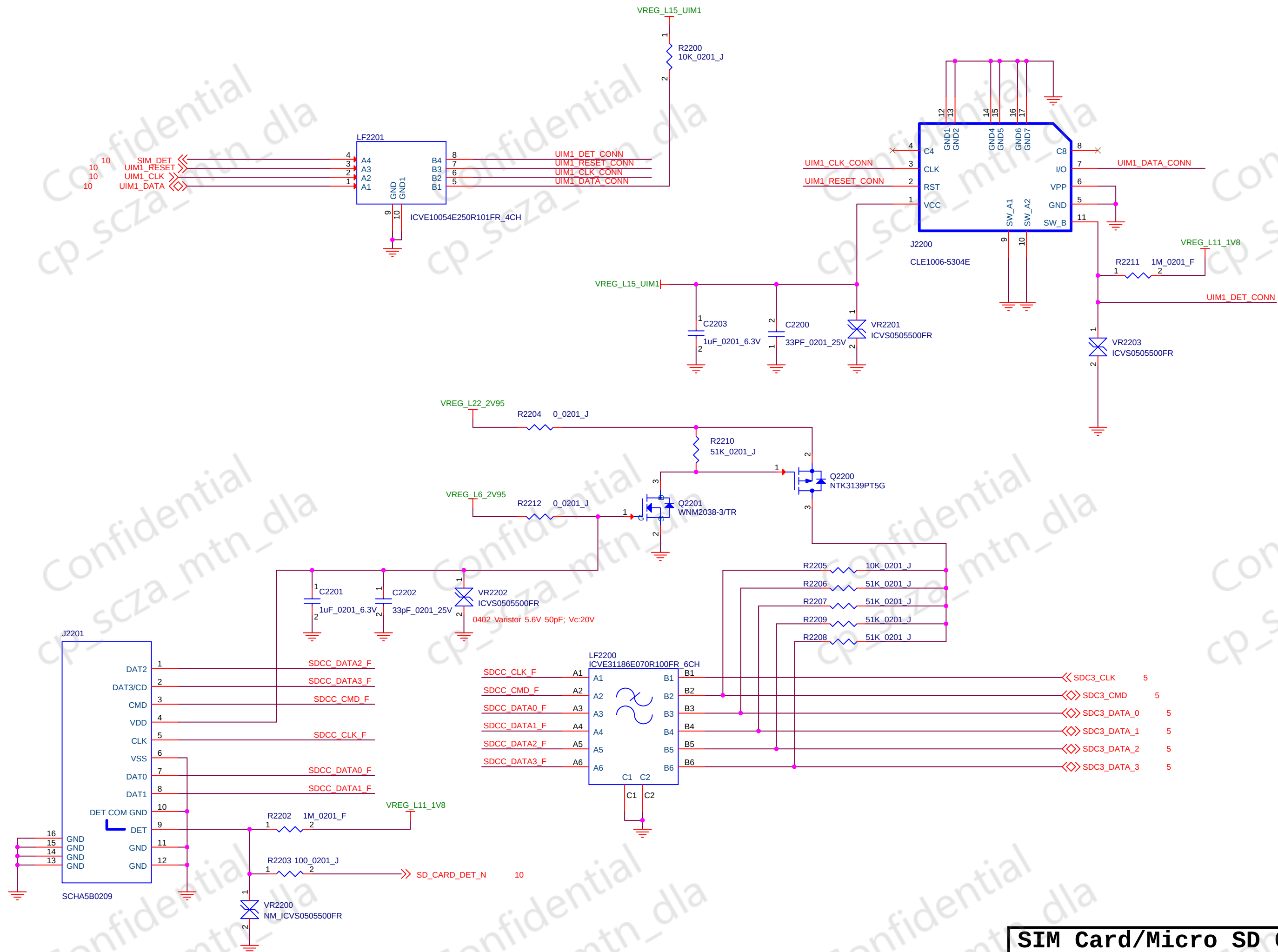
Recevier



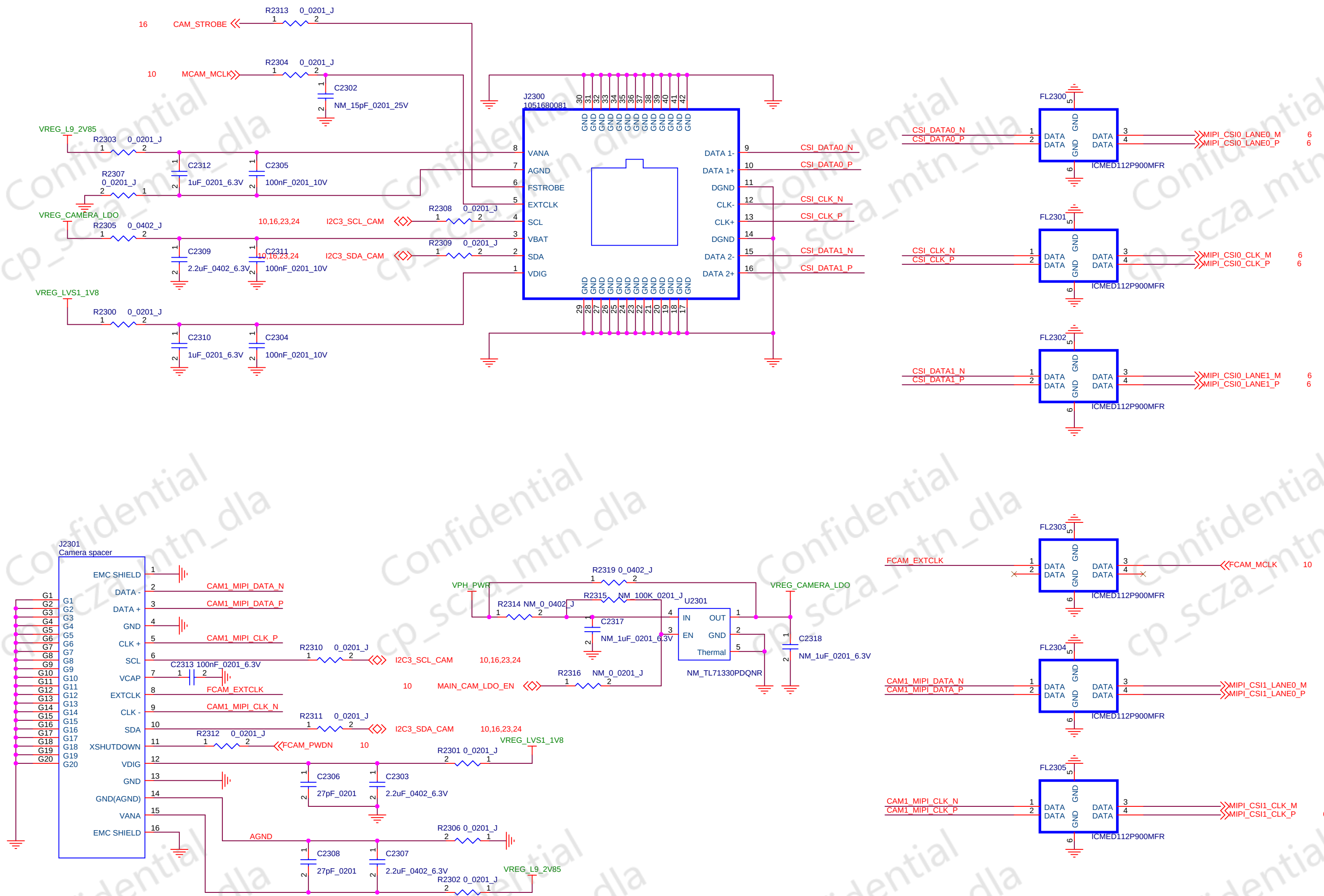
Headset

Audio Codec WCD9304

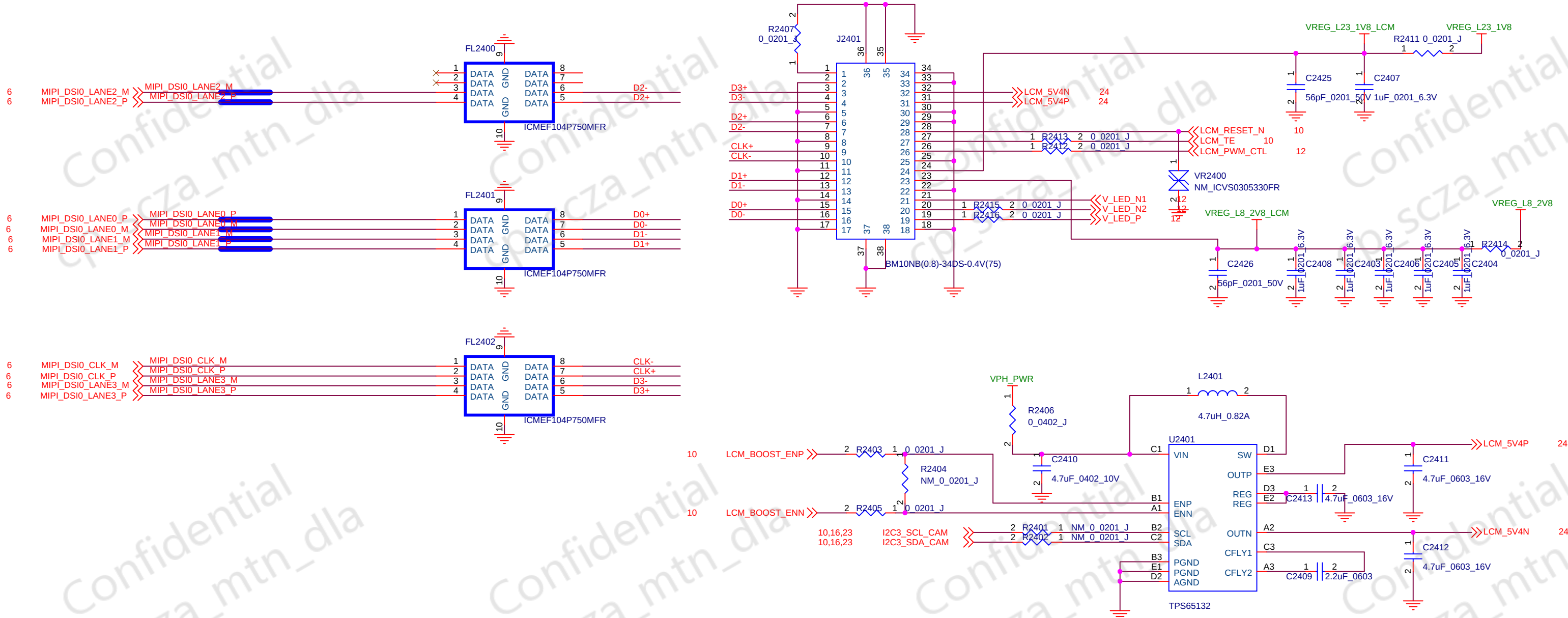




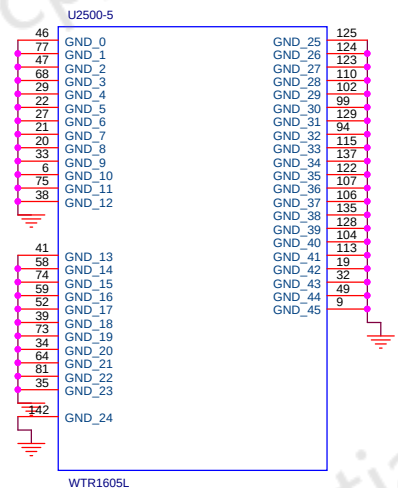
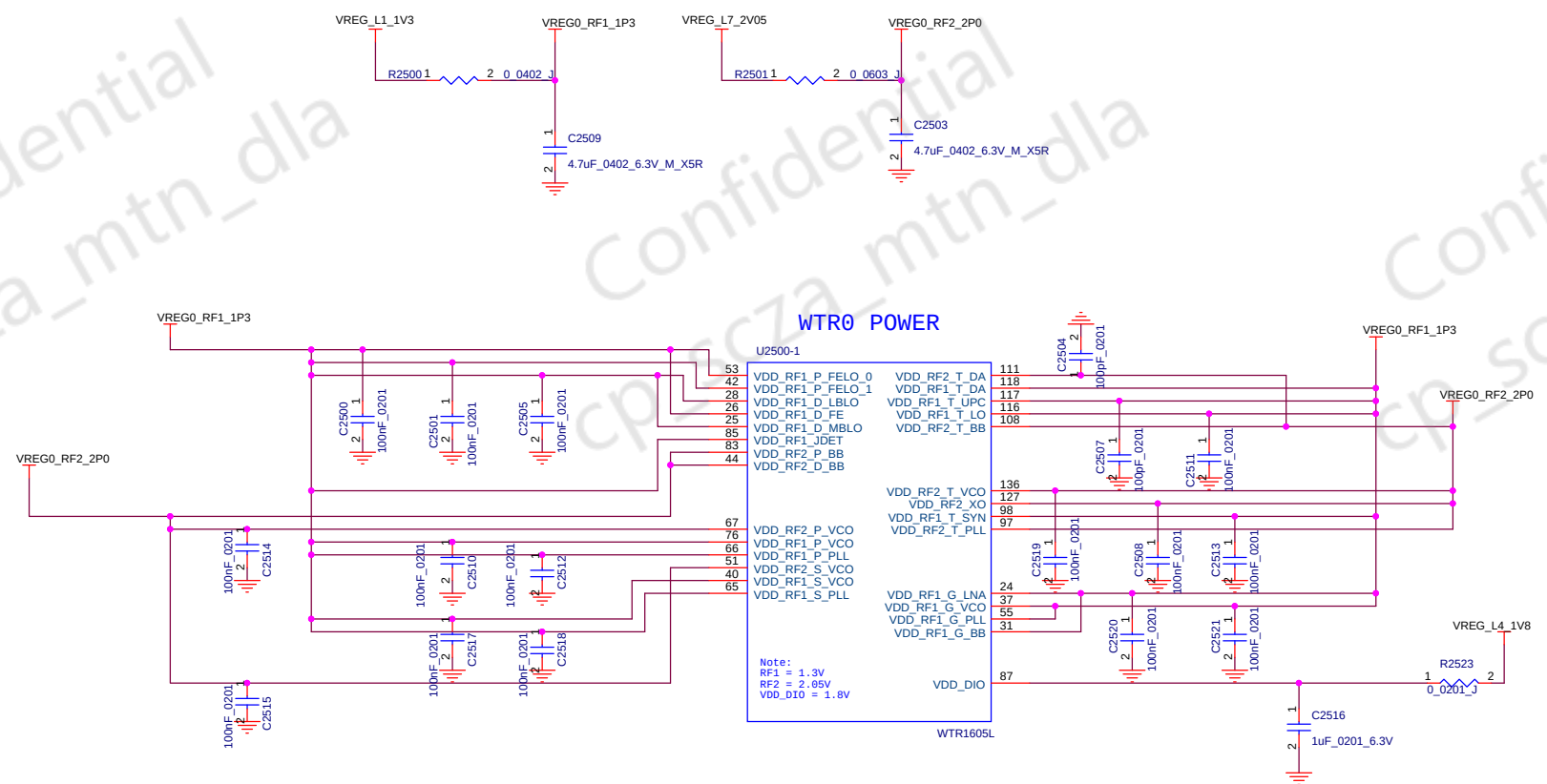
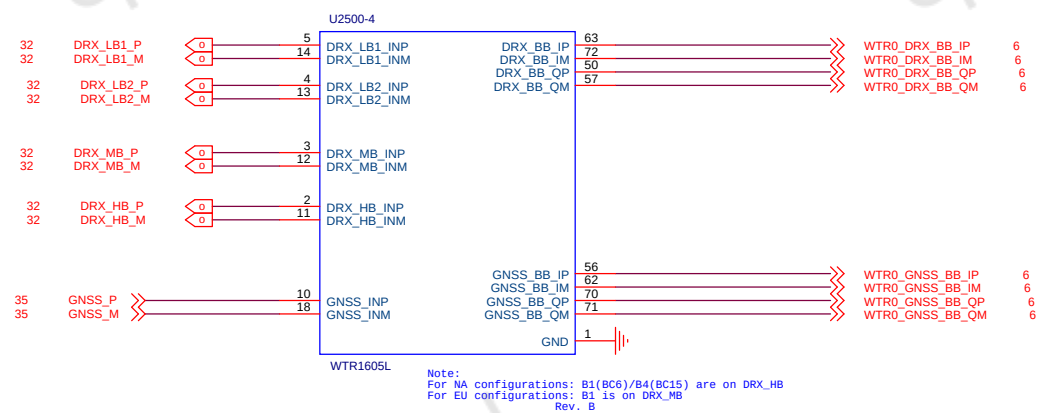
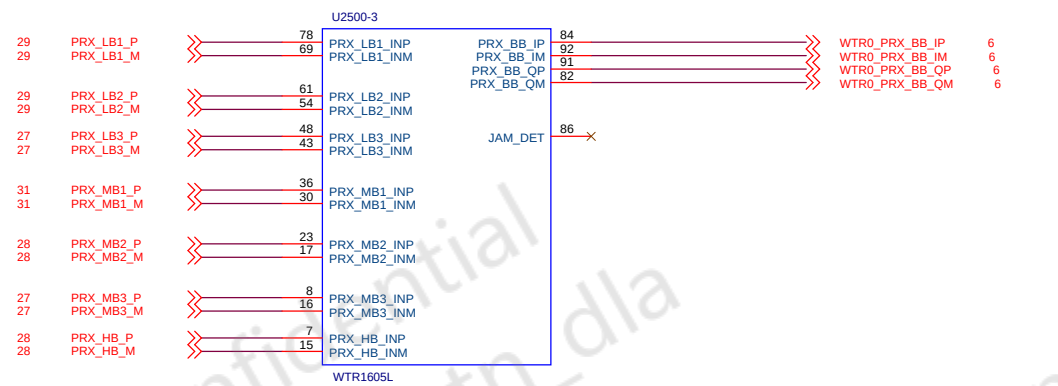
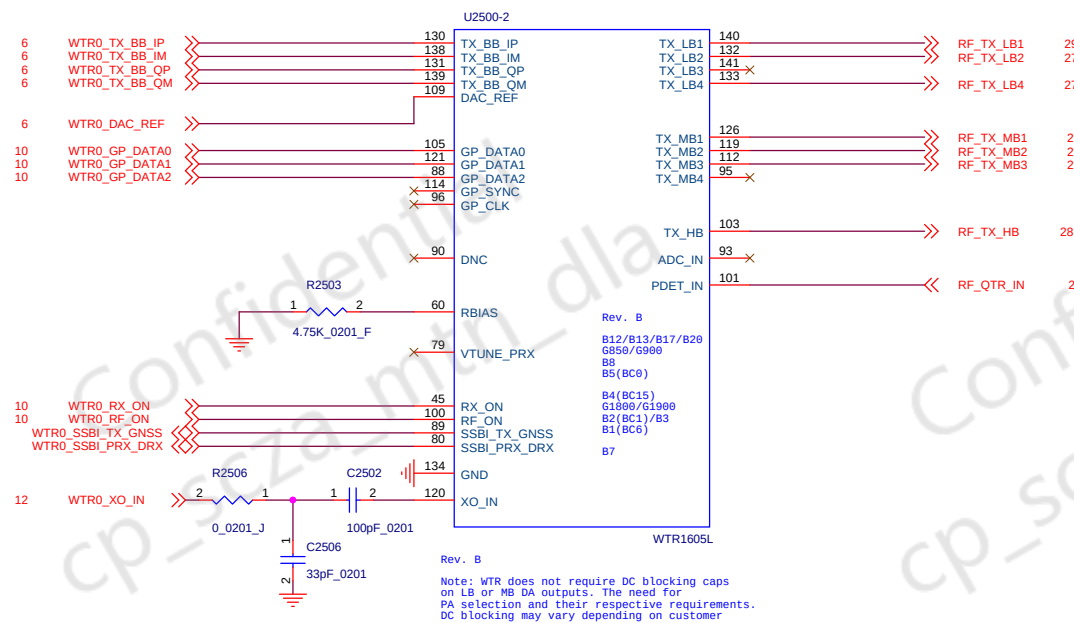
SIM Card/Micro SD Card



Camera



LCM

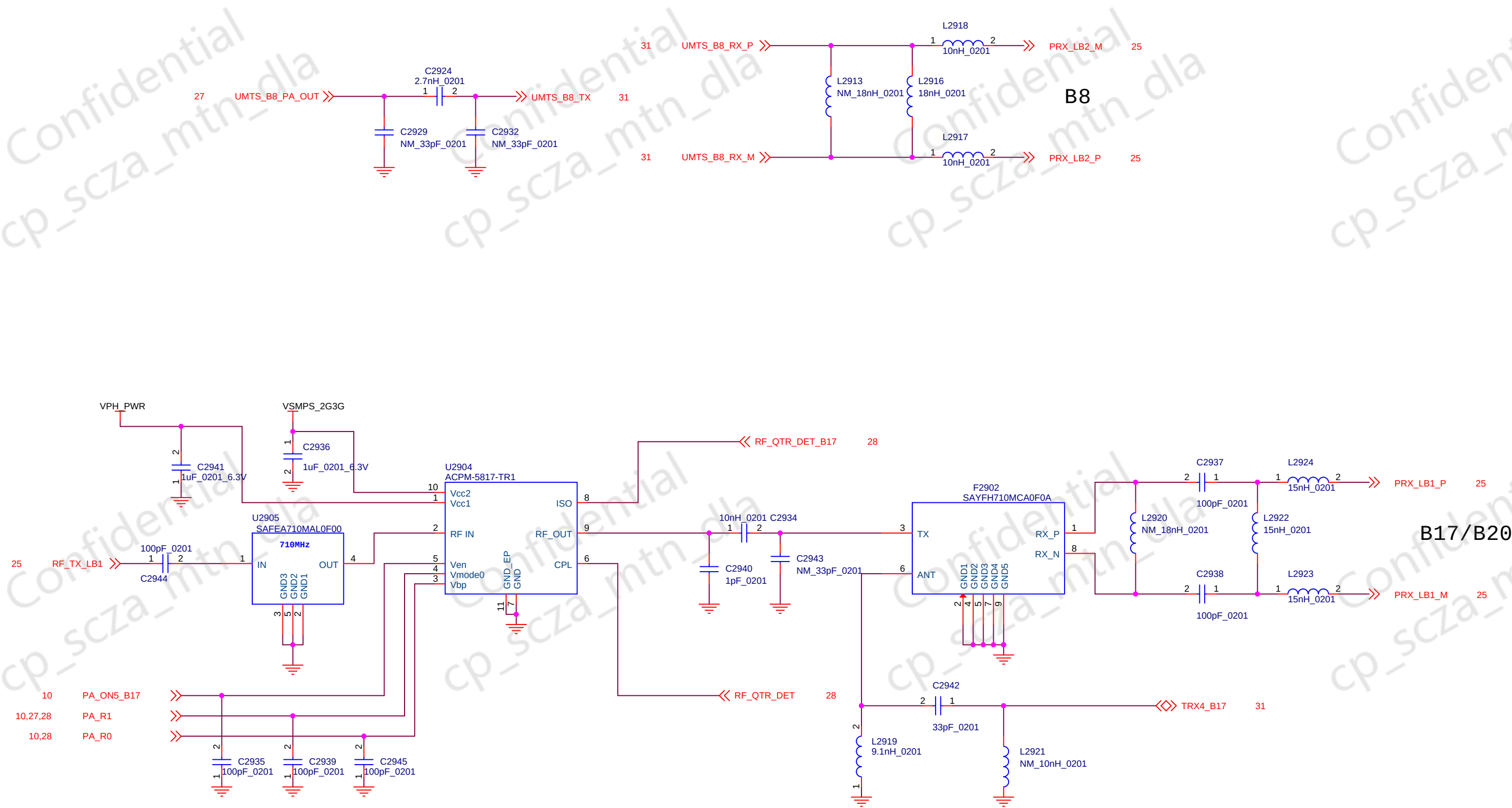


WTR0 - POWER

WTR0 POWER

Note:
RF1 = 1.3V
RF2 = 2.05V
VDD_DIO = 1.8V

RF Transceiver

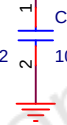
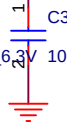
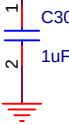
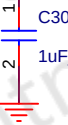
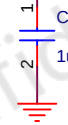


RF PA-3 (B8, B17/20)

VPH_PWR

L3002

BLM18SG260TN1

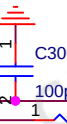


R3001

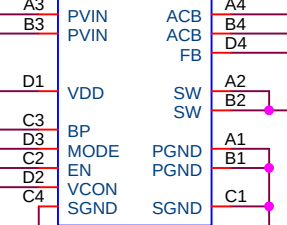
NM_0_0603_J

10 APT_MODE

10 APT_EN
10 APT_VCON



U3000 LM3243TMX



1.5uH_1.5A

L3001

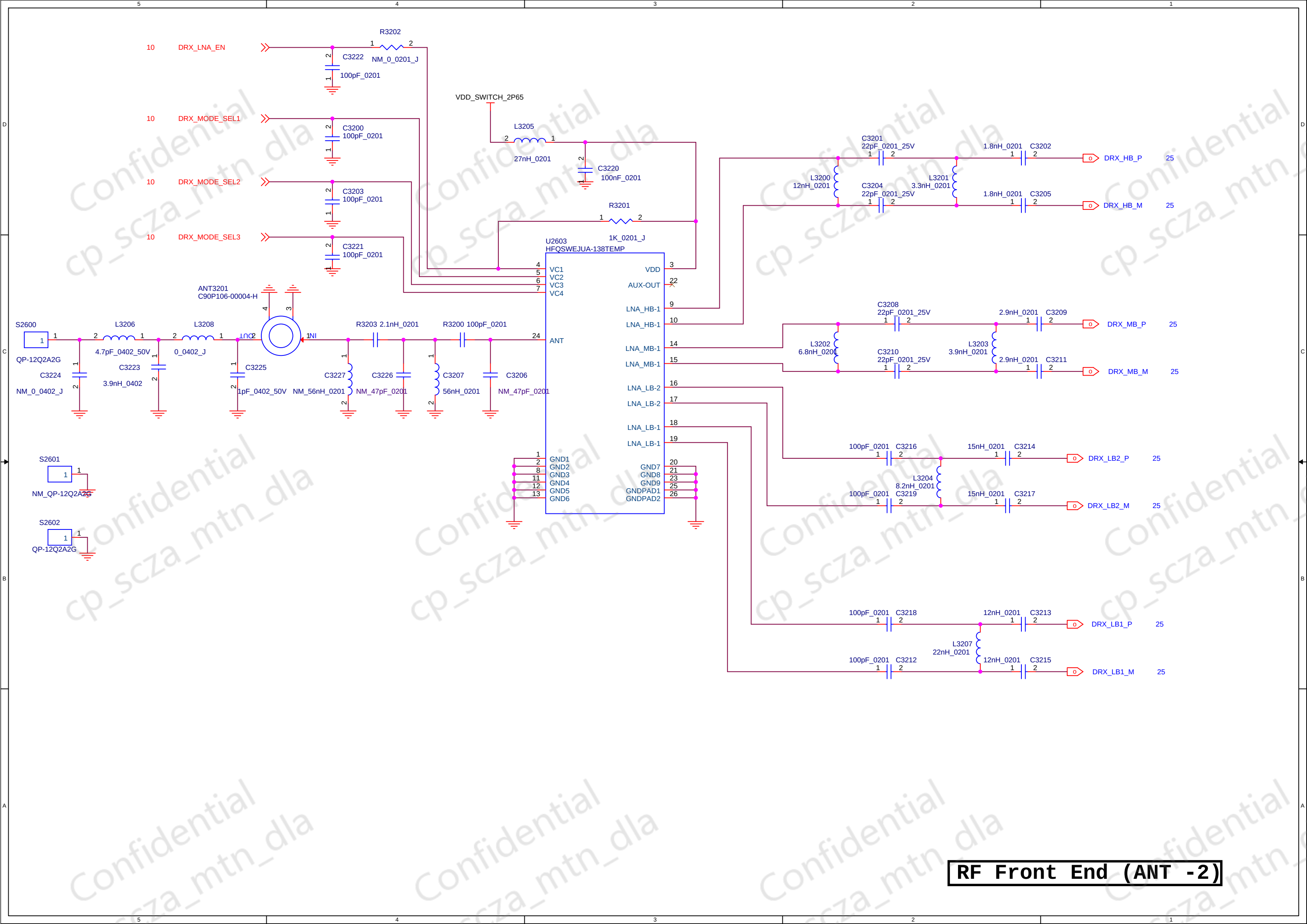
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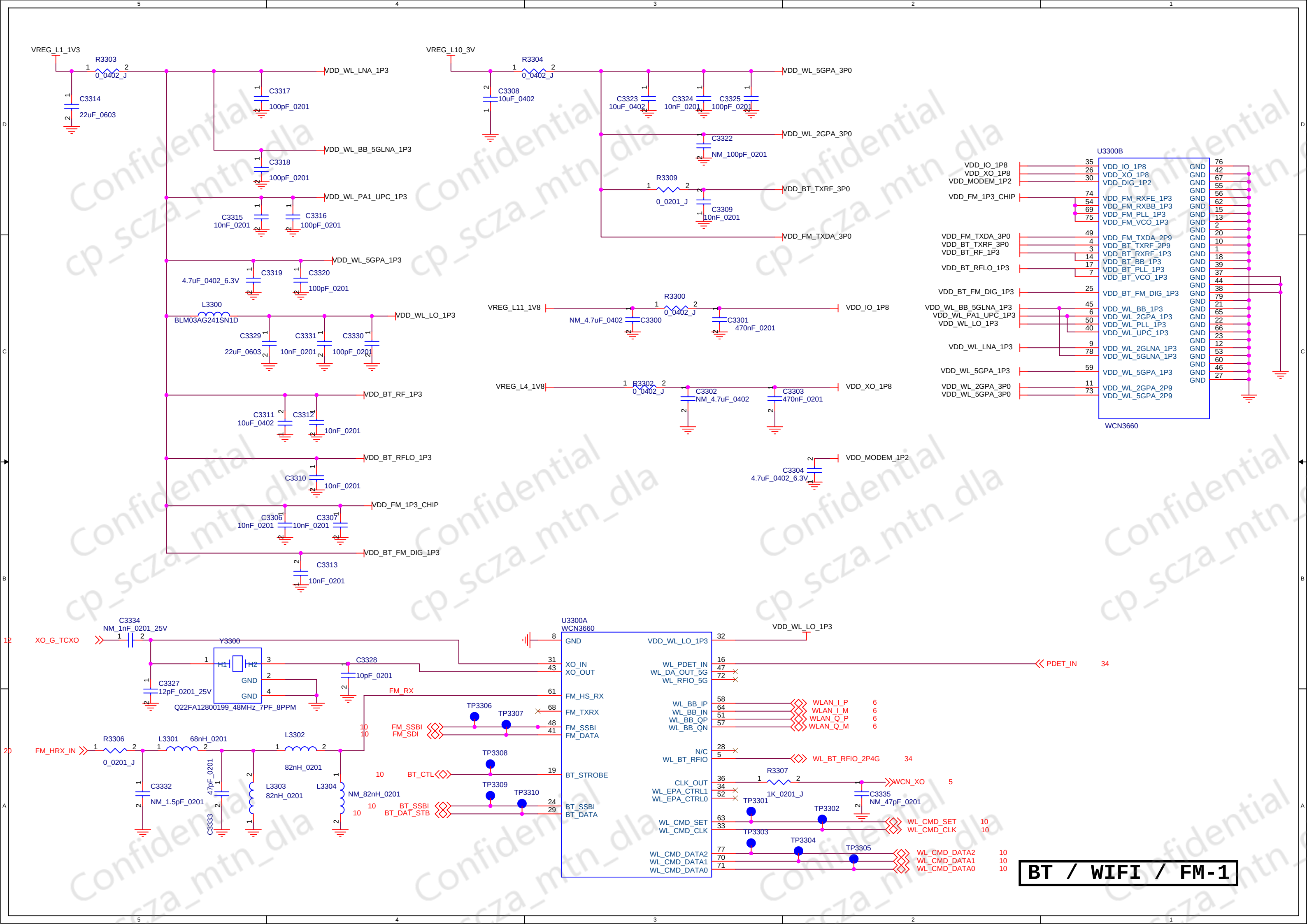
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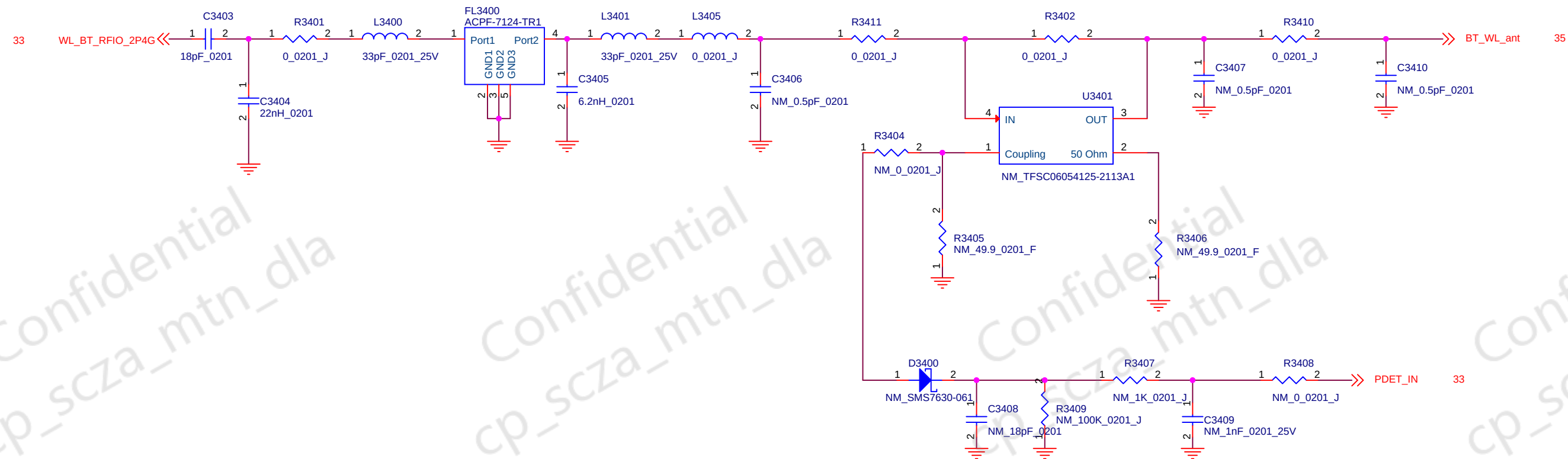
VSMPS_2G3G

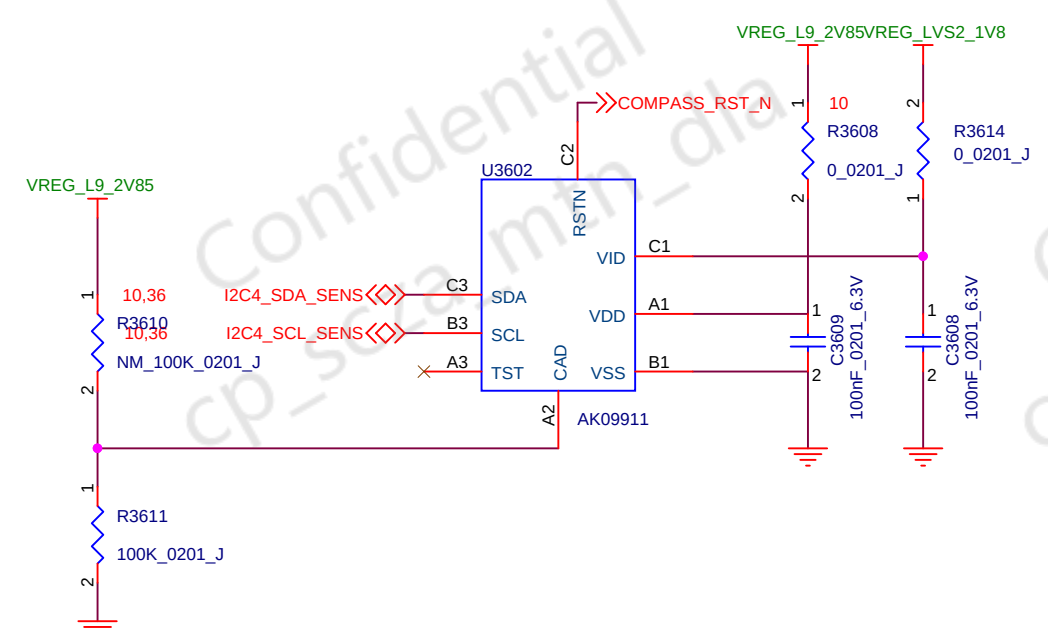
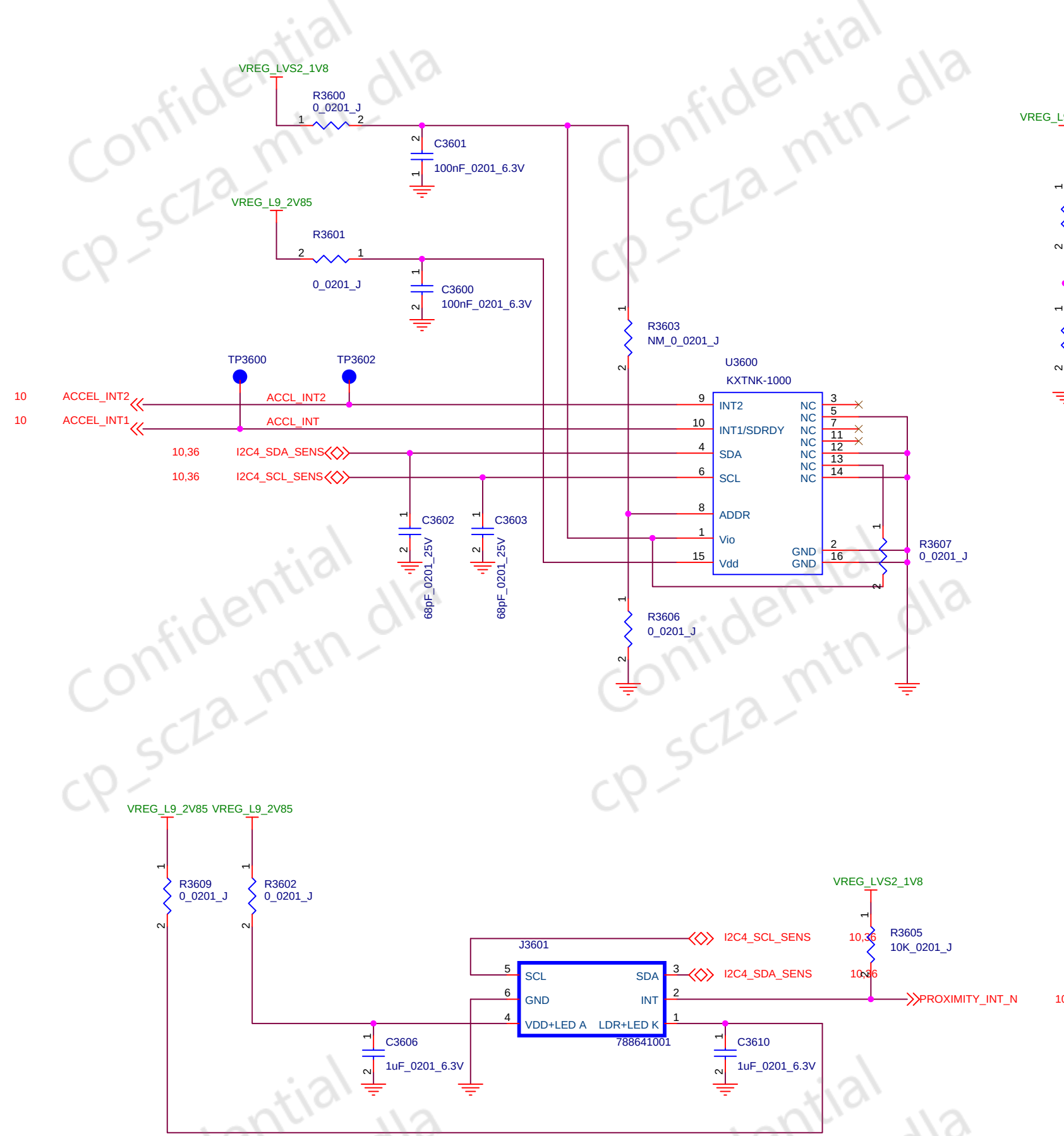


RF PA-4 (SMPS)

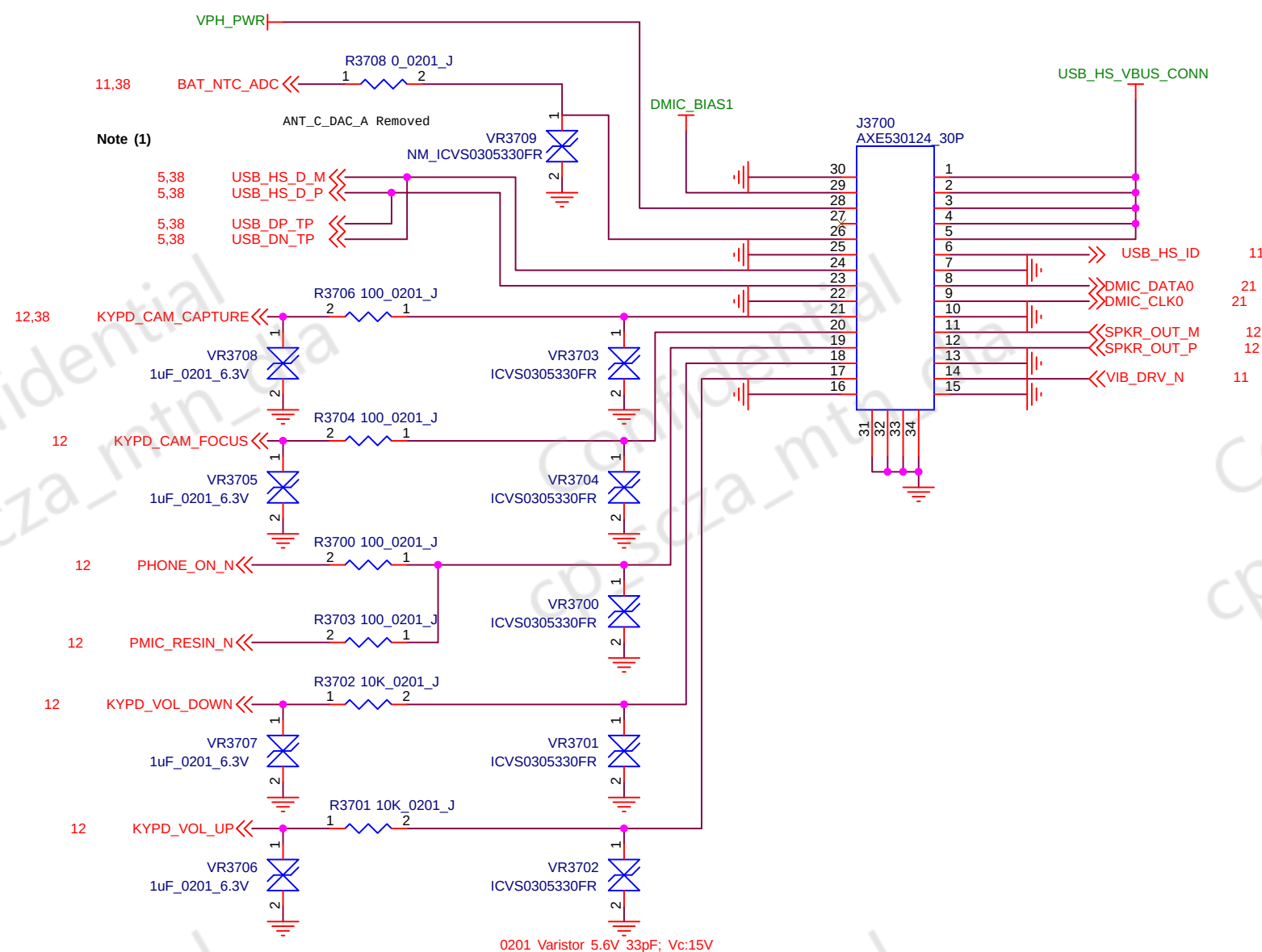






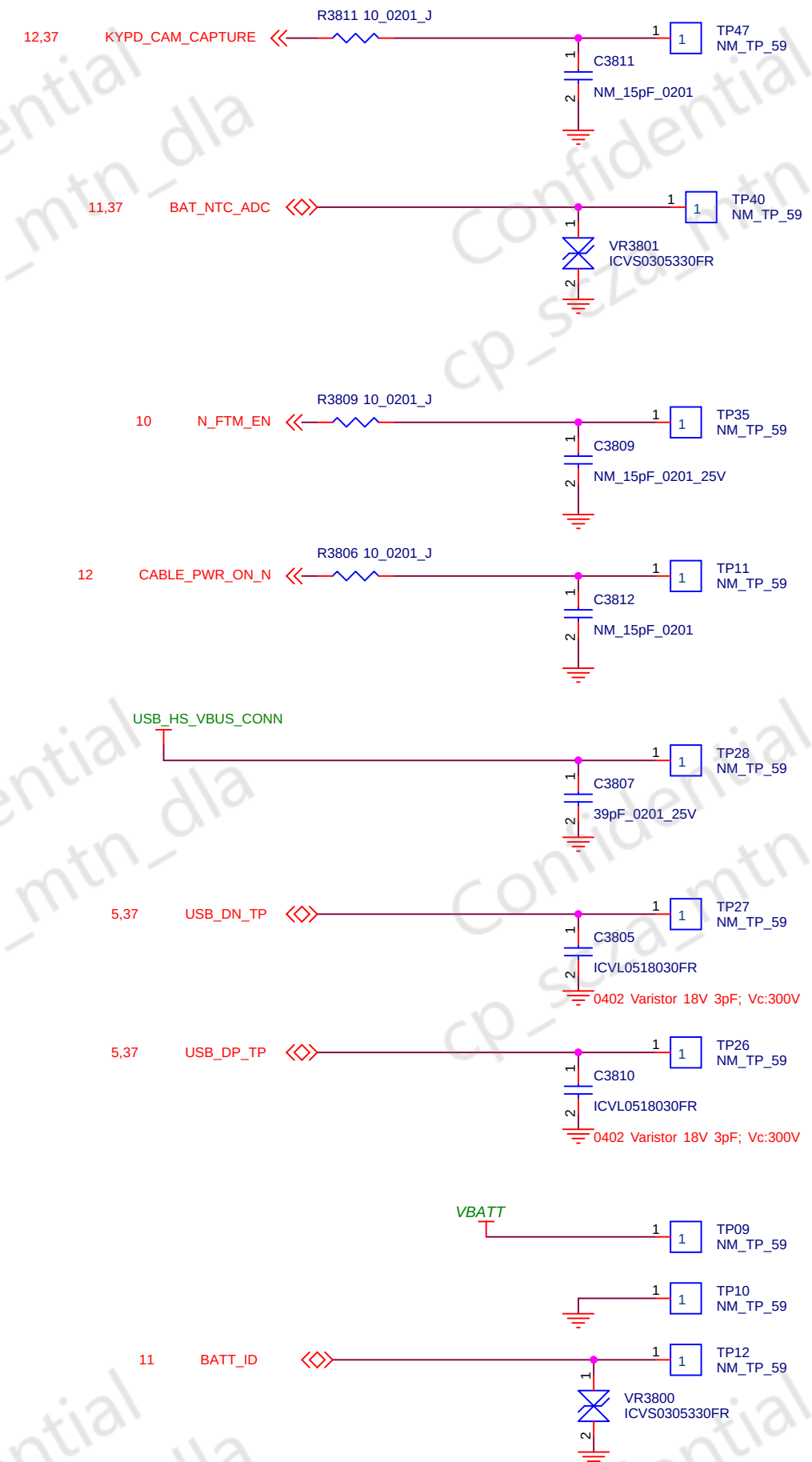
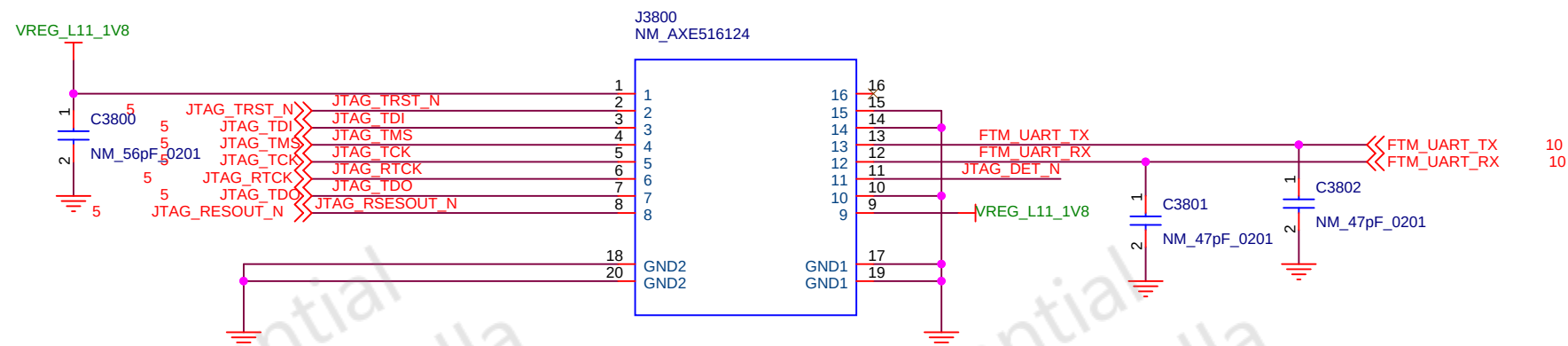
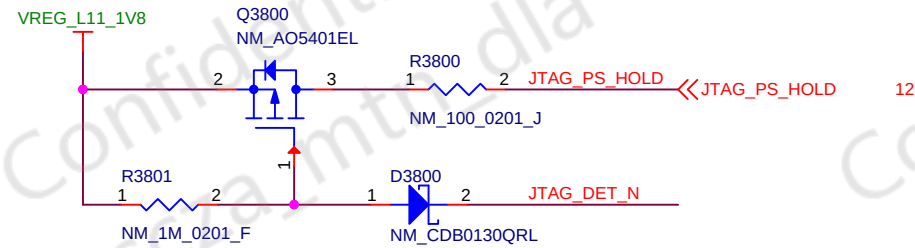


Accelerometer Sensor / P/L Sensor

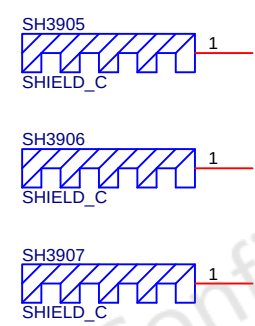
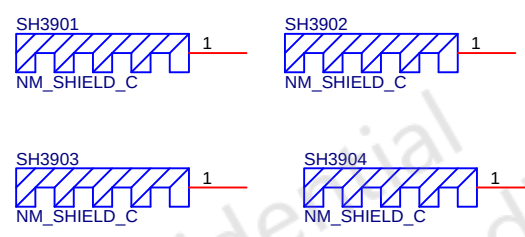
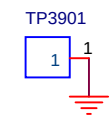
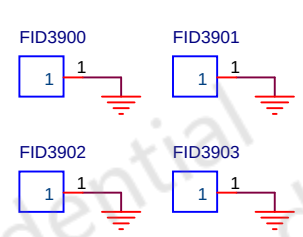
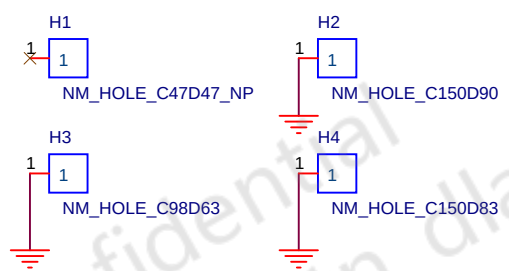


0201 Varistor 5.6V 33pF; Vc:15V

To SUB Board BTB



Debug Conn / TPs



Schematics - Sub board

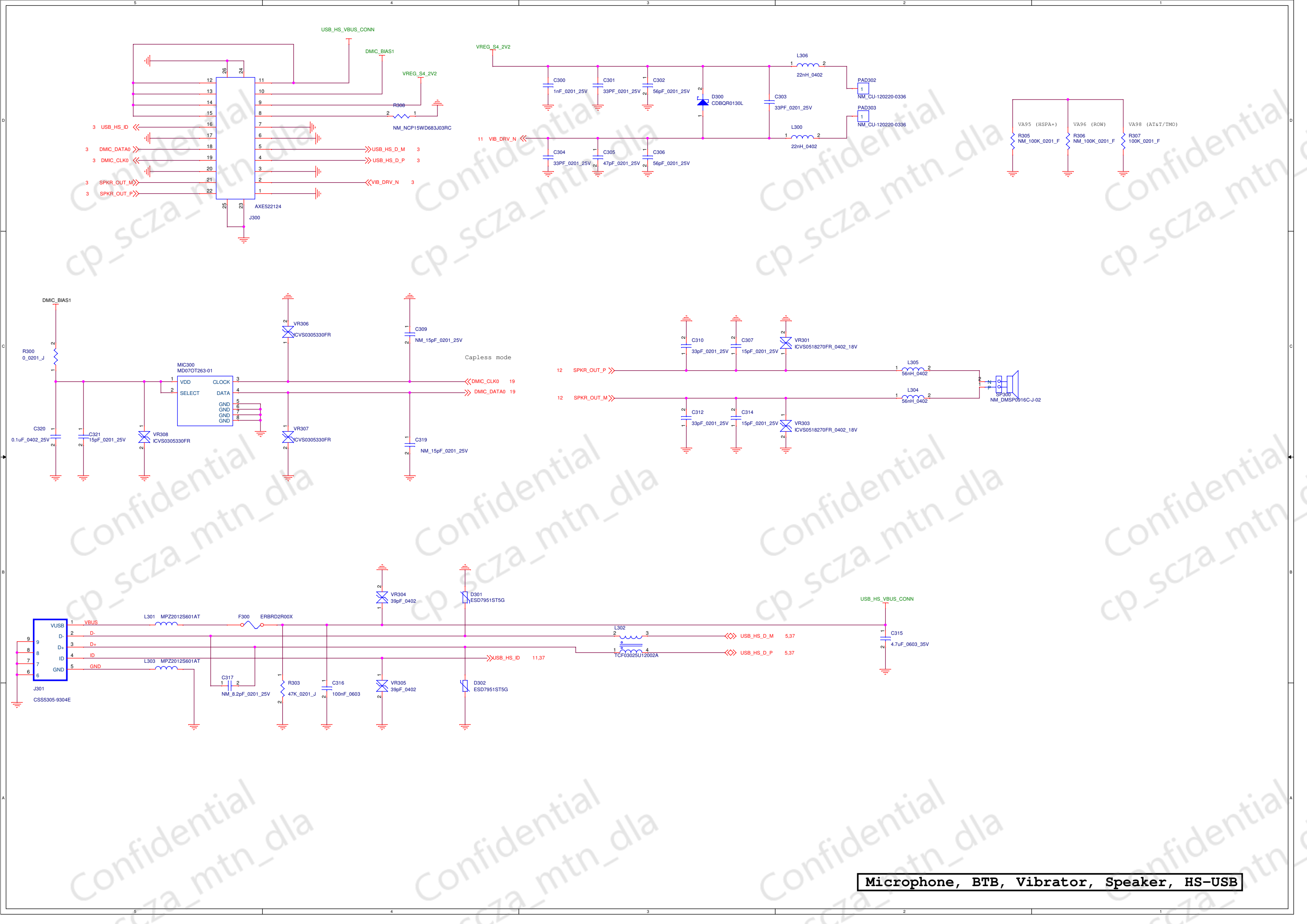
5 4 3 2 1

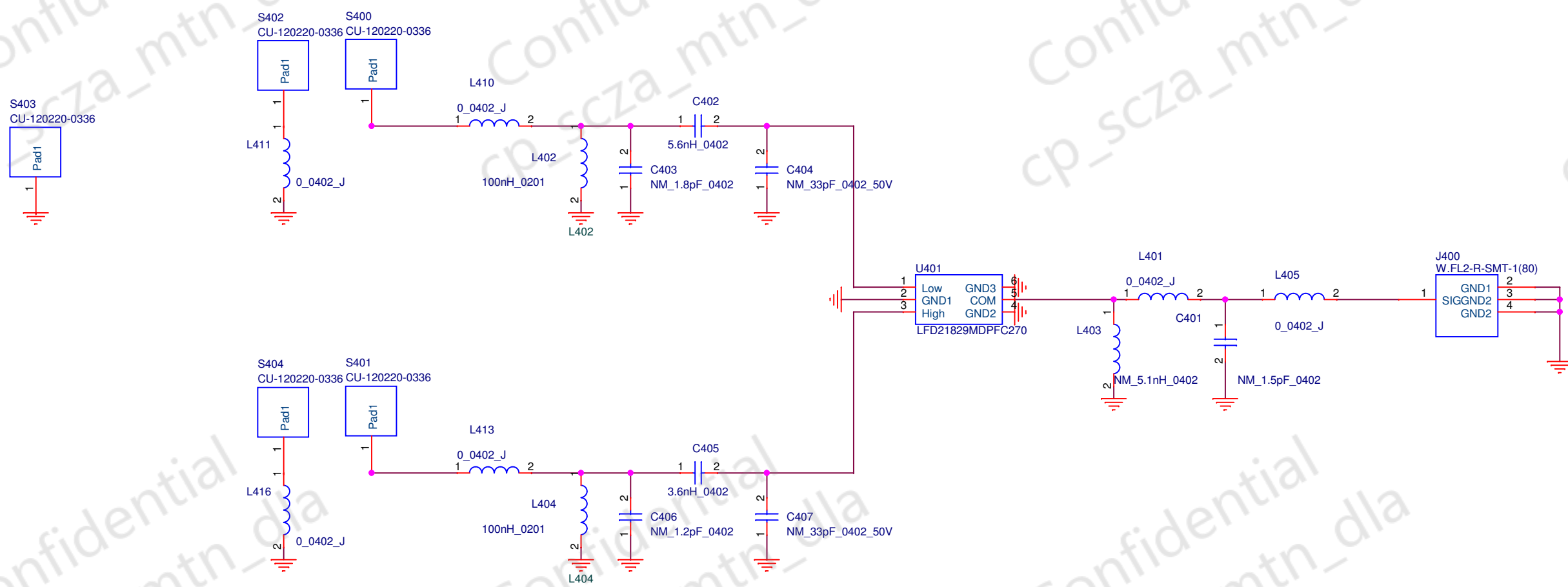
Service Schematics Sub Board
RM-995

D

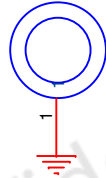
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- 1. Microphone, BTB, Vibrator, Speaker, HS-USB
 - 2. RF Front End
 - 3. Mechanical Parts Template
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-
- B
- A
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H500
NM_HOLE



FID500



FID501



FID502



FID503



SP501



SP502



SP503



SP504



SP505



SP506



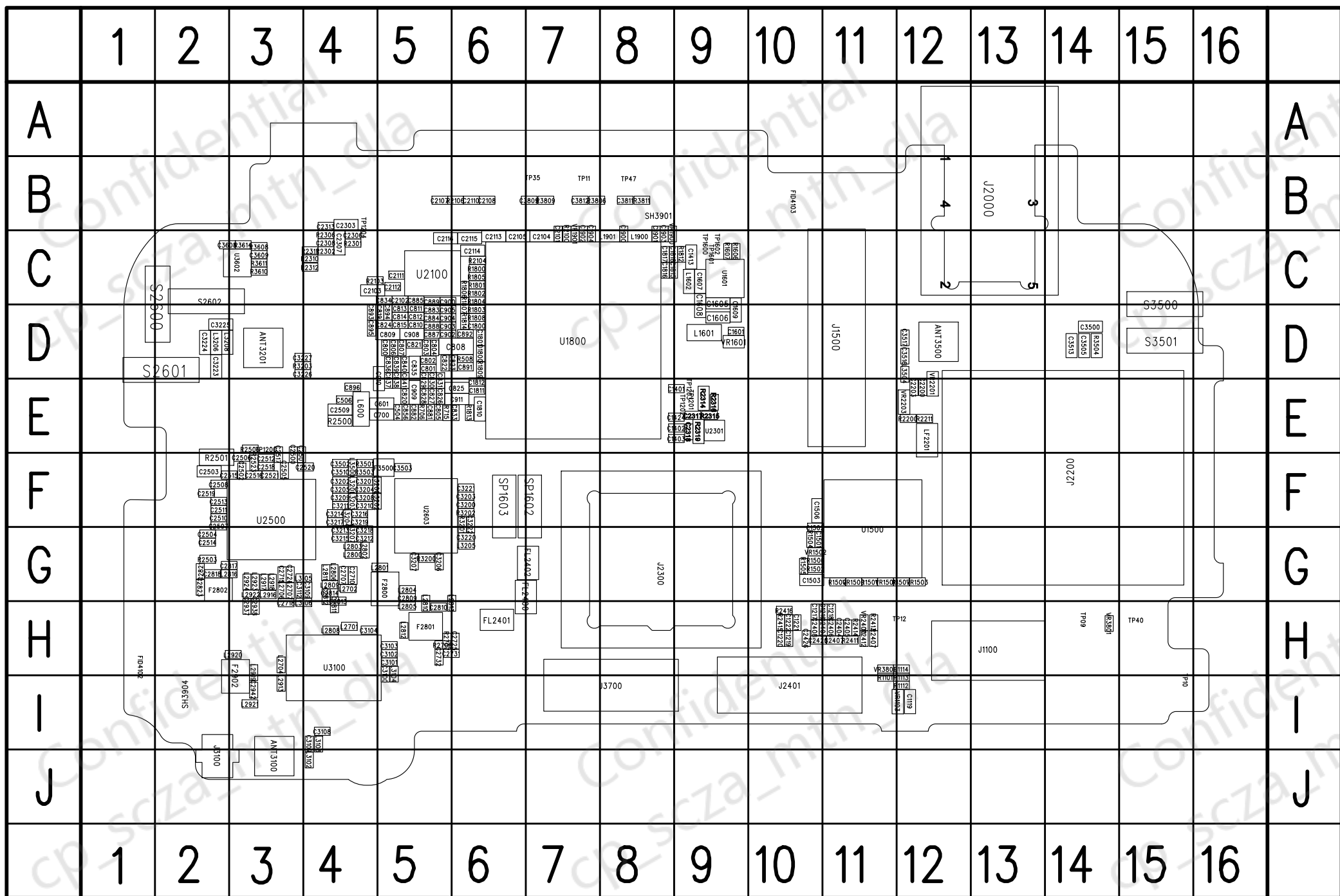
SH511



USB_BRACKET_VA66 SMD

Placements - Main Board

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
A																	A
B																	B
C																	C
D																	D
E																	E
F																	F
G																	G
H																	H
I																	I
J																	J
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	



C		C1408	F8	C2409	H7	C2826	G12	C3315	H6
C1102	E8	C1409	F8	C2410	G7	C2827	G12	C3316	H6
C1103	D7	C1410	E8	C2411	H7	C2828	G12	C3317	G6
C1104	D8	C1411	E7	C2412	H7	C2829	H12	C3318	H5
C1105	D8	C1412	C7	C2413	H7	C2830	H12	C3319	H5
C1106	E7	C1414	E8	C2700	G13	C2924	I14	C3320	H5
C1109	D7	C1415	E8	C2701	G13	C2929	H14	C3322	H6
C1111	H2	C1416	E7	C2702	G13	C2932	I14	C3323	H5
C1112	H3	C1417	E8	C2703	G14	C2934	H15	C3324	H5
C1113	C7	C1418	F9	C2704	I13	C2935	G15	C3325	H5
C1115	H3	C1419	C10	C2705	I13	C2936	H15	C3327	G6
C1117	G3	C1420	E10	C2706	I14	C2939	G15	C3328	F6
C1200	E7	C1421	D10	C2708	G14	C2940	H15	C3329	H6
C1201	E7	C1422	D10	C2709	I14	C2941	G15	C3330	G6
C1205	E9	C1423	D10	C2711	H14	C2943	I15	C3331	G6
C1206	E9	C1425	E7	C2712	G14	C2944	G15	C3332	F5
C1207	E9	C1426	E9	C2713	G13	C2945	G15	C3333	G5
C1208	E9	C2000	D4	C2714	I14	C3000	G11	C3334	F6
C1209	F7	C2002	D4	C2716	H14	C3001	H11	C3335	G5
C1210	E7	C2003	B6	C2717	I14	C3002	H11	C3403	H6
C1213	E10	C2004	D4	C2719	G14	C3003	H11	C3404	H6
C1214	E9	C2005	D4	C2720	G14	C3004	H11	C3405	I6
C1300	C9	C2006	D3	C2721	G14	C3005	H10	C3406	I6
C1301	D9	C2007	B6	C2722	G13	C3006	H10	C3407	H6
C1302	C7	C2008	D4	C2723	G13	C3007	H10	C3408	H5
C1303	C8	C2009	B6	C2726	H13	C3008	H11	C3409	H5
C1304	D8	C2011	B6	C2727	G13	C3009	H11	C3410	H5
C1305	C9	C2012	B6	C2728	G13	C3010	H11	C3501	E6
C1306	D9	C2013	B6	C2729	G13	C3011	G11	C3504	E6
C1307	D7	C2014	B6	C2730	G12	C3012	G11	C3506	E6
C1308	D7	C2015	D5	C2733	G14	C3013	G11	C3507	E5
C1309	C8	C2016	D5	C2734	G14	C3300	G5	C3508	E5
C1310	D8	C2017	B6	C2735	I14	C3301	G5	C3509	E5
C1311	D10	C2018	D5	C2736	I14	C3302	G6	C3511	E5
C1312	D9	C2019	D6	C2737	H14	C3303	G6	C3512	E6
C1313	E9	C2119	B6	C2738	H13	C3304	G6	C3514	F6
C1314	D10	C2201	E4	C2739	I13	C3306	G5	C3515	F9
C1315	D7	C2202	E4	C2740	I13	C3307	G5	C3518	E5
C1316	E8	C2302	G7	C2815	H12	C3308	H6	C3519	E5
C1317	E8	C2304	F7	C2816	H12	C3309	H6	C3600	E15
C1400	D10	C2305	H8	C2819	H14	C3310	G6	C3601	F14
C1404	E10	C2309	G7	C2820	I14	C3311	G6	C3602	F14
C1405	E8	C2310	F7	C2822	H14	C3312	G6	C3603	F14
C1406	E7	C2311	F8	C2824	H12	C3313	G6	C3606	B12
C1407	F10	C2312	G8	C2825	G12	C3314	G5	C3610	B12

Top Side Placement Index

C3800	D15	C870	F12	L1302	C9	Q2200	C6	R2006	C6
C3801	E15	C871	C11	L1303	C8	Q2201	D6	R2007	B6
C3802	E15	C872	D11	L1304	D10	Q3800	D14	R2008	B6
C3805	H9	C873	C11	L1305	D10	R		R2009	B6
C3807	I8	C874	C13	L2000	C5	R1000	C11	R2010	D4
C3810	H9	C875	D13	L2001	D6	R1001	C11	R2011	D4
C500	F12	C876	D14	L2002	B6	R1002	E11	R2012	C5
C501	F13	C877	D14	L2003	D4	R1003	E11	R2015	B6
C502	D14	C878	D14	L2004	D4	R1004	F10	R2202	D4
C503	D14	C879	D14	L2005	C6	R1005	C11	R2203	D4
C505	C12	C880	D14	L2006	B5	R1006	C11	R2204	D6
C507	C12	C886	C12	L2401	G7	R1010	E11	R2205	C6
C600	D11	C890	C12	L2700	G14	R1011	E11	R2206	C6
C702	F11	C897	F13	L2703	G14	R1012	C11	R2207	C6
C816	D11	C898	F13	L2705	G15	R1013	C11	R2208	C6
C817	F13	C899	F12	L2708	H13	R1014	E10	R2209	C6
C818	E14	C901	C11	L2709	I13	R1015	C11	R2210	D6
C832	D14	C906	C11	L2712	H13	R1016	C11	R2212	D6
C842	D11	C907	C11	L2713	I13	R1018	E11	R2300	F7
C843	C14	D		L2714	G13	R1019	E11	R2303	G8
C844	F11	D1101	E6	L2715	G13	R1024	C14	R2304	G7
C845	C13	D1200	E10	L2716	G13	R1025	C14	R2305	G8
C846	E13	D2701	G14	L2717	G13	R1029	C14	R2307	H8
C847	F13	D3400	I5	L2718	G14	R1030	C14	R2308	F7
C848	F12	D3800	E15	L2719	G14	R1031	C14	R2309	F7
C849	C12	F		L2720	G13	R1100	C7	R2313	G8
C850	F13	F3501	E5	L2807	I14	R1102	I3	R2401	G7
C851	C13	FL2300	G10	L2814	H12	R1104	I3	R2402	G7
C852	E14	FL2301	G10	L2815	H12	R1105	I4	R2403	F7
C853	F13	FL2302	F10	L3001	H10	R1106	E7	R2404	G7
C854	F11	FL2303	D14	L3002	H11	R1110	I3	R2405	F7
C855	E11	FL2304	C14	L3003	H10	R1111	H2	R2406	G7
C857	F11	FL2305	C14	L3300	H6	R1201	E7	R2701	I13
C858	F12	FL3400	H6	L3301	G5	R1205	C7	R2702	I13
C859	F13	J		L3302	G5	R1207	C11	R2703	H13
C860	D14	J2201	F4	L3303	G5	R1208	F9	R2704	G13
C861	C13	J2301	B14	L3304	G5	R1210	F9	R2705	G13
C862	C12	J3601	B11	L3400	H6	R1401	C7	R2706	G14
C863	F11	J3800	E14	L3401	I6	R1402	C7	R2802	H14
C864	F12	L		L3405	I6	R1914	E9	R2803	H14
C865	E13	L1100	D7	L3501	F5	R1915	E9	R2804	H14
C866	F13	L1200	E10	L3502	E6	R2000	C6	R3001	H11
C867	C14	L1201	F10	LF2200	C6	R2001	D5	R3002	H11
C868	C14	L1300	C9	Q		R1000	D5	R3300	G5
C869	C13	L1301	C8	Q1100	H3	R1001	C6	R3302	G6

Top Side Placement Index

R3303	G6	R707	D11	Y	
R3304	H6	R708	D11	Y1201	E7
R3306	F5	R709	F11	Y3300	F6
R3307	G5	R711	C14		
R3309	G6	R712	D11		
R3401	H6	R717	E7		
R3402	I5	R718	E11		
R3404	I5	U			
R3405	I5	U1100	D8		
R3406	I6	U2401	H7		
R3407	H5	U2700	H14		
R3408	H5	U2701	G14		
R3409	I5	U2702	G14		
R3410	H5	U2800	G12		
R3411	I6	U2904	H15		
R3500	F6	U2905	G15		
R3502	E5	U3000	H11		
R3505	E5	U3300	G5		
R3508	F9	U3401	I6		
R3600	E14	U3500	E5		
R3601	E15	U3502	E5		
R3602	B12	U3600	F15		
R3603	F15	U500	D12		
R3605	C10	V			
R3606	F15	VR1102	H3		
R3607	F14	VR1200	E10		
R3609	B12	VR2000	C6		
R3700	H9	VR2001	D4		
R3701	H8	VR2002	B6		
R3702	H8	VR2003	D4		
R3703	H9	VR2004	D3		
R3704	H9	VR2200	E4		
R3706	H9	VR2202	F4		
R3708	H8	VR3700	H9		
R3800	D14	VR3701	H8		
R3801	D15	VR3702	H8		
R500	E11	VR3703	H9		
R501	E11	VR3704	H9		
R505	C12	VR3705	H9		
R506	C13	VR3706	H8		
R507	C13	VR3707	H9		
R509	F11	VR3708	H9		
R600	D11	VR3709	H8		
R701	C11	X			
R703	F11	X500	F12		

Top Side Placement Index

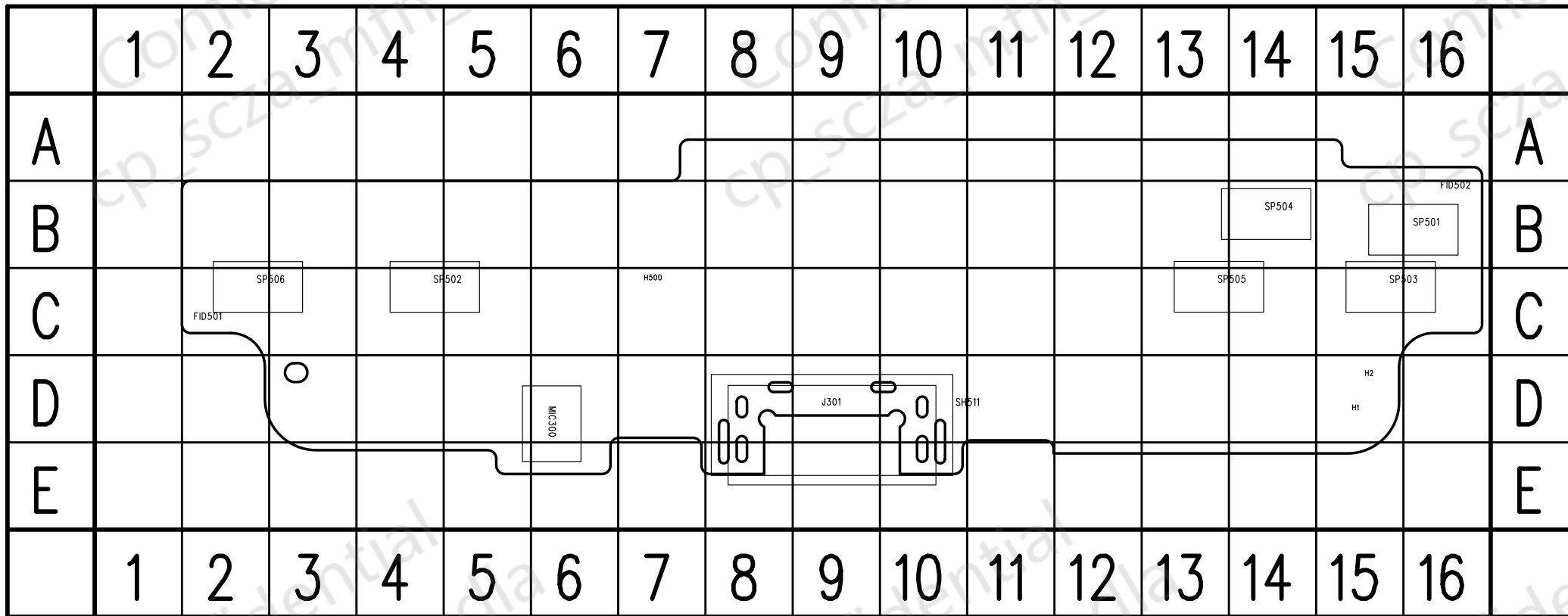
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ANT3100	J3	C2105	C6	C2518	F3	C3211	F4	C811	D5
ANT3201	D3	C2107	B5	C2519	F2	C3212	G4	C812	D5
ANT3500	D12	C2108	B6	C2520	F4	C3213	G4	C813	D5
C		C2110	B6	C2521	F3	C3214	F4	C814	D5
C1119	I12	C2111	C5	C2707	G4	C3215	G4	C815	D5
C1216	H11	C2112	C5	C2710	G4	C3216	F4	C819	D5
C1217	H10	C2113	C6	C2715	G3	C3217	F4	C820	E5
C1218	H11	C2114	C6	C2718	H3	C3218	G4	C821	D5
C1219	H10	C2115	C6	C2724	G3	C3219	F4	C822	D5
C1220	H10	C2116	C5	C2725	H6	C3220	G6	C823	D6
C1221	H10	C2200	E12	C2731	H5	C3221	F6	C824	D5
C1222	H10	C2203	E12	C2732	H5	C3222	F6	C825	E6
C1401	E9	C2303	B4	C2809	G5	C3223	D2	C826	E5
C1402	E9	C2306	C4	C2810	H5	C3224	D2	C827	E5
C1403	E9	C2307	C4	C2811	H4	C3225	D2	C828	E5
C1413	C9	C2308	C4	C2812	G4	C3226	D3	C829	E5
C1424	E9	C2313	B4	C2813	H4	C3227	D3	C830	E5
C1501	G10	C2317	E9	C2814	G4	C3500	D14	C831	E5
C1502	G10	C2318	E9	C2817	G3	C3502	F4	C833	E6
C1503	G10	C2403	H11	C2818	G2	C3503	F5	C834	C5
C1506	F10	C2404	H11	C2821	G2	C3505	D14	C835	D5
C1601	D9	C2405	H11	C2823	G2	C3510	F4	C836	D5
C1605	C9	C2406	H11	C2937	H3	C3513	D14	C837	E5
C1606	D9	C2407	H11	C2938	H3	C3516	D12	C838	E5
C1607	C9	C2408	H10	C2942	I3	C3517	D12	C839	D5
C1608	D9	C2425	H10	C3100	H5	C3608	C2	C840	D5
C1609	D9	C2426	H10	C3101	H5	C3609	C3	C841	E5
C1800	D6	C2500	F3	C3102	H5	C3809	B7	C856	E5
C1801	D6	C2501	F3	C3103	H5	C3811	B8	C881	E5
C1810	E6	C2502	F3	C3104	H4	C3812	B7	C882	E5
C1811	E6	C2503	F2	C3107	I4	C504	E5	C883	D5
C1812	E6	C2504	G2	C3108	I4	C506	E4	C884	D5
C1815	C8	C2505	F3	C3109	G4	C601	E5	C885	C5
C1816	C8	C2506	F3	C3112	G3	C700	E5	C887	D5
C1817	C8	C2507	F2	C3200	F6	C800	D5	C888	D5
C1818	C8	C2508	F2	C3201	F4	C801	D5	C889	C5
C1900	C8	C2509	E4	C3202	F4	C802	D5	C891	D6
C1901	C8	C2510	F2	C3203	F6	C803	D5	C892	D6
C1902	C7	C2511	F2	C3204	F4	C804	D5	C893	D4
C1903	C8	C2512	F3	C3205	F4	C805	E5	C894	D5
C1904	C7	C2513	F2	C3206	G5	C806	D5	C895	D4
C2101	C7	C2514	G2	C3207	G5	C807	D5	C896	E4
C2102	C5	C2515	F3	C3208	F4	C808	D6	C900	C5
C2103	C4	C2516	F3	C3209	F4	C809	D5	C902	D5

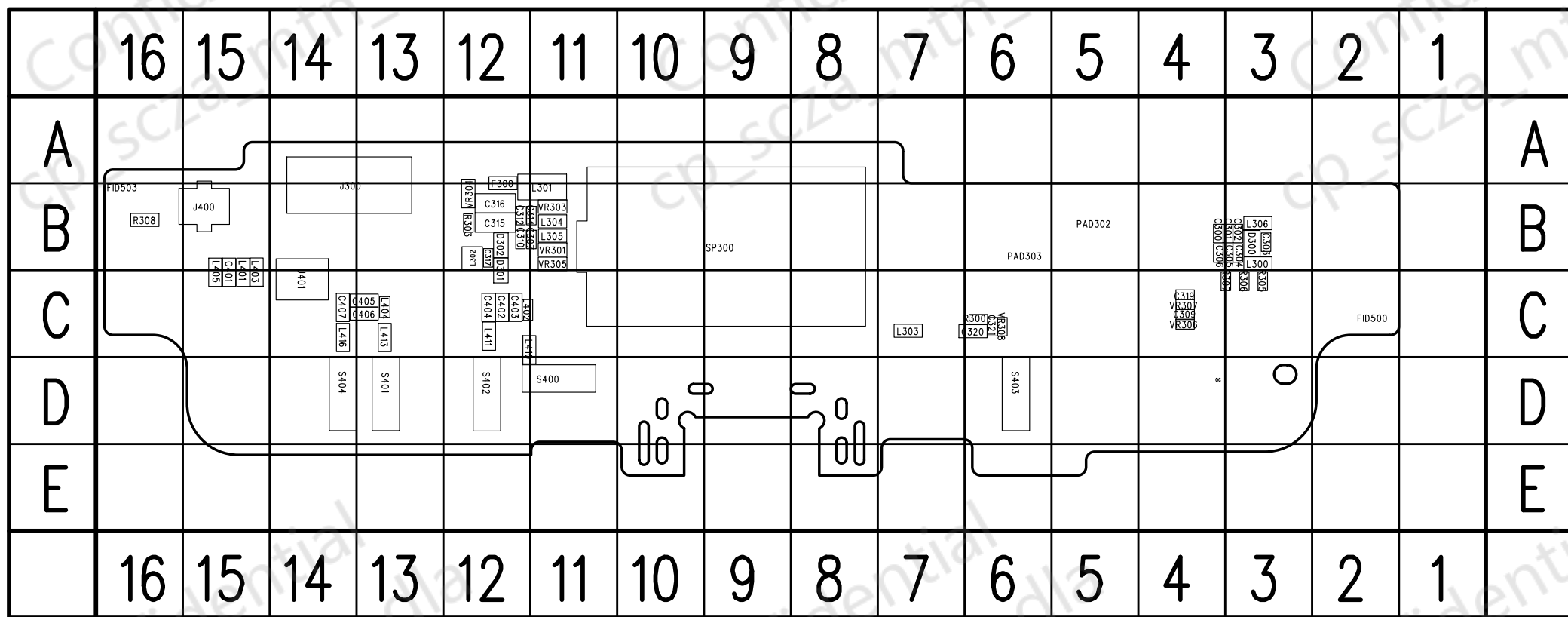
Bottom Side Placement Index

C903	D5	L2809	G4	R1507	G12	R2708	H5	VR2201	E12
C904	D5	L2810	H5	R1606	C9	R3200	G5	VR2203	E12
C905	D5	L2811	G4	R1607	C9	R3201	F6	VR2400	H11
C908	D5	L2812	H5	R1800	C6	R3202	F6	VR3800	H11
C909	E5	L2813	H6	R1801	C6	R3203	D3	VR3801	H14
C910	E5	L2816	G3	R1802	C6	R3501	F4		
C911	E6	L2913	I3	R1803	D6	R3503	F4		
D		L2916	G3	R1804	C6	R3504	D14		
D1800	D6	L2917	G3	R1805	C6	R3608	C3		
F		L2918	G3	R1806	C6	R3610	C3		
F2800	G5	L2919	H3	R1807	D6	R3611	C3		
F2801	H5	L2920	H3	R1808	D6	R3614	C3		
F2802	G2	L2921	I3	R1809	D6	R3806	B7		
F2902	I3	L2922	G3	R1812	C9	R3809	B7		
F3500	F5	L2923	G3	R1813	E6	R3811	B8		
FL2400	G7	L2924	G3	R1814	D6	R508	D6		
FL2401	H6	L3102	J4	R2100	C7	R706	E5		
FL2402	G7	L3103	I4	R2103	C4	R715	E5		
J		L3104	H5	R2104	C6	S			
J1100	H13	L3105	G4	R2106	B6	S2600	D2		
J1500	D11	L3106	H4	R2200	E12	S2601	D2		
J2000	A13	L3200	F4	R2211	E12	S2602	C2		
J2200	F12	L3201	F4	R2301	C4	S3500	C15		
J2300	G8	L3202	F4	R2302	C4	S3501	D15		
J2401	I10	L3203	F4	R2306	C4	SP1602	F7		
J3100	J2	L3204	F4	R2310	C4	SP1603	F6		
J3700	I8	L3205	G6	R2311	C4	U			
L		L3206	D2	R2312	C4	U1500	G11		
L1601	D9	L3207	G4	R2314	E9	U1601	C9		
L1602	C9	L3208	D2	R2315	E9	U1800	D7		
L1900	C8	L3500	F4	R2316	E9	U2100	C5		
L1901	C8	L3504	D12	R2319	E9	U2301	E9		
L2701	H4	L600	E4	R2407	H11	U2500	F3		
L2702	G4	LF2201	E12	R2411	H11	U2603	F5		
L2704	H3	R		R2412	H11	U3100	H4		
L2706	G3	R1101	I11	R2413	H11	U3602	C3		
L2707	G3	R1112	I12	R2414	H11	V			
L2800	G4	R1113	I12	R2415	H10	VR1103	I12		
L2801	G5	R1114	H12	R2416	H10	VR1500	G11		
L2802	G4	R1500	G11	R2500	E4	VR1501	G11		
L2803	G4	R1501	G11	R2501	F2	VR1502	G10		
L2804	G5	R1502	G10	R2503	G2	VR1503	G12		
L2805	H5	R1504	G10	R2506	E3	VR1601	D9		
L2806	G4	R1505	G10	R2523	F3	VR1900	C8		
L2808	H4	R1506	G10	R2707	H5	VR1901	C7		

Bottom Side Placement Index

Placements - Sub Board



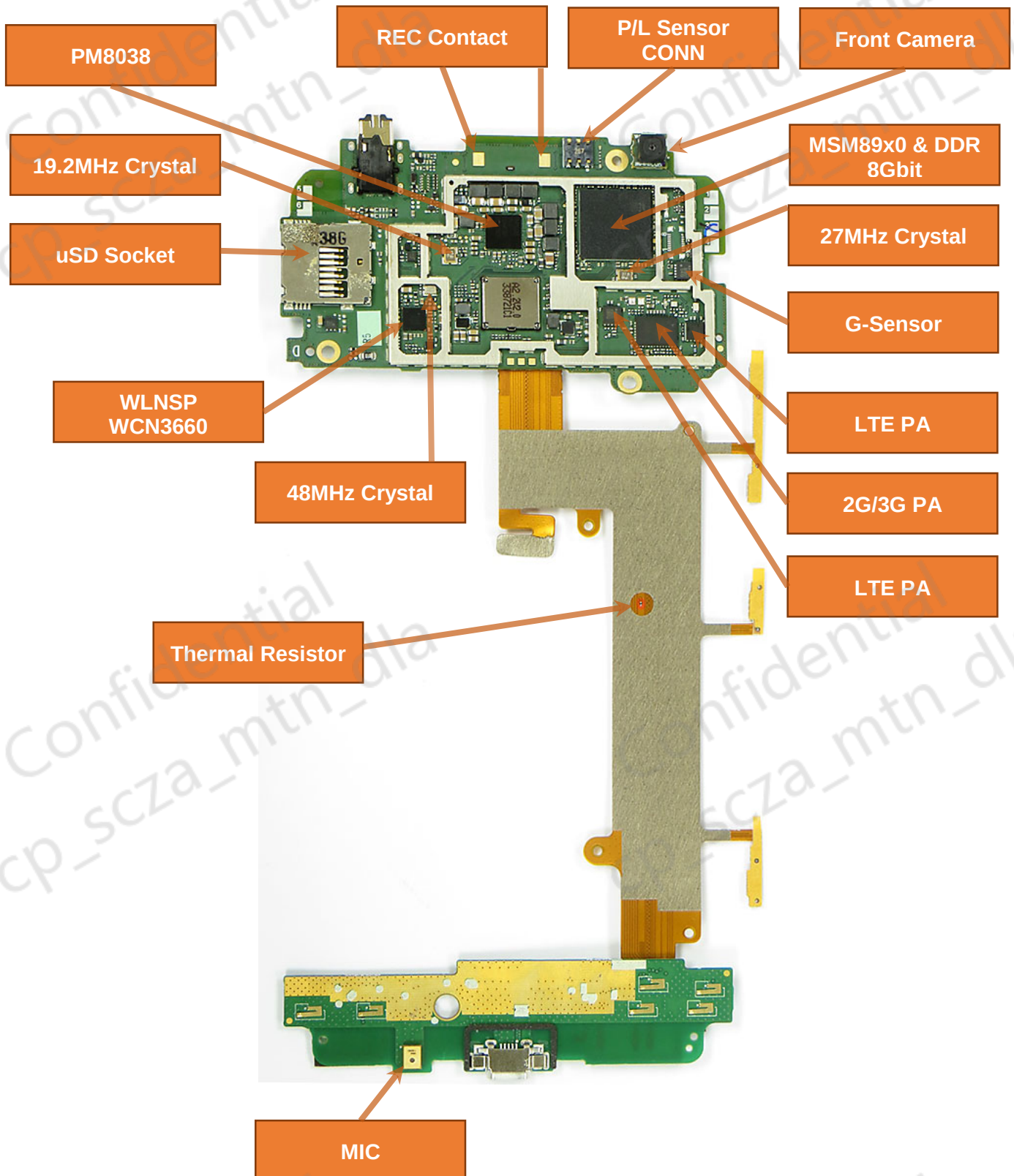


C		L402	C12						
C300	B4	L403	C15						
C301	B3	L404	C13						
C302	B3	L405	C15						
C303	B3	L410	C12						
C304	B3	L411	C12						
C305	B3	L413	C13						
C306	B4	L416	C14						
C307	B11	R							
C309	C4	R300	C6						
C310	B12	R303	B12						
C312	B12	R305	C3						
C314	B11	R306	C3						
C315	B12	R307	C3						
C316	B12	R308	B16						
C317	B12	S							
C319	C4	S400	D11						
C320	C6	S401	D13						
C321	C6	S402	D12						
C401	C15	S403	D6						
C402	C12	S404	D14						
C403	C12	SP300	B9						
C404	C12	U401							
C405	C13	U401	C14						
C406	C13	V							
C407	C14	VR301	B11						
D		VR303	B11						
D300	B3	VR304	B12						
D301	C12	VR305	B11						
D302	B12	VR306	C4						
F300		VR307	C4						
F300	A12	VR308	C6						
J									
J300	B14								
J301	D9								
J400	B15								
L									
L300	B3								
L301	B11								
L302	B12								
L303	C7								
L304	B11								
L305	B11								
L306	B3								
L401	C15								

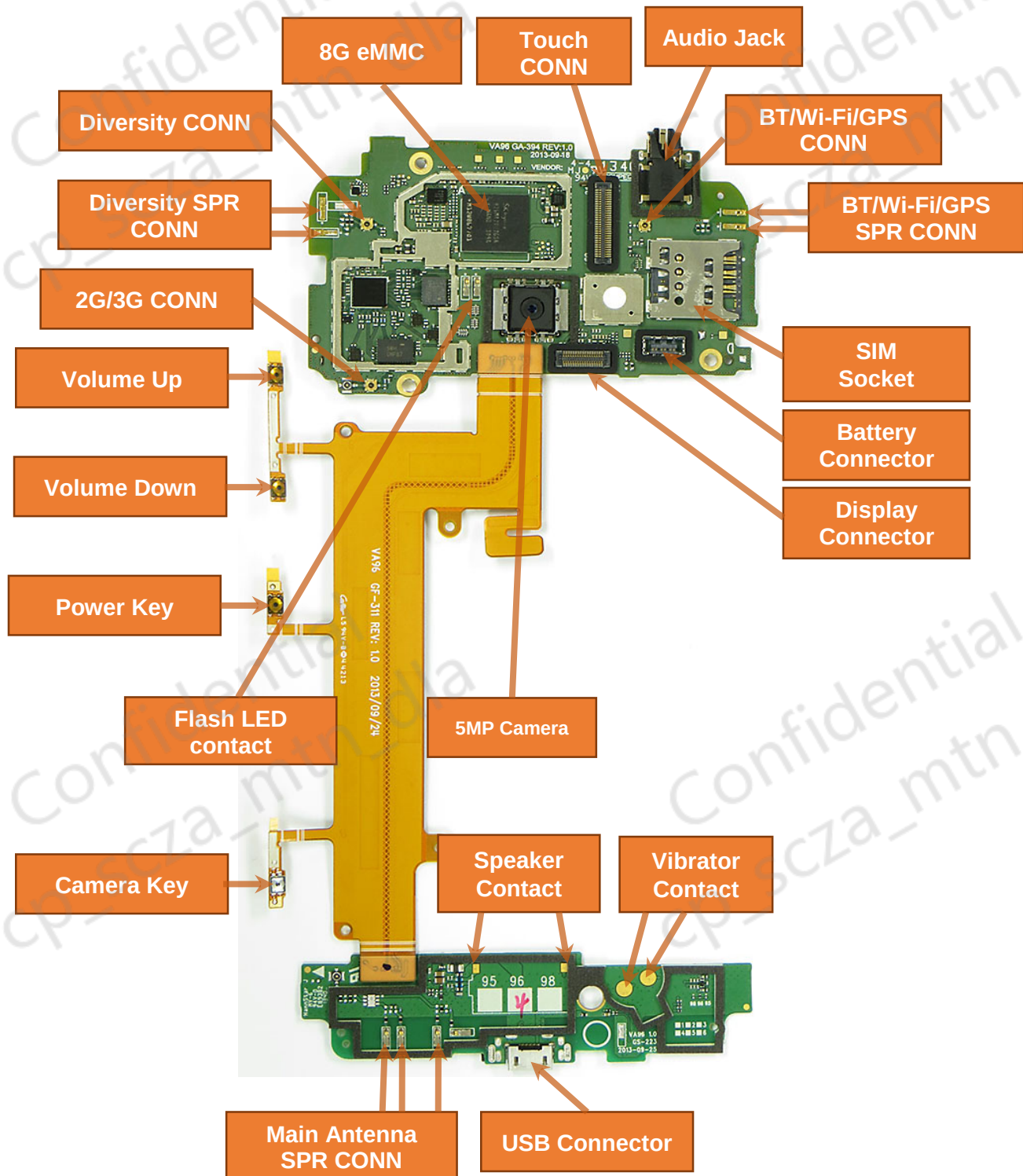
Bottom Side Placement Index

Key Components

Main Board Top Side



Main Board Bottom Side



D-Cover



A-Cover

