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(Bottom)</td><td>test_mlb</td><td>10/13/2016</td></tr><tr><td>6</td><td>10</td><td>SOC: JTAG,USB,XTAL</td><td>test_mlb</td><td>10/17/2016</td><td>51</td><td>80</td><td>RADIOS</td><td></td><td>06/04/2015</td></tr><tr><td>7</td><td>11</td><td>SOC: PCIE</td><td>test_mlb</td><td>10/17/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td>12</td><td>SOC: MIPI & ISP</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td>13</td><td>SOC: LPDP</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td>14</td><td>SOC: Serial</td><td>test_mlb</td><td>10/17/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td>15</td><td>SOC: GPIO & UART</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>12</td><td>16</td><td>SOC: AOP</td><td>test_mlb</td><td>10/17/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>13</td><td>17</td><td>SOC: Power (1/3)</td><td>test_mlb</td><td>10/17/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>14</td><td>18</td><td>SOC: Power (2/3)</td><td>test_mlb</td><td>10/17/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>15</td><td>19</td><td>SOC: Power (3/3)</td><td>test_mlb</td><td>10/17/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>16</td><td>26</td><td>NAND</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>17</td><td>27</td><td>SYSTEM POWER: PMU Bucks (1/4)</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>18</td><td>28</td><td>SYSTEM POWER: PMU Bucks (2/4)</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>19</td><td>29</td><td>SYSTEM POWER: PMU LDOs (3/4)</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>20</td><td>30</td><td>SYSTEM POWER: PMU (4/4)</td><td>test_mlb</td><td>11/01/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>21</td><td>31</td><td>SYSTEM POWER: Boost</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>22</td><td>32</td><td>SYSTEM POWER: B2B Battery</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>23</td><td>33</td><td>SYSTEM POWER: Charger</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>24</td><td>34</td><td>SYSTEM POWER: Iktara</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>25</td><td>35</td><td>SYSTEM POWER: B2B Cyclone + Button</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>26</td><td>36</td><td>SENSORS</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>27</td><td>37</td><td>CAMERA: PMU (1/2)</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>28</td><td>38</td><td>CAMERA: PMU (2/2)</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>29</td><td>39</td><td>CAMERA: B2B Wide (WY)</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>30</td><td>40</td><td>CAMERA: B2B Tele (MT)</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>31</td><td>41</td><td>CAMERA: Strobe Drivers</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>32</td><td>42</td><td>CAMERA: B2B FCAM</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>33</td><td>43</td><td>CAMERA: B2B Strobe + Hold Button</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>34</td><td>44</td><td>PEARL: Power</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>35</td><td>45</td><td>PEARL: B2B Romeo + Juliet</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>36</td><td>46</td><td>PEARL: B2B Rosaline + Misc</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>37</td><td>47</td><td>AUDIO: CODEC (1/2)</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>38</td><td>48</td><td>AUDIO: CODEC (2/2)</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>39</td><td>49</td><td>AUDIO: Speaker Amp Bottom</td><td></td><td>08/25/2015</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>40</td><td>50</td><td>AUDIO: Speaker Amp Top</td><td></td><td>08/25/2015</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>41</td><td>51</td><td>ARC: Driver</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>42</td><td>56</td><td>CG: Power Supplies - Touch & Display</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>43</td><td>57</td><td>CG: B2B Display</td><td>test_mlb</td><td>10/13/2016</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>44</td><td>58</td><td>CG: B2B Orb & Touch</td><td></td><td>08/25/2015</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>45</td><td>59</td><td>I/O: Overvoltage Cut-Off Circuit</td><td>sync</td><td>01/10/2017</td><td></td><td></td><td></td><td></td><td></td></tr></table>																PAGE CSA		CONTENTS	SYNC	DATE	PAGE 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(1/4)	test_mlb	10/13/2016						18	28	SYSTEM POWER: PMU Bucks (2/4)	test_mlb	10/13/2016						19	29	SYSTEM POWER: PMU LDOs (3/4)	test_mlb	10/13/2016						20	30	SYSTEM POWER: PMU (4/4)	test_mlb	11/01/2016						21	31	SYSTEM POWER: Boost	test_mlb	10/13/2016						22	32	SYSTEM POWER: B2B Battery	test_mlb	10/13/2016						23	33	SYSTEM POWER: Charger	test_mlb	10/13/2016						24	34	SYSTEM POWER: Iktara								25	35	SYSTEM POWER: B2B Cyclone + Button	test_mlb	10/13/2016						26	36	SENSORS	test_mlb	10/13/2016						27	37	CAMERA: PMU (1/2)	test_mlb	10/13/2016						28	38	CAMERA: PMU (2/2)	test_mlb	10/13/2016						29	39	CAMERA: B2B Wide (WY)	test_mlb	10/13/2016						30	40	CAMERA: B2B Tele (MT)	test_mlb	10/13/2016						31	41	CAMERA: Strobe Drivers	test_mlb	10/13/2016						32	42	CAMERA: B2B FCAM	test_mlb	10/13/2016						33	43	CAMERA: B2B Strobe + Hold Button	test_mlb	10/13/2016						34	44	PEARL: Power	test_mlb	10/13/2016						35	45	PEARL: B2B Romeo + Juliet	test_mlb	10/13/2016						36	46	PEARL: B2B Rosaline + Misc	test_mlb	10/13/2016						37	47	AUDIO: CODEC (1/2)	test_mlb	10/13/2016						38	48	AUDIO: CODEC (2/2)	test_mlb	10/13/2016						39	49	AUDIO: Speaker Amp Bottom		08/25/2015						40	50	AUDIO: Speaker Amp Top		08/25/2015						41	51	ARC: Driver	test_mlb	10/13/2016						42	56	CG: Power Supplies - Touch & Display	test_mlb	10/13/2016						43	57	CG: B2B Display	test_mlb	10/13/2016						44	58	CG: B2B Orb & Touch		08/25/2015						45	59	I/O: Overvoltage Cut-Off Circuit	sync	01/10/2017																																																																																																																			
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29	39	CAMERA: B2B Wide (WY)	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
30	40	CAMERA: B2B Tele (MT)	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
31	41	CAMERA: Strobe Drivers	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
32	42	CAMERA: B2B FCAM	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
33	43	CAMERA: B2B Strobe + Hold Button	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
34	44	PEARL: Power	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
35	45	PEARL: B2B Romeo + Juliet	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
36	46	PEARL: B2B Rosaline + Misc	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
37	47	AUDIO: CODEC (1/2)	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
38	48	AUDIO: CODEC (2/2)	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
39	49	AUDIO: Speaker Amp Bottom		08/25/2015																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
40	50	AUDIO: Speaker Amp Top		08/25/2015																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
41	51	ARC: Driver	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
42	56	CG: Power Supplies - Touch & Display	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
43	57	CG: B2B Display	test_mlb	10/13/2016																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
44	58	CG: B2B Orb & Touch		08/25/2015																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
45	59	I/O: Overvoltage Cut-Off Circuit	sync	01/10/2017																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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EEEE Codes

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
825-7691	1	EEEE FOR (MLB_TOP,639-04583,ULTIMATE)	EEEE_U2WJ	NO	ULTIMATE
825-7691	1	EEEE FOR (MLB_TOP,639-03409,EXTREME)	EEEE_HP26	NO	EXTREME

SOC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S00358	1	SKYE+3GB, B0, M, DEV	U1000	CRITICAL	COMMON

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339S00359	339S00358	BOM_TABLE_ALTS	U1000	DDR-H,3G, B0
339S00360	339S00358	BOM_TABLE_ALTS	U1000	DDR-S-20,3G, B0
339S00361	339S00358	BOM_TABLE_ALTS	U1000	DDR-S-18,3G, B0

NAND

Ultimate

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00287	1	HYNIX, 3DV3, ULTIMATE	U2600	CRITICAL	ULTIMATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00284	335S00287	BOM_TABLE_ALTS	U2600	TOSHIBA, 1%, ULTIMATE
335S00285	335S00287	BOM_TABLE_ALTS	U2600	TOSHIBA, B1CS3, ULTIMATE
335S00286	335S00287	BOM_TABLE_ALTS	U2600	SANDISK, B1CS3, ULTIMATE
335S00288	335S00287	BOM_TABLE_ALTS	U2600	SAMSUNG, 3DV4, ULTIMATE

Extreme

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00240	1	HYNIX, 3DV3, EXTREME	U2600	CRITICAL	EXTREME

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00228	335S00240	BOM_TABLE_ALTS	U2600	TOSHIBA, B1CS3, EXTREME
335S00247	335S00240	BOM_TABLE_ALTS	U2600	SANDISK, B1CS3, EXTREME
335S00276	335S00240	BOM_TABLE_ALTS	U2600	SAMSUNG, 3DV4, EXTREME

Global Capacitors

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00148	138S00149	BOM_TABLE_ALTS	ALL	0402-3T,10.5uF@1V, Kyocera
138S00150	138S00149	BOM_TABLE_ALTS	ALL	0402-3T,10.5uF@1V, SEMCO
138S00151	138S00149	BOM_TABLE_ALTS	ALL	0402-3T,10.5uF@1V, TY

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00143	138S00144	BOM_TABLE_ALTS	ALL	0402,16uF@1V, Kyocera
138S00163	138S00144	BOM_TABLE_ALTS	ALL	0402,16uF@1V, Taiyo

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00138	138S00139	BOM_TABLE_ALTS	ALL	0201,3uF@1V, Kyocera
138S00164	138S00139	BOM_TABLE_ALTS	ALL	0201,3uF@1V, Taiyo

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00145	138S00146	BOM_TABLE_ALTS	ALL	0402,5.1uF@3V, Kyocera
138S00165	138S00146	BOM_TABLE_ALTS	ALL	0402,5.1uF@3V, Taiyo

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00140	138S00141	BOM_TABLE_ALTS	ALL	0201,1.1uF@3V, Kyocera
138S00142	138S00141	BOM_TABLE_ALTS	ALL	0201,1.1uF@3V, SEMCO
138S00166	138S00141	BOM_TABLE_ALTS	ALL	0201,1.1uF@3V, Taiyo

Global Ferrites

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S00194	155S00610	BOM_TABLE_ALTS	ALL	FERR BD, 1500HM, TDE
155S00200	155S00610	BOM_TABLE_ALTS	ALL	FERR BD, 1500HM, TY

CRITICAL PART#	COMMENT
155S00610	FERR BD, 1500HM, 01005

Global R/C Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
118S00764	118S00717	BOM_TABLE_ALTS	ALL	RES, 3.92K, 0.1%, 0201
138S0648	138S0652	BOM_TABLE_ALTS	ALL	CAP,XSR,4.7UF,6.3V,0.0201,KYOCERA
138S00739	138S0706	BOM_TABLE_ALTS	ALL	CAP,CER,XSR,0.22UF,20%,6.3V,20%
132S0436	132S0400	BOM_TABLE_ALTS	ALL	CAP,CER,XSR,0.22UF,20%,6.3V,01005
138S00049	138S0831	BOM_TABLE_ALTS	ALL	CAP,CER,XSR,2.2UF,20%,6.3V,0201

CRITICAL PART#	COMMENT
118S00717	RES, 3.92K, 0.1%, 0201
138S0652	CAP,XSR,4.7UF,6.3V,0.05MM,0402
138S0706	CAP,CER,XSR,0.22UF,20%,6.3V,20%
132S0400	CAP,CER,XSR,0.22UF,20%,6.3V,01005
138S0831	CAP,CER,XSR,2.2UF,20%,6.3V,0201

Global Inductors

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S00710	152S00617	BOM_TABLE_ALTS	ALL	IND,MLD,0.1UH,20%,6.1A,2990HM,H=65,1608
152S00712	152S00620	BOM_TABLE_ALTS	ALL	IND,MLD,0.1UH,20%,7.2A,1790HM,H=0.8,2012
152S00713	152S00621	BOM_TABLE_ALTS	ALL	IND,MLD,0.47UH,20%,3.5A,53MD,H=65,2012
152S00714	152S00622	BOM_TABLE_ALTS	ALL	IND,MLD,0.1UH,20%,3.1A,100MD,H=65,2012
152S00716	152S00626	BOM_TABLE_ALTS	ALL	IND,MLD,0.1UH,20%,3.1A,160MD,H=65,2012
152S00717	152S00631	BOM_TABLE_ALTS	ALL	IND,MLD,0.1UH,20%,2.5A,78MD,H=0.8,2012
152S00718	152S00632	BOM_TABLE_ALTS	ALL	IND,MLD,0.1UH,20%,3.1A,100MD,H=0.8,2016
152S00720	152S00640	BOM_TABLE_ALTS	ALL	IND,MLD,0.47UH,3.8A,55MD,H=0.65MM,2012
152S00721	152S00641	BOM_TABLE_ALTS	ALL	IND,MLD,0.47UH,4A,48MD,H=0.8MM,2012
152S00715	152S00623	BOM_TABLE_ALTS	ALL	IND,MLD,1UH,3.6A,60MD,H=0.8MM,2016
152S00653	152S00651	BOM_TABLE_ALTS	ALL	IND,1.2OH,3A,2016,0.65Z
152S00649	152S00650	BOM_TABLE_ALTS	L3340,L3341	IND,0.47UH,6.6A,3225,0.8Z

CRITICAL PART#	COMMENT
152S00617	IND,MLD,0.1UH,20%,6.1A,2990HM,H=65,1608
152S00620	IND,MLD,0.1UH,20%,7.2A,1790HM,H=0.8,2012
152S00621	IND,MLD,0.47UH,20%,3.5A,53MD,H=65,2012
152S00622	IND,MLD,0.1UH,20%,2.1A,100MD,H=65,2012
152S00626	IND,MLD,0.1UH,20%,1.1A,160MD,H=65,2012
152S00631	IND,MLD,0.1UH,20%,2.5A,78MD,H=0.8,2012
152S00632	IND,MLD,0.1UH,20%,3.2A,60MD,H=0.8,2016
152S00640	IND,MLD,0.47UH,3.8A,55MD,H=0.65MM,2012
152S00641	IND,MLD,0.47UH,4A,48MD,H=0.8MM,2012
152S00623	IND,MLD,1UH,3.6A,60MD,H=0.8MM,2016
152S00651	IND,1.2OH,3A,2016,0.65Z
152S00650	IND,0.47UH,6.6A,3225,0.8Z

XTAL Alternate

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0612	197S0446	BOM_TABLE_ALTS	Y1000	XTAL, 24M, 1612

CRITICAL PART#	COMMENT
197S0446	XTAL, 24M, 1612

Multi-Vendor Criticals

CRITICAL PART#	COMMENT
377S0106	SUPPL TRANS,VARISTOR,12V,33PF,01005
197S0446	XTAL,24MHZ,30PPM,9.5PF,60 OHM MAX,1612
155S0576	FERR BD,10 OHM,50A,750MA,0.07 DCR,01005
155S00168	PLTR,NOISE,65 OHMZ,3.4OHM,0.7-2GHZ,0605
138S0979	CAP,CER,XSR,10UF,20%,10V,0402,H=0.65MM
138S0692	CAP,CER,XSR,1UF,20%,6.3V,0201
138S0683	CAP,CER,XSR,1UF,10%,25V,0402
138S0652	CAP,CER,XSR,4.7UF,20%,6.3V,H=0.65MM,0402
138S00070	CAP,XSR,4.7UF,20%,25V,0402
138S00014	CAP,CER,1UF,20%,16V,XSR,0201,H=0.39MM
132S0664	CAP,CER,0.047UF,10%,25V,XSR,0201
132S0663	CAP,CER,XSR,1UF,10%,25V,0402
132S0534	CAP,CER,XSR,0.1UF,10%,25V,0201
132S0436	CAP,CER,XSR,0.22UF,20%,6.3V,01005
132S0396	CAP,CER,XSR,1000PF,10%,10V,01005
132S0316	CAP,CER,XSR,0.1UF,20%,6.3V,01005
132S0304	CAP,CER,XSR,0.22UF,20%,6.3V,0201
132S0296	CAP,CER,XSR,1000PF,10%,6.3V,01005
132S0318	CAP,CER,XSR,820PF,10%,10V,01005

CRITICAL PART#	COMMENT
132S0288	CAP,CER,XSR,0.1UF,10%,16V,0201
132S0275	CAP,CER,XSR,470PF,10%,10V,01005
132S0249	CAP,CER,X7R,220PF,10%,10V,01005
132S0245	CAP,CER,XSR,0.01UF,10%,6.3V,01005
132S00093	CAP,XSR,0.022UF,20%,6.3V,01005
132S00025	CAP,CER,XSR,0.047UF,20%,6.3V,01005
132S00008	CAP,CER,0.1UF,10%,50V,X7R,0402
131S0883	CAP,CER,NP0/C0G,220PF,2%,50V,0201
131S0804	CAP,CER,27PF,5%,C0G,25V,0201
131S0307	CAP,CER,NP0/C0G,100PF,5%,16V,01005
131S0225	CAP,CER,NP0/C0G,15PF,5%,16V,01005
131S0223	CAP,CER,NP0/C0G,27PF,5%,16V,01005
131S0220	CAP,CER,NP0/C0G,12PF,5%,16V,01005
131S0216	CAP,CER,NP0/C0G,47PF,5%,16V,01005
131S00553	CAP,CER,C0G,220PF,5%,10V,01005
118S00068	RES,NF,1.3 MOHM,1%,200PFM,1/20W,0201
117S0055	RES,NF,1/20W,2M OHM,5,0201,SMD
107S0257	THERMISTOR,NTC,10K OHM,1%,B=3435,01005

Soft-Term Cap Sub BOMs

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
68S-00155	1	SUBBOM,MLB_TOP,CAP,TYPICAL,XB91	SUBBOM_CAP	CRITICAL	COMMON

Agnes Input

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S00159	4	CAP,SOFT-TERM,2.2UF,6.3V,0201,KYOCERA	C2970,C2971,C2980,C2981	CRITICAL	SOFT_CAP
138S0831	4	CAP,TYPICAL,2.2UF,6.3V,0201,NEBRATA	C2970,C2971,C2980,C2981	CRITICAL	TYPICAL_CAP

Agnes Output

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S00159	9	CAP,SOFT-TERM,2.2UF,6.3V,0201,KYOCERA	C3602,C3622	CRITICAL	SOFT_CAP
138S0831	9	CAP,TYPICAL,2.2UF,6.3V,0201,NEBRATA	C3602,C3622	CRITICAL	TYPICAL_CAP

Sensors

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S00159	2	CAP,SOFT-TERM,2.2UF,6.3V,0201,KYOCERA	C3602,C3622	CRITICAL	SOFT_CAP
138S0831	2	CAP,TYPICAL,2.2UF,6.3V,0201,NEBRATA	C3602,C3622	CRITICAL	TYPICAL_CAP

RCAM B2Bs

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S00159	3	CAP,SOFT-TERM,2.2UF,6.3V,0201,KYOCERA	C3909,C3925,C4025	CRITICAL	SOFT_CAP
138S0831	3	CAP,TYPICAL,2.2UF,6.3V,0201,NEBRATA	C3909,C3925,C4025	CRITICAL	TYPICAL_CAP

Strobe B2B

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S00159	1	CAP,SOFT-TERM,2.2UF,6.3V,0201,KYOCERA	C4303	CRITICAL	SOFT_CAP
138S0831	1	CAP,TYPICAL,2.2UF,6.3V,0201,NEBRATA	C4303	CRITICAL	TYPICAL_CAP

Audio

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S00159	2	CAP,SOFT-TERM,2.2UF,6.3V,0201,KYOCERA	C4809,C4805	CRITICAL	SOFT_CAP
138S0831	2	CAP,TYPICAL,2.2UF,6.3V,0201,NEBRATA	C4809,C4805	CRITICAL	TYPICAL_CAP

Pearl B2B

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S00159	1	CAP,SOFT-TERM,2.2UF,6.3V,0201,KYOCERA	C4613	CRITICAL	SOFT_CAP
138S0831	1	CAP,TYPICAL,2.2UF,6.3V,0201,NEBRATA	C4613	CRITICAL	TYPICAL_CAP

Acorn

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S00160	2	CAP,SOFT-TERM,10UF,10V,0402,NEBRATA	C5641,C5653	CRITICAL	SOFT_CAP
138S0979	2	CAP,TYPICAL,10UF,10V,0402,NEB-KYO	C5641,C5653	CRITICAL	TYPICAL_CAP


CODEC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S00160	2	CAP,SOFT-TERM,10UF,10V,0402,NEBRATA	C4811,C4808	CRITICAL	SOFT_CAP
138S0979	2	CAP,TYPICAL,10UF,10V,0402,NEB-KYO	C4811,C4808	CRITICAL	TYPICAL_CAP

Ansel

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S00160	1	CAP,SOFT-TERM,10UF,10V,0402,NEBRATA	C3710	CRITICAL	SOFT_CAP
138S0979	1	CAP,TYPICAL,10UF,10V,0402,NEB-KYO	C3710	CRITICAL	TYPICAL_CAP

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
68S-00156	68S-00155	BOM_TABLE_ALTS	SUBBOM_CAP	SUBBOM_MLB_TOP,CAP,SOFT,XB91

PAGE TITLE			
SYSTEM:BOM Tables			
 Apple Inc		DRAWING NUMBER	051-02221
迅维职业技能培训中心		SIZE	D
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400-800-9990		SHEET	2 OF 80
			2 OF 51



D

C

B

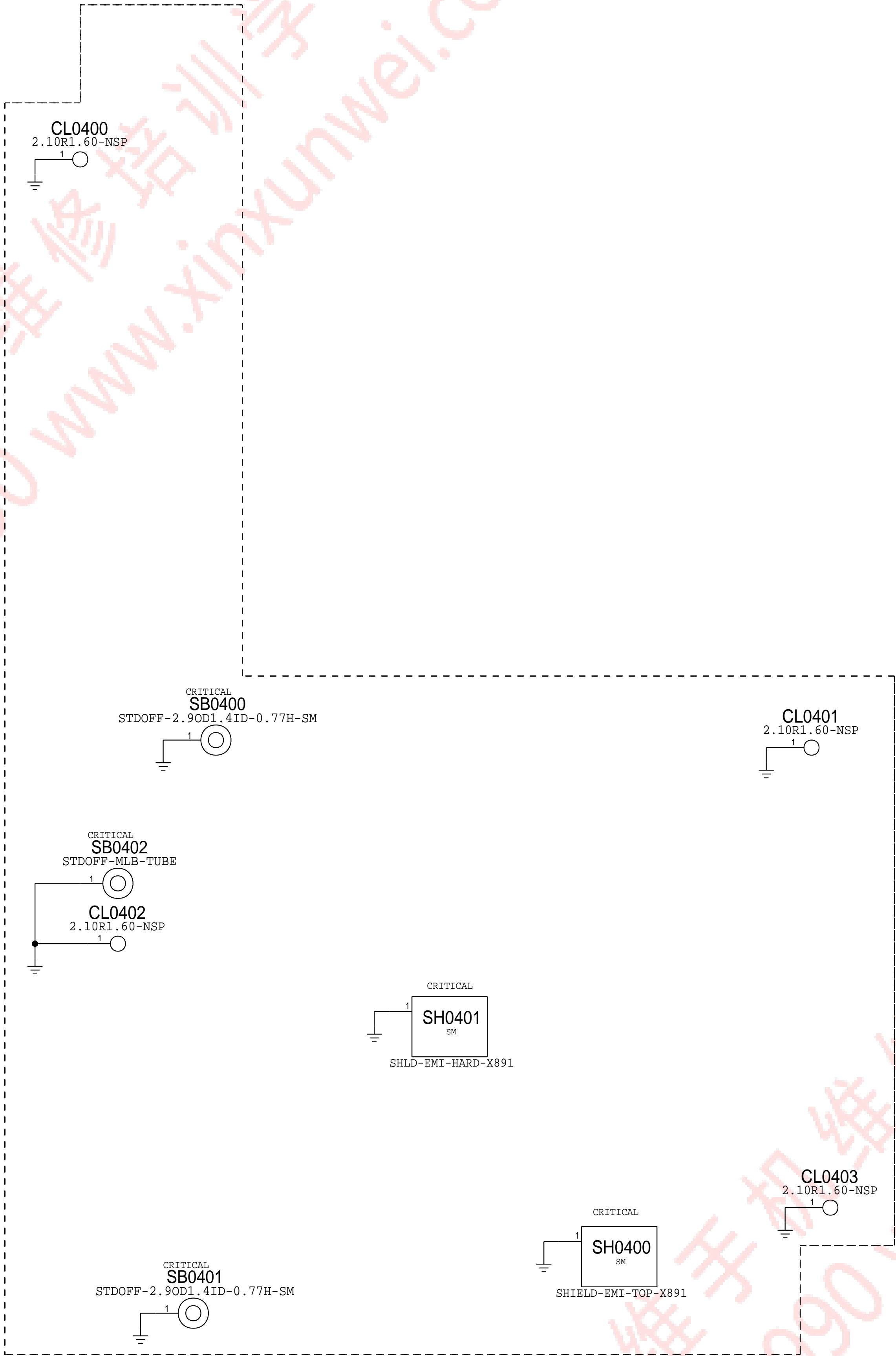
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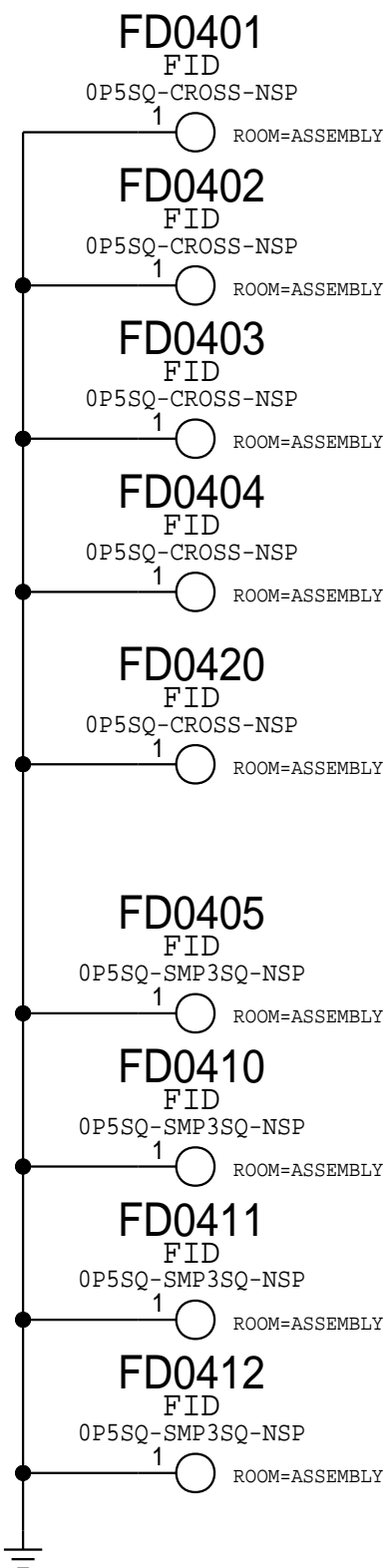
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FIDUCIALS

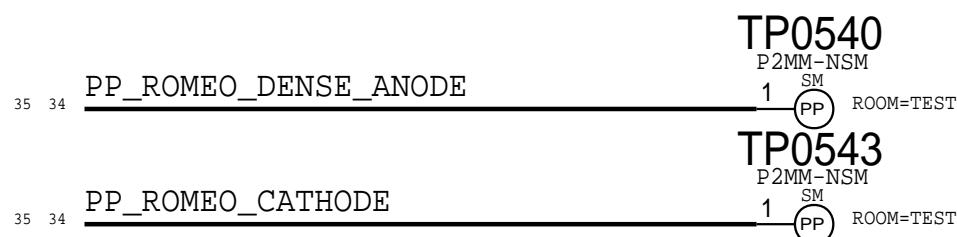


PAGE TITLE			SYSTEM: Mechanical Components		
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		SHEET		3 OF 51	

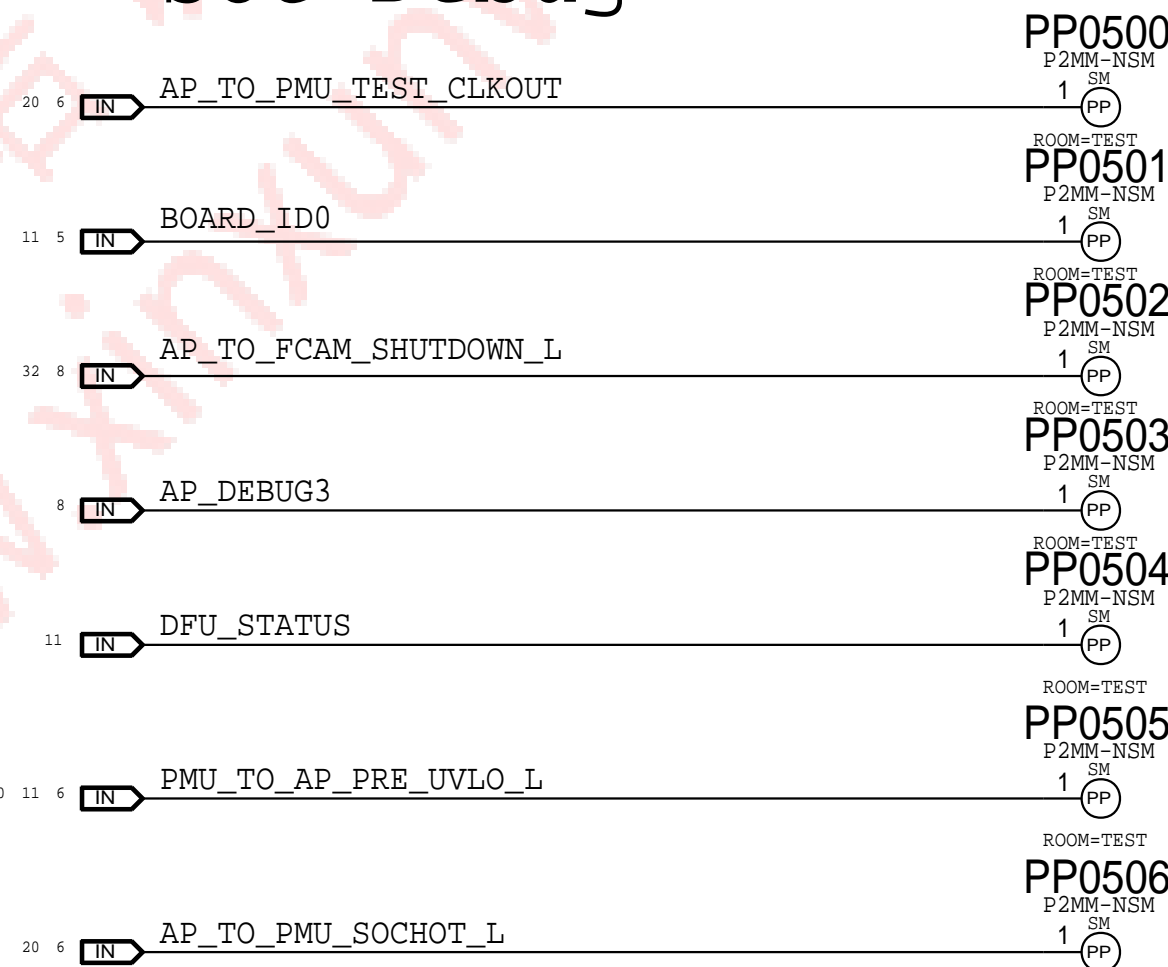
Test Points

Probe Points

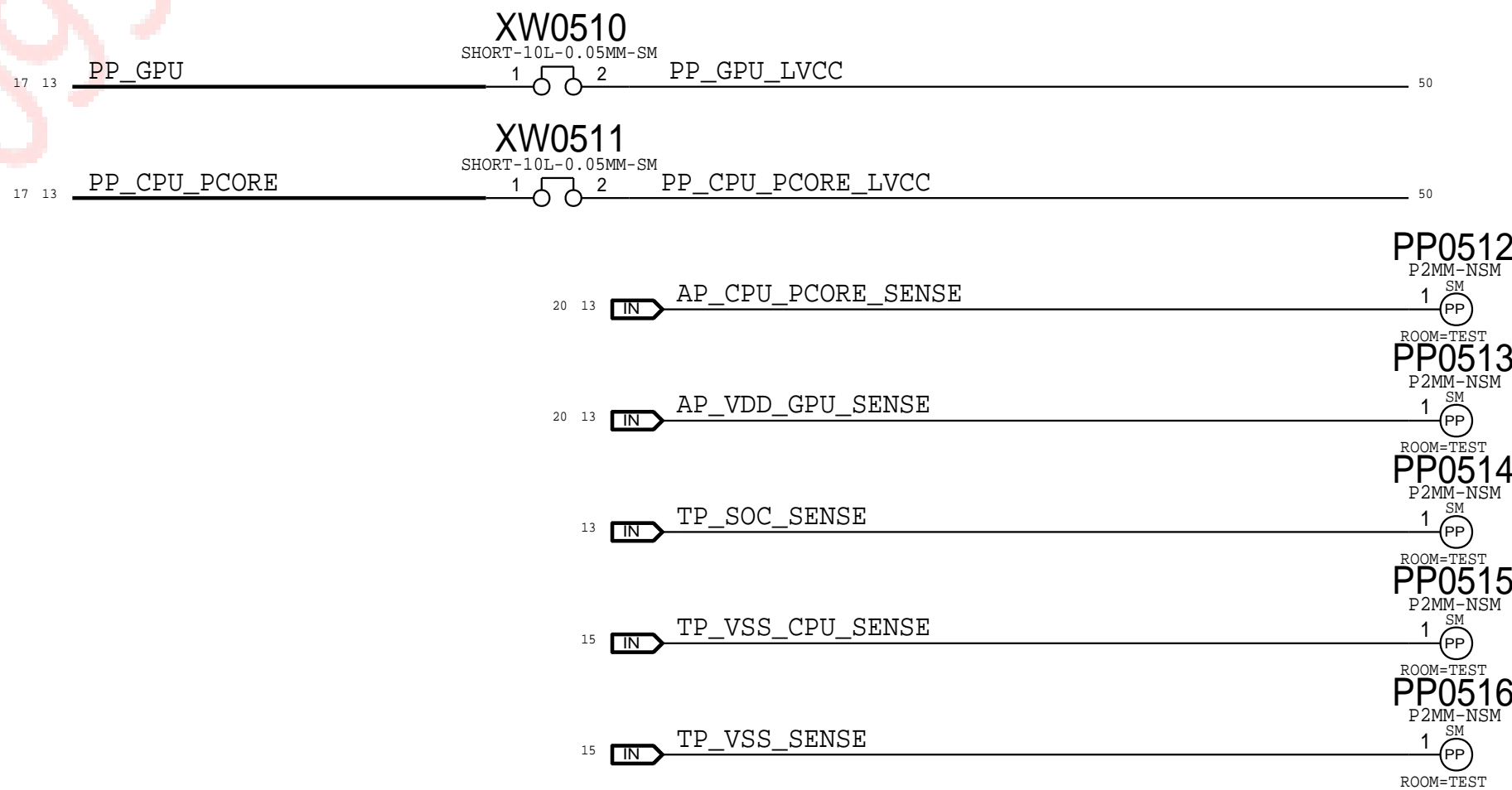
POWER



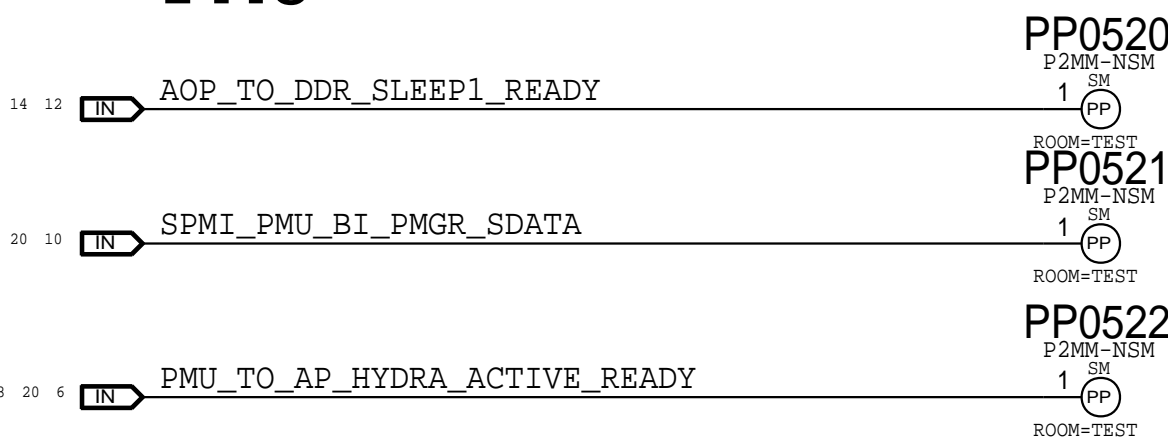
SOC Debug



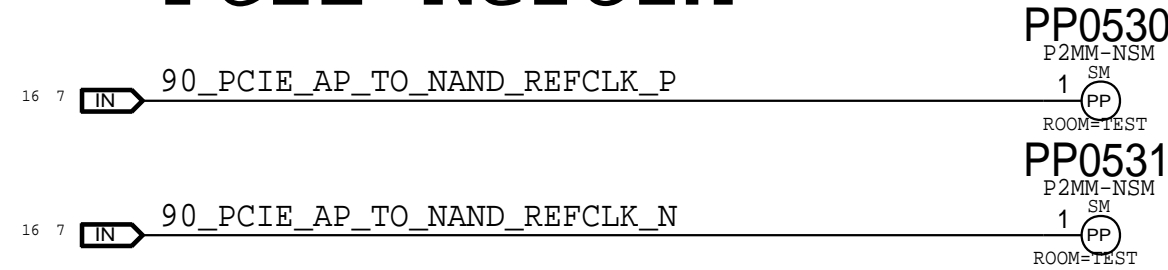
SOC CPU/GPU



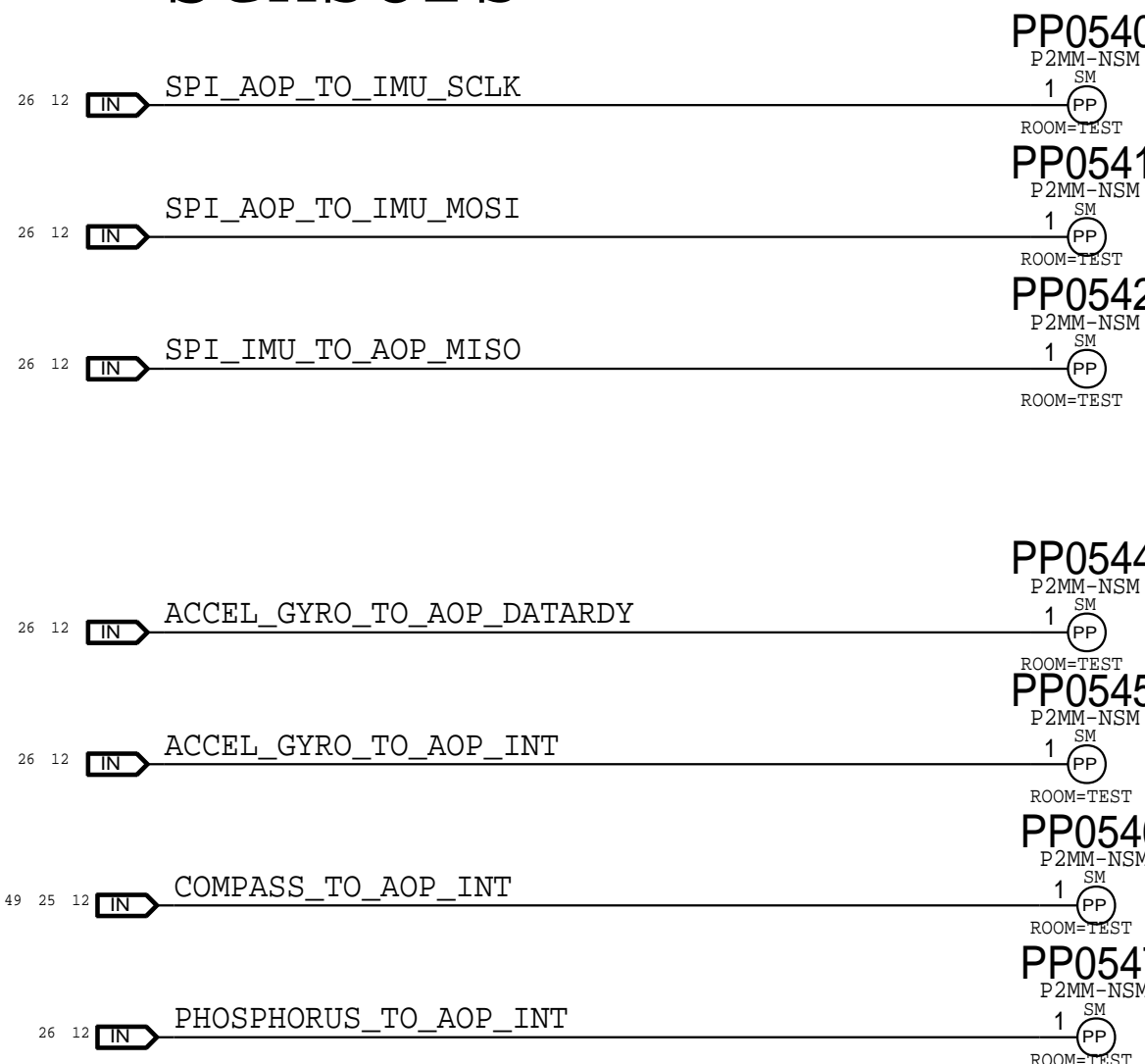
PMU



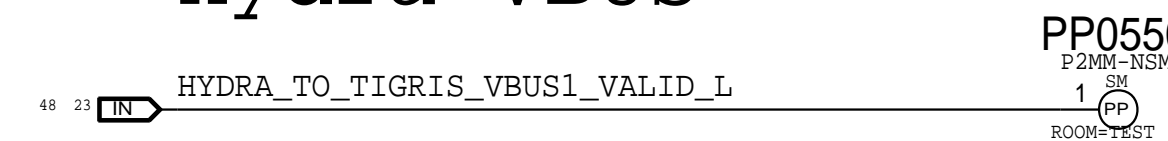
PCIE Refclk



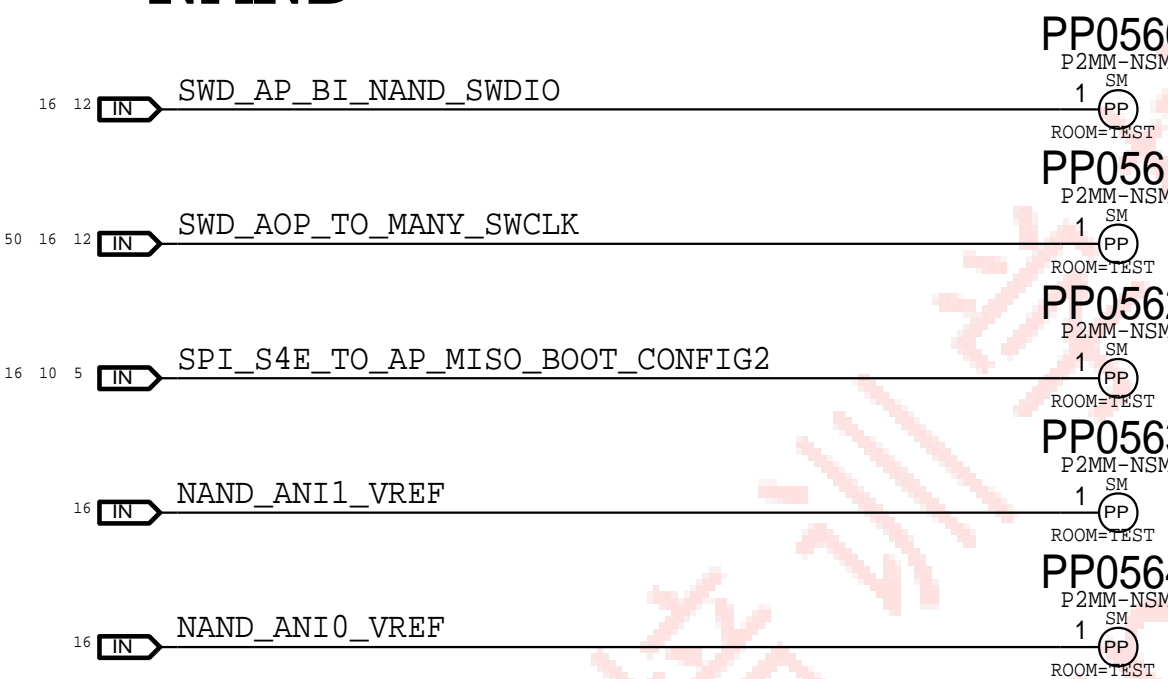
Sensors



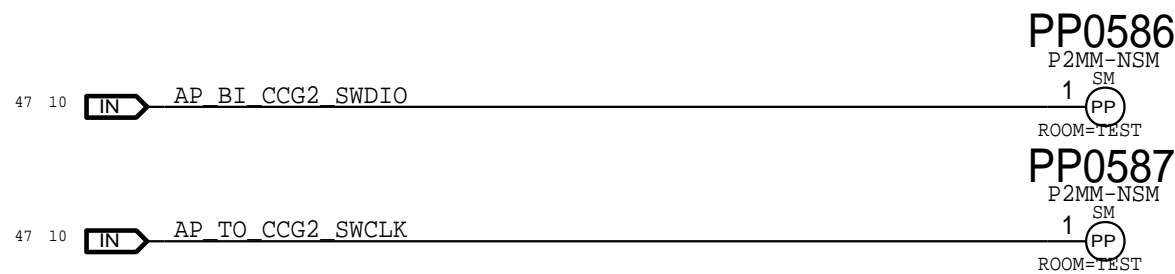
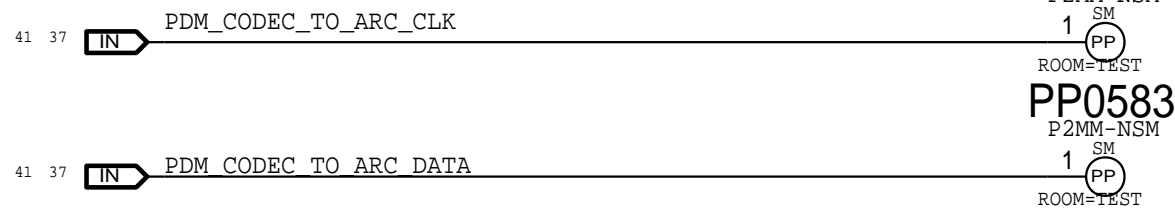
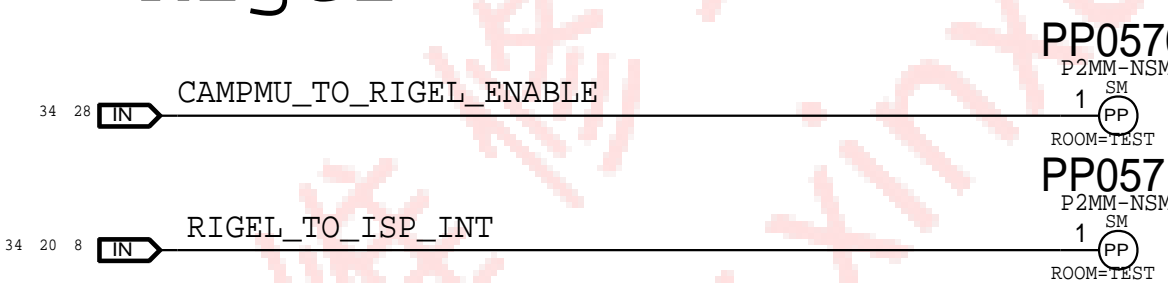
Hydra VBUS



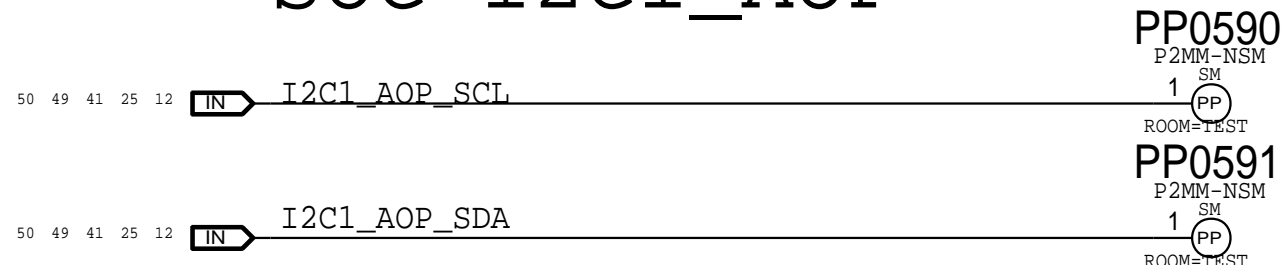
NAND



Rigel



SOC I2C1_AOP



CCG2



BOOTSTRAPPING:BOARD REV
BOARD ID
BOOT CONFIG

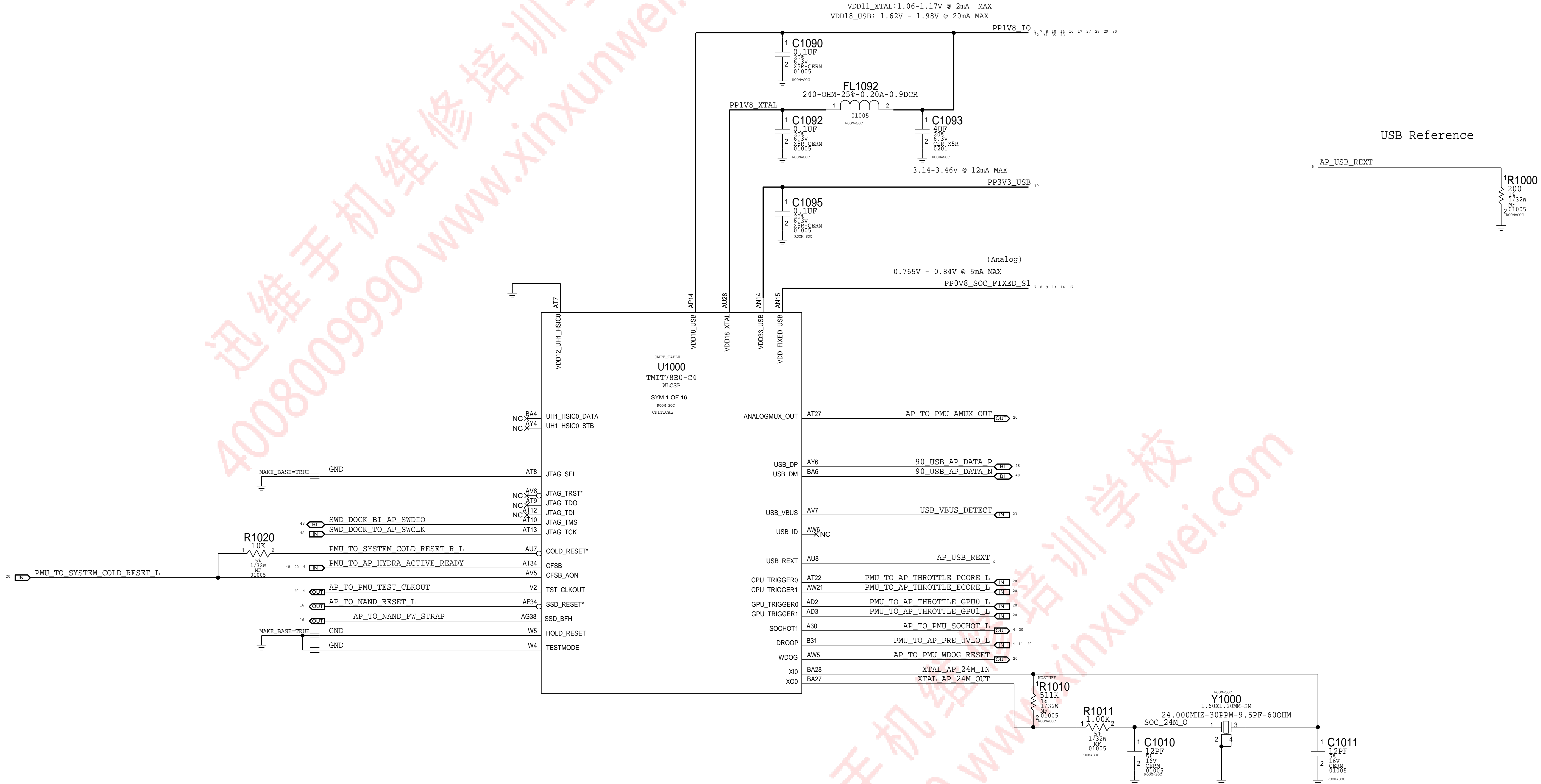



Board Rev[3:0]				
Float=Low I PU=High				
	3	2	1	0
Proto 1	1	1	1	1
Proto 1 (DOE6)	1	1	1	0
Proto 2	1	1	0	1
Proto 3	1	1	0	0
EVT	1	0	1	1
(Spare)	1	0	1	0
Carrier	0	1	1	1
(Spare)	0	1	1	0
DVT	0	0	1	1
(Spare)	0	0	1	0
(Spare)	0	0	0	1
PVT	0	0	0	0

Board ID[4:0]					
Float=Low PU=High					
	4	3	2	1	0
	X	Baseband	Form Factor	MLB/Dev	
D20 MLB	0	0	0	1	0
D20 Dev	0	0	0	1	1
D21 MLB	0	0	1	0	0
D21 Dev	0	0	1	0	1
D22 MLB	0	0	1	1	0
D22 Dev	0	0	1	1	1
D201 MLB	0	1	0	1	0
D201 Dev	0	1	0	1	1
D211 MLB	0	1	1	0	0
D211 Dev	0	1	1	0	1
D221 MLB	0	1	1	1	0
D221 Dev	0	1	1	1	1

Boot Config[2:0]			
Float=Low I PU=High			
	2	1	0
SPI0	0	0	0
SPI0 Test Mode	0	0	1
SPI0 NAND	0	1	0
SPI0 NAND Test	0	1	1
Slow SPI0 Test	1	1	0

SOC - USB, JTAG, XTAL



PAGE TITLE			SOC: JTAG, USB, XTAL		
 Apple Inc. 迅维职业技能培训中心		DRAWING NUMBER		051-02221	SIZE
		BRANCH		ext-1	D
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		PAGE		100-800-9990	
		SHEET		10 OF 80	6 OF 51



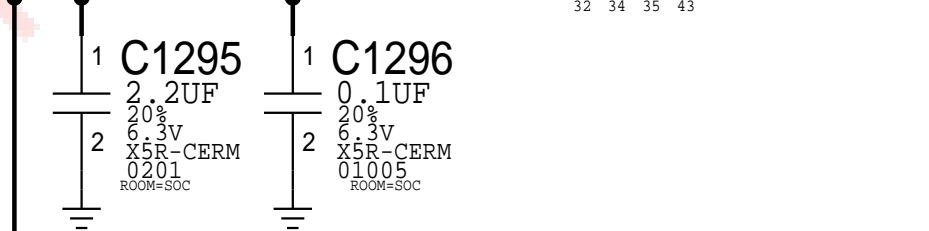
SOC - MIPI & ISP INTERFACES

MIPI Lane & Polarity Swapping

Program	Function	SOC LANE	DISTAL LANE	Lane Swap	Polarity Swap
X891	Display	Clock_P	Clock_N		✓
		Clock_N	Clock_P		
		Lane_0_P	Lane_0_N		
		Lane_0_N	Lane_0_P		
		Lane_1_P	Lane_1_N		
		Lane_1_N	Lane_1_P		
	FCAM	Lane_2_P	Lane_2_N	✓	
		Lane_2_N	Lane_2_P		
		Lane_3_P	Lane_3_N	✓	✓
		Lane_3_N	Lane_3_P		
		Lane_2_P	Lane_2_N	✓	✓
		Lane_2_N	Lane_2_P		
JULIET	Clock	Clock_P	Clock_N		✓
		Clock_N	Clock_P		
	Lane_0	Lane_0_P	Lane_0_N		✓
		Lane_0_N	Lane_0_P		
	Lane_1	Lane_1_P	Lane_1_N		✓
		Lane_1_N	Lane_1_P		

(Analog)
0.765V - 0.84V @ 40mA MAX
PP0V8_SOC_FIXED_S1

1.62V - 1.98V @ 10mA MAX
PPIV8_IO



JULIET MIPI	90_MIPI_JULIET_TO_AP_DATA0_P	MAKE_BASE	90_MIPI_JULIET_TO_AP_DATA0_P	B12	MIPI0C_DPDATA0
	90_MIPI_JULIET_TO_AP_DATA0_N	MAKE_BASE	90_MIPI_JULIET_TO_AP_DATA0_N	A12	MIPI0C_DNDATA0
	90_MIPI_JULIET_TO_AP_DATA1_P	MAKE_BASE	90_MIPI_JULIET_TO_AP_DATA1_P	B14	MIPI0C_DPDATA1
	90_MIPI_JULIET_TO_AP_DATA1_N	MAKE_BASE	90_MIPI_JULIET_TO_AP_DATA1_N	A14	MIPI0C_DNDATA1
	90_MIPI_JULIET_TO_AP_CLK_N	MAKE_BASE	90_MIPI_JULIET_TO_AP_CLK_N	A13	MIPI0C_DPCLK
	90_MIPI_JULIET_TO_AP_CLK_P	MAKE_BASE	90_MIPI_JULIET_TO_AP_CLK_P	B13	MIPI0C_DNCLK
FCAM MIPI	MIPI0C_REXT		D12	MIPI0C_REXT	
	MIPI1C_REXT		D13	MIPI1C_REXT	
	90_MIPI_FCAM_TO_AP_DATA0_N	MAKE_BASE	90_MIPI_FCAM_TO_AP_DATA0_N	B17	MIPI1C_DPDATA0
	90_MIPI_FCAM_TO_AP_DATA0_P	MAKE_BASE	90_MIPI_FCAM_TO_AP_DATA0_P	A17	MIPI1C_DNDATA0
	90_MIPI_FCAM_TO_AP_DATA1_N	MAKE_BASE	90_MIPI_FCAM_TO_AP_DATA1_N	B15	MIPI1C_DPDATA1
	90_MIPI_FCAM_TO_AP_DATA1_P	MAKE_BASE	90_MIPI_FCAM_TO_AP_DATA1_P	A15	MIPI1C_DNDATA1
Display MIPI	90_MIPI_FCAM_TO_AP_CLK_P	MAKE_BASE	90_MIPI_FCAM_TO_AP_CLK_P	A16	MIPI1C_DPCLK
	90_MIPI_FCAM_TO_AP_CLK_N	MAKE_BASE	90_MIPI_FCAM_TO_AP_CLK_N	B16	MIPI1C_DNCLK
	90_MIPI_AP_TO_DISPLAY_DATA0_P		A10	MIPID_DPDATA0	
	90_MIPI_AP_TO_DISPLAY_DATA0_N		B10	MIPID_DNDATA0	
	90_MIPI_AP_TO_DISPLAY_DATA1_P	MAKE_BASE	90_MIPI_AP_TO_DISPLAY_DATA1_P	B9	MIPID_DPDATA1
	90_MIPI_AP_TO_DISPLAY_DATA1_N	MAKE_BASE	90_MIPI_AP_TO_DISPLAY_DATA1_N	A9	MIPID_DNDATA1
	90_MIPI_AP_TO_DISPLAY_DATA3_P	MAKE_BASE	90_MIPI_AP_TO_DISPLAY_DATA3_P	A7	MIPID_DPDATA2
	90_MIPI_AP_TO_DISPLAY_DATA3_N	MAKE_BASE	90_MIPI_AP_TO_DISPLAY_DATA3_N	B7	MIPID_DNDATA2
	90_MIPI_AP_TO_DISPLAY_DATA2_N	MAKE_BASE	90_MIPI_AP_TO_DISPLAY_DATA2_N	A6	MIPID_DPDATA3
	90_MIPI_AP_TO_DISPLAY_DATA2_P	MAKE_BASE	90_MIPI_AP_TO_DISPLAY_DATA2_P	B6	MIPID_DNDATA3
	90_MIPI_AP_TO_DISPLAY_CLK_N	MAKE_BASE	90_MIPI_AP_TO_DISPLAY_CLK_N	A8	MIPID_DPCLK
	90_MIPI_AP_TO_DISPLAY_CLK_P	MAKE_BASE	90_MIPI_AP_TO_DISPLAY_CLK_P	B8	MIPID_DNCLK

AP_TO_MANY_BSYN0
DISP_TOUCH_BSYN0
DISP_TOUCH_BSYN1

DISP_TOUCH_EB

MIPID_REXT

DISP_I2C_SCL

DISP_I2C_SDA

DISP_POL

ISP_I2C0_SCL	W35	I2C0_ISP_SCL	8 29
ISP_I2C0_SDA	V38	I2C0_ISP_SDA	8 29
ISP_I2C1_SCL	W36	I2C1_ISP_SCL	8 30
ISP_I2C1_SDA	Y36	I2C1_ISP_SDA	8 30
ISP_I2C2_SCL	Y34	I2C2_ISP_SCL	8 32
ISP_I2C2_SDA	Y38	I2C2_ISP_SDA	8 32
ISP_I2C3_SCL	AA37	I2C3_ISP_SCL	8 28 31 34 35
ISP_I2C3_SDA	AB38	I2C3_ISP_SDA	8 28 31 34 35

SENSOR_INT AB36 RIGEL_TO_ISP_INT IN 4 20 34

SENSOR0_CLK U38 AP_TO_WIDE_CLK_R

SENSOR1_CLK R38 AP_TO_TELE_CLK_R

SENSOR2_CLK R37 AP_TO_FCAM_JULIET_RIGEL_CLK_R

SENSOR0_RST V34 AP_TO_JULIET_SHUTDOWN_L

SENSOR1_RST U35 AP_TO_TELE_SHUTDOWN_L

SENSOR2_RST AB34 AP_TO_WIDE_SHUTDOWN_L

SENSOR3_RST AC37 AP_TO_FCAM_SHUTDOWN_L

SENSOR4_RST AA35

SENSOR0_ISTRB V36 AP_DEBUG3

SENSOR1_ISTRB U36

SENSOR0_XSHUTDOWN U37

SENSOR1_XSHUTDOWN T37

ISP_TO_DISPLAY_FLASH_INT

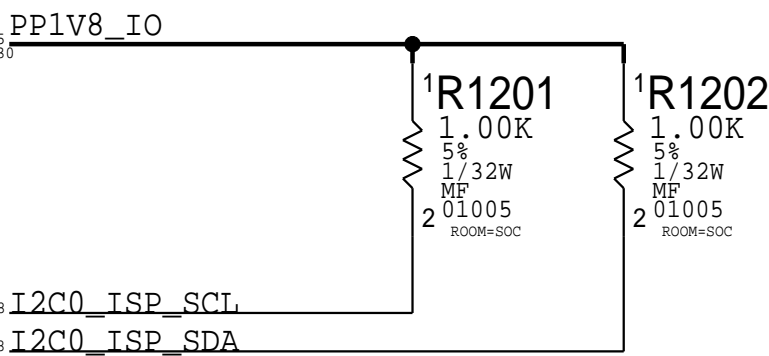
AP_TO_WIDE_CLK

AP_TO_TELE_CLK

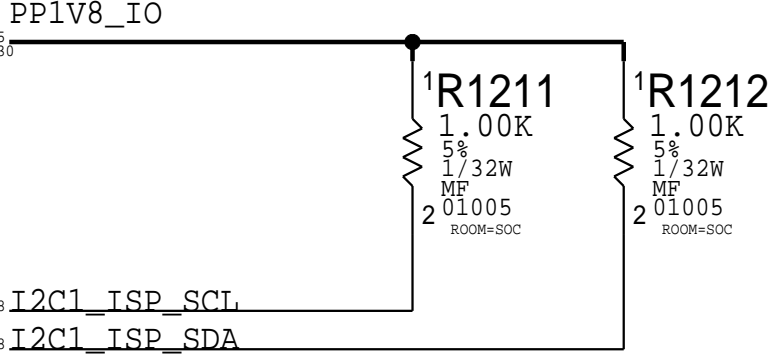
AP_TO_FCAM_JULIET_CLK

AP_TO_RIGEL_CLK

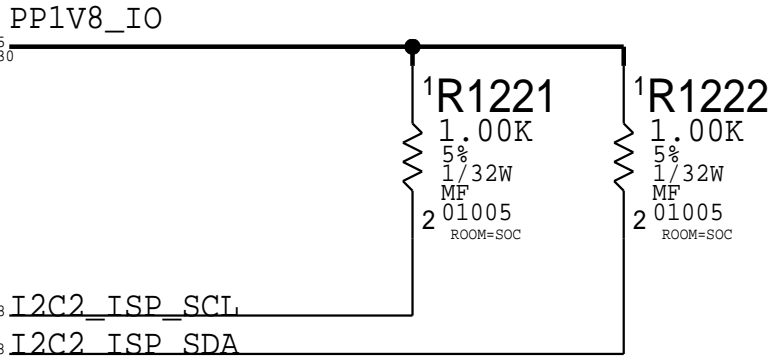
ISP I2C0



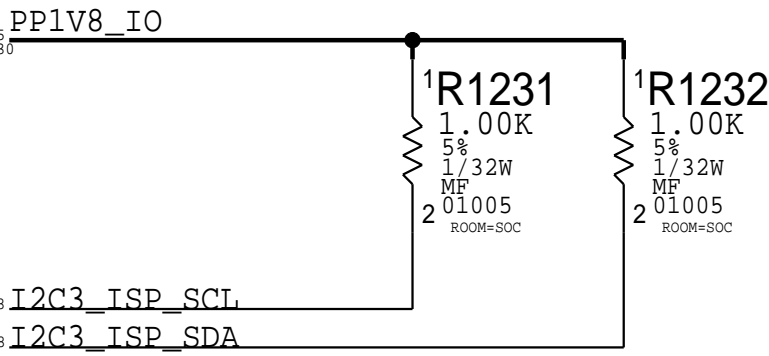
ISP I2C1



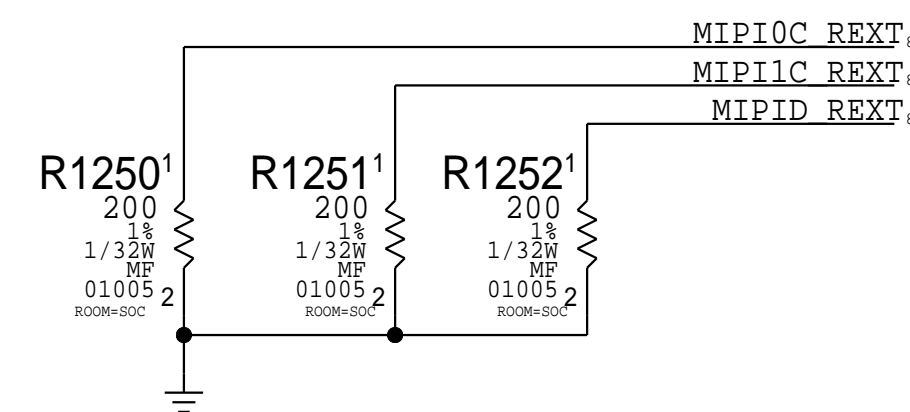
ISP I2C2



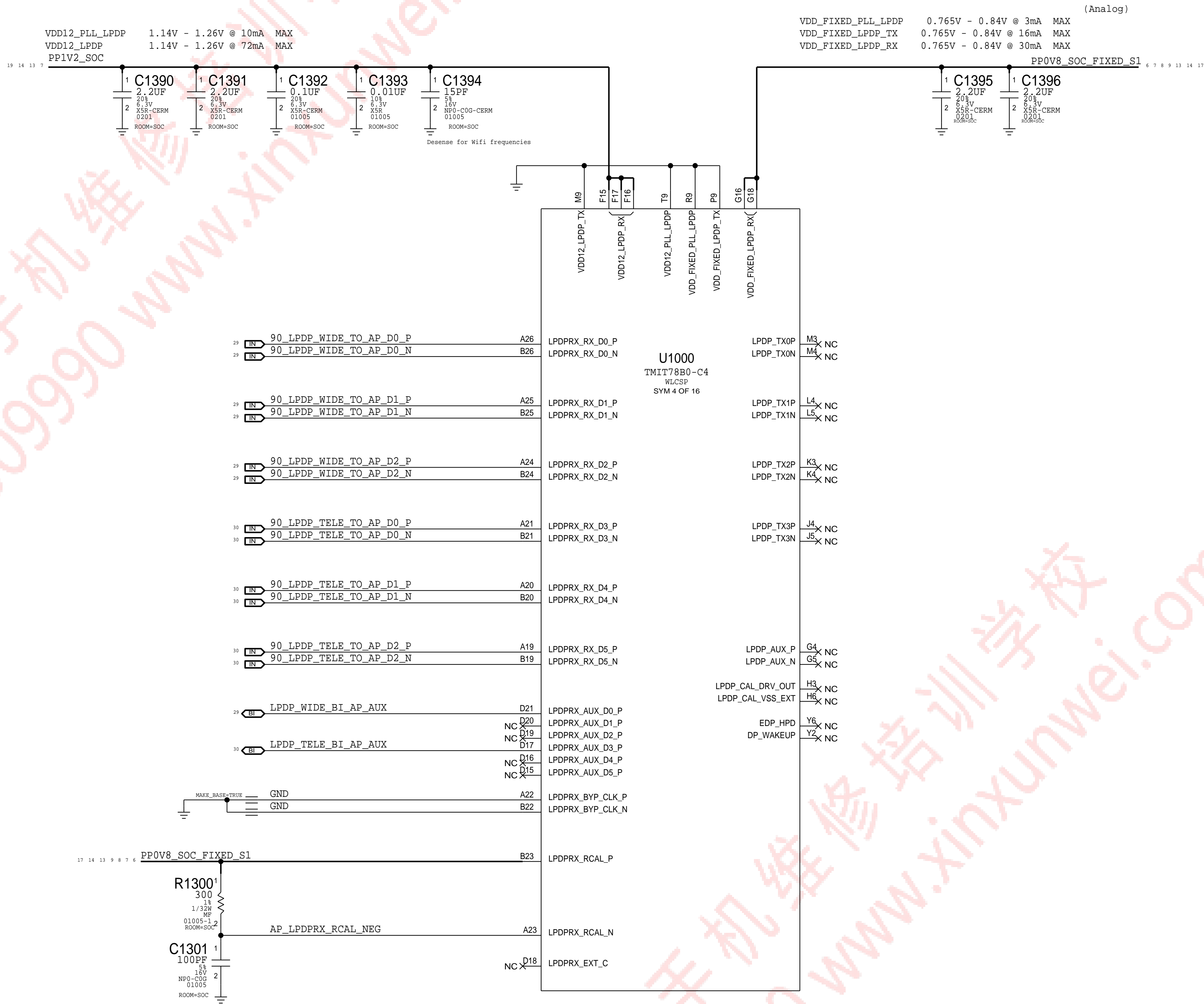
ISP I2C3



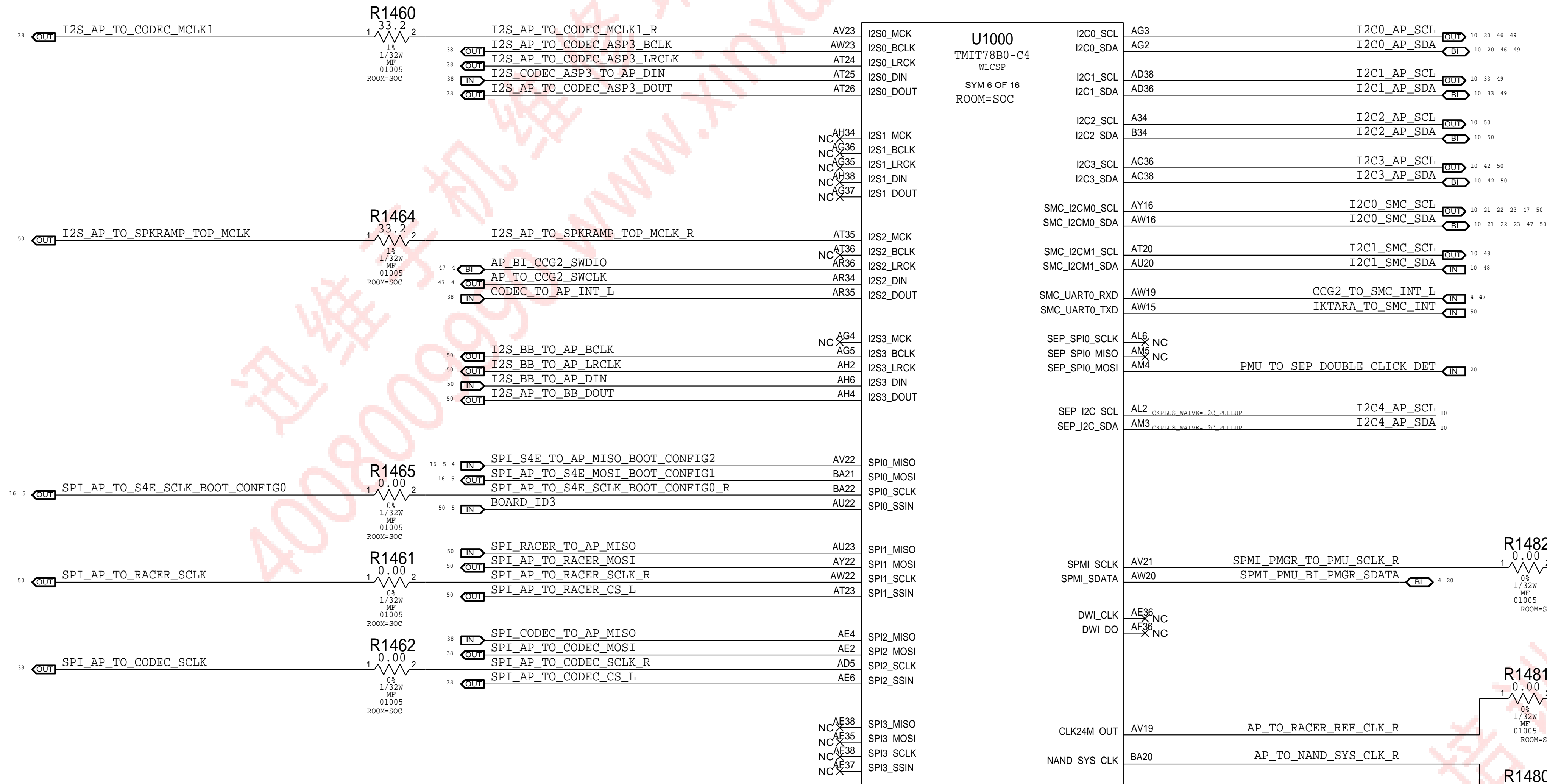
MIPI Reference



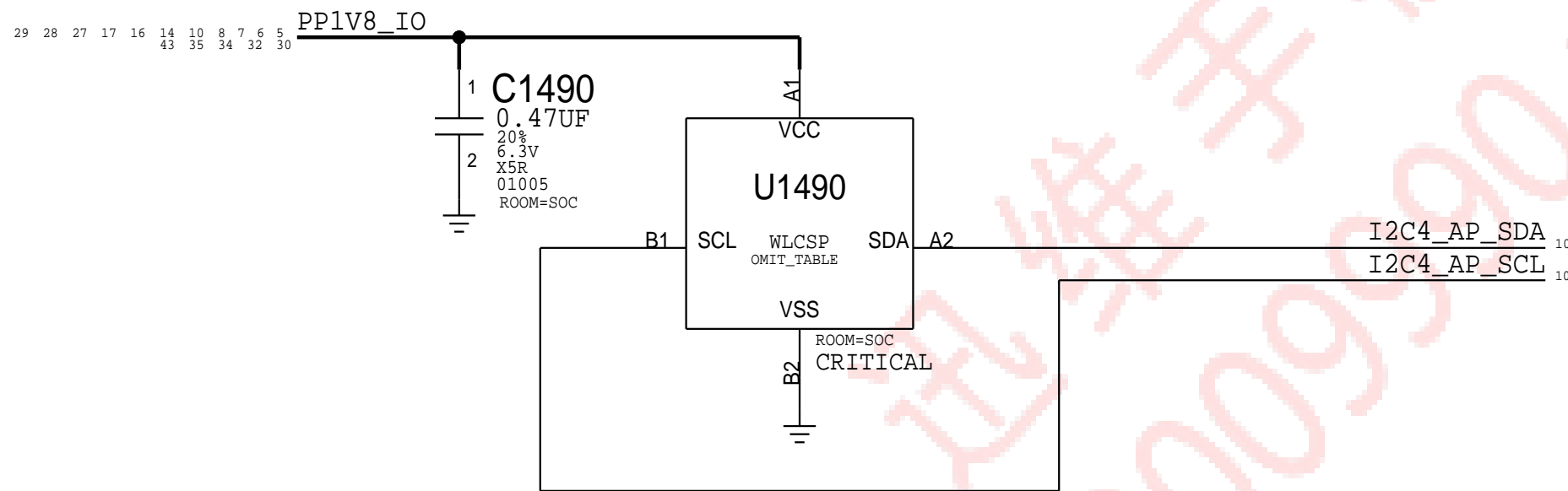
SOC - LPDP



SOC - SERIAL INTERFACES




SPI: Route as Daisy-Chain. No T's Allowed
Place series terminations close to SoC Pins

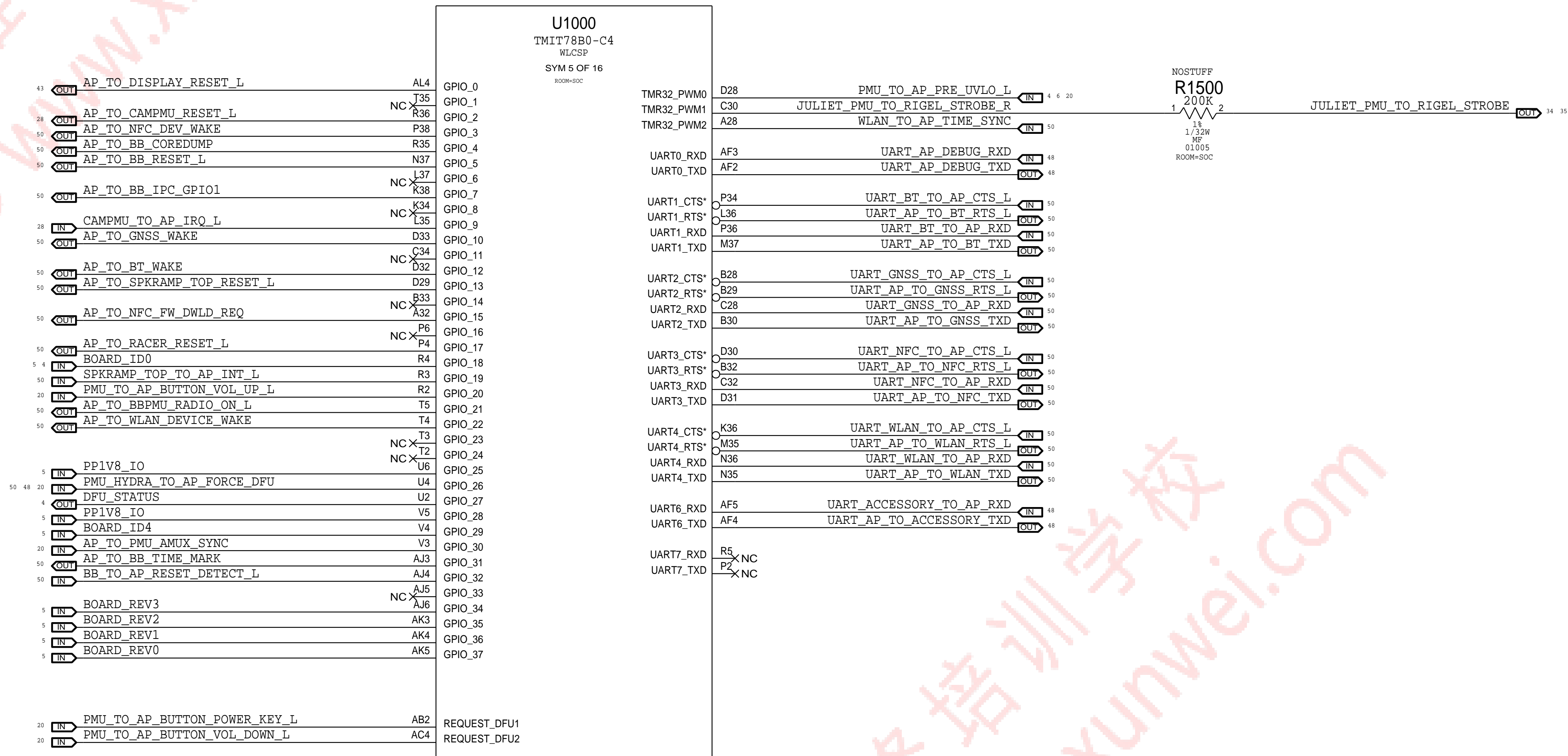


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00234	1	WLCSP	U1490	CRITICAL	COMMON

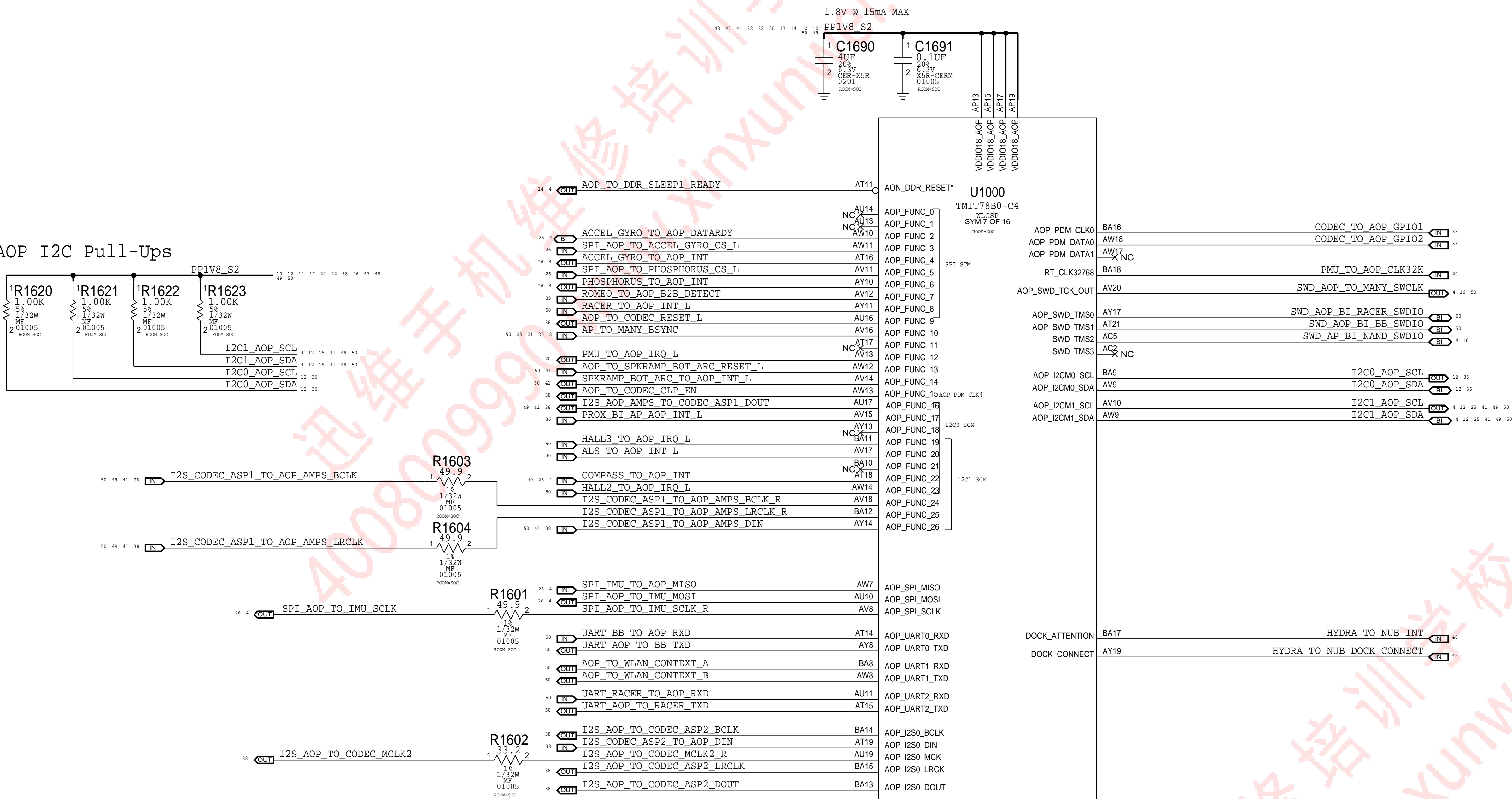
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S00233	335S00234	BOM_TABLE_ALTS	U1490	U1490


PAGE TITLE				SOC: Serial	
		DRAWING NUMBER		SIZE	
		051-02221		D	
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BRANCH					
ext-1					
SHEET					
10 OF 51					

SOC - GPIO INTERFACES



AOP I2C Pull-Ups

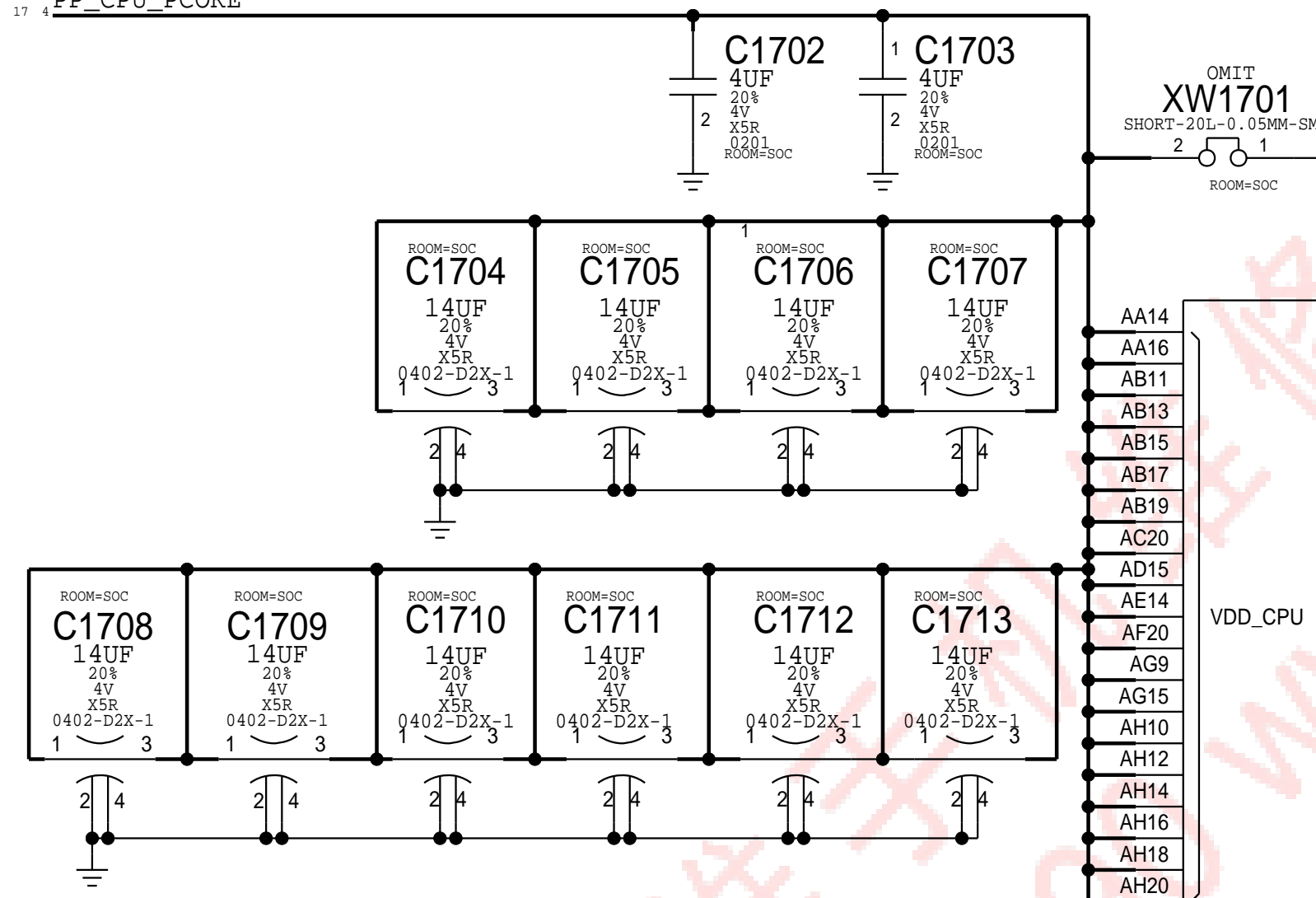


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PAGE 1		051-02221		D	
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		SHEET		12 OF 51	

SOC - CPU, GPU & SOC RAILS

1.06V @ 11.0A MAX
0.8V @ 6A MAX
0.575V @ 2.7A MAX

PP_CPU_PCORE



0.7V @ 75mA MAX

PP0V7_VDD_LOW_S2

1.01V @ 2.1A MAX

0.735V @ 0.6A MAX

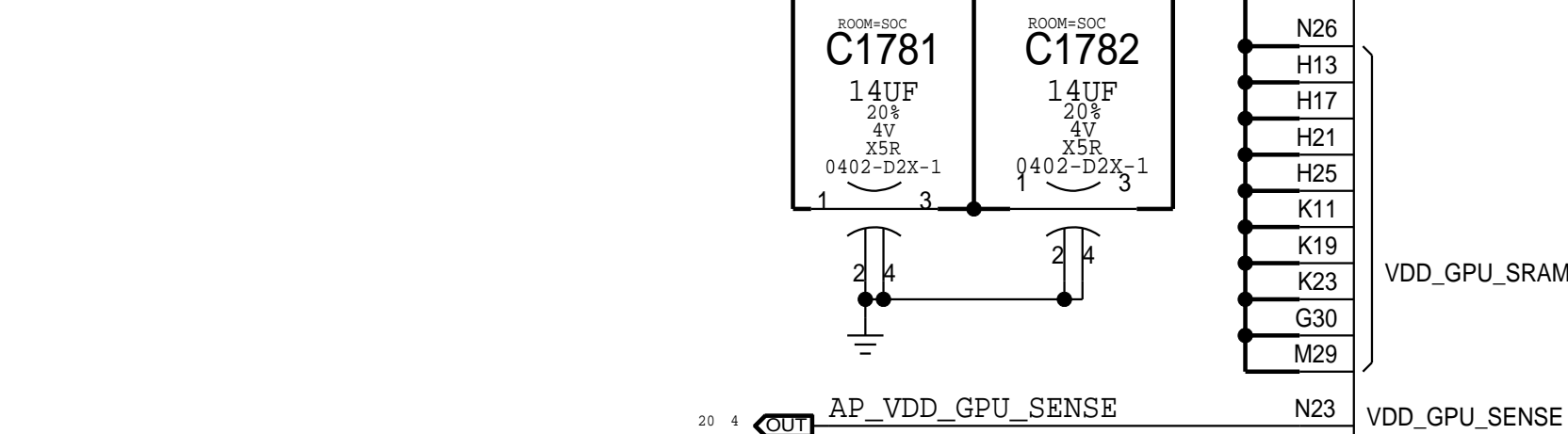
PP_CPU_SRAM

1.06V @ 1.1A MAX

0.80V @ 0.63A MAX

0.675V @ 0.19A MAX

PP_GPU_SRAM



1.06V @ 18.3A MAX

0.8V @ 10.6A MAX

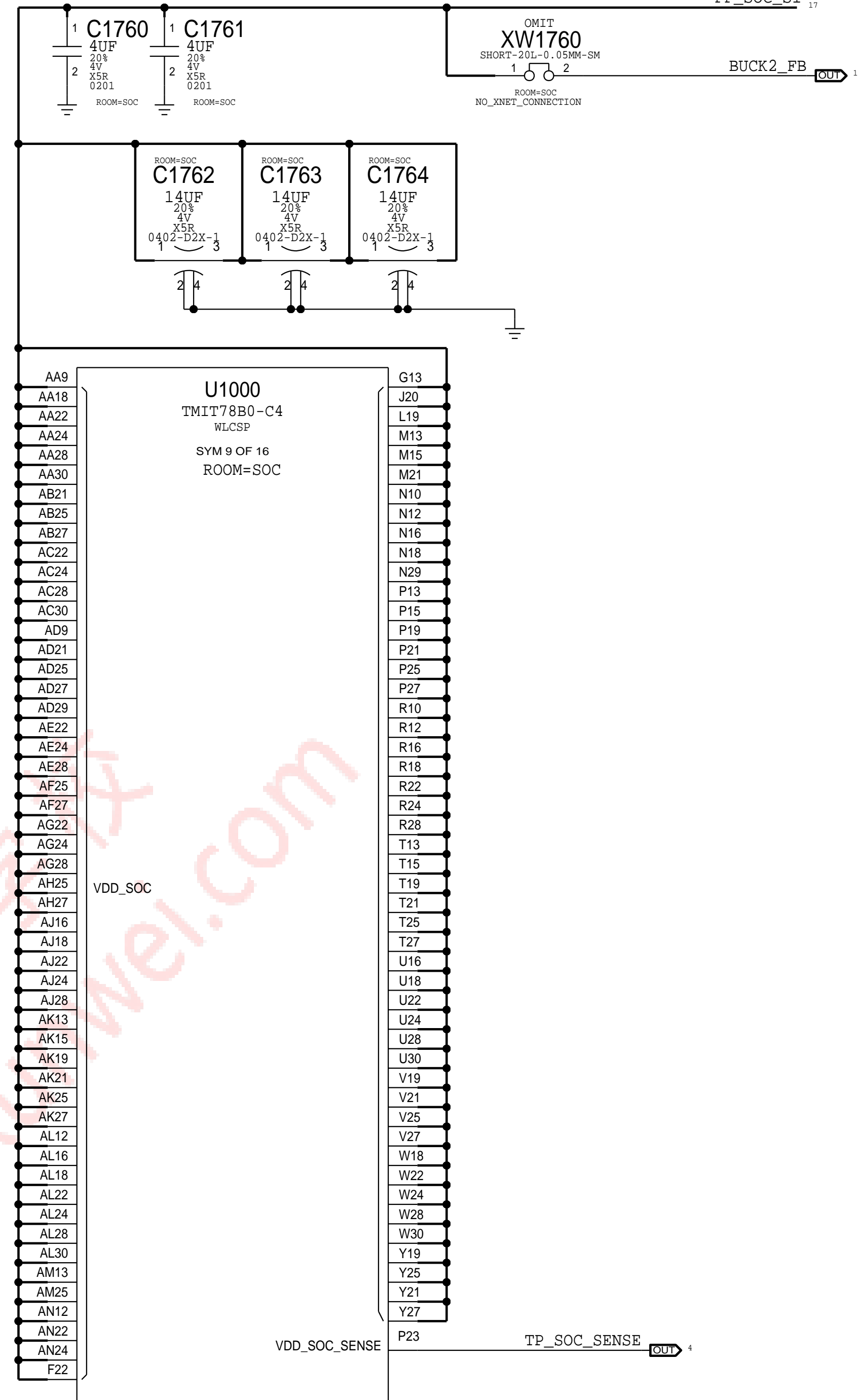
0.575V @ 3.4A MAX

PP_GPU

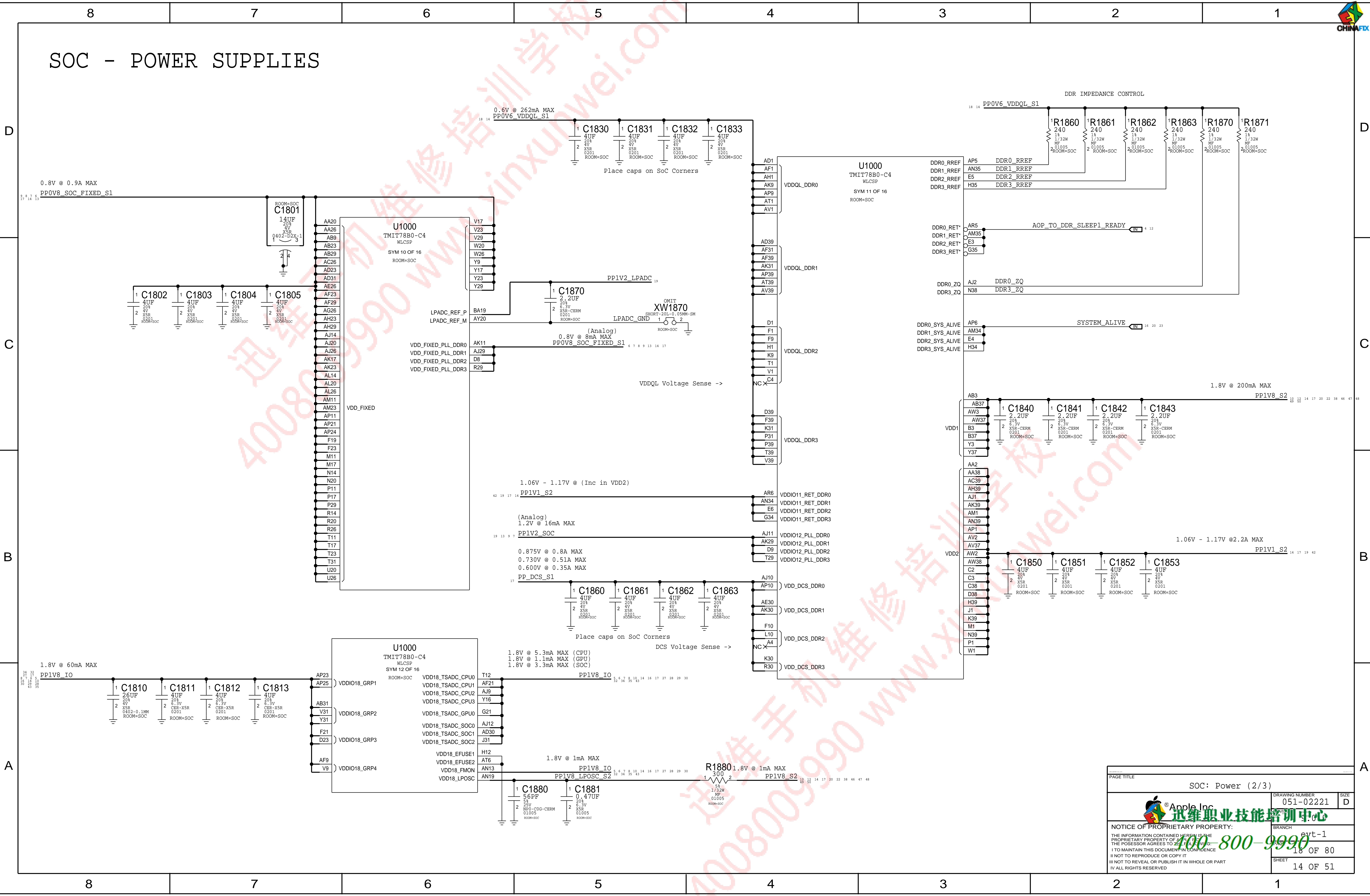
0.765V @ 4.9A MAX

0.635V @ 2.6A MAX

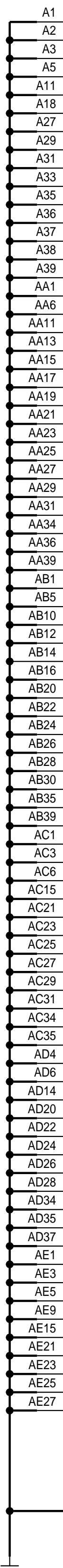
PP_SOC_S1



SOC - POWER SUPPLIES



A1
A2
A11
A3
A5
A18
A27
A29
A31
A33
A35
A36
A37
A38
A39
AA1
AA6
AA11
AA13
AA15
AA17
AA19
AA21
AA23
AA25
AA27
AA29
AA31
AA34
AA36
AA39
AB1
AB10
AB12
AB14
AB16
AB20
AB22
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AC1
AC3
AC6
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AC31
AC34
AC35
AD4
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AD24
AD26
AD28
AD34
AD35
AD37
AE1
AE3
AE5
AE9
AE15
AE21
AE23
AE25
AE27





1

[illegible]



D

C

B

A

BUCK0
1.3.8A MAX

BUCK1
1.3.8A MAX

BUCK2
4.9A MAX

BUCK3
1.7A MAX

1

2

3


4

5

6

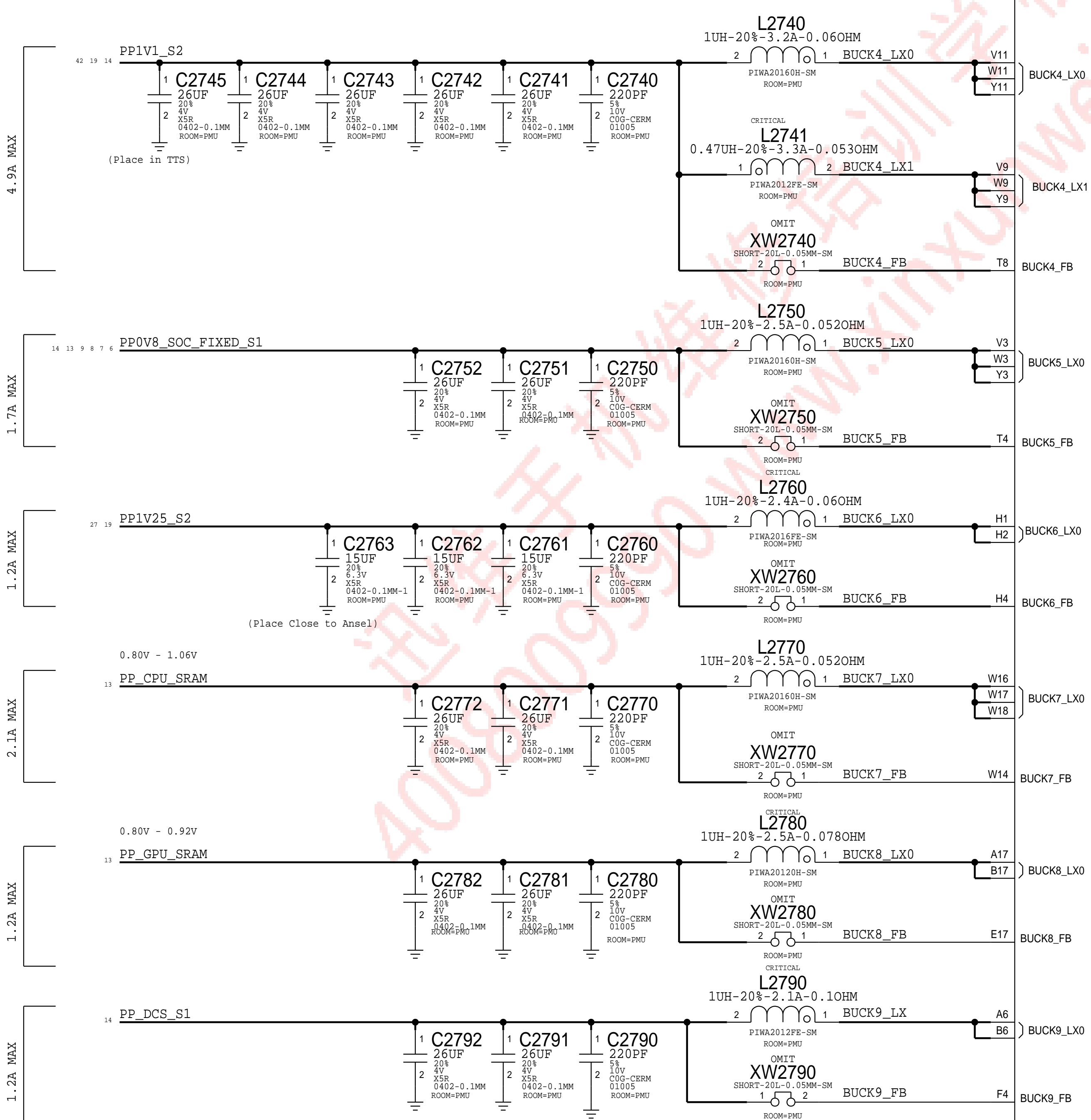
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				17 OF 51	

SWITCH OUTPUTS

U2700
D2422B0
WLCSP
SYM 2 OF 5
ROOM=PMU
CRITICAL



BUCK4
4.9A MAX

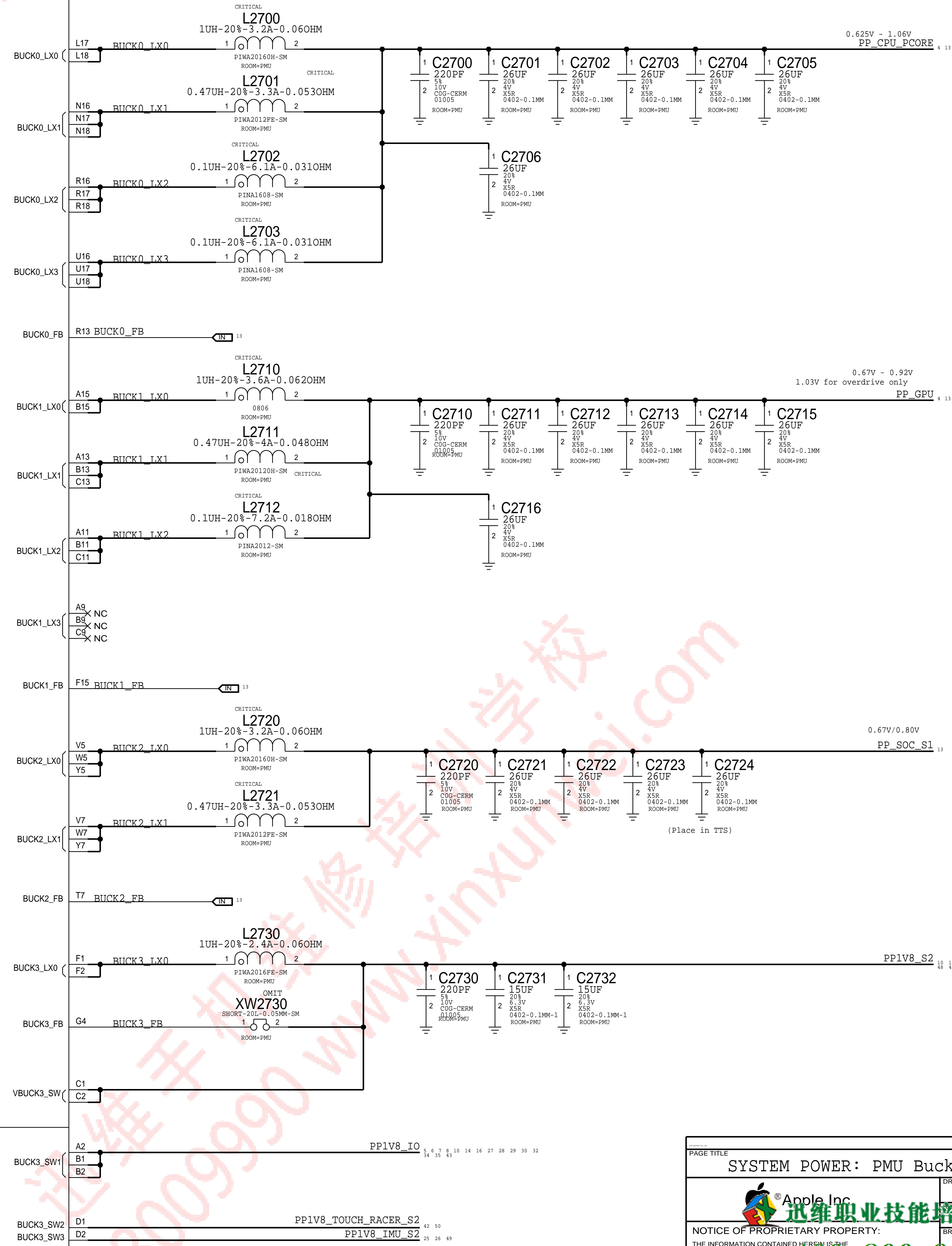
BUCK5
1.7A MAX

BUCK6
1.2A MAX

BUCK7
2.1A MAX

BUCK8
1.2A MAX

BUCK9
1.2A MAX



BUCK0_LX0
L17
L18

BUCK0_LX1
N16
N17
N18

BUCK0_LX2
R16
R17
R18

BUCK0_LX3
U16
U17
U18

BUCK0_FB
R13 BUCK0_FB

BUCK1_LX0
A15
B15

BUCK1_LX1
A13
B13
C13

BUCK1_LX2
A11
B11
C11

BUCK1_LX3
A9
B9
C9

BUCK1_FB
F15 BUCK1_FB

BUCK2_LX0
V5
W5
Y5

BUCK2_LX1
V7
W7
Y7

BUCK2_FB
T7 BUCK2_FB

BUCK3_LX0
F1
F2

BUCK3_FB
G4

VBUCK3_SW
C1
C2

BUCK3_SW1
A2
B1
B2

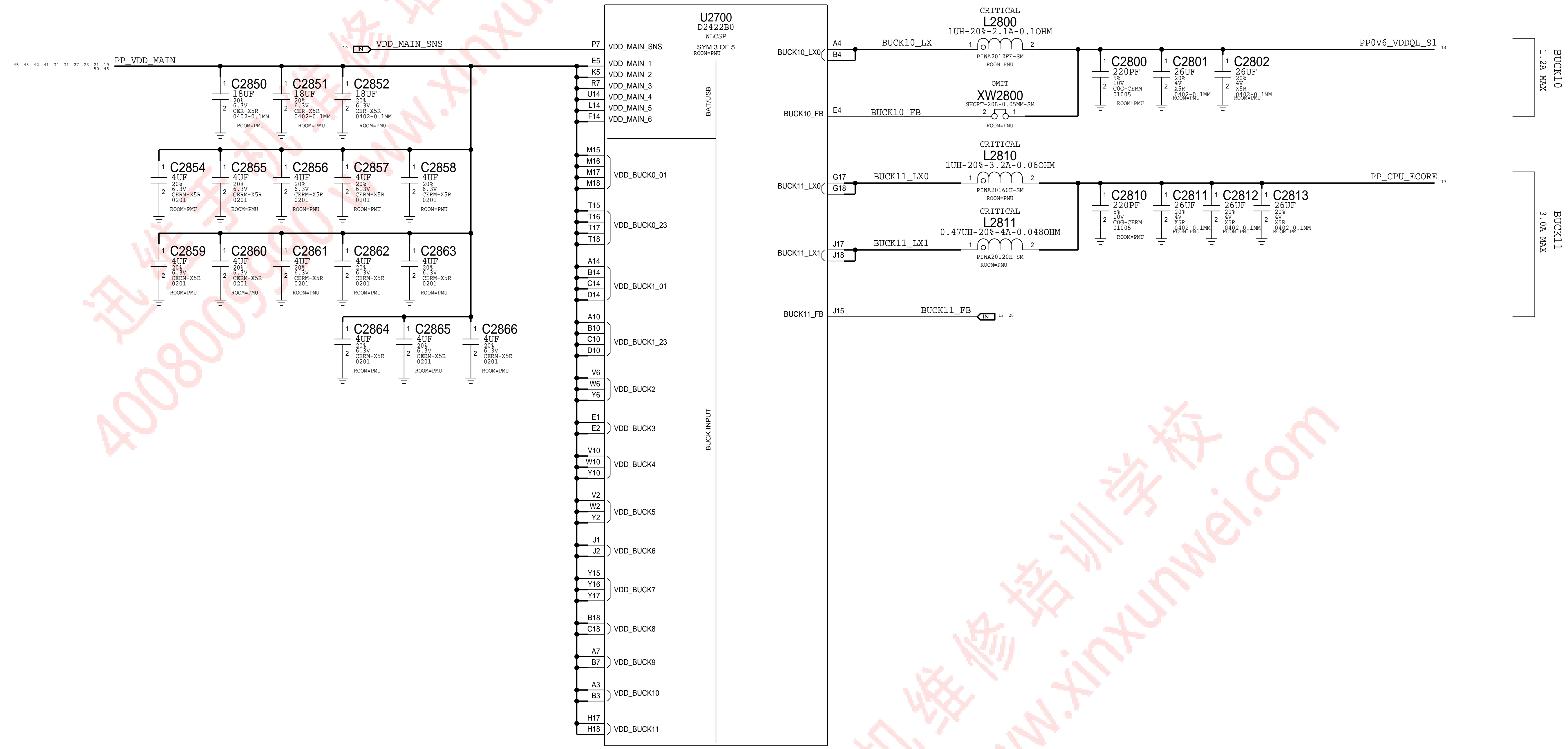
BUCK3_SW2
D1


BUCK3_SW3
D2

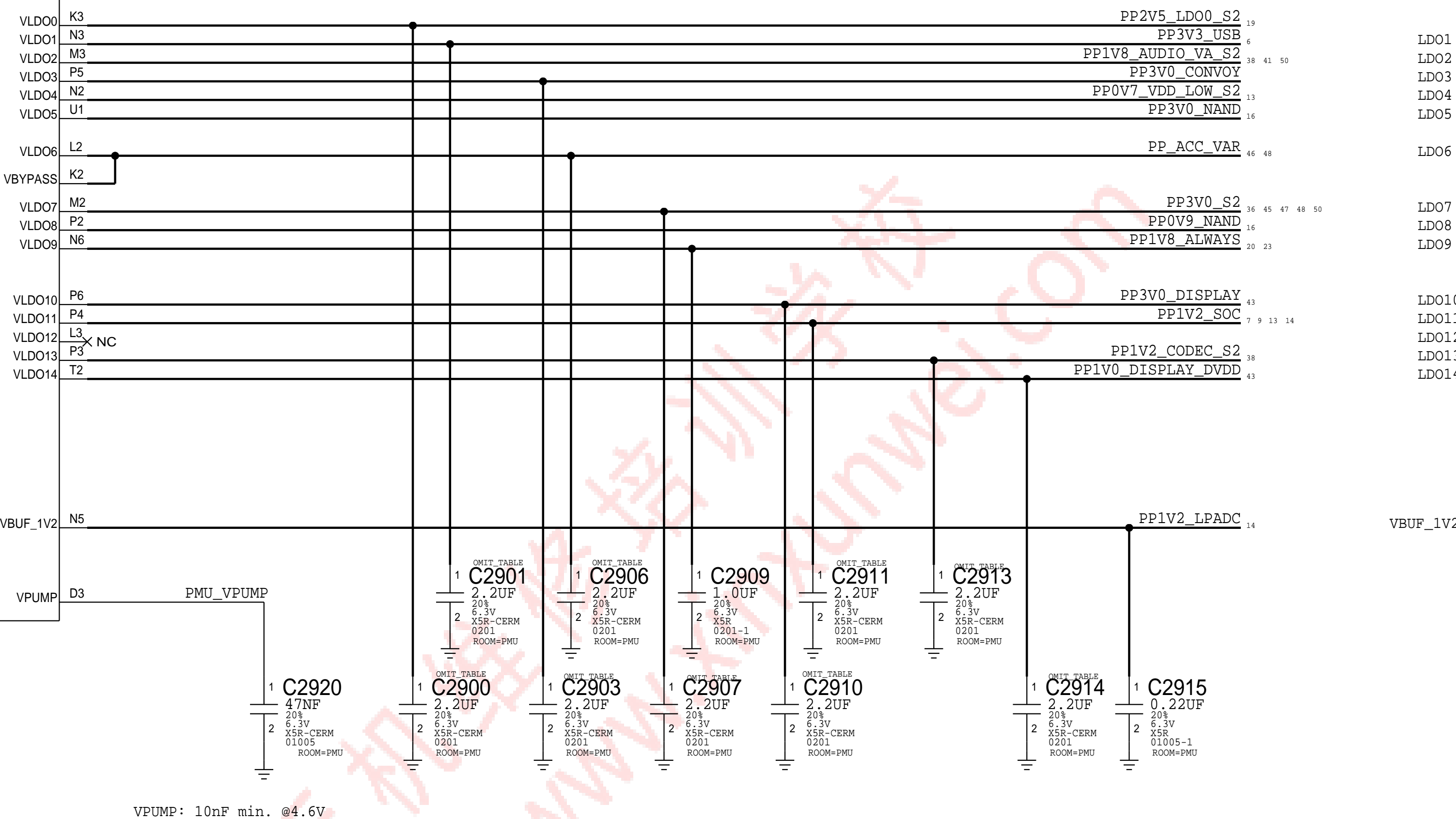
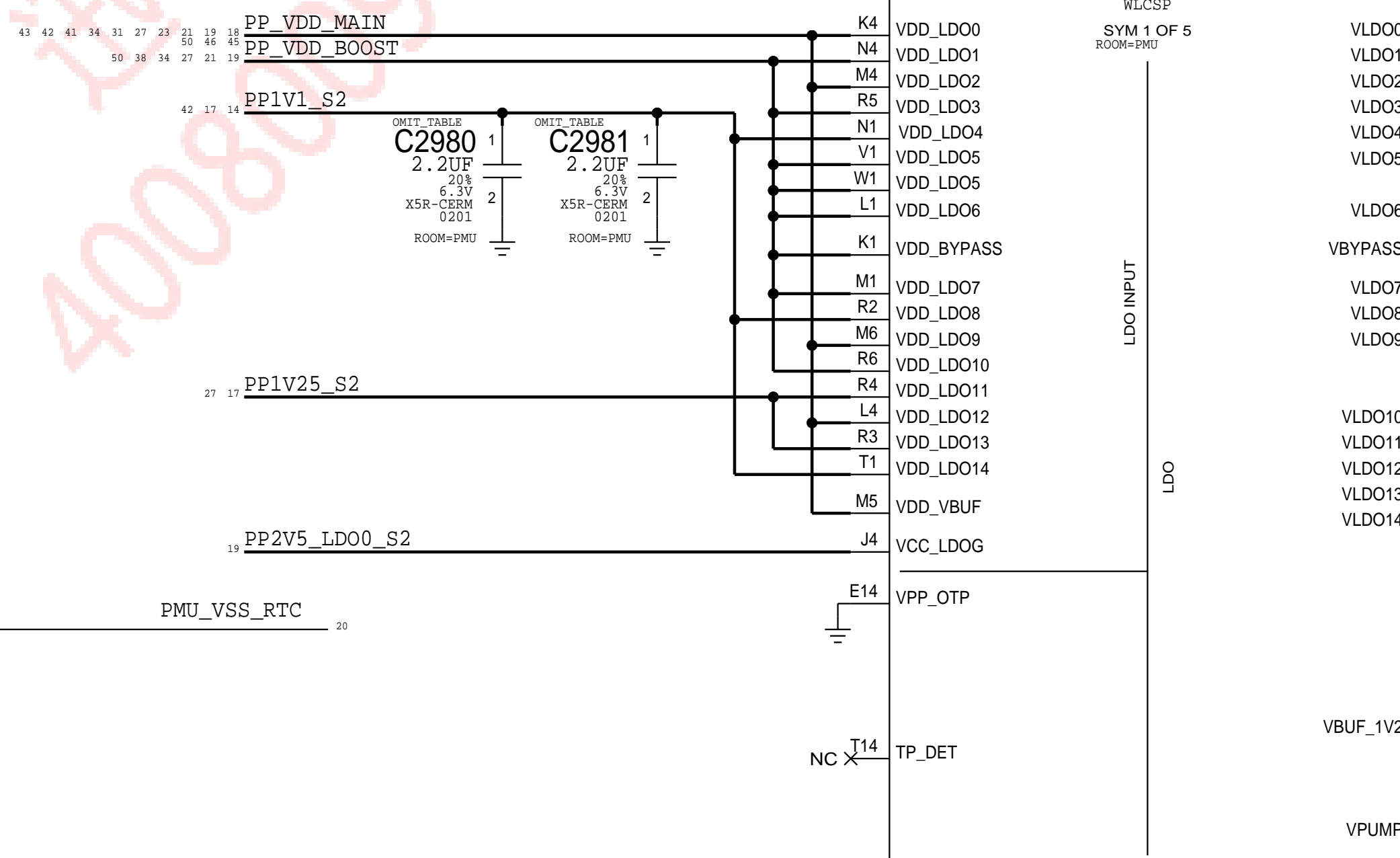
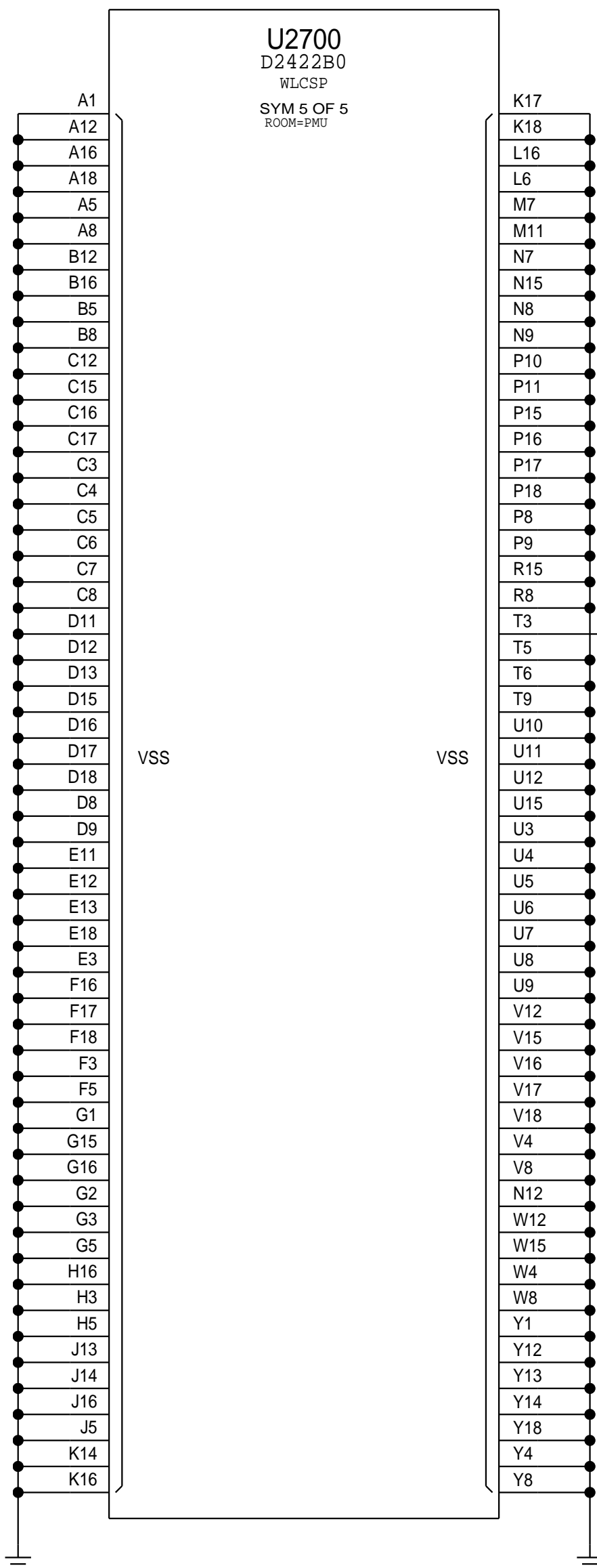
PP1V8_IO
A2
B1
B2




PP1V8_TOUCH_RACER_S2
D1
D2

PP1V8_IMU_S2
D1
D2

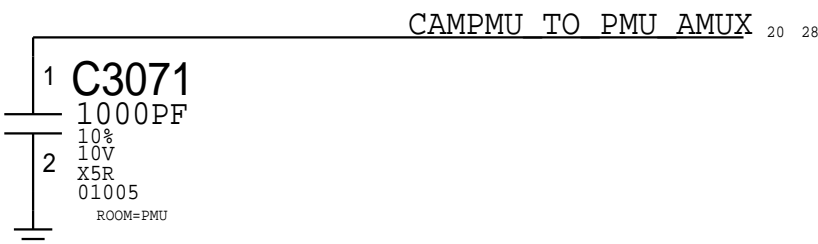


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BRANCH		ext-1
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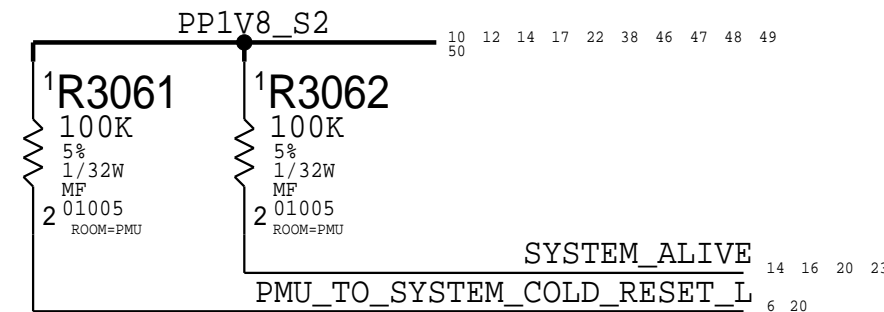


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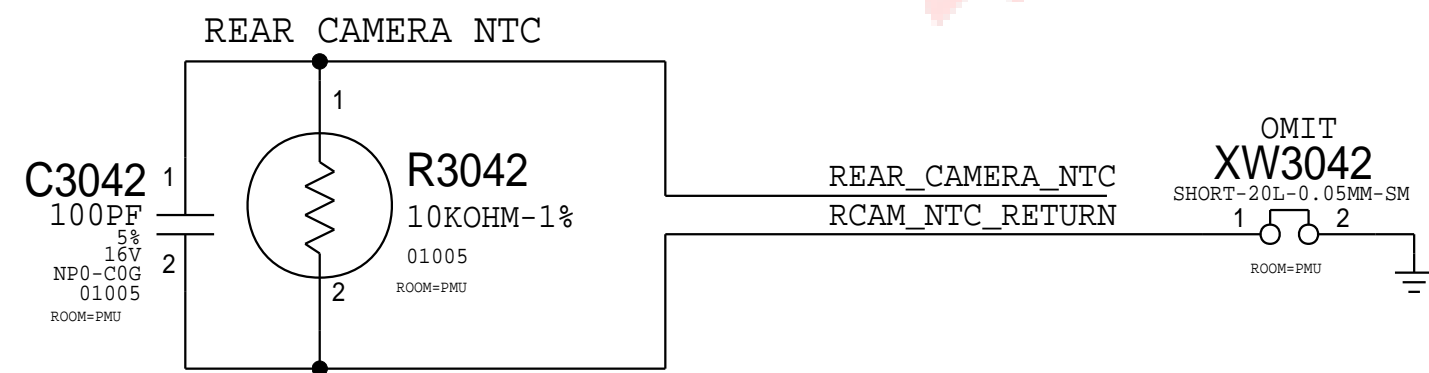
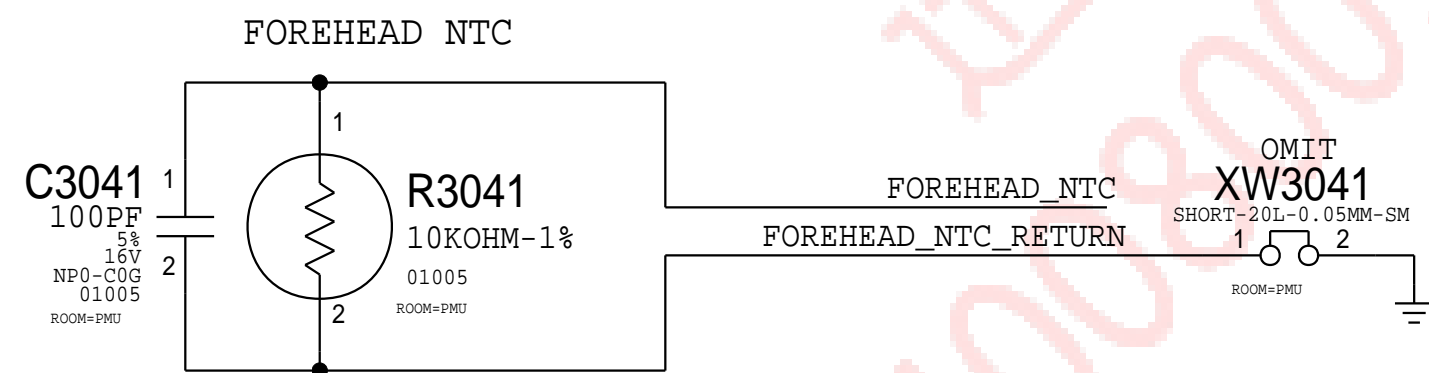
Ansel AMUX



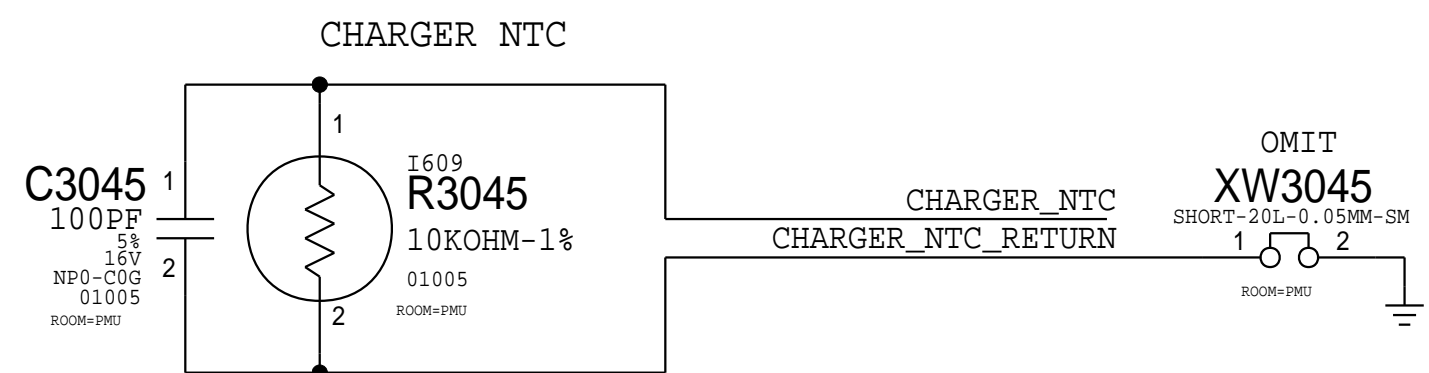
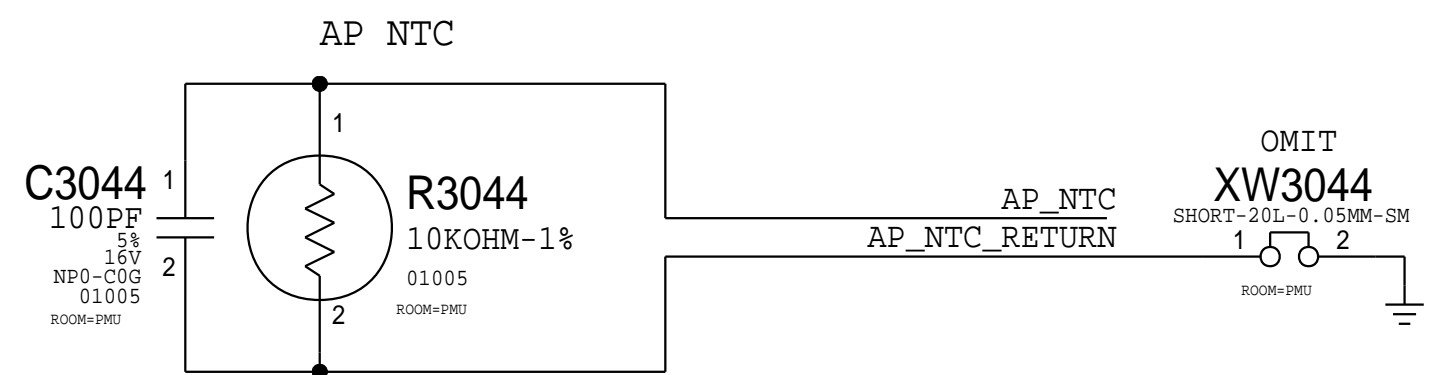
COLD_RESET & SYSTEM_ALIVE



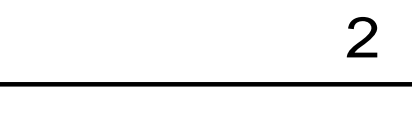
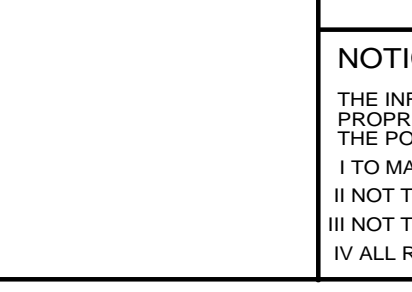
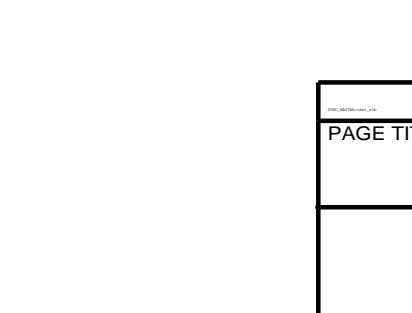
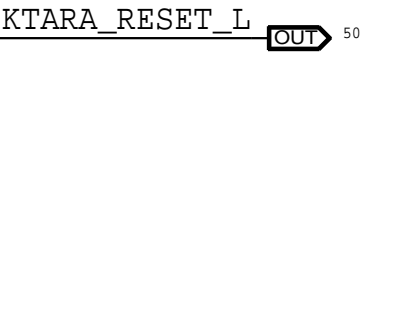
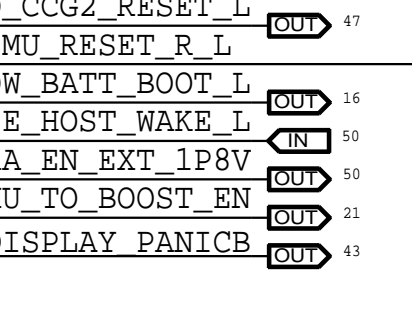
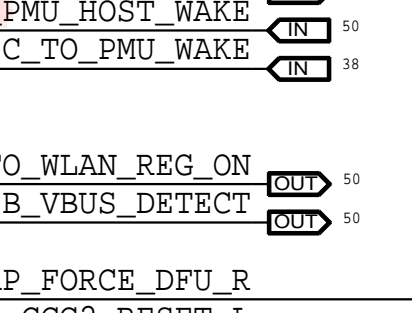
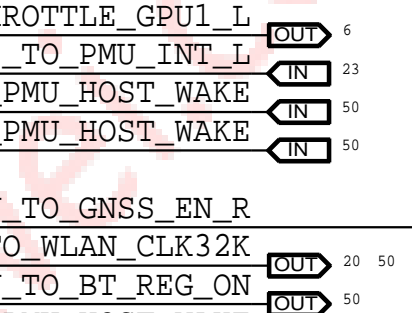
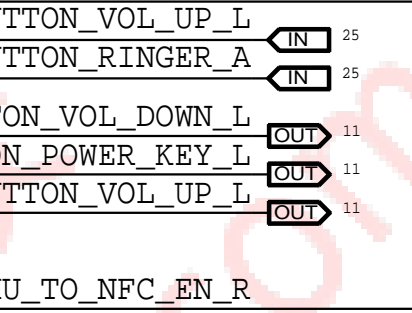
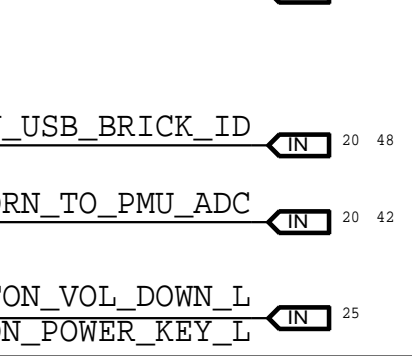
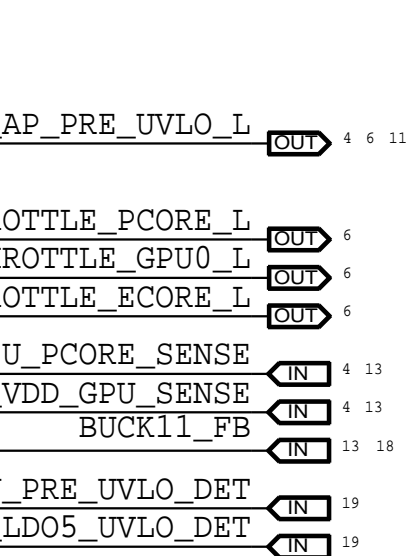
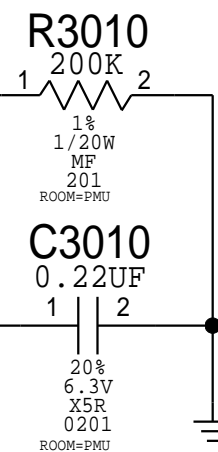
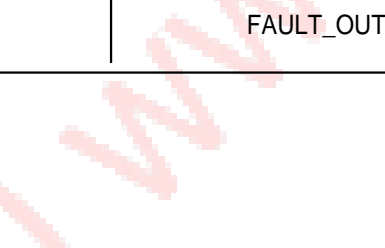
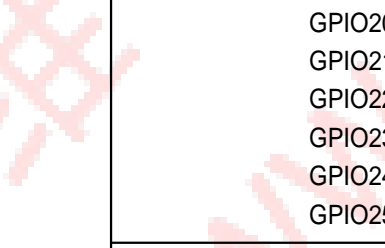
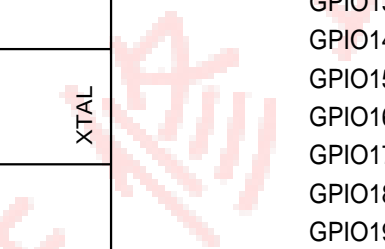
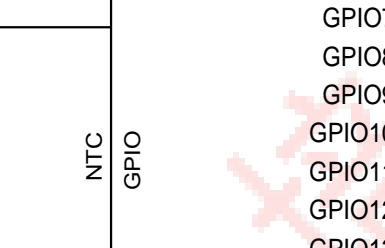
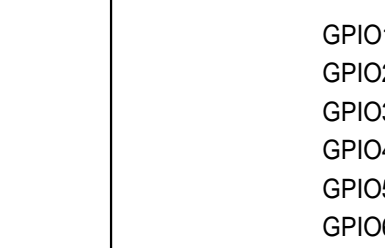
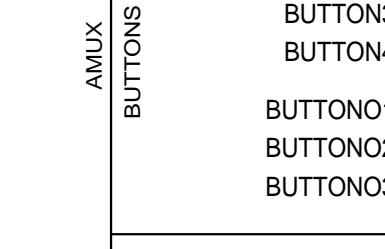
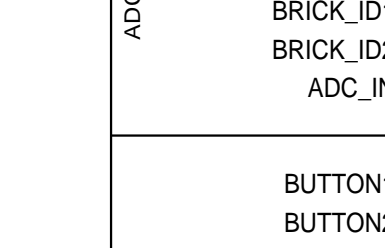
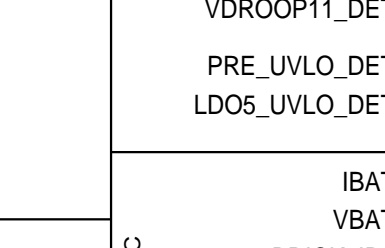
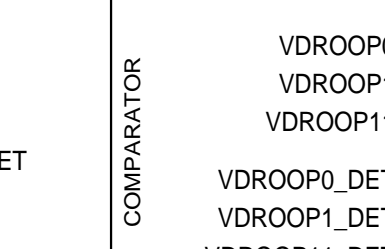
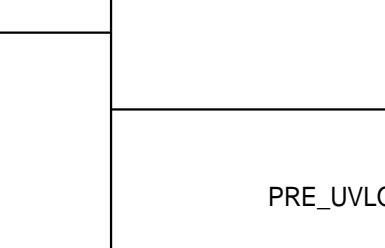
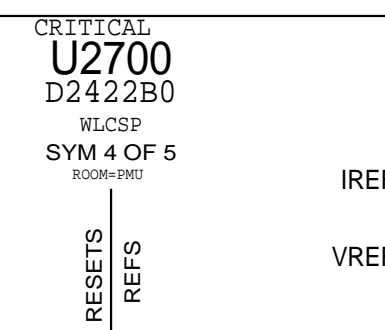
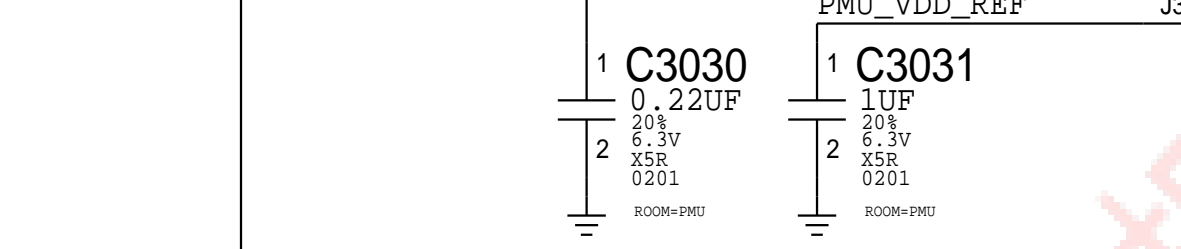
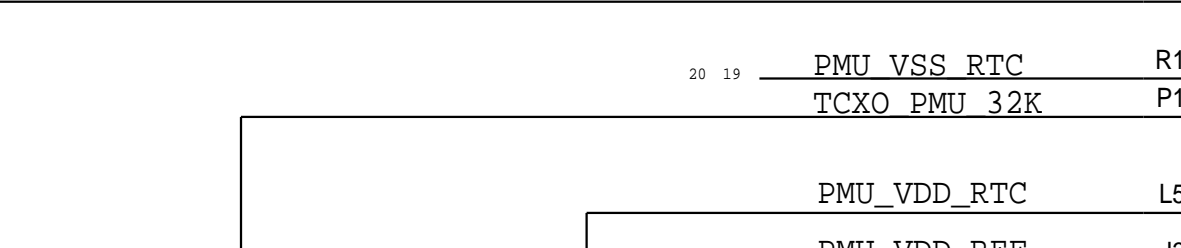
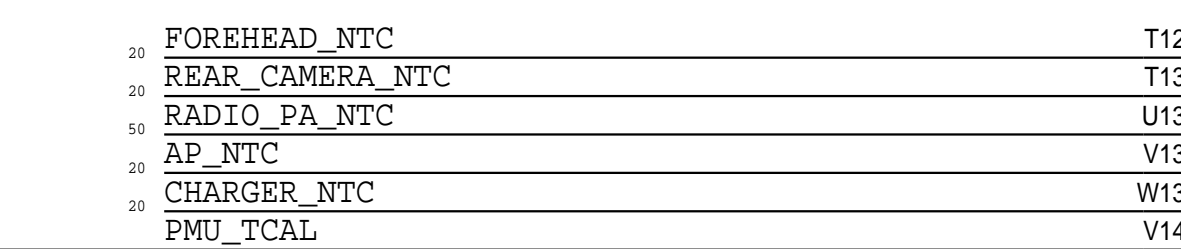
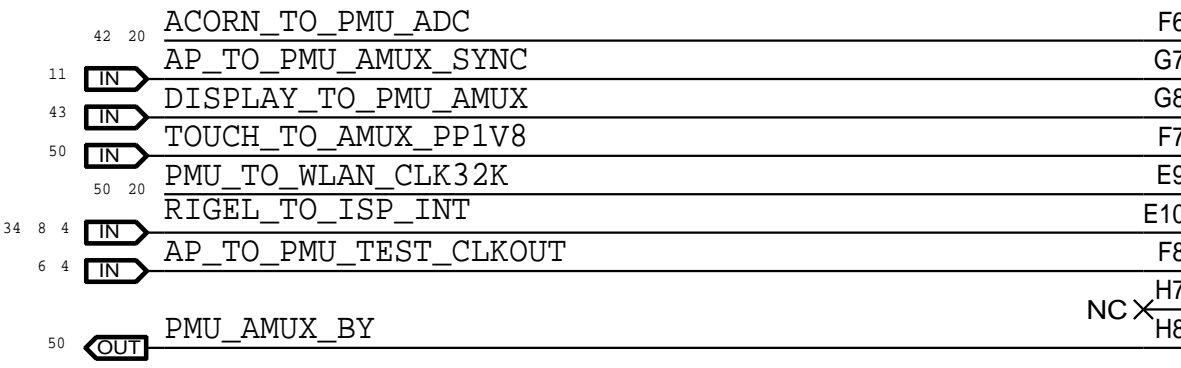
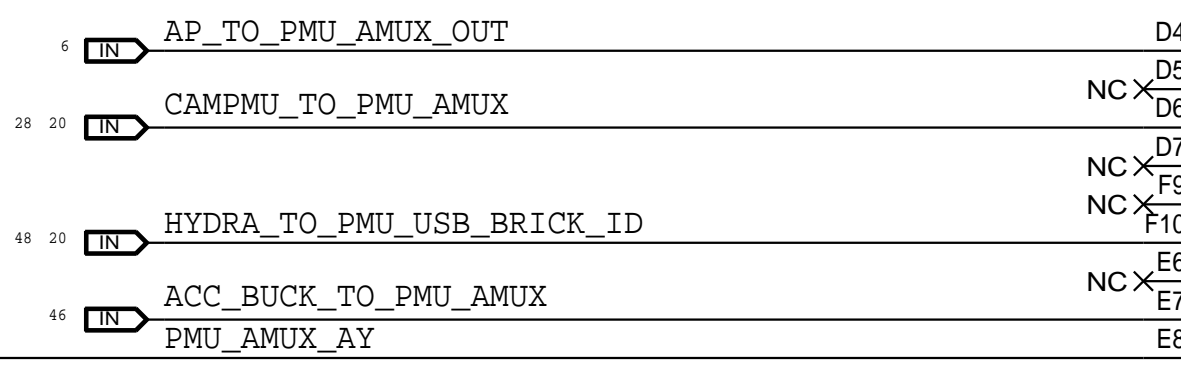
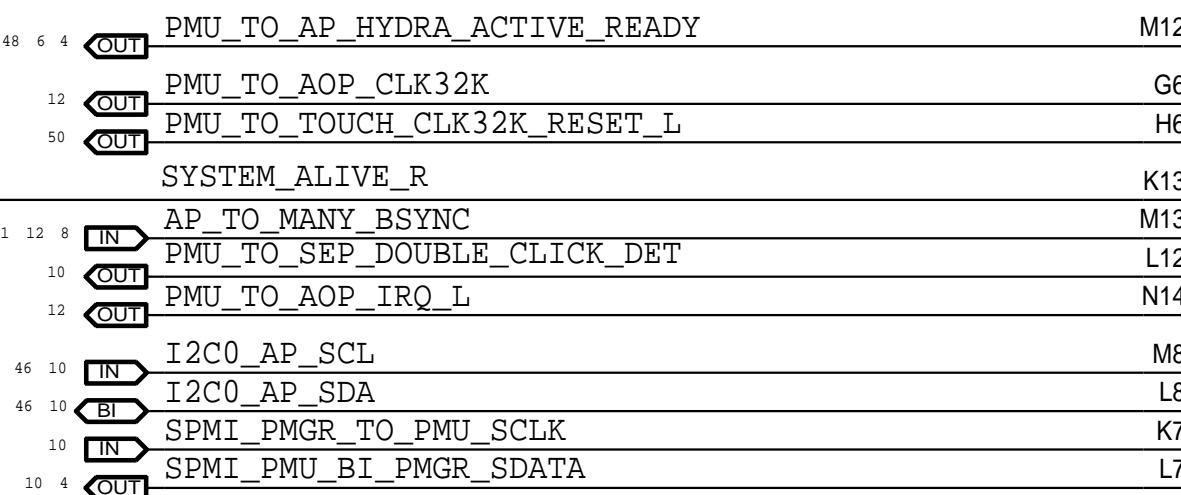
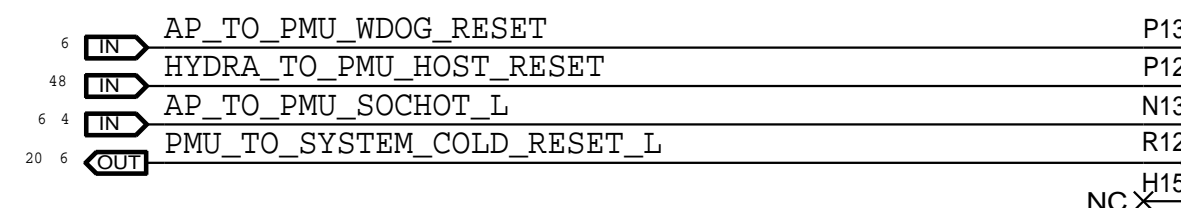
NTCs

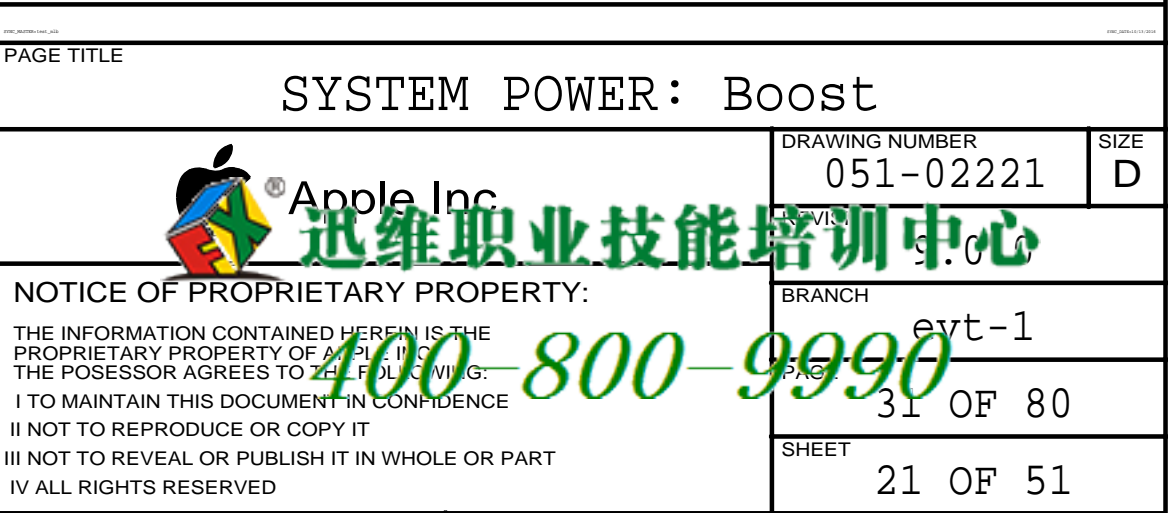


RADIO PA NTC on MLB Bottom



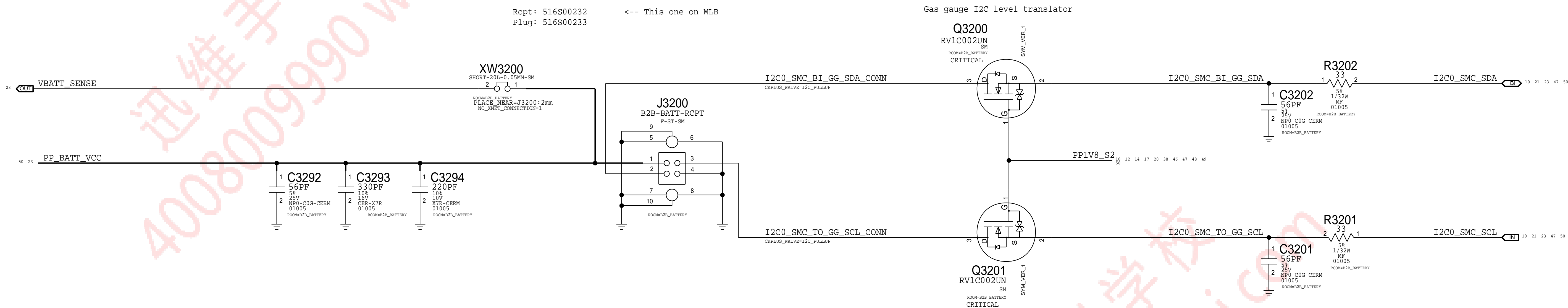
NOTE:100PF CAPS ARE THE SAMPLING CAPS FOR PMU ADC






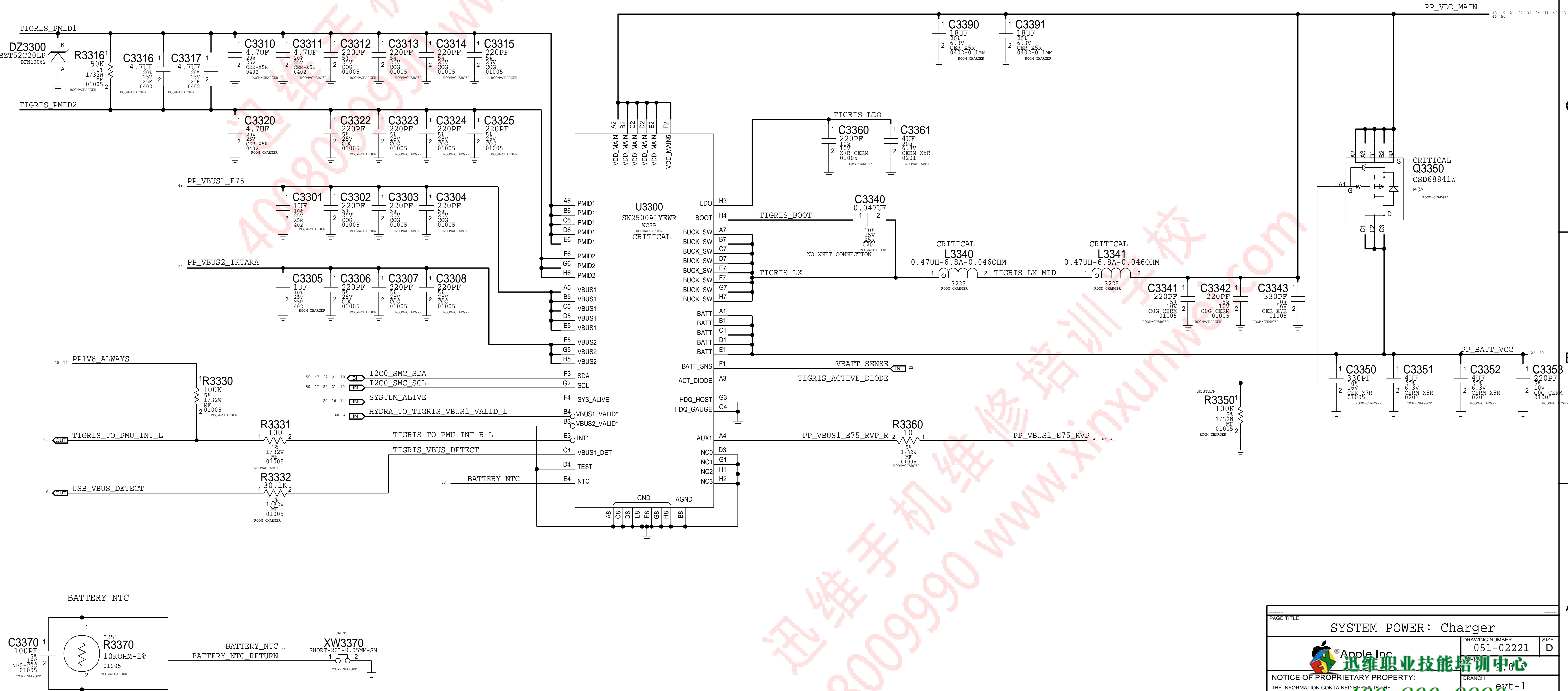
BATTERY CONNECTOR


Rcpt: 516S00232 <-- This one on MLB
Plug: 516S00233

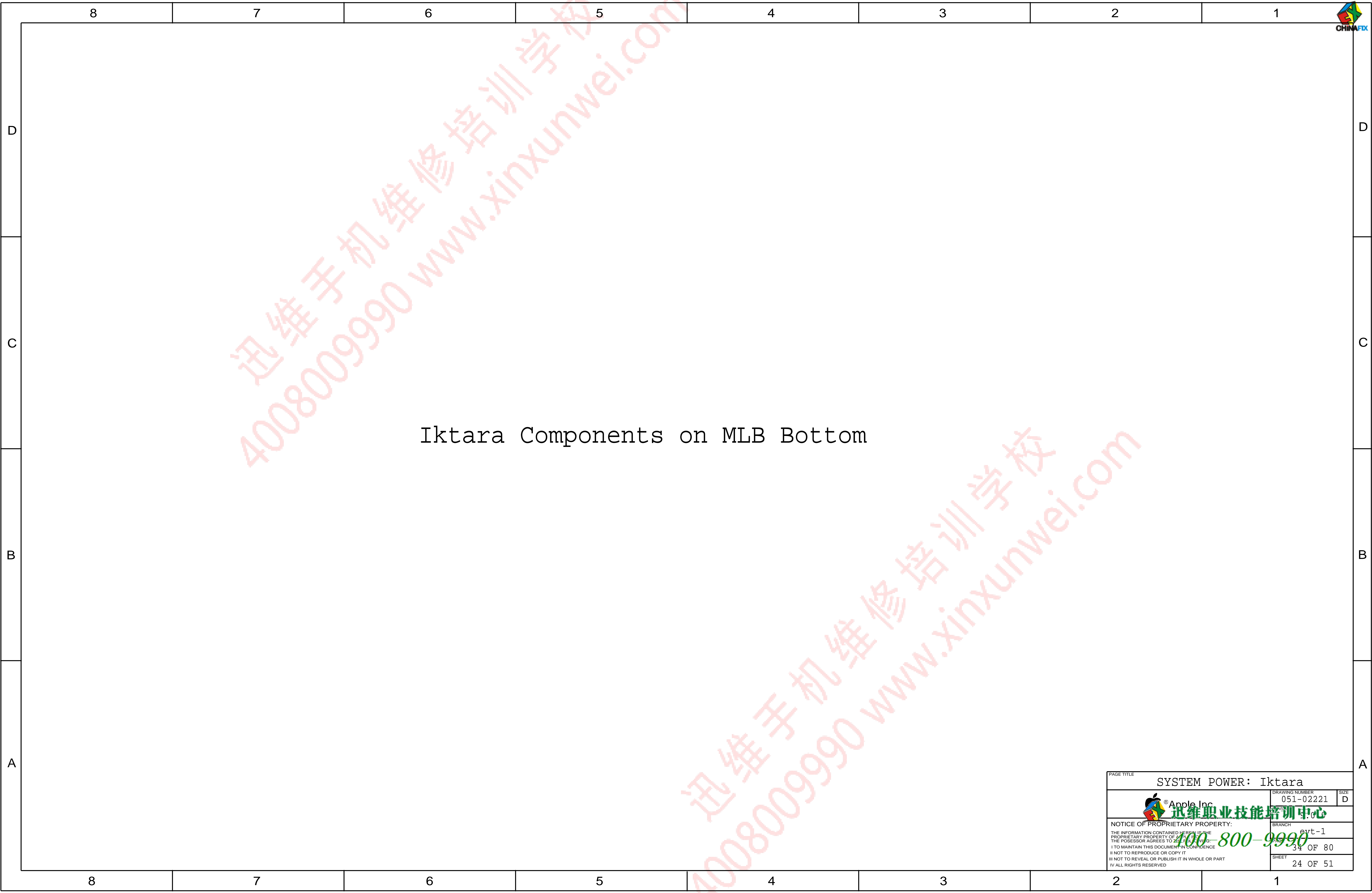


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TIGRIS2 CHARGER

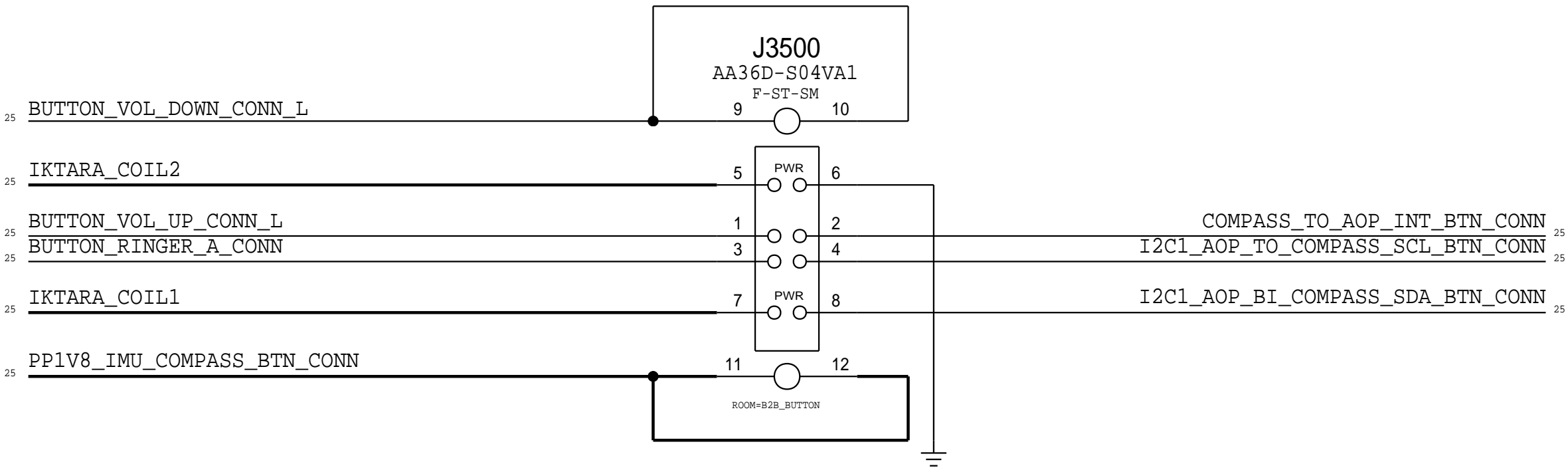


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 Apple Inc. 迅维职业技能培训中心 100-800-9990	DRAWING NUMBER	051-02221
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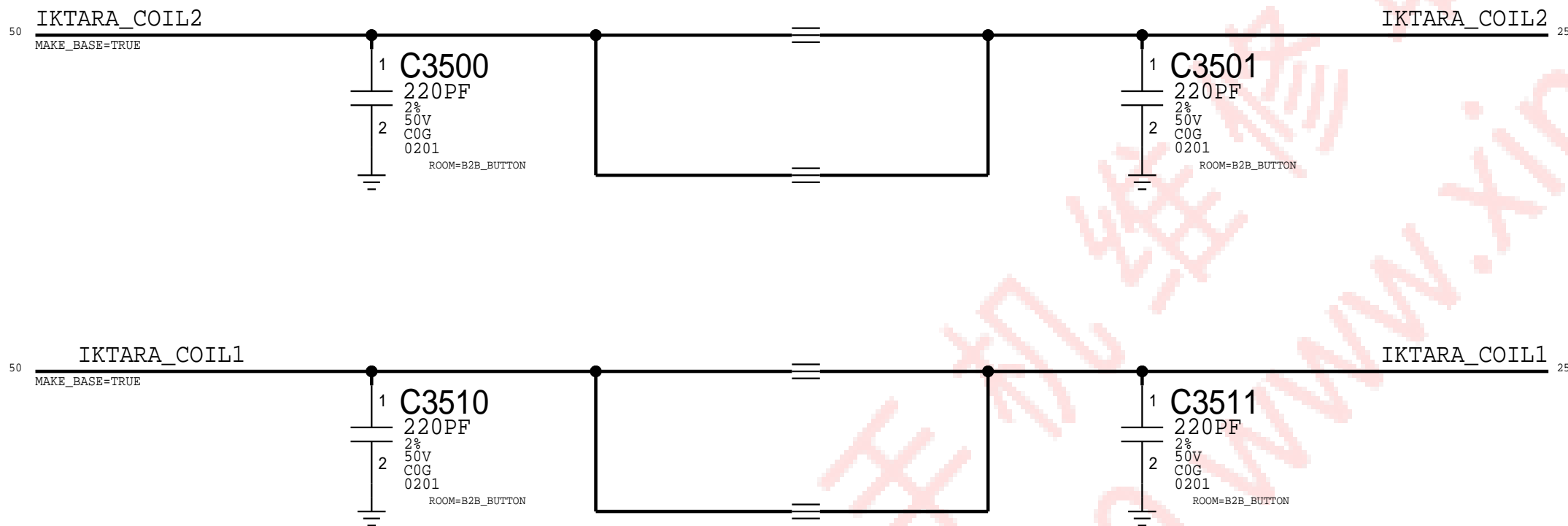


Cyclone + Button Connector

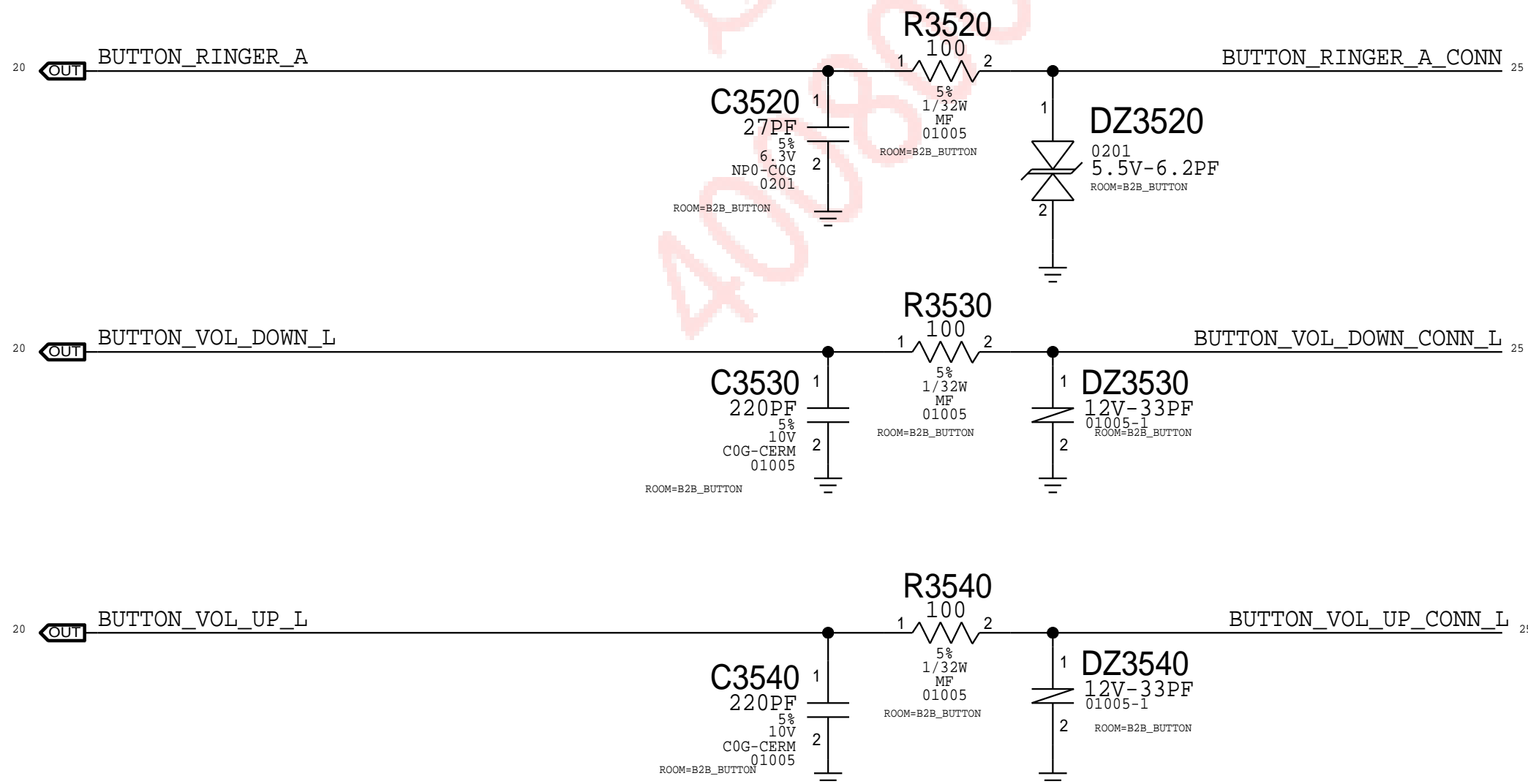
Rcpt: 516S00289 <-- This one on MLB
Plug: 516S00290



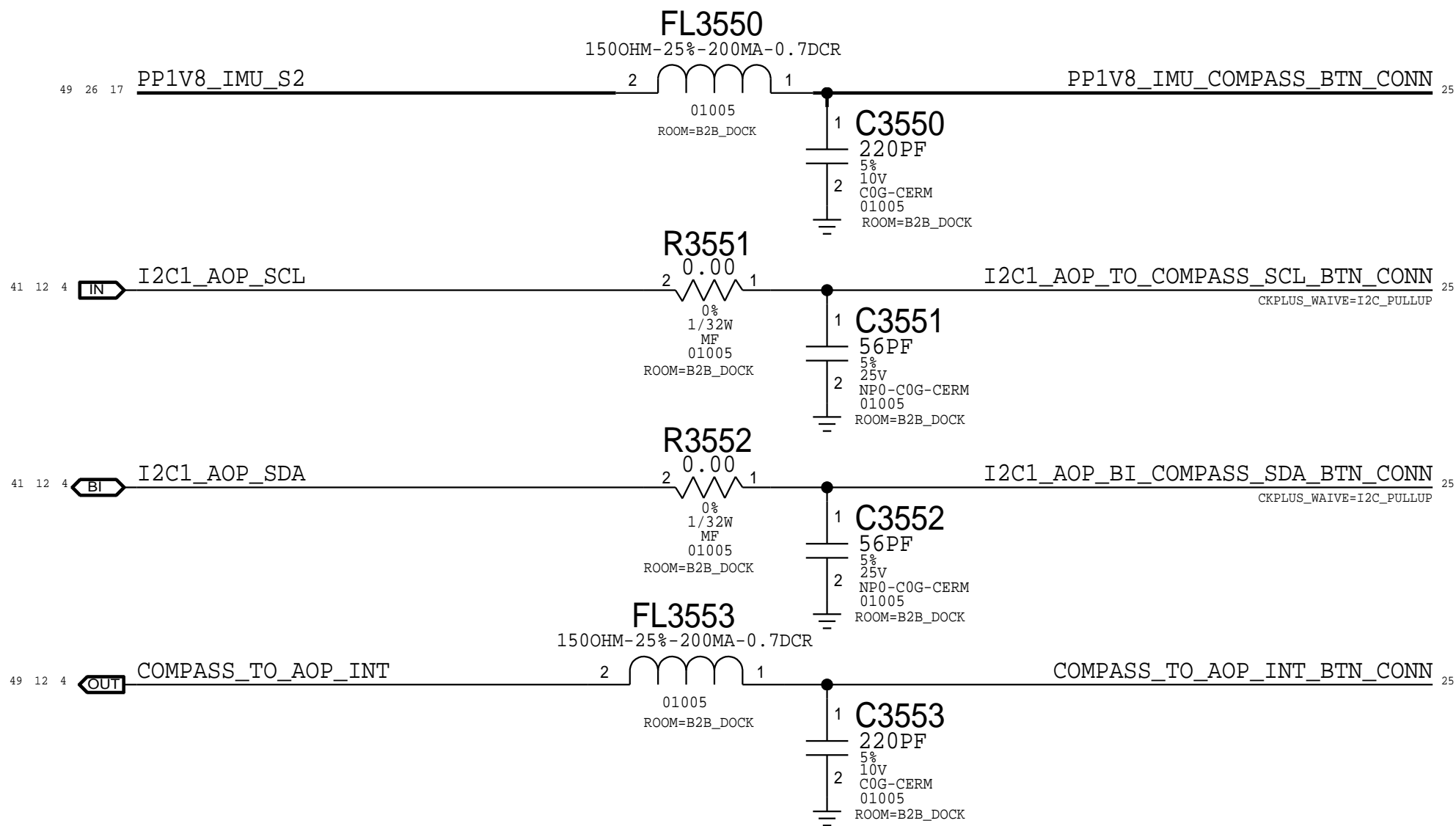
Cyclone Filtering




BUTTONS



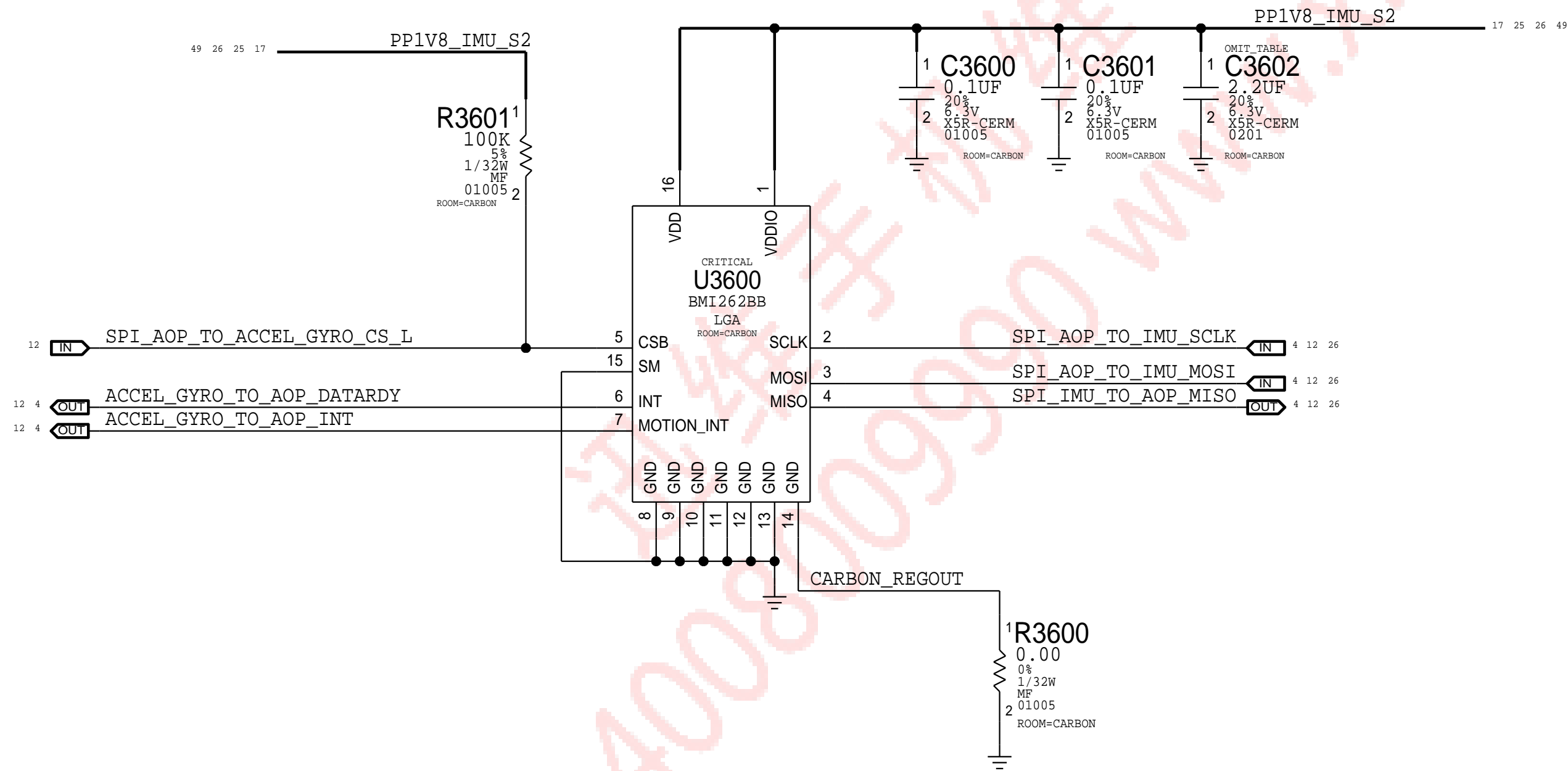
Compass (Button Flex Location)



PAGE TITLE		
SYSTEM POWER: B2B Cyclone + Button		
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Graphite - Accel & Gyro

APN: 338S00304



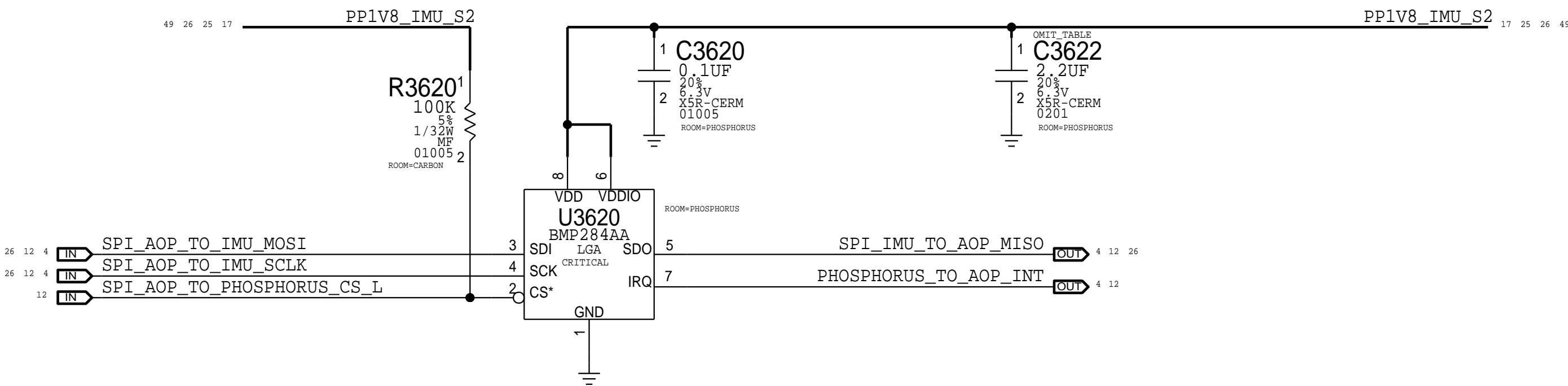
Magnesium - Compass


(On Dock or Button Flex)

Phosphorus

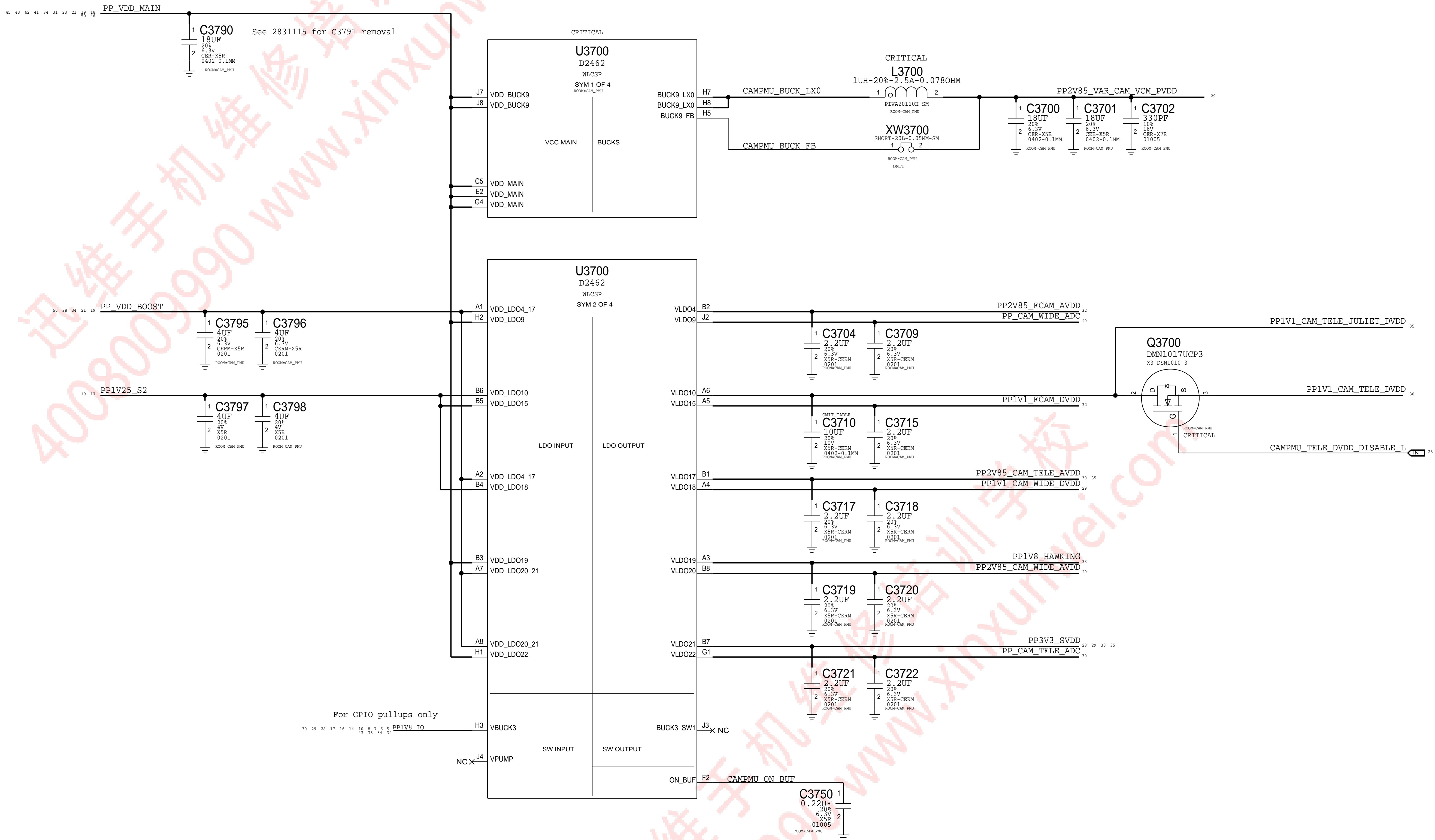
BOSCH (APN:338S00188)


ST (APN:338S00230)



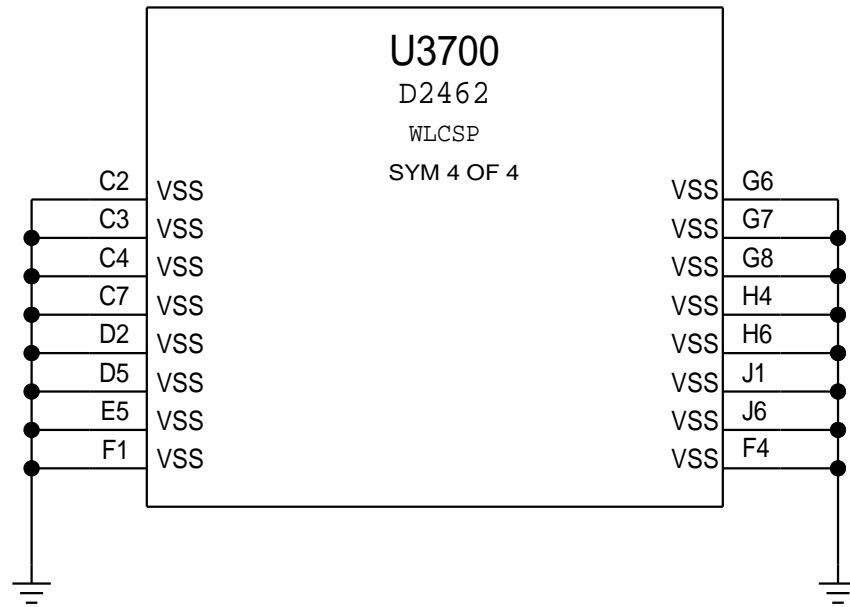
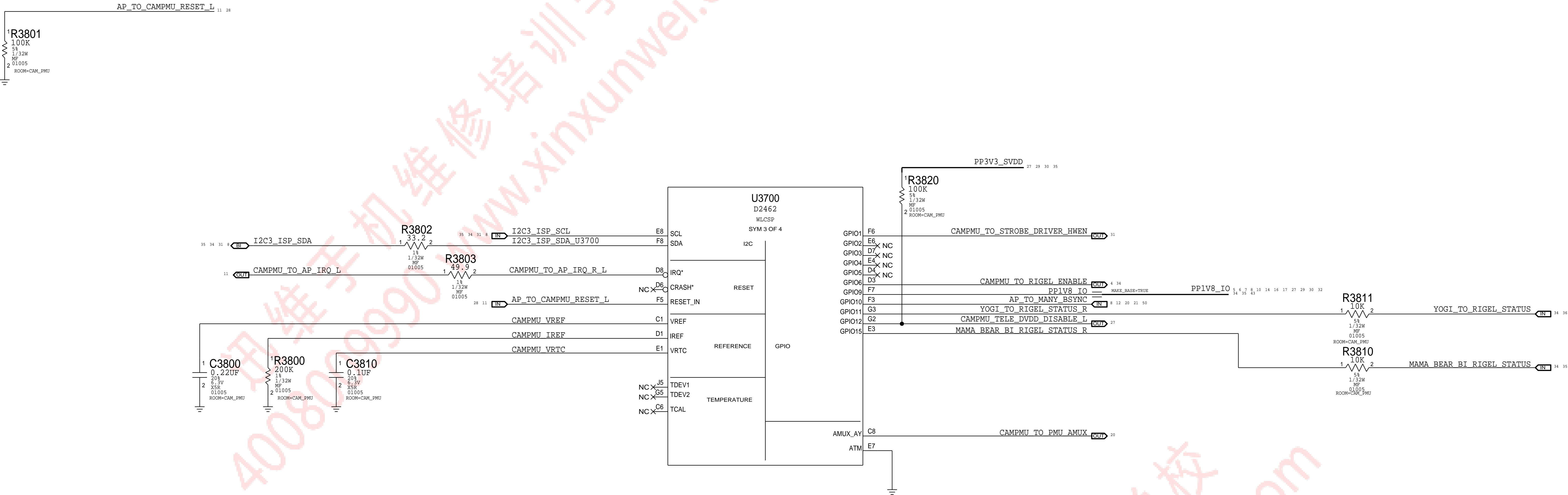
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SENSORS		
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Camera PMU



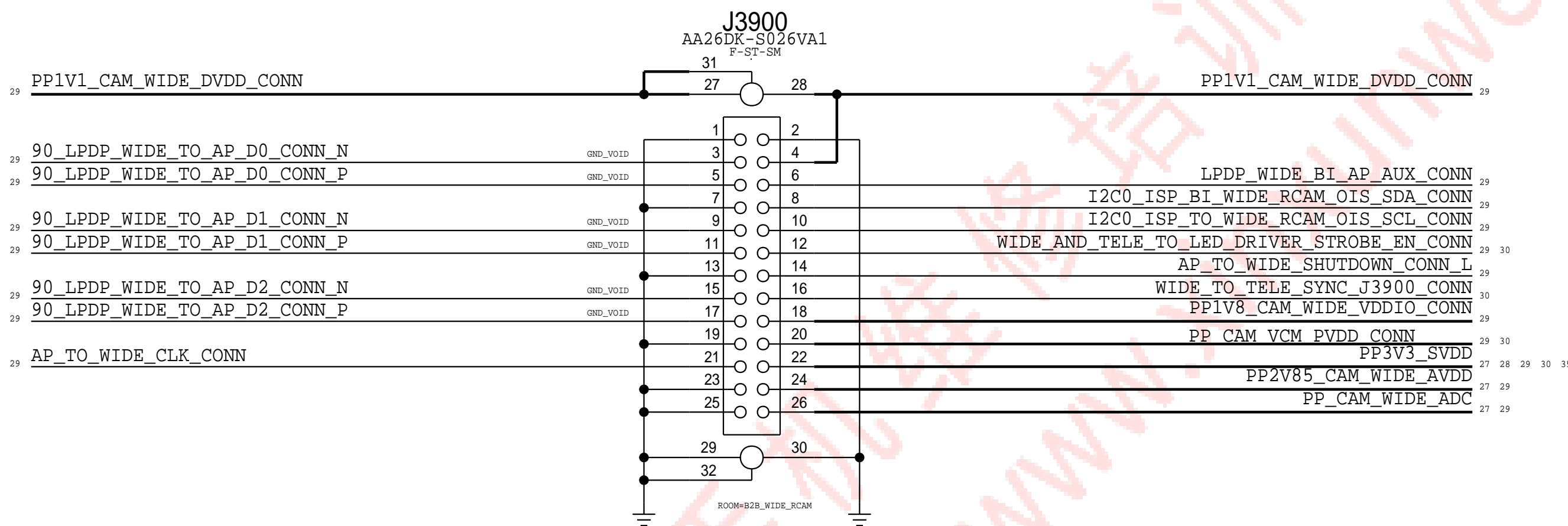
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CAMERA: PMU (1/2)		
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Pull Downs

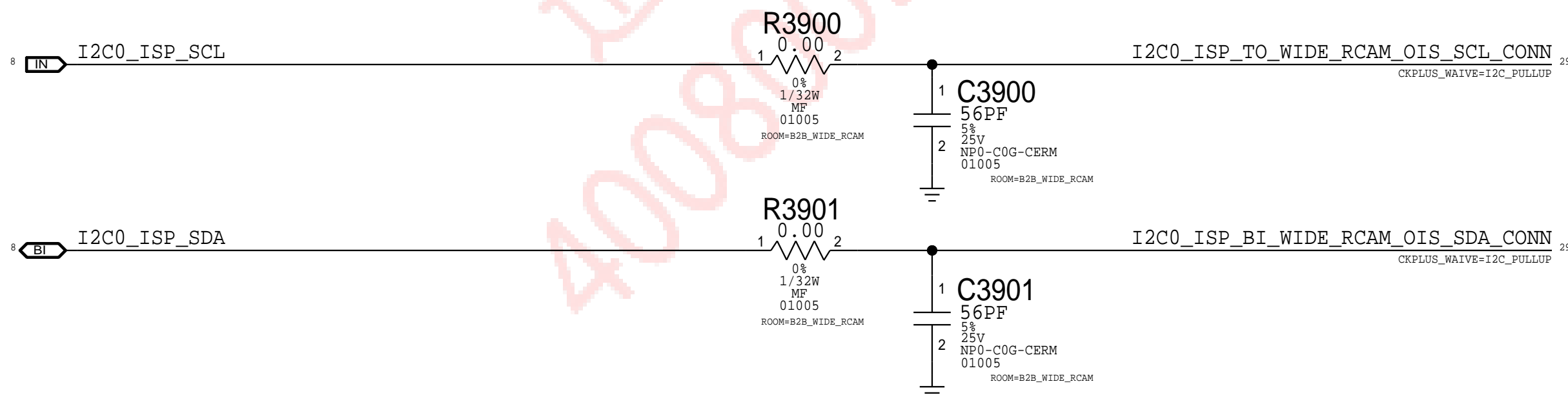


Wide Camera Connector

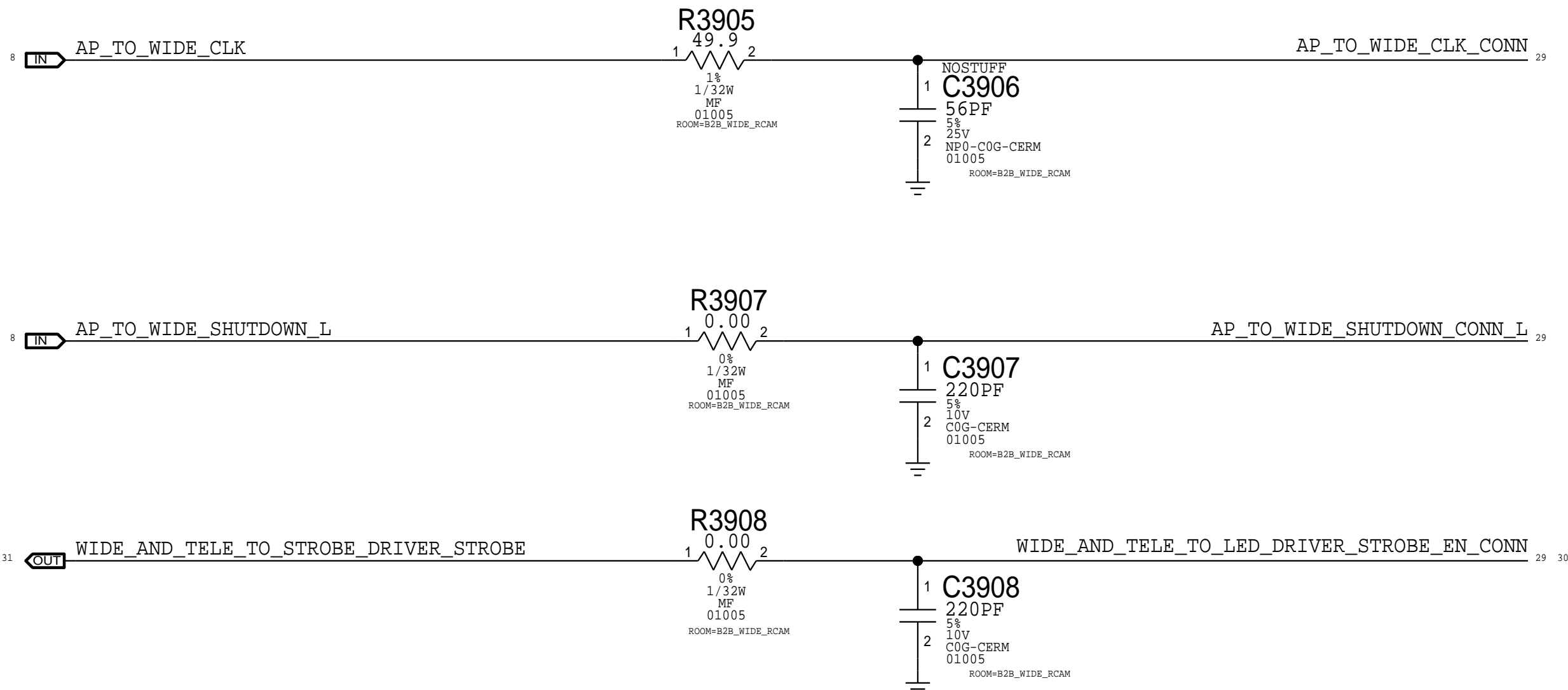
Rcpt: 516S00313 <-- This one on MLB
Plug: 516S00314



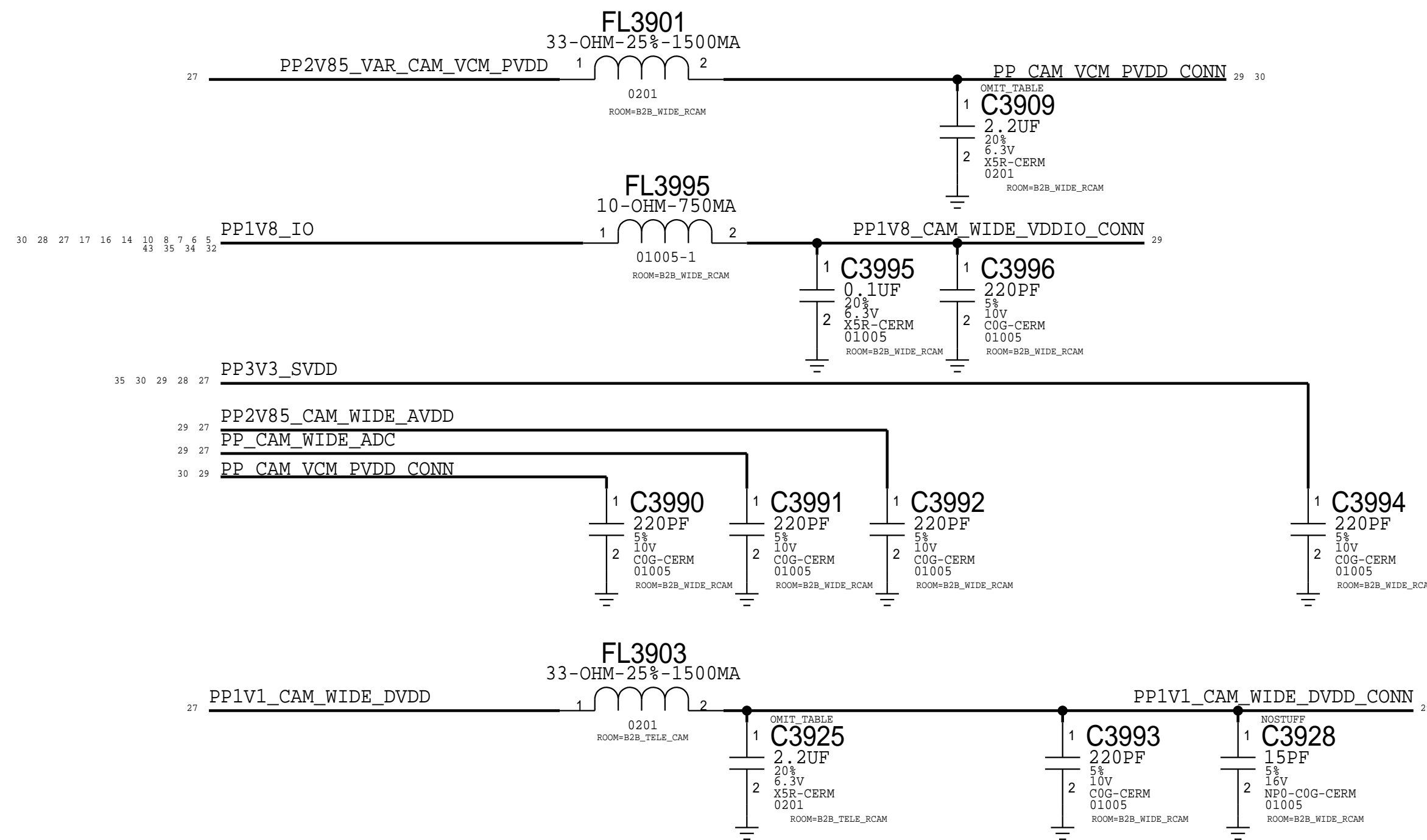
ISP I2C



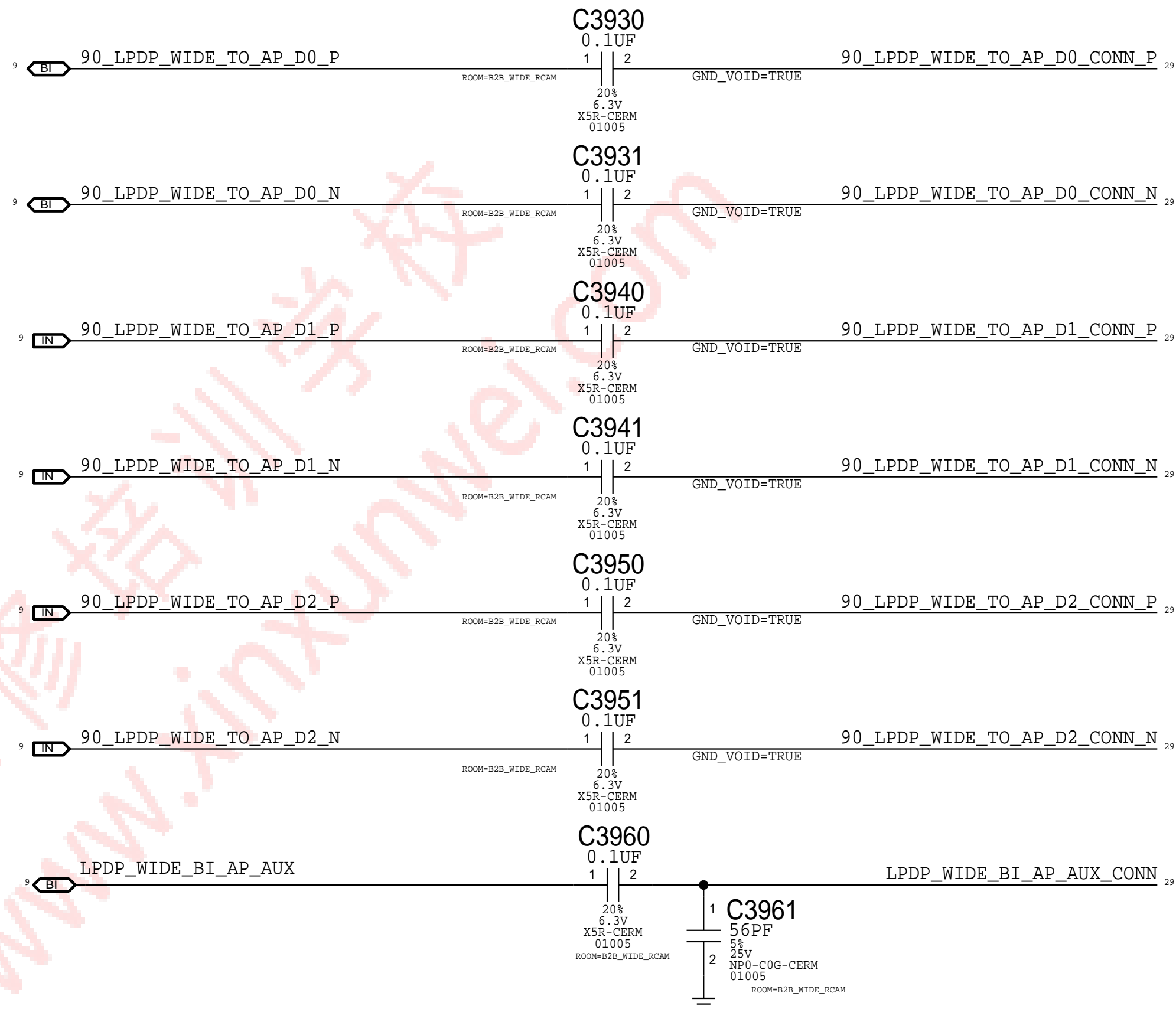
IO Filters



Power Filtering



LPDP Filters

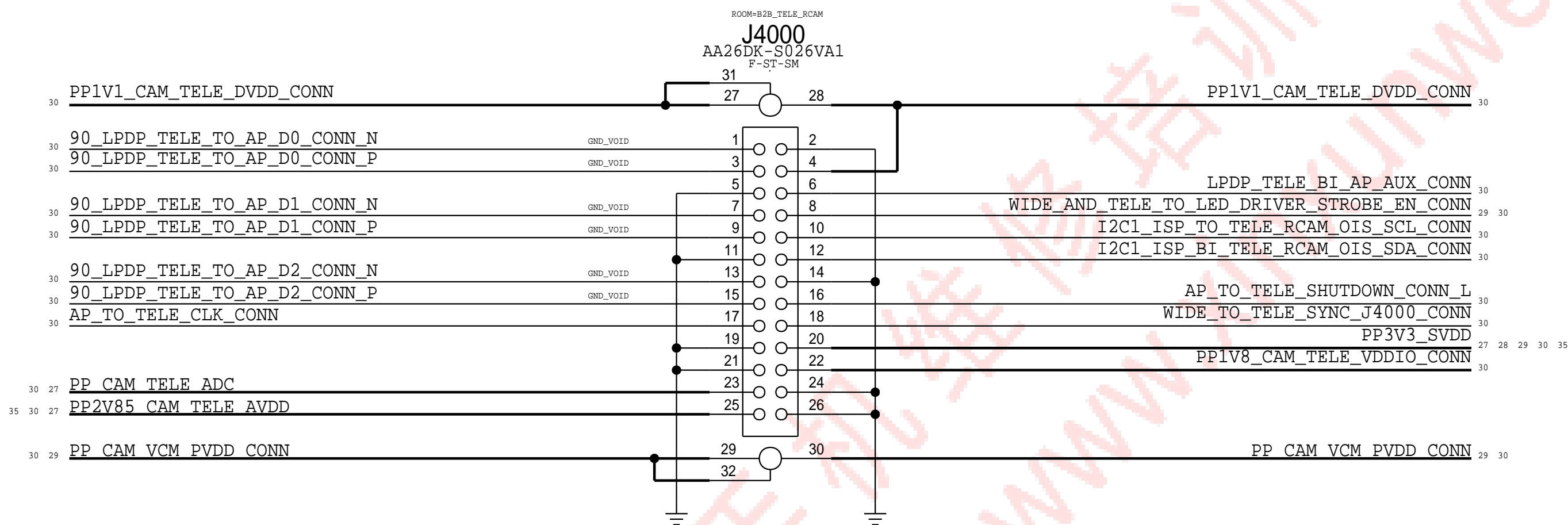


PAGE TITLE			
CAMERA: B2B Wide (WY)			
DRAWING NUMBER		051-02221	SIZE
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Tele Camera Connector

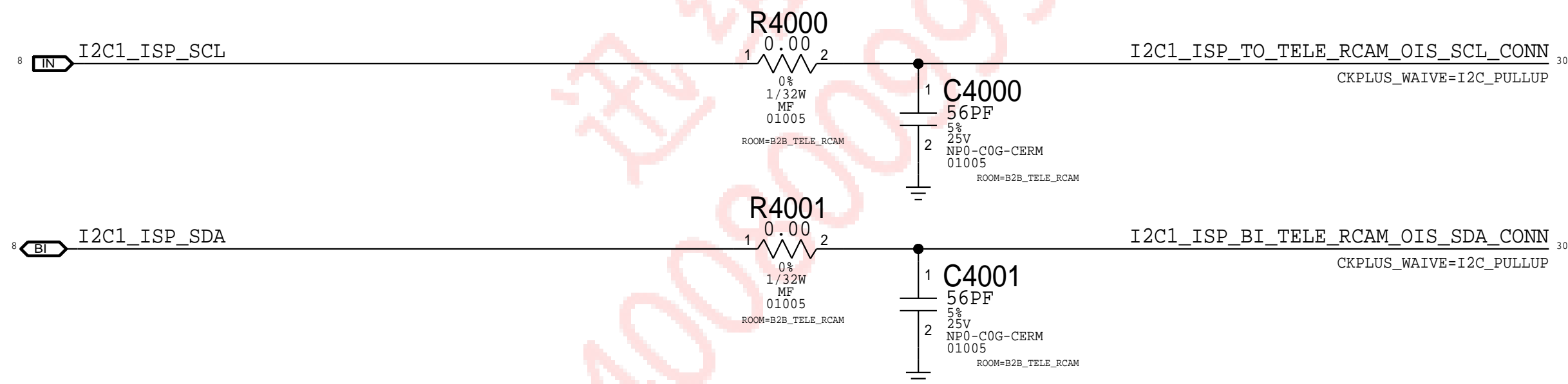
Rcpt: 516S00313 <-- This one on MLB
Plug: 516S00314

D



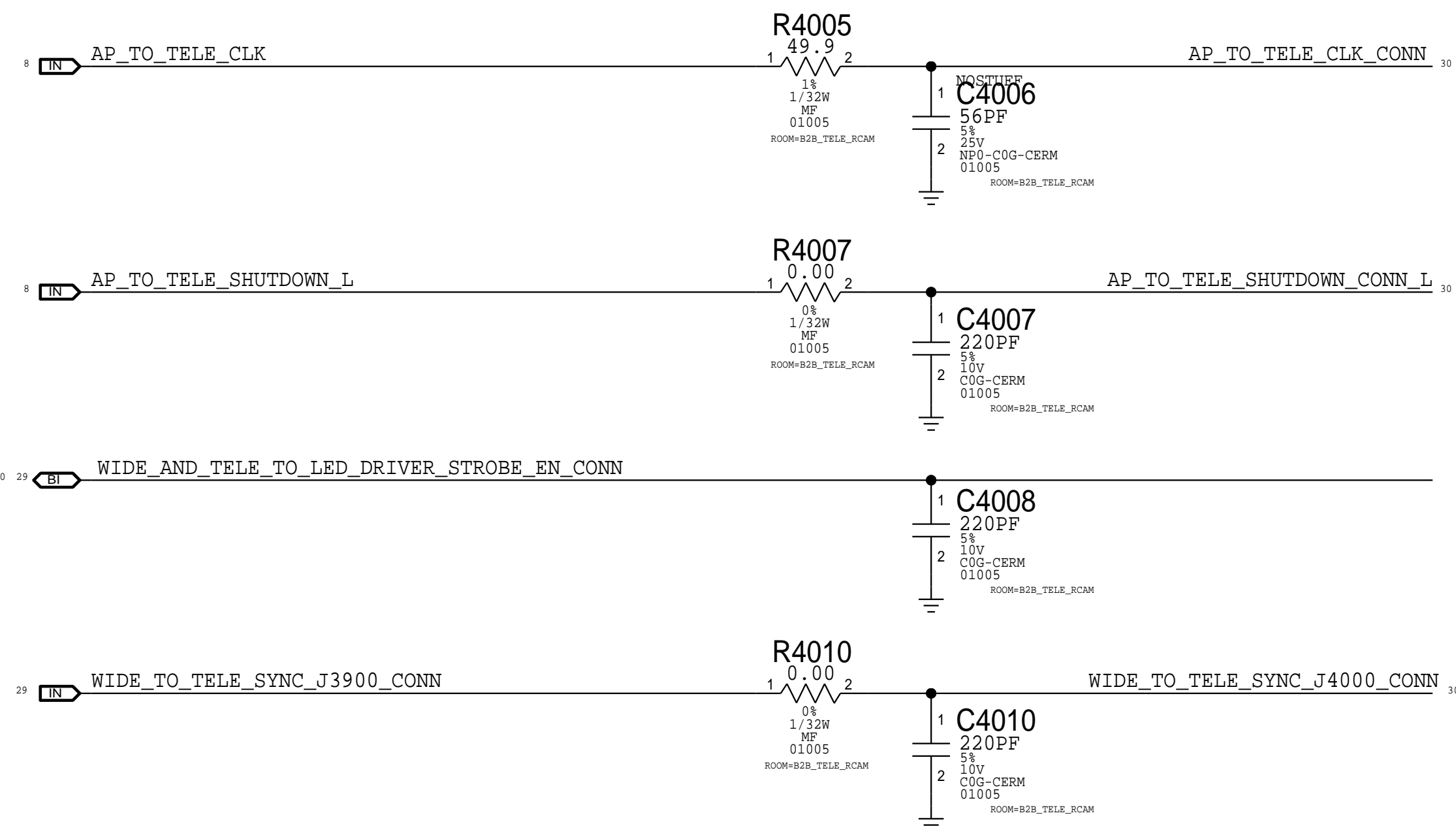
ISP I2C

C



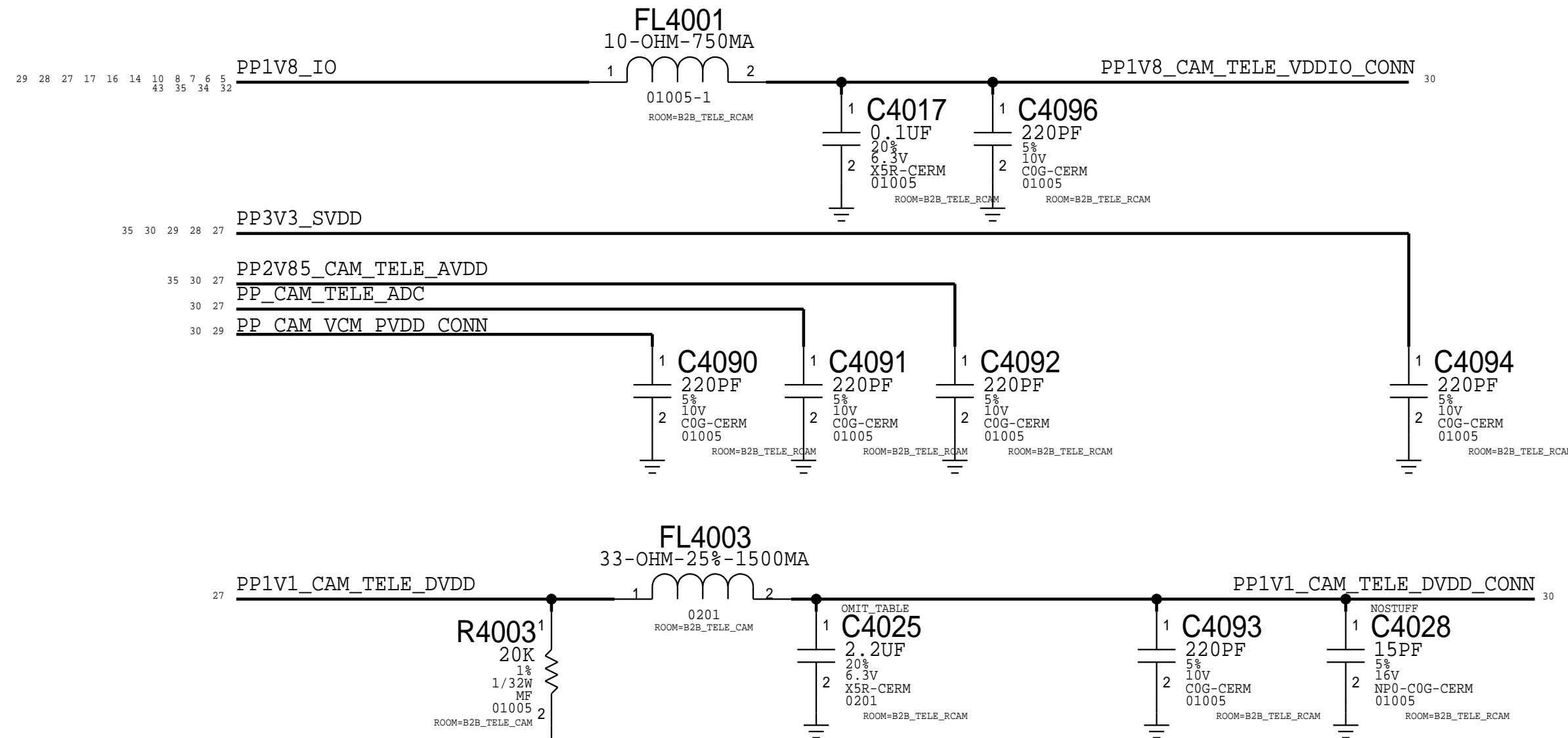
B

IO Filters



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Power Filtering



D

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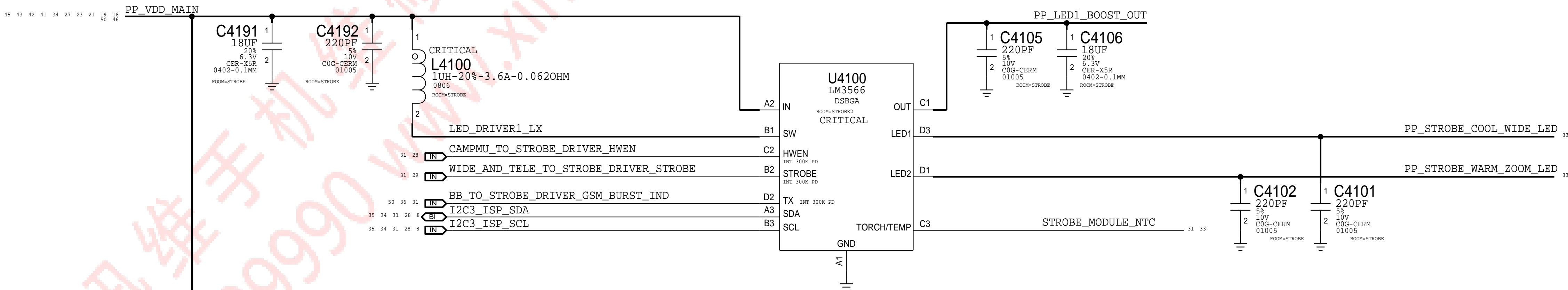
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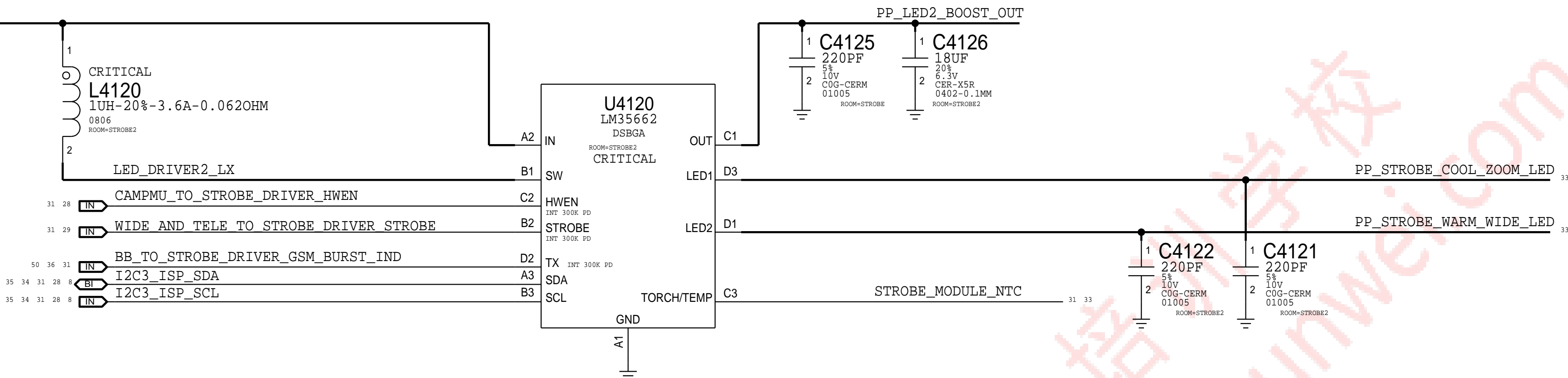
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CAMERA: B2B Tele (MT)		
 Apple Inc	DRAWING NUMBER	051-02221
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BRANCH		ext-1
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LED STROBE DRIVERS (NEON)

APN:353S00558
I2C Address (7-bit): 0x63



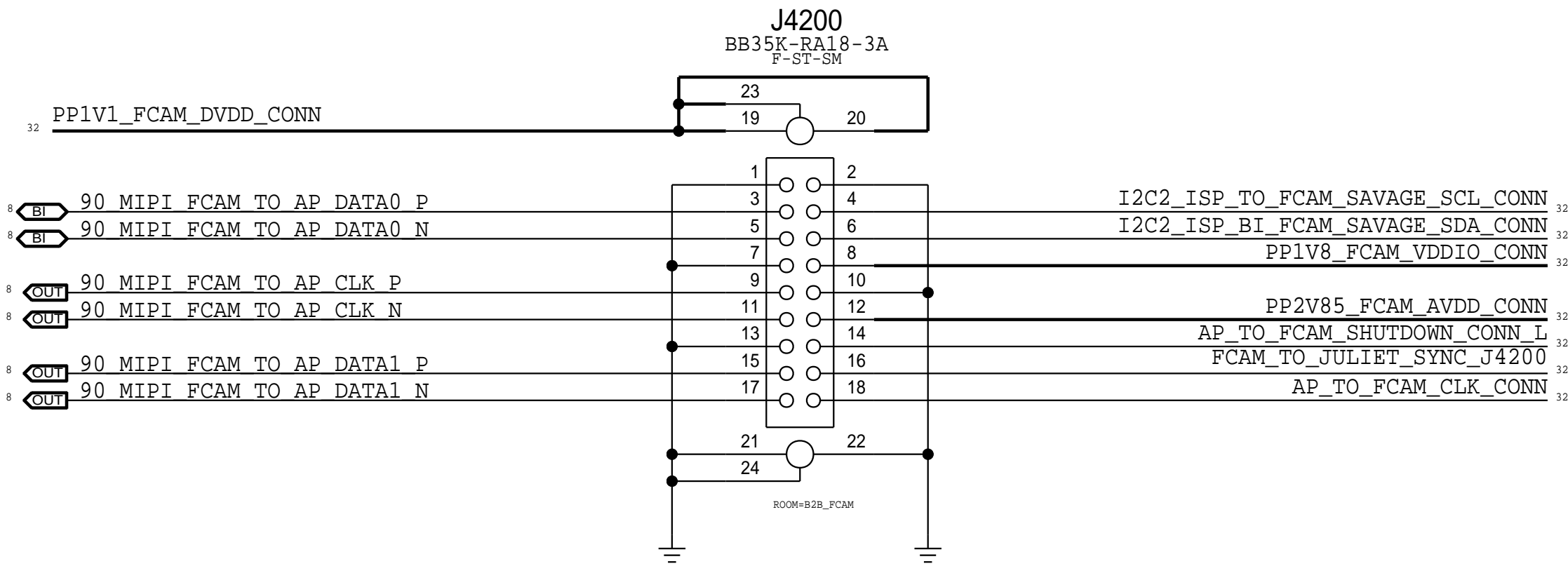
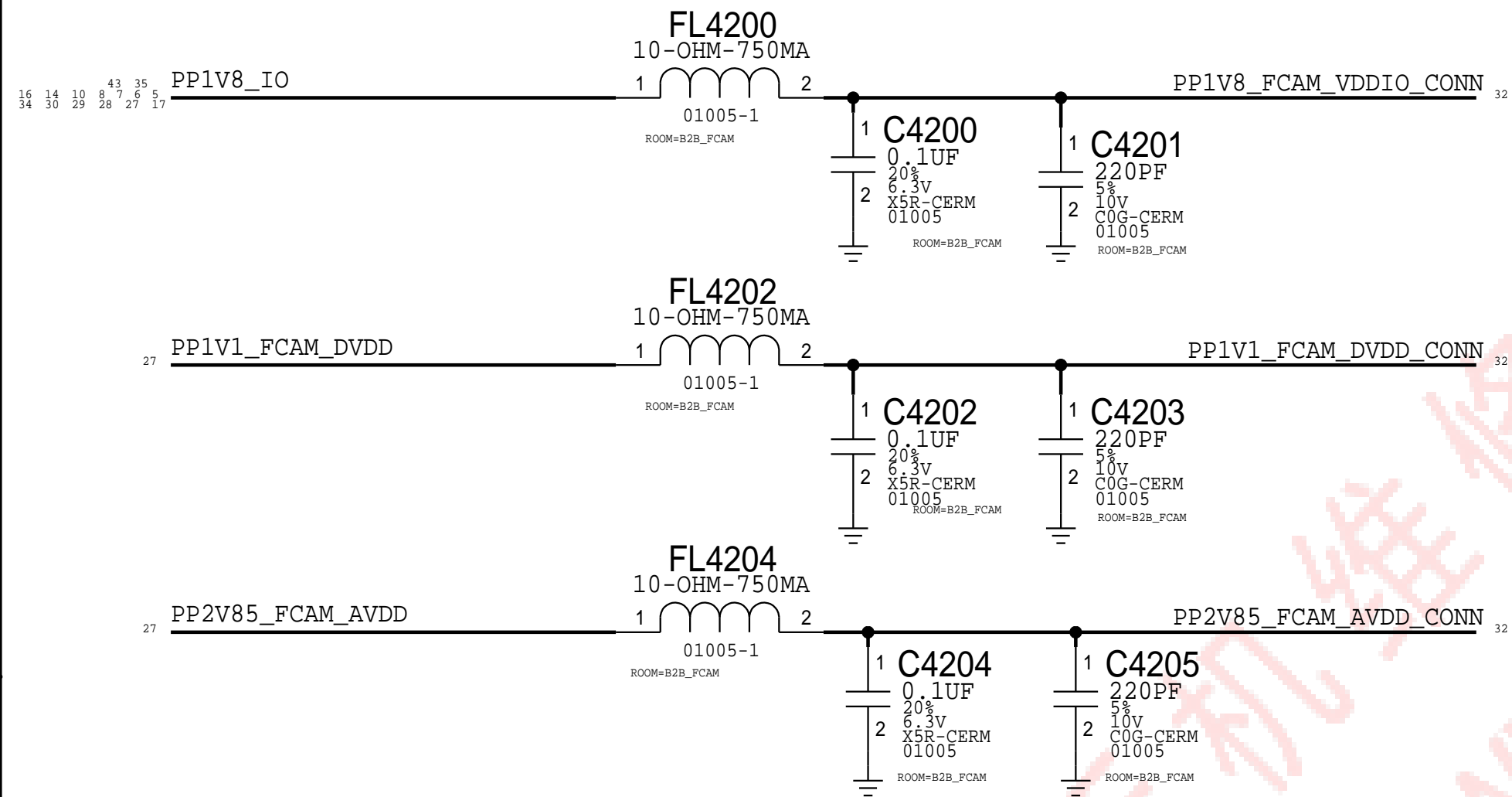
APN:353S00868
I2C Address (7-bit): 0x67



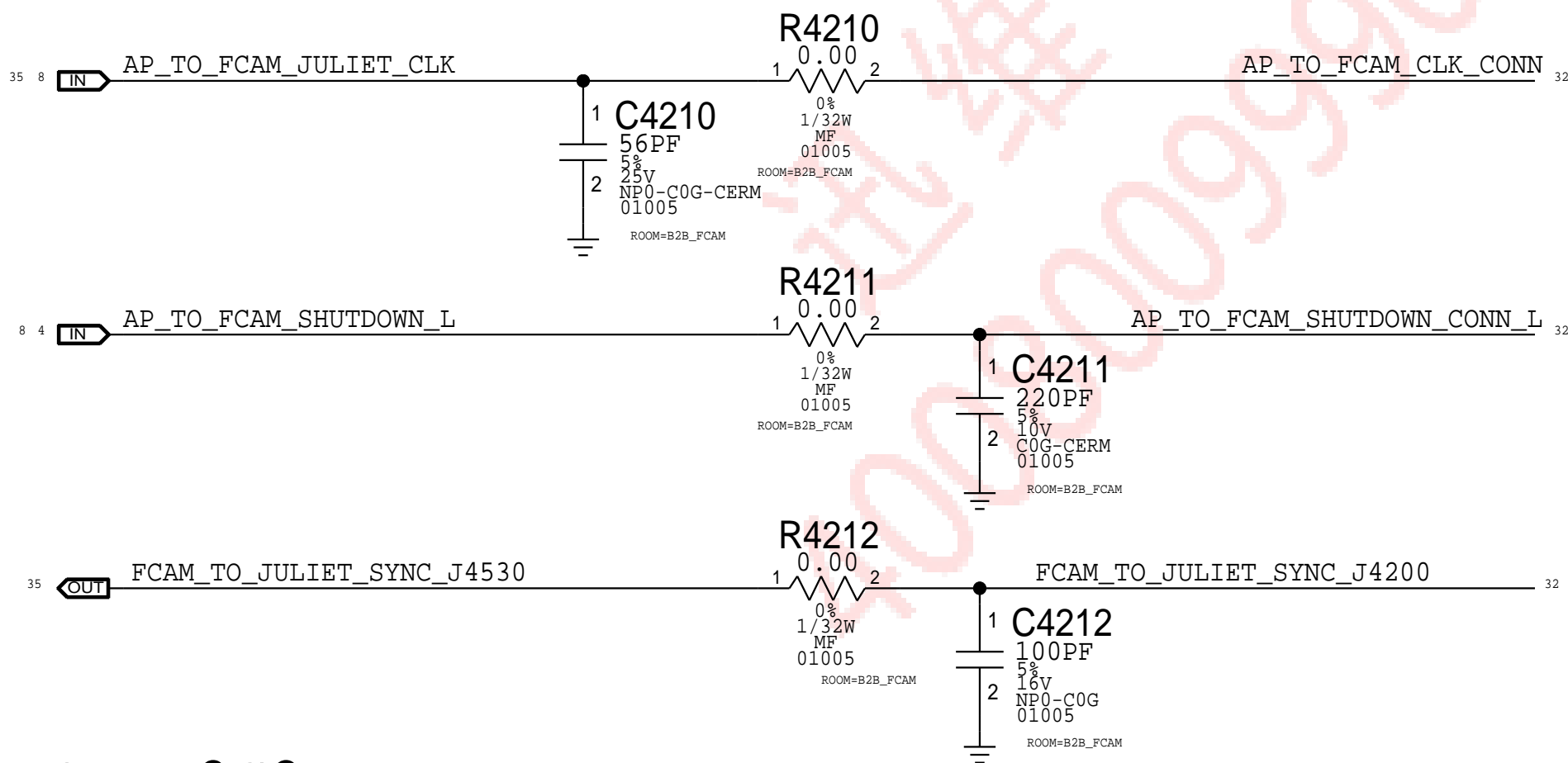
NEW HAMPSHIRE POWER

FCAM Connector

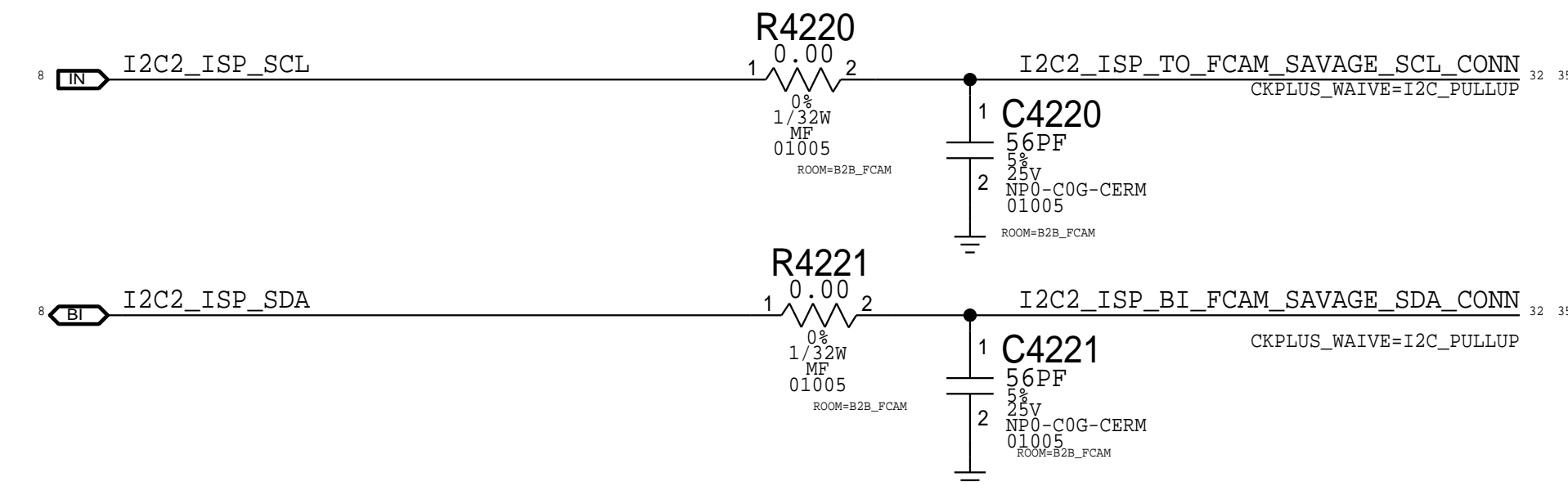
Rcpt: 516S00244 <-- This one on MLB
Plug: 516S00245




FCAM I/O

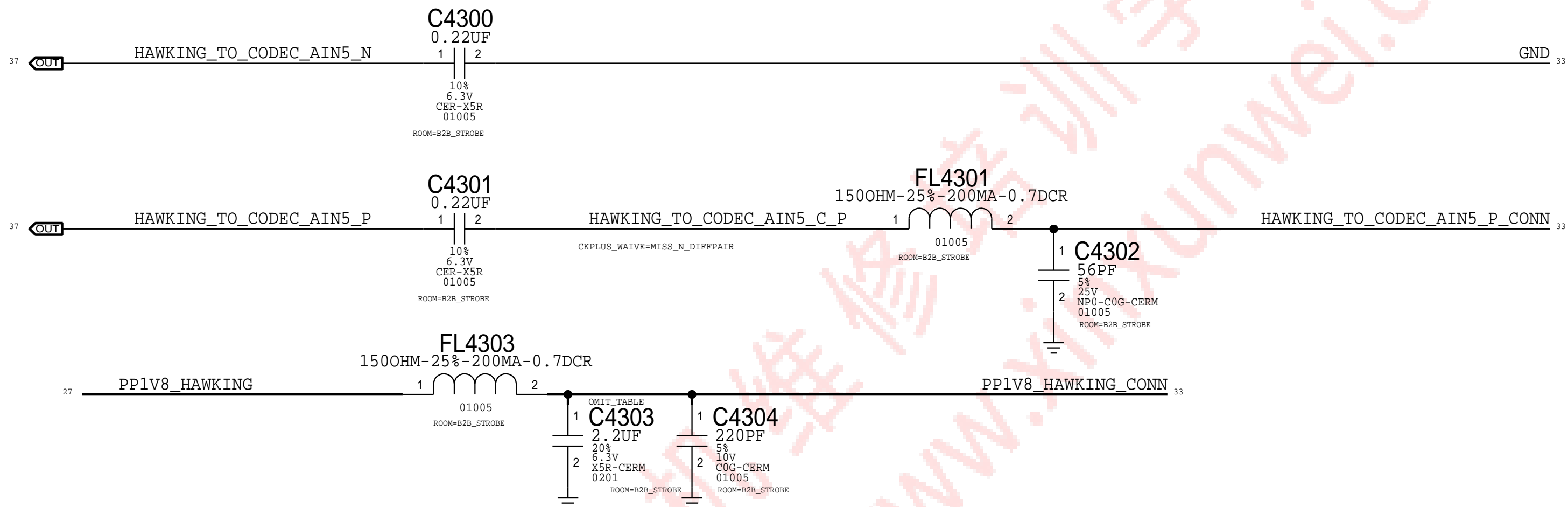


ISP I2C2

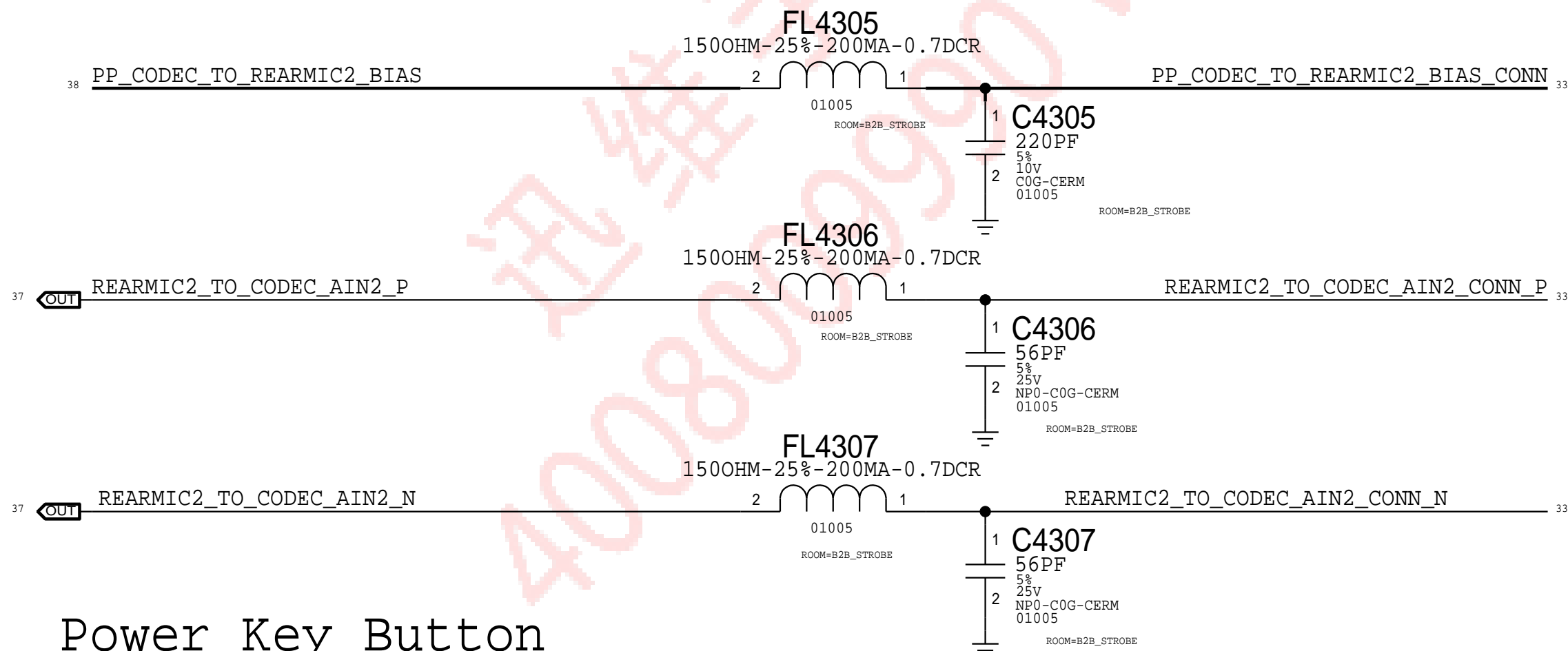


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CAMERA: B2B FCAM		
 Apple Inc 迅维职业技能培训中心	DRAWING NUMBER	051-02221
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	PAGE	42 OF 80
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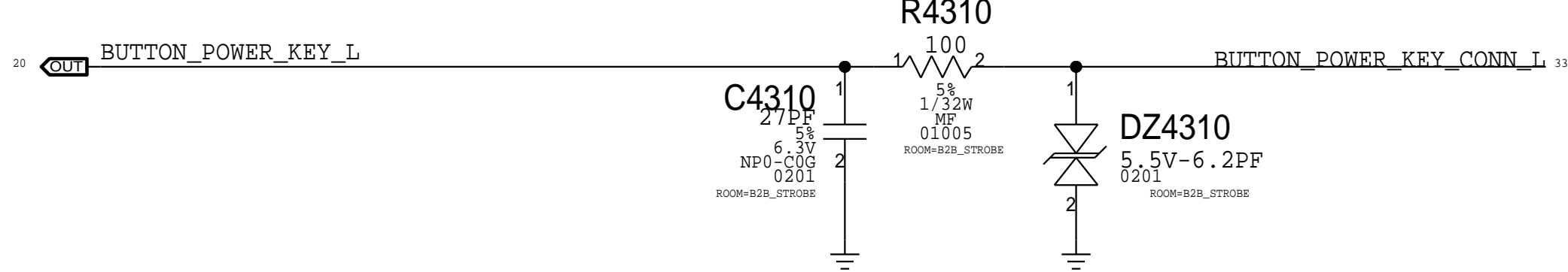
HAWKING



MIC2 (ANC REF)

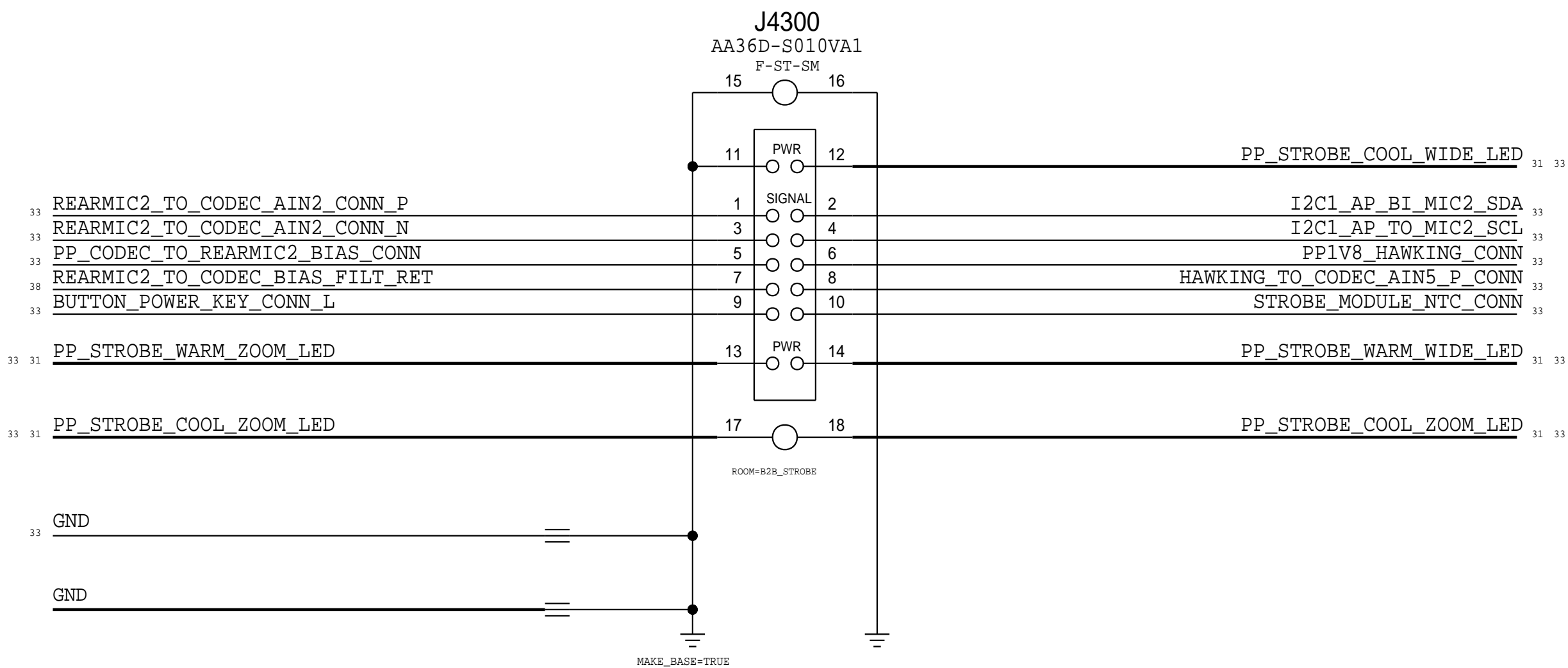


Power Key Button

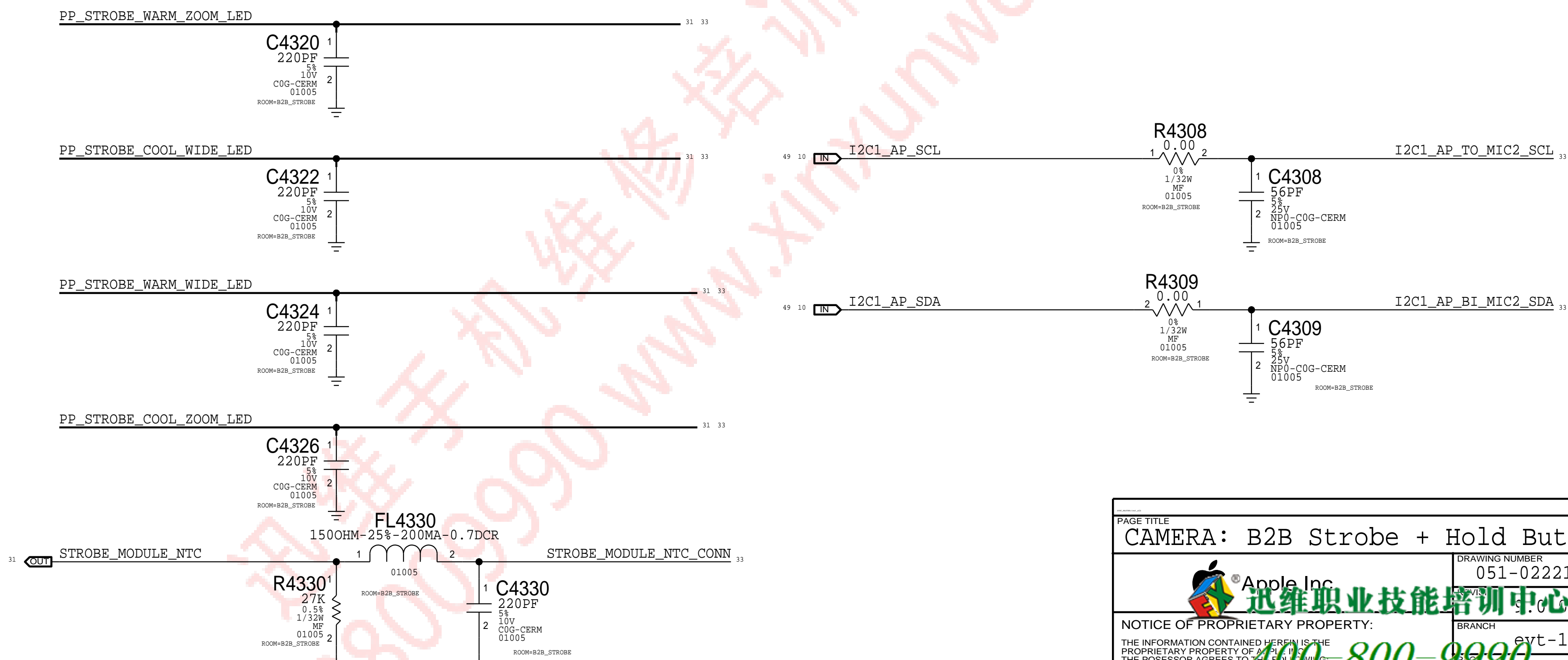


Strobe Connector

Rcpt: 516S00267 <-- This one on MLB
Plug: 516S00268



Strobe Filtering



PAGE TITLE CAMERA: B2B Strobe + Hold Button		
DRAWING NUMBER 051-02221		SIZE D
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Rigel Driver

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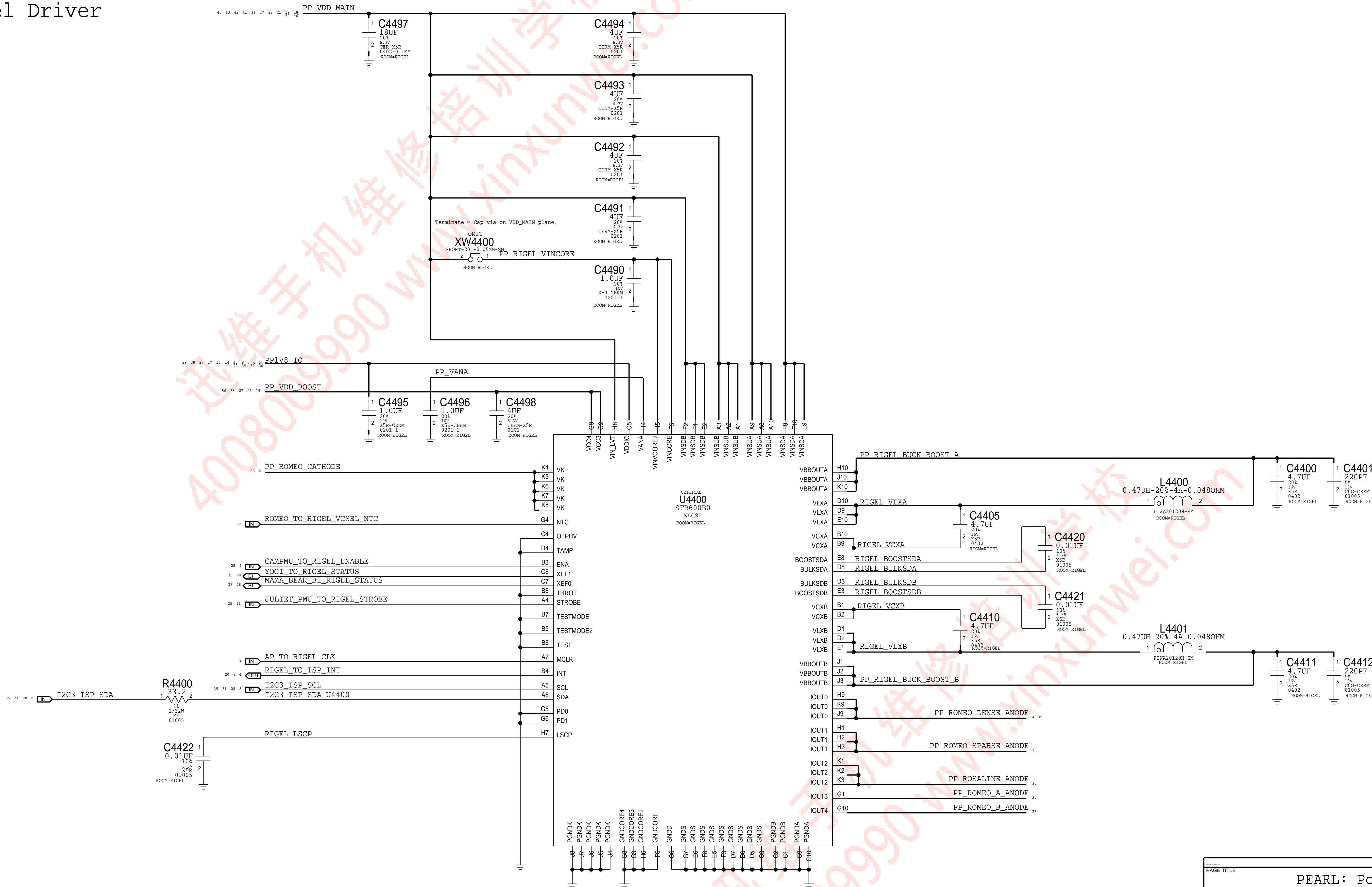
C


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PAGE TITLE		
PEARL: Power		
 Apple Inc 迅维职业技能培训中心	DRAWING NUMBER	051-02221
	SIZE	D
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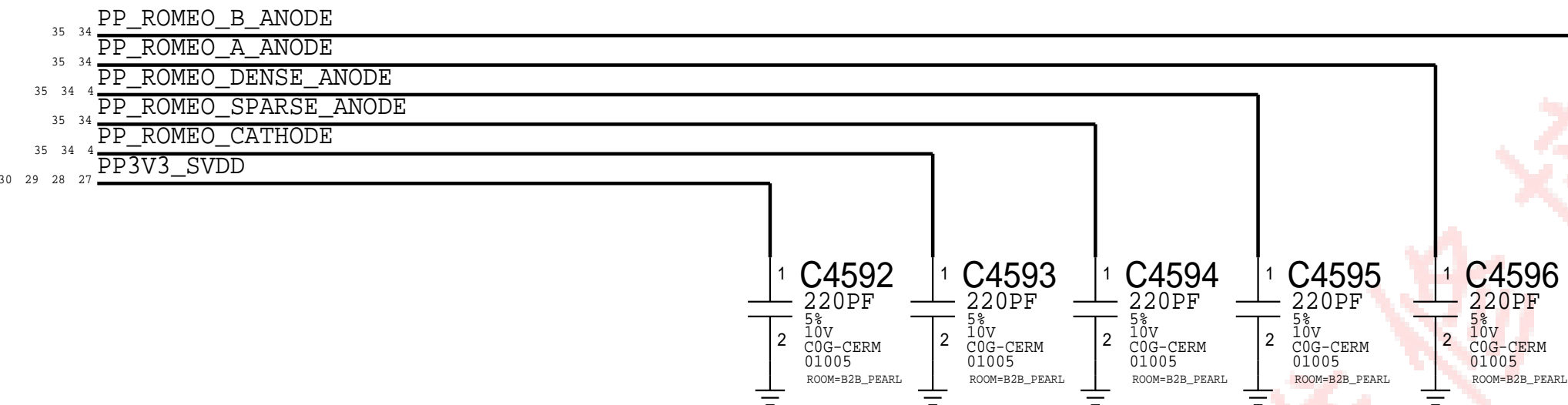
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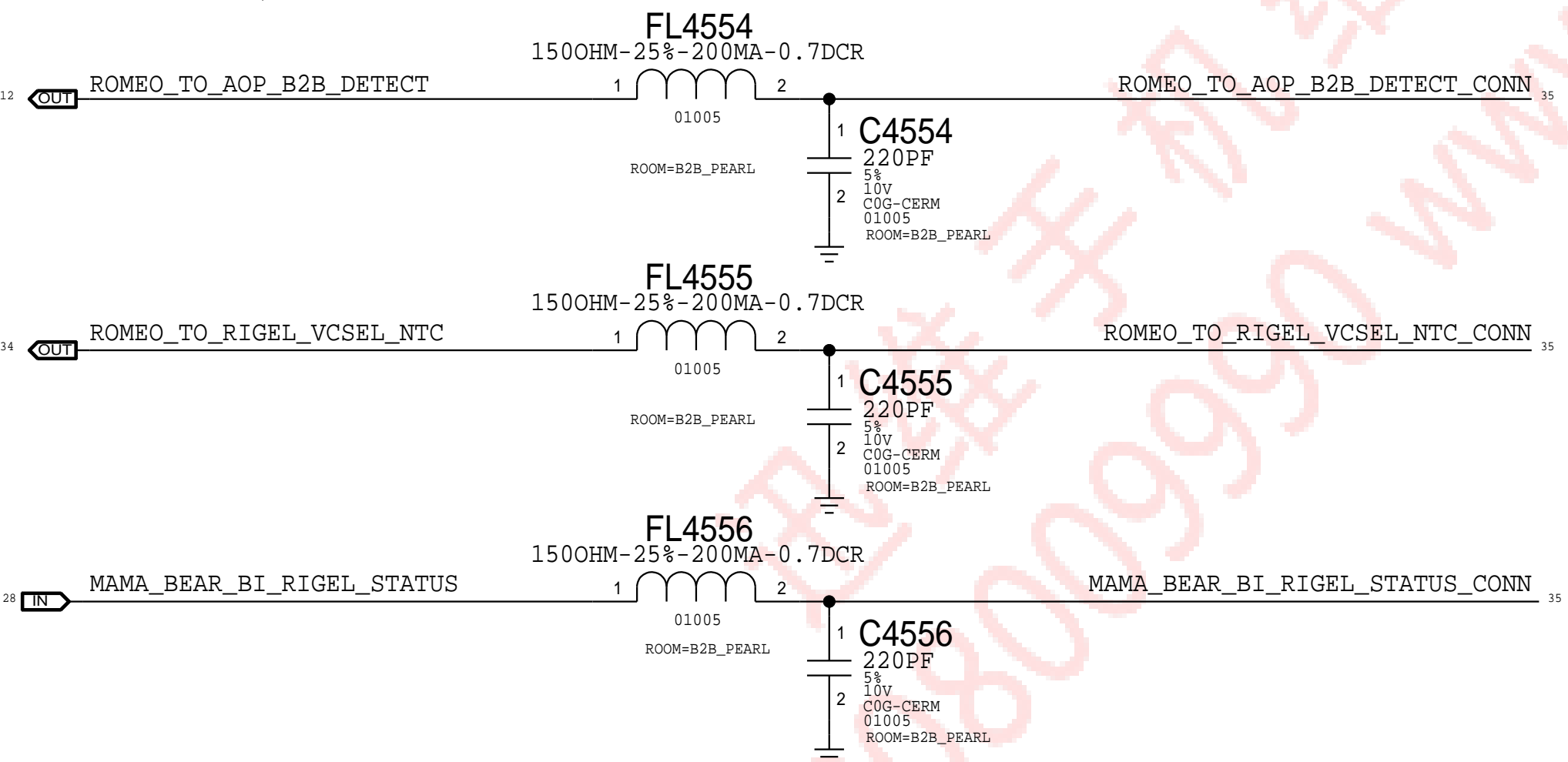
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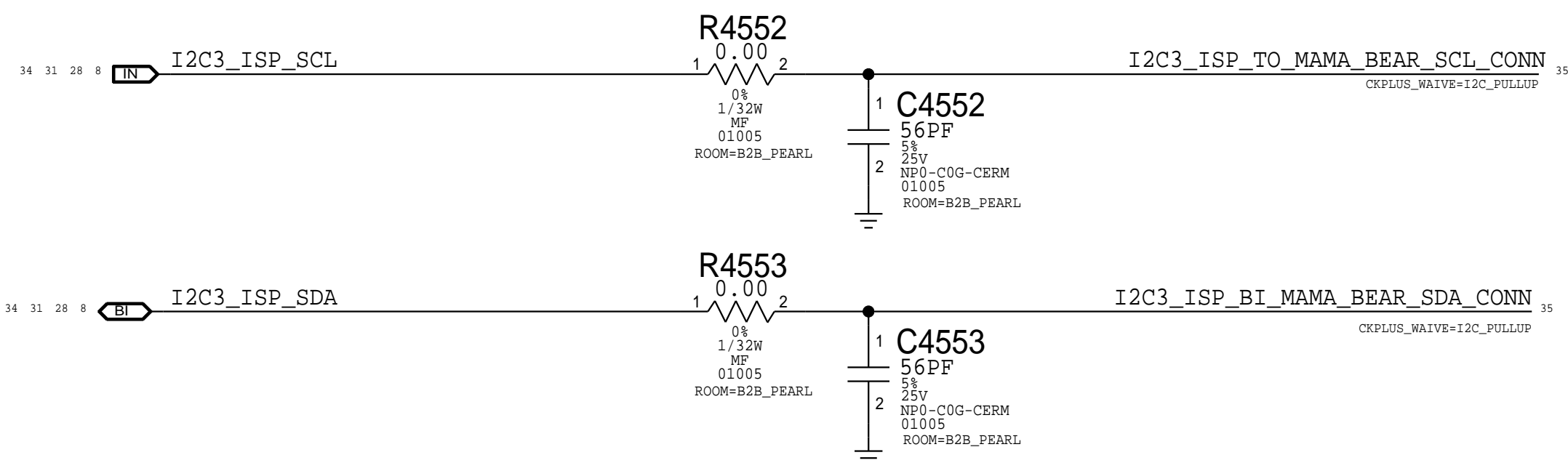
Romeo Power Filtering



Romeo I/O

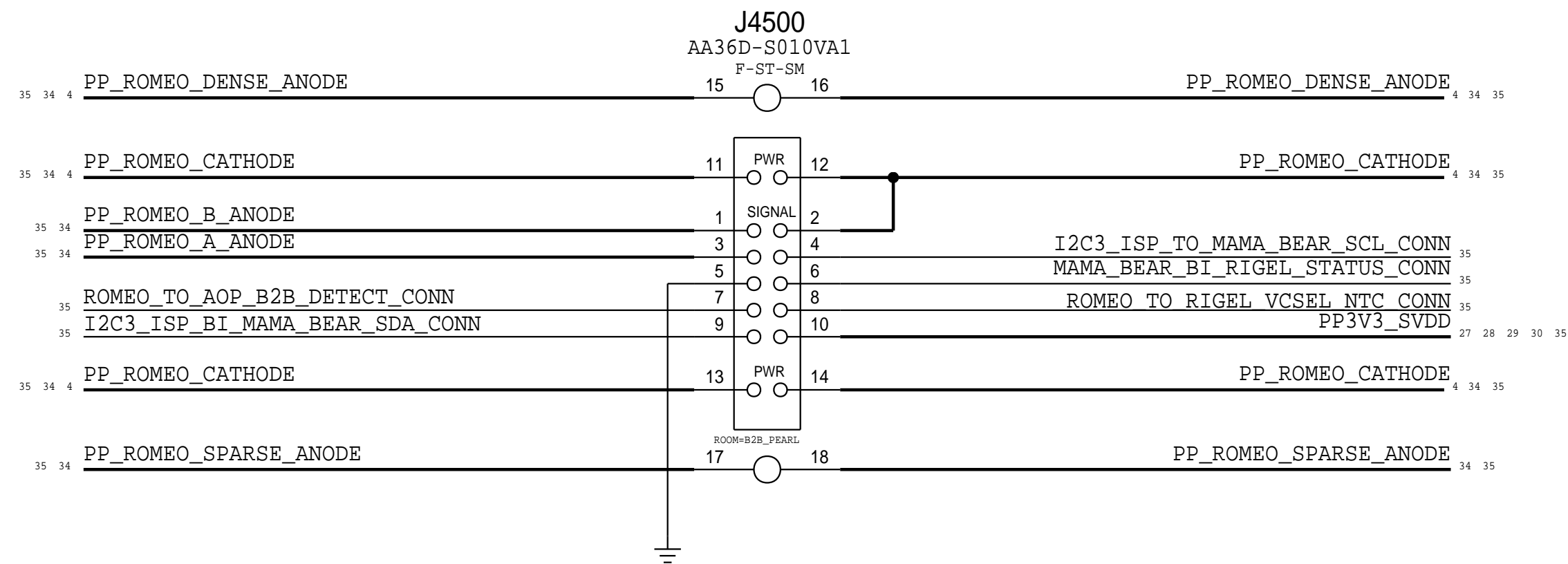


ISP I2C3

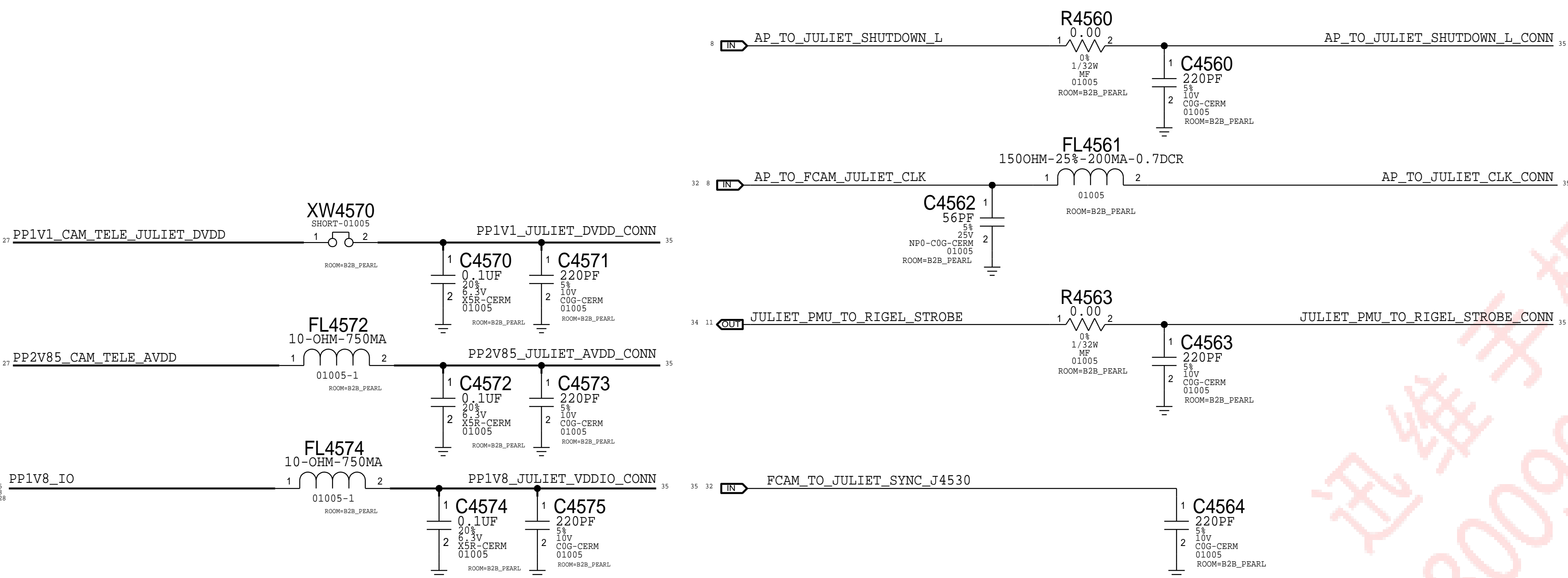


Romeo Connector

Rcpt: 516S00267 <-- This one on MLB
Plug: 516S00268

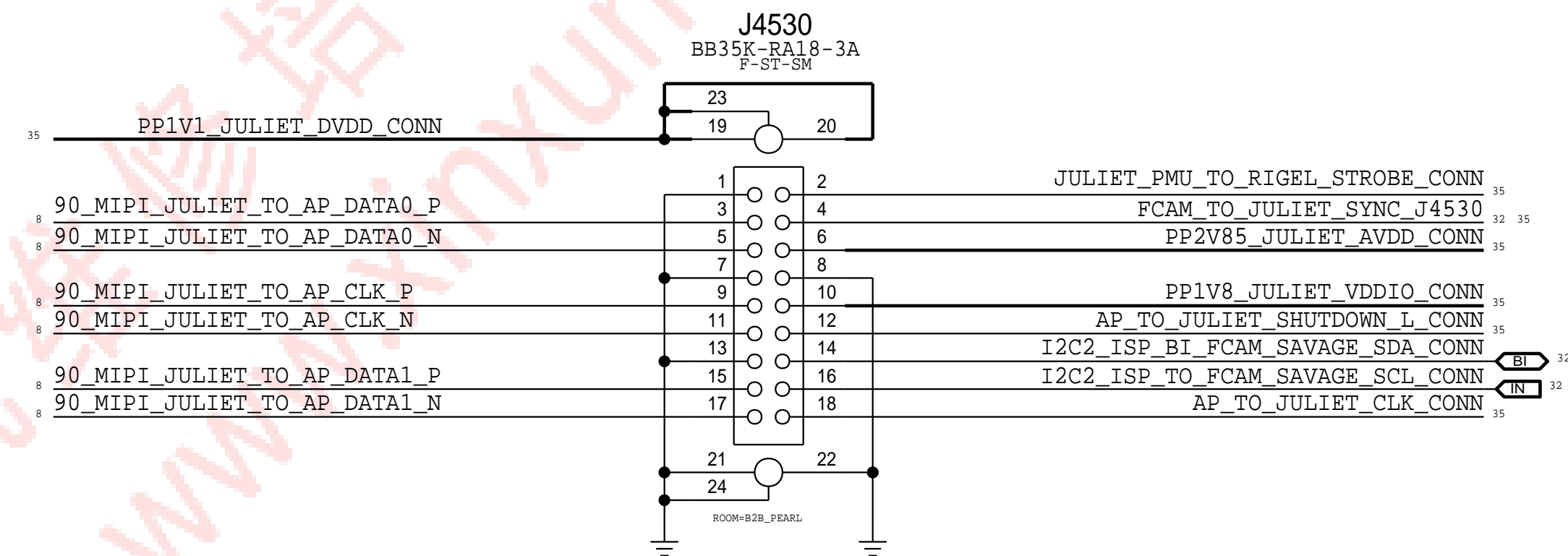



Juliet Power and I/O

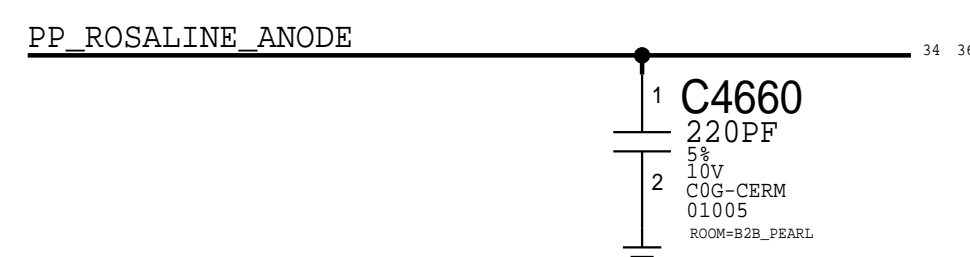
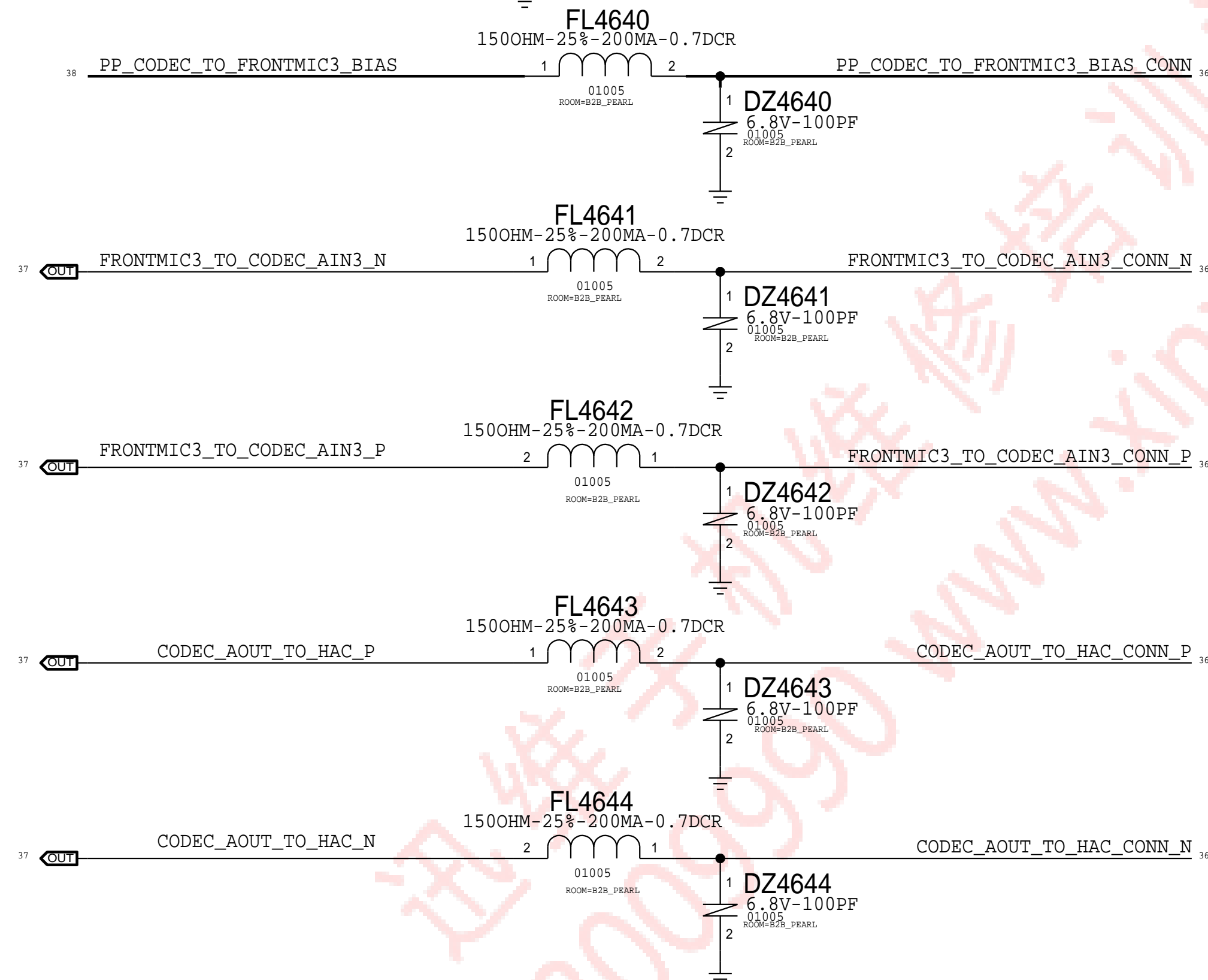
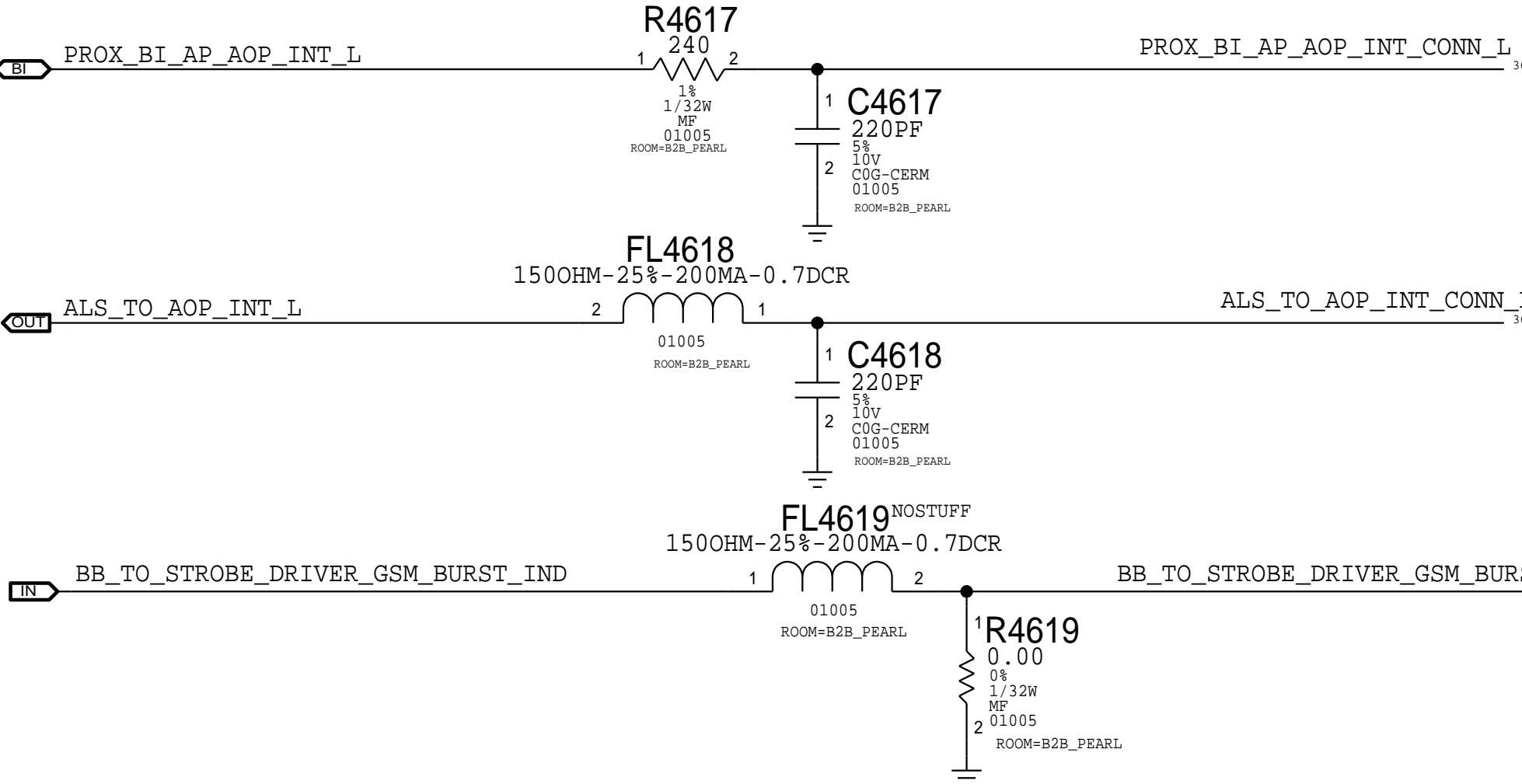







Juliet Connector

Rcpt: 516S00244 <-- This one on MLB
Plug: 516S00245

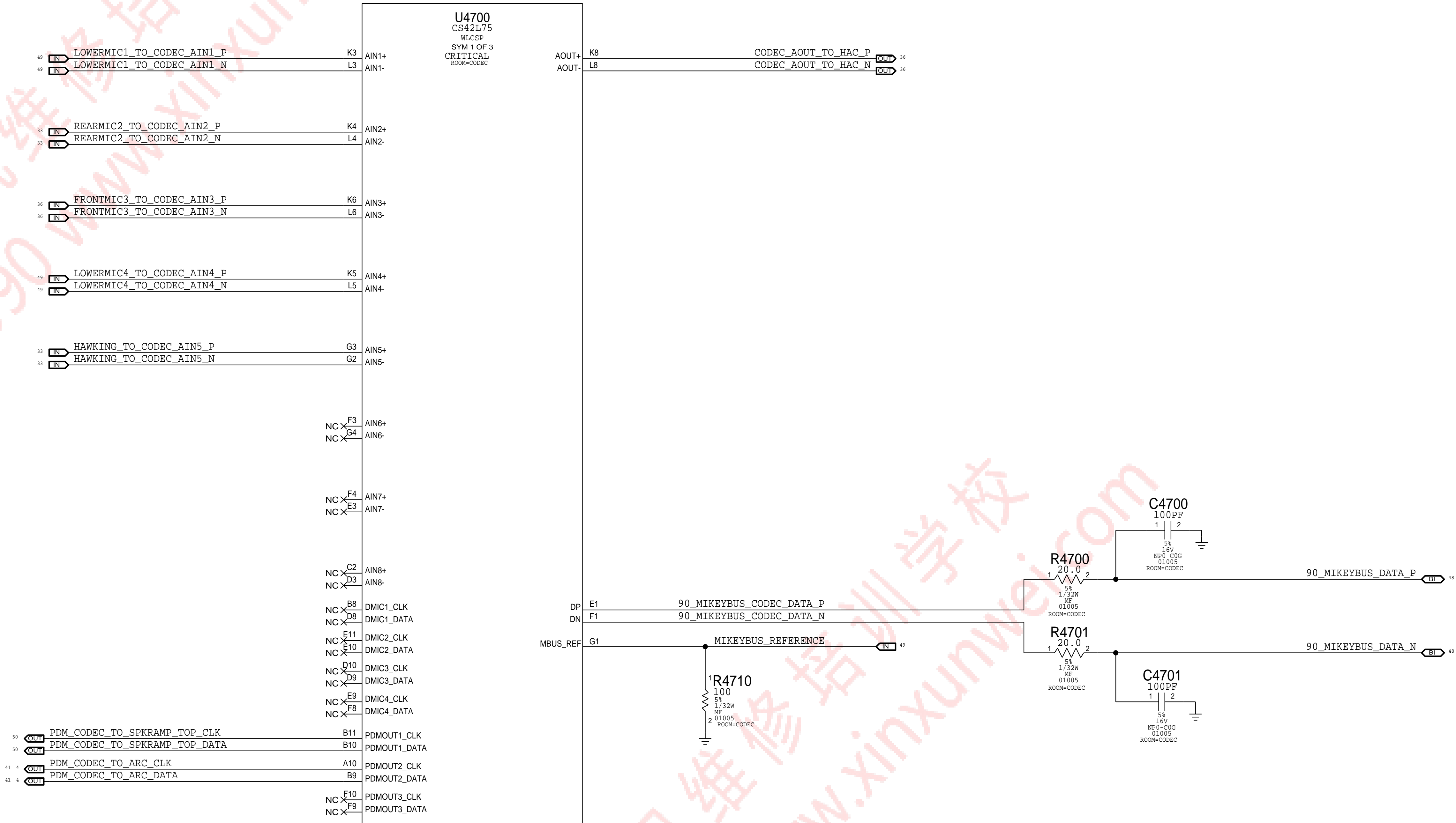


PAGE TITLE		
PEARL: B2B Romeo + Juliet		
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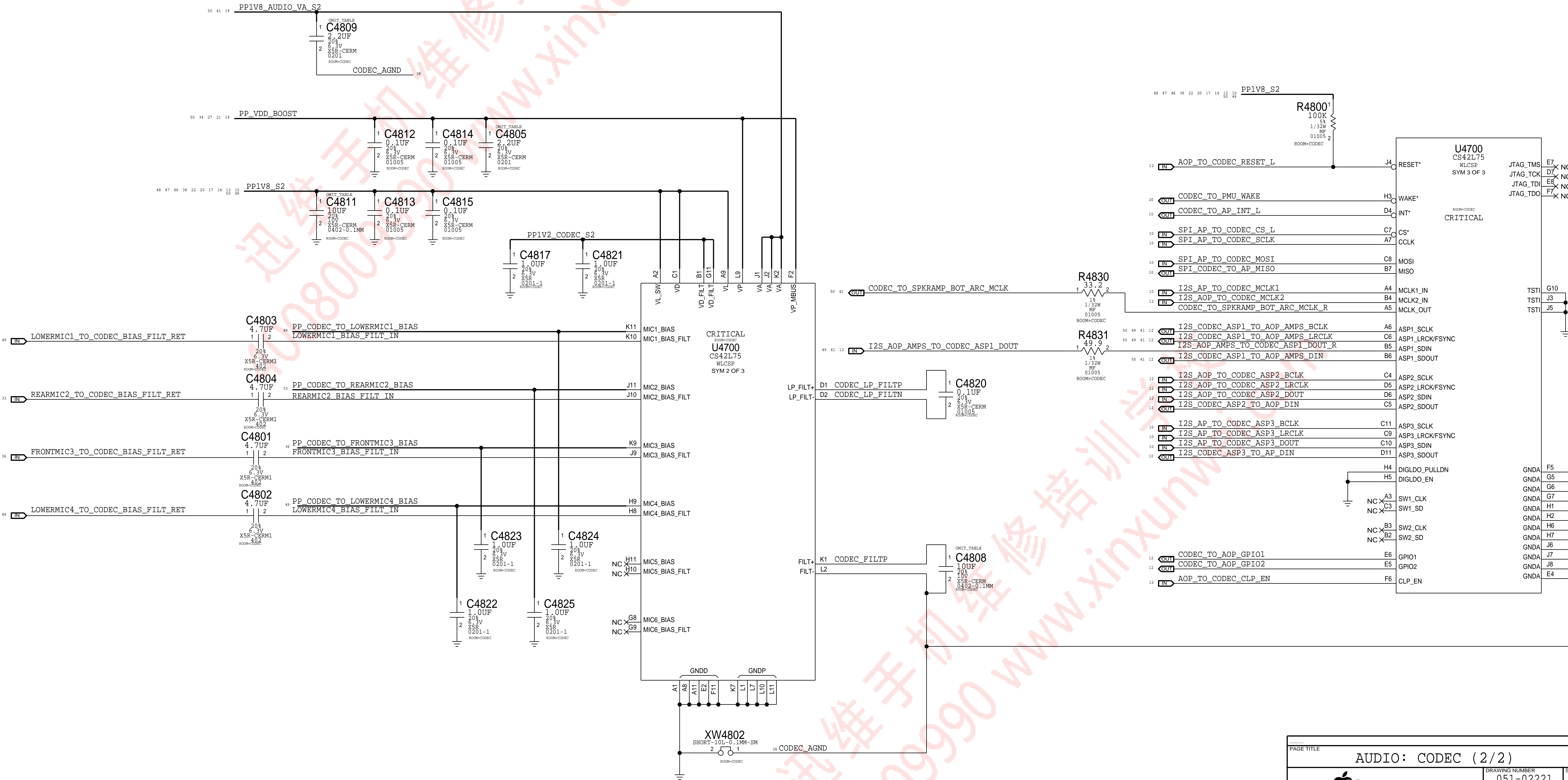
PAGE TITLE		DRAWING NUMBER		SIZE	
PEARL: B2B Rosaline + Misc		051-02221		D	
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		SHEET		36 OF 51	


CALLAN AUDIO CODEC (ANALOG INPUTS & OUTPUTS)

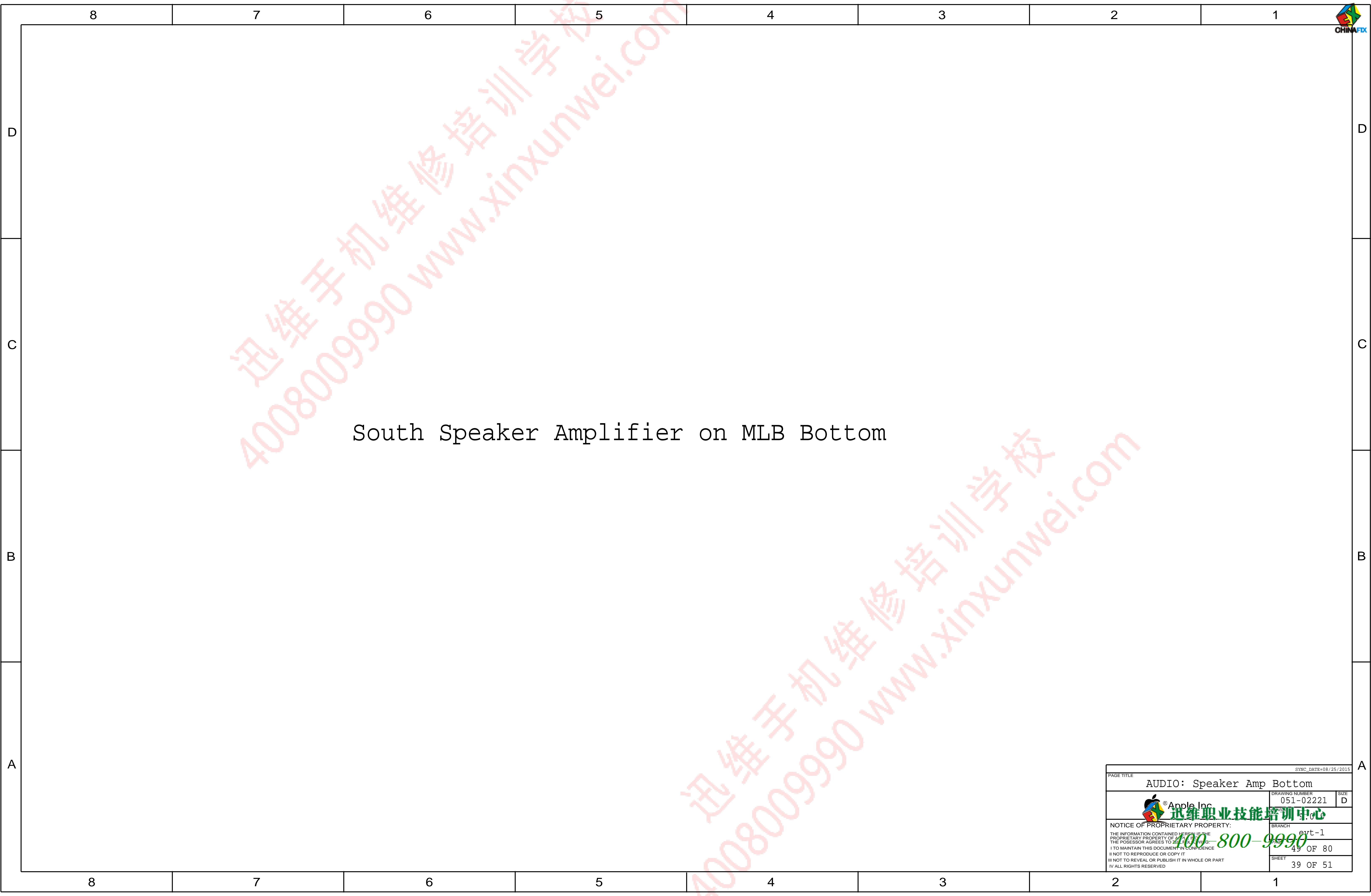


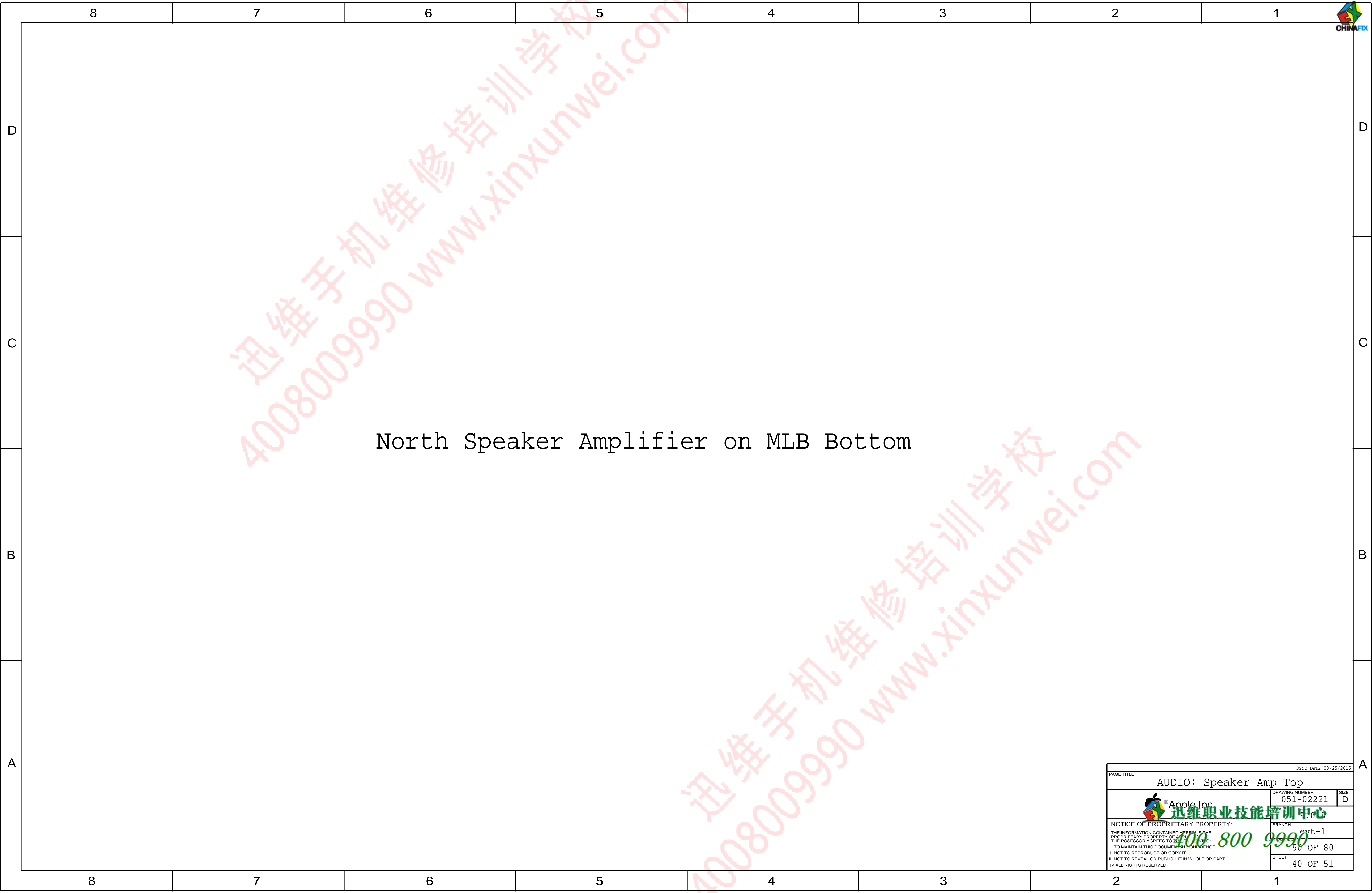


CALLAN AUDIO CODEC (POWER & I/O)




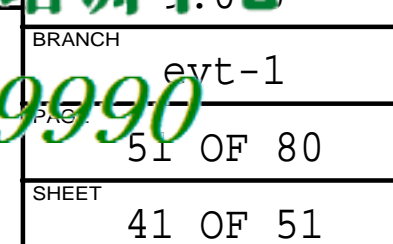
PAGE TITLE		
AUDIO: CODEC (2/2)		
 Apple Inc. 迅维职业技能培训中心	DRAWING NUMBER	051-02221
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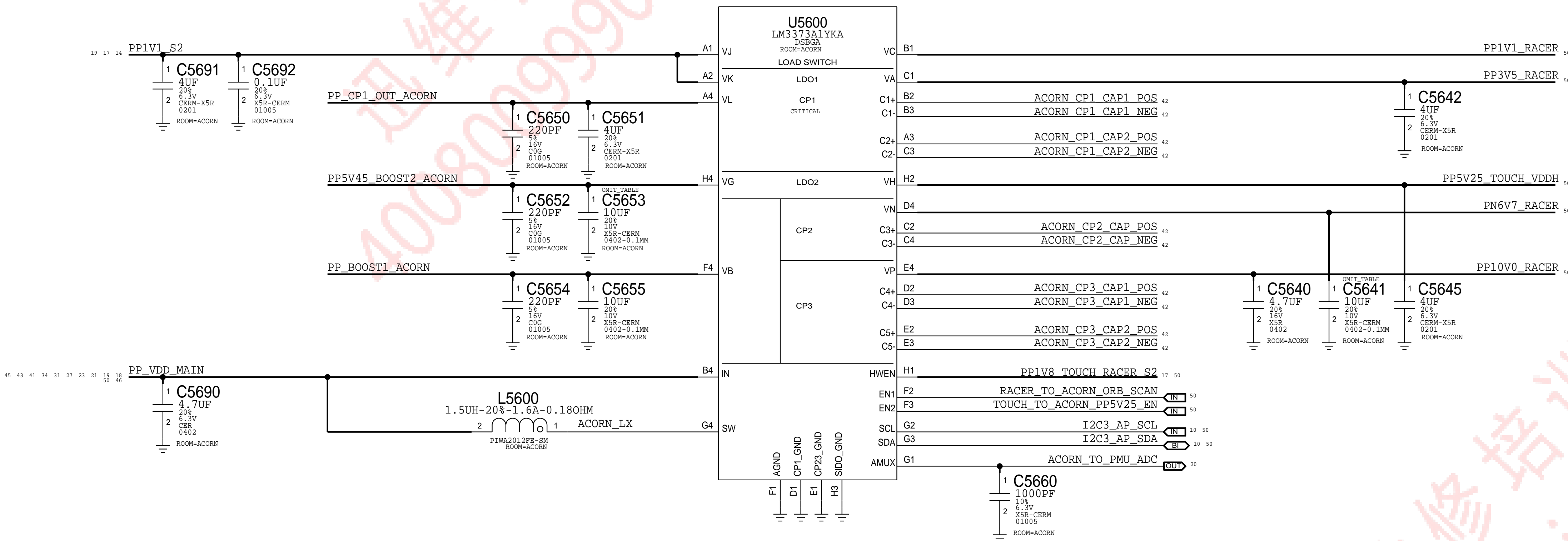
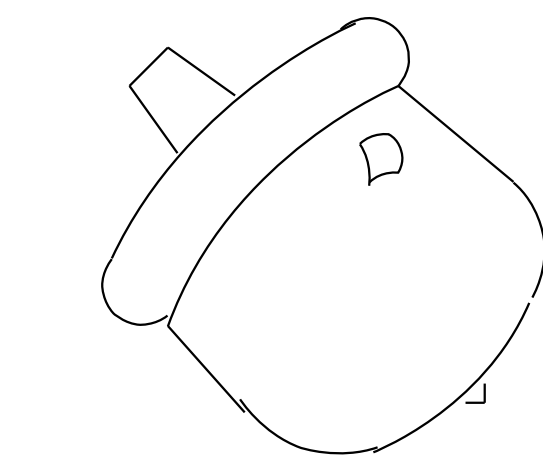


North Speaker Amplifier on MLB Bottom

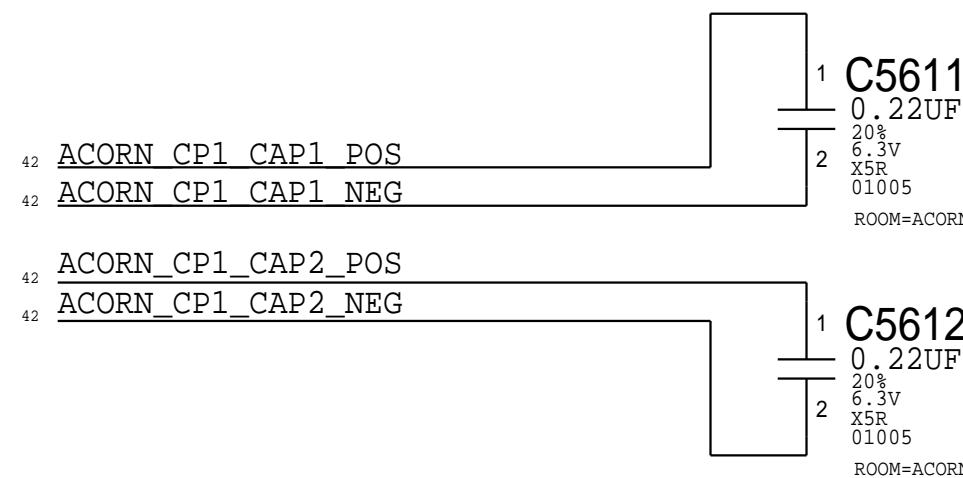
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AUDIO: Speaker Amp Top				
 Apple Inc	DRAWING NUMBER	051-02221	SIZE	D
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Acorn PMU



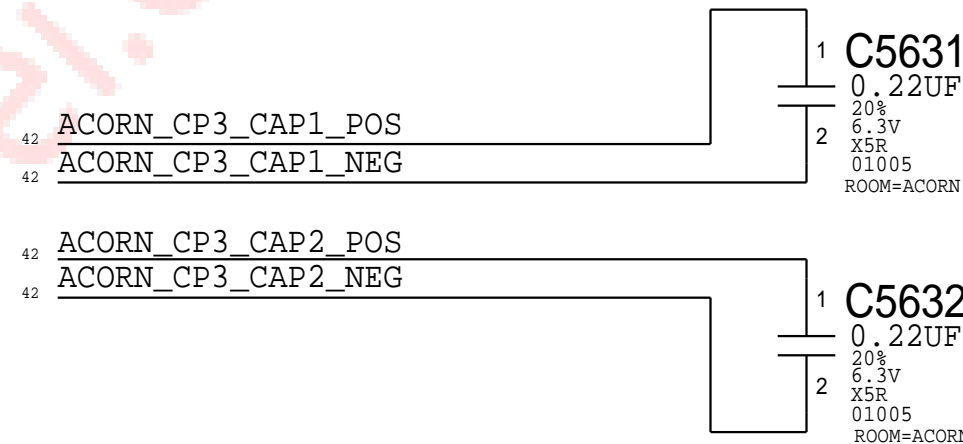
Charge Pump 1 Caps



Charge Pump 2 Caps



Charge Pump 3 Caps

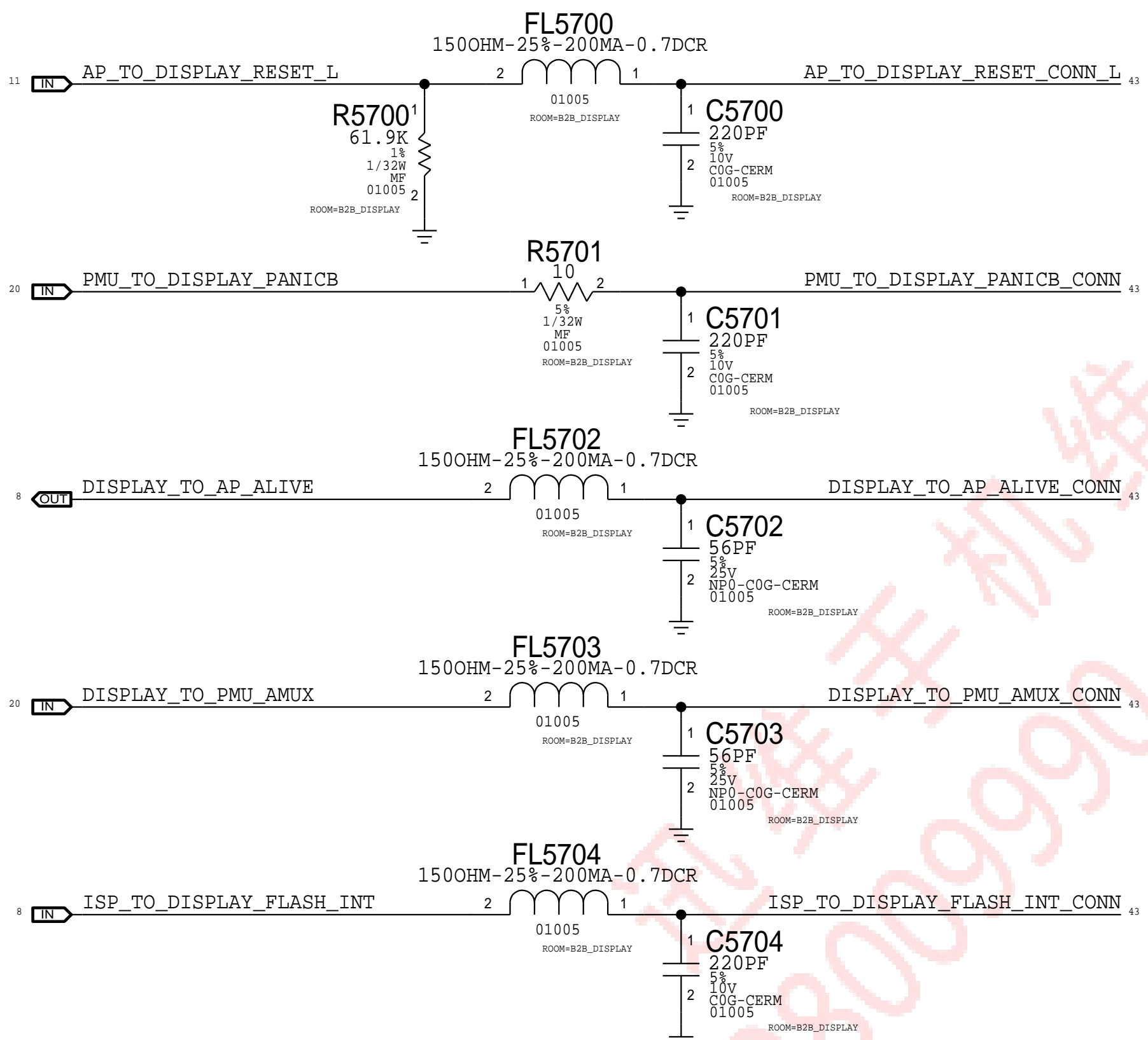




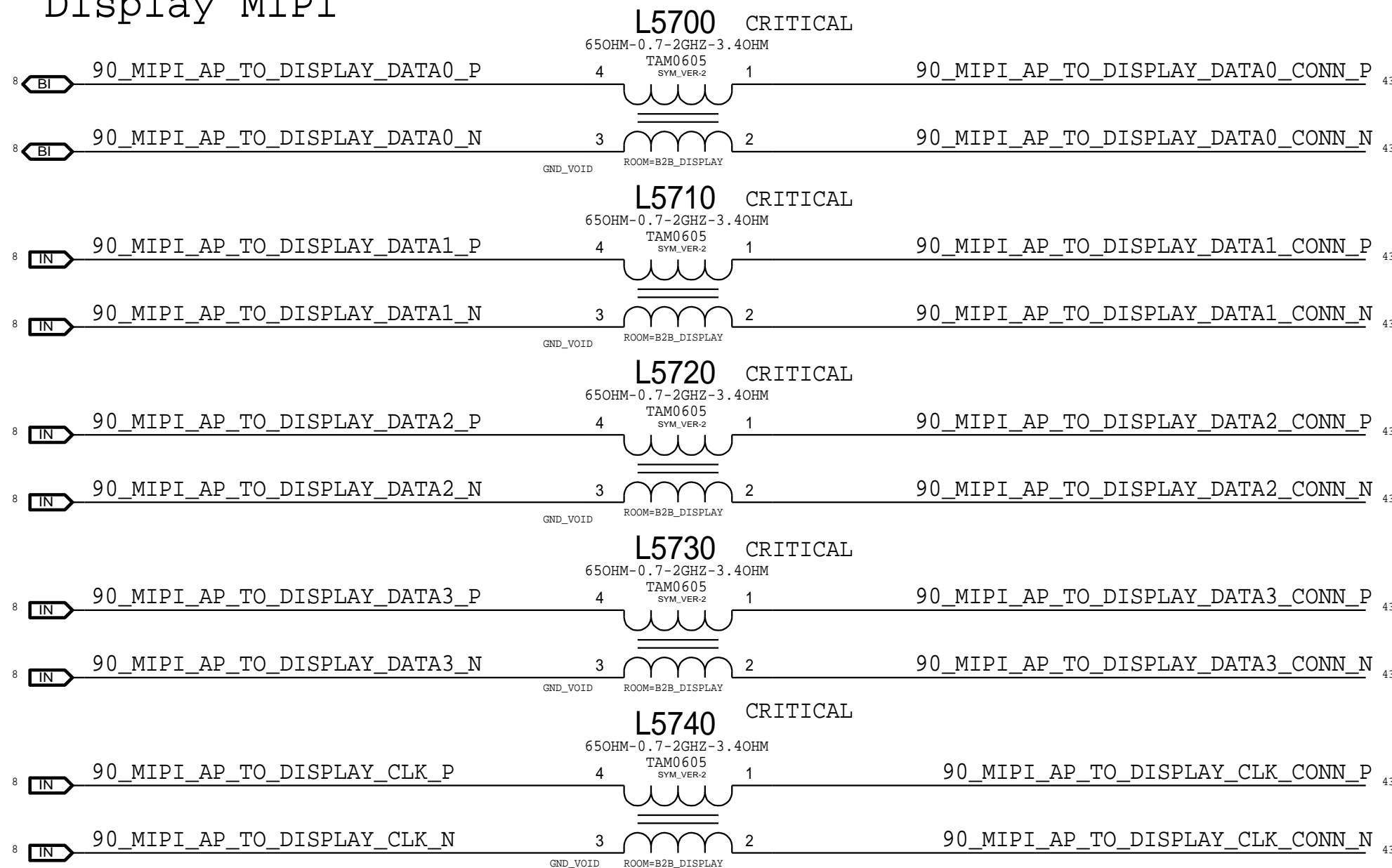
Display Flex Connector

Rcpt: 516S00210 <-- This one on MLB
Plug: 516S00211

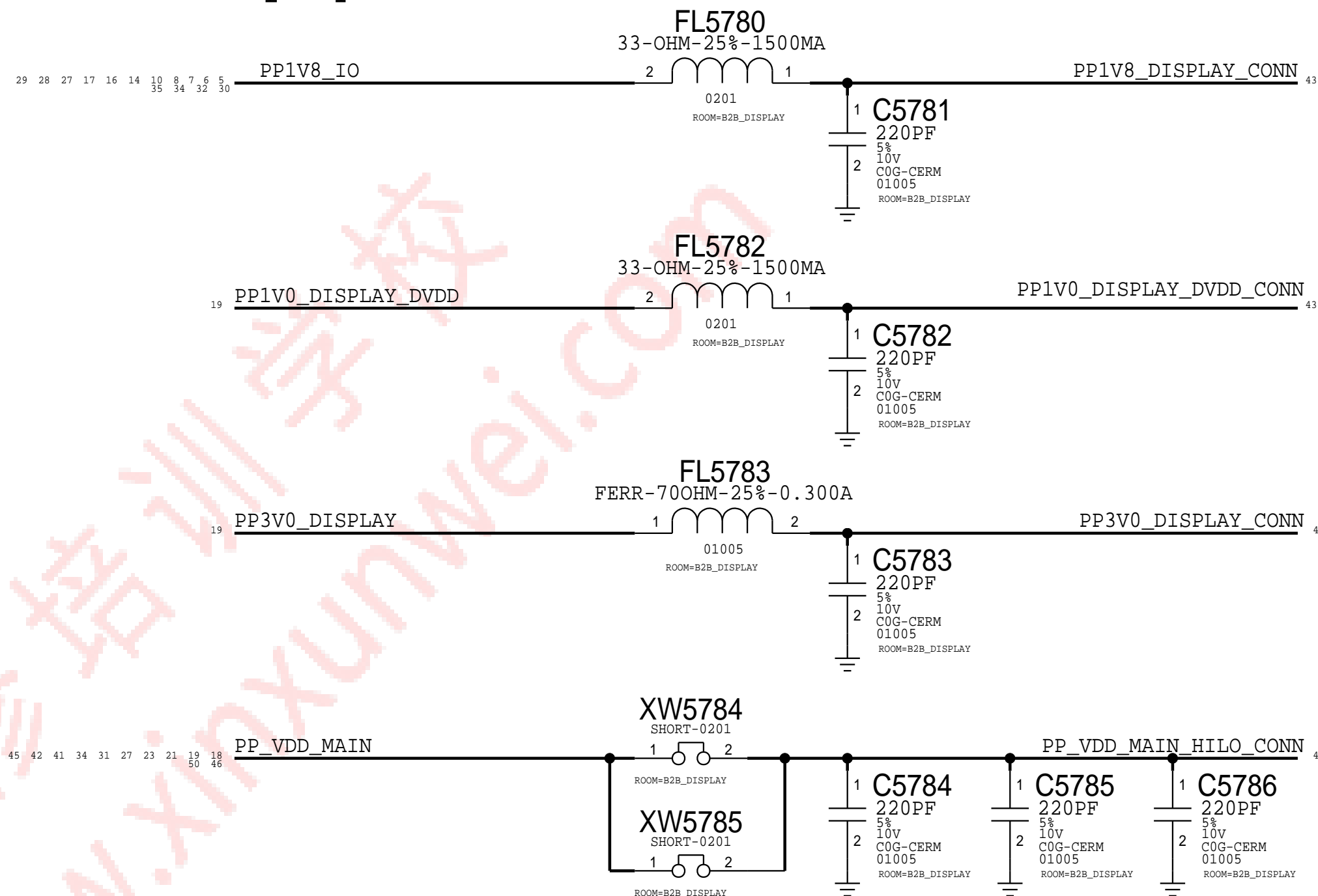
Display Control Signals




Display MIPI



Display Power



PAGE TITLE		
CG: B2B Display		
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8		7		6		5		4		3		2		1		<div><div></div><div>CHINAFOX</div></div>	
D																D	
C																C	
B		Orb + Touch Connector on MLB Bottom														B	
A																A	
8		7		6		5		4		3		2		1			

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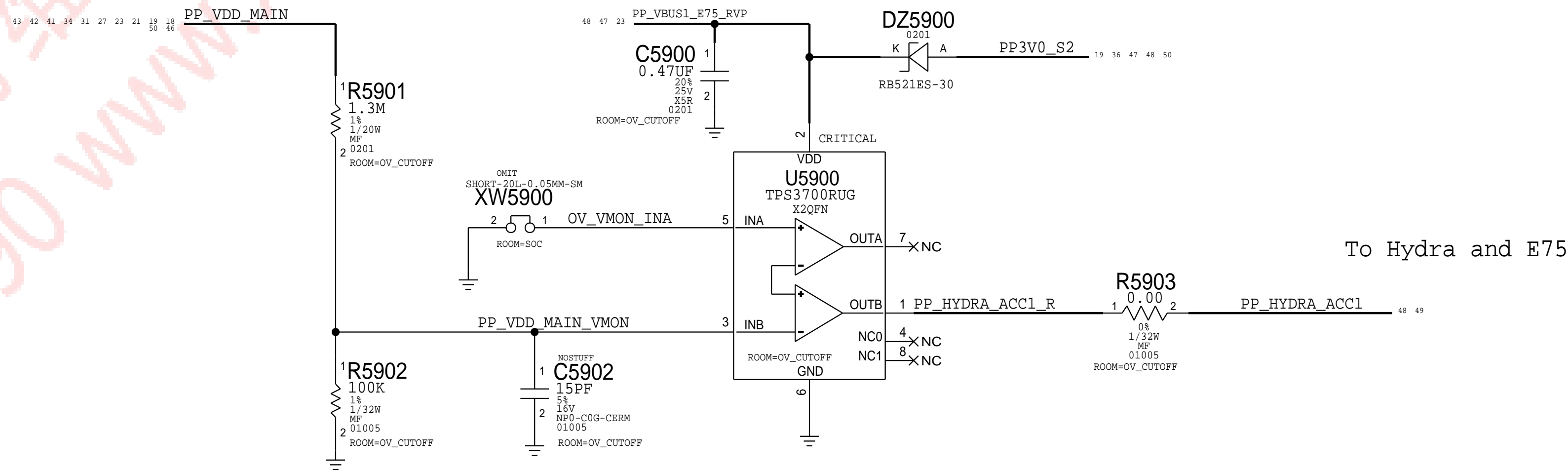
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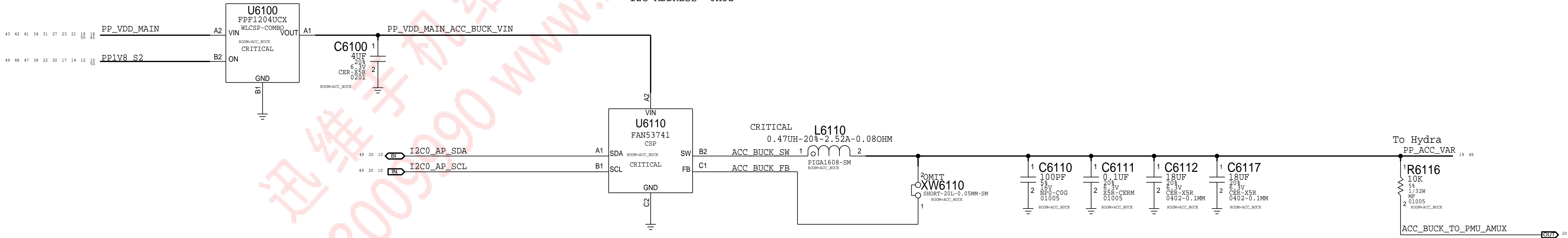
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			SHEET		44 OF 51			

VDD_MAIN OV CUT-OFF CIRCUIT

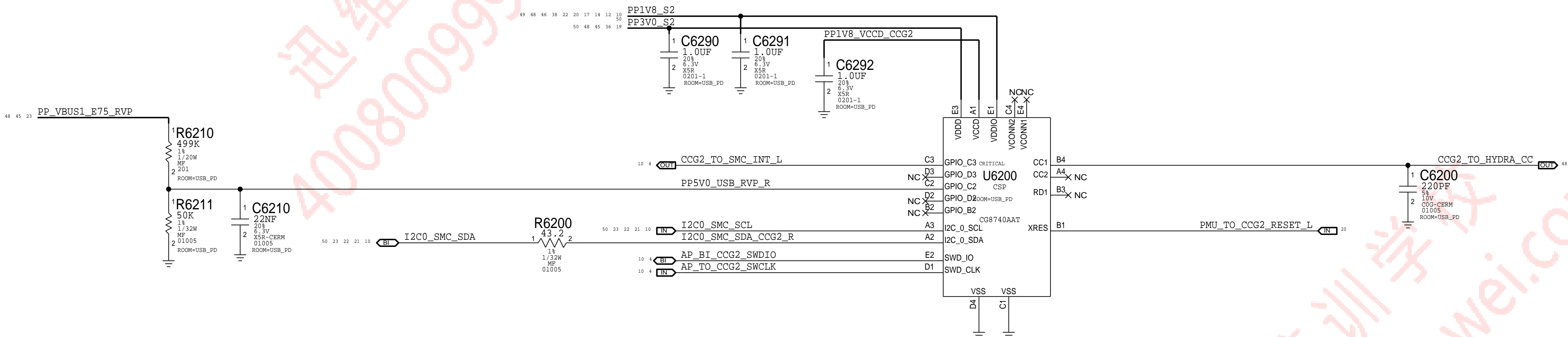


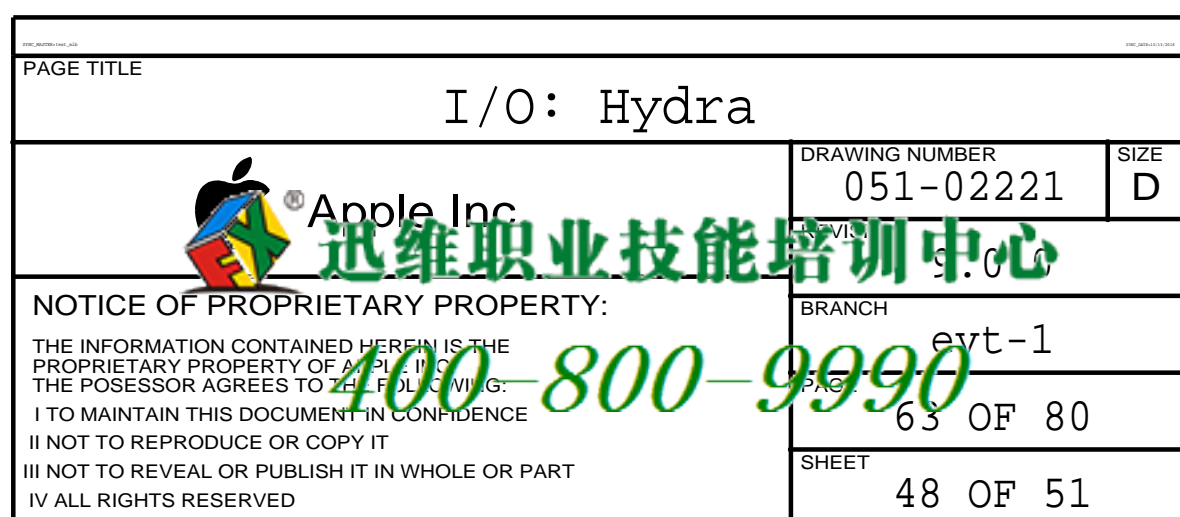
ACCESSORY BUCK

I2C ADDRESS: 0x52



USB-PD





DOCK FLEX CONNECTOR

Rcpt: 516S00038
Plug: 516S00037

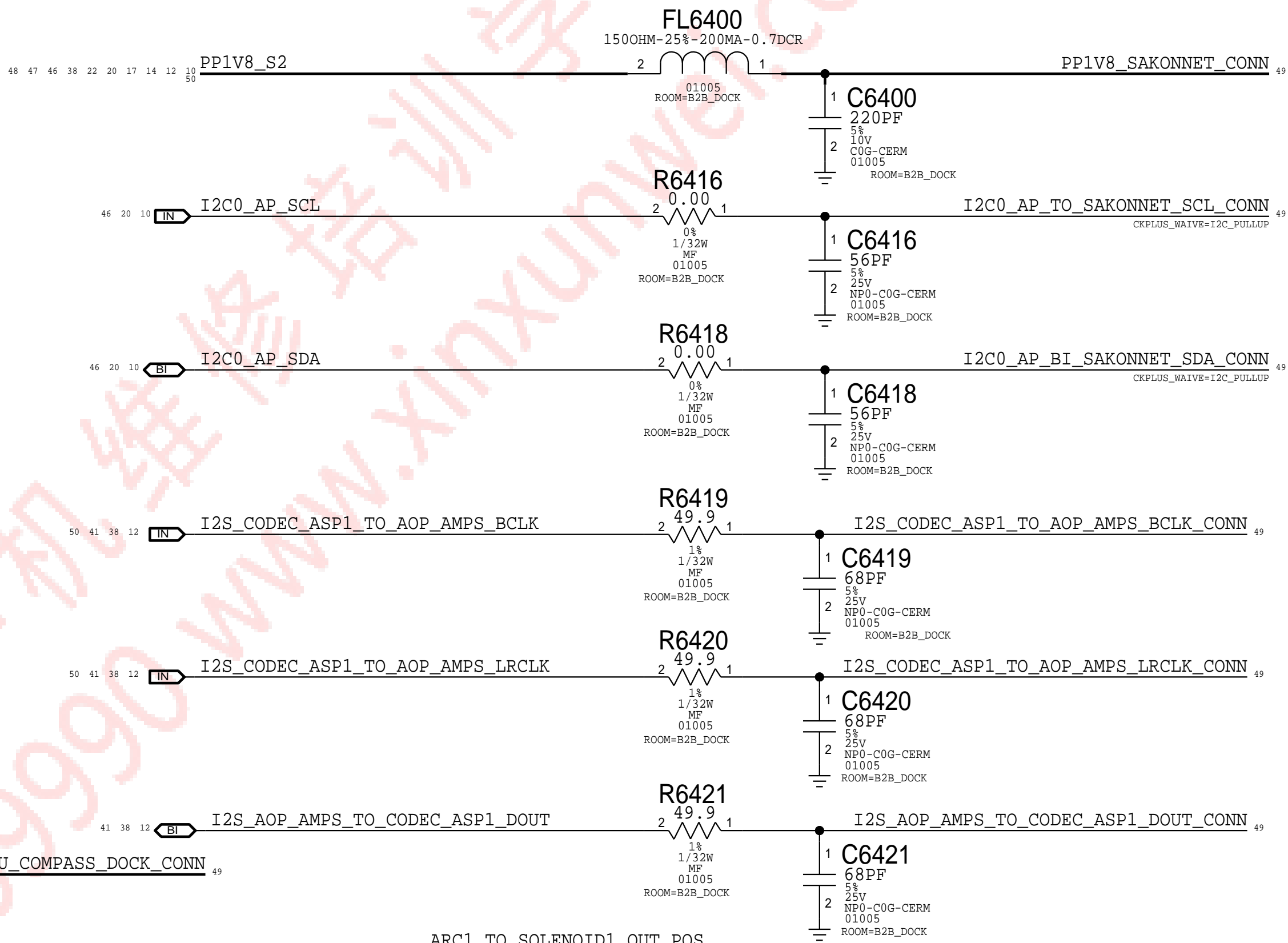
I/O: B2B Dock

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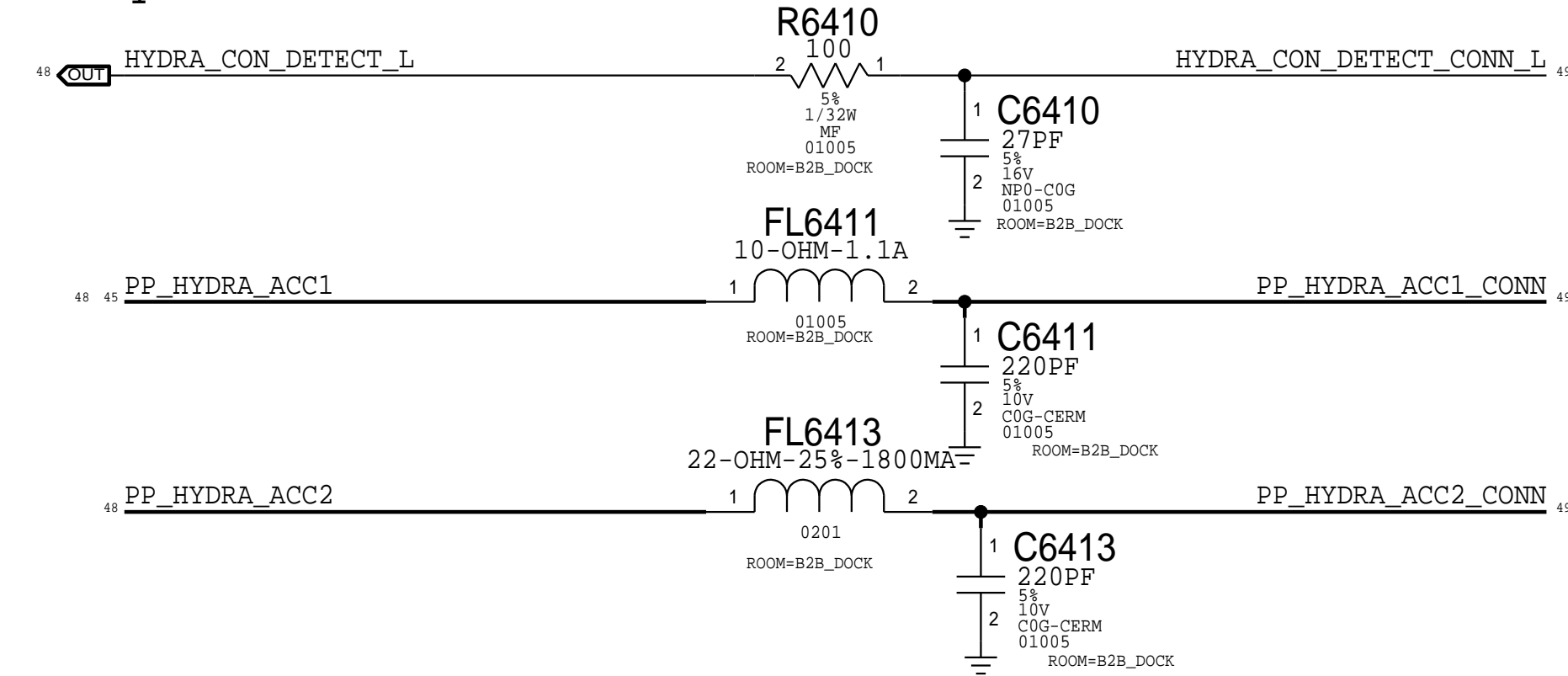
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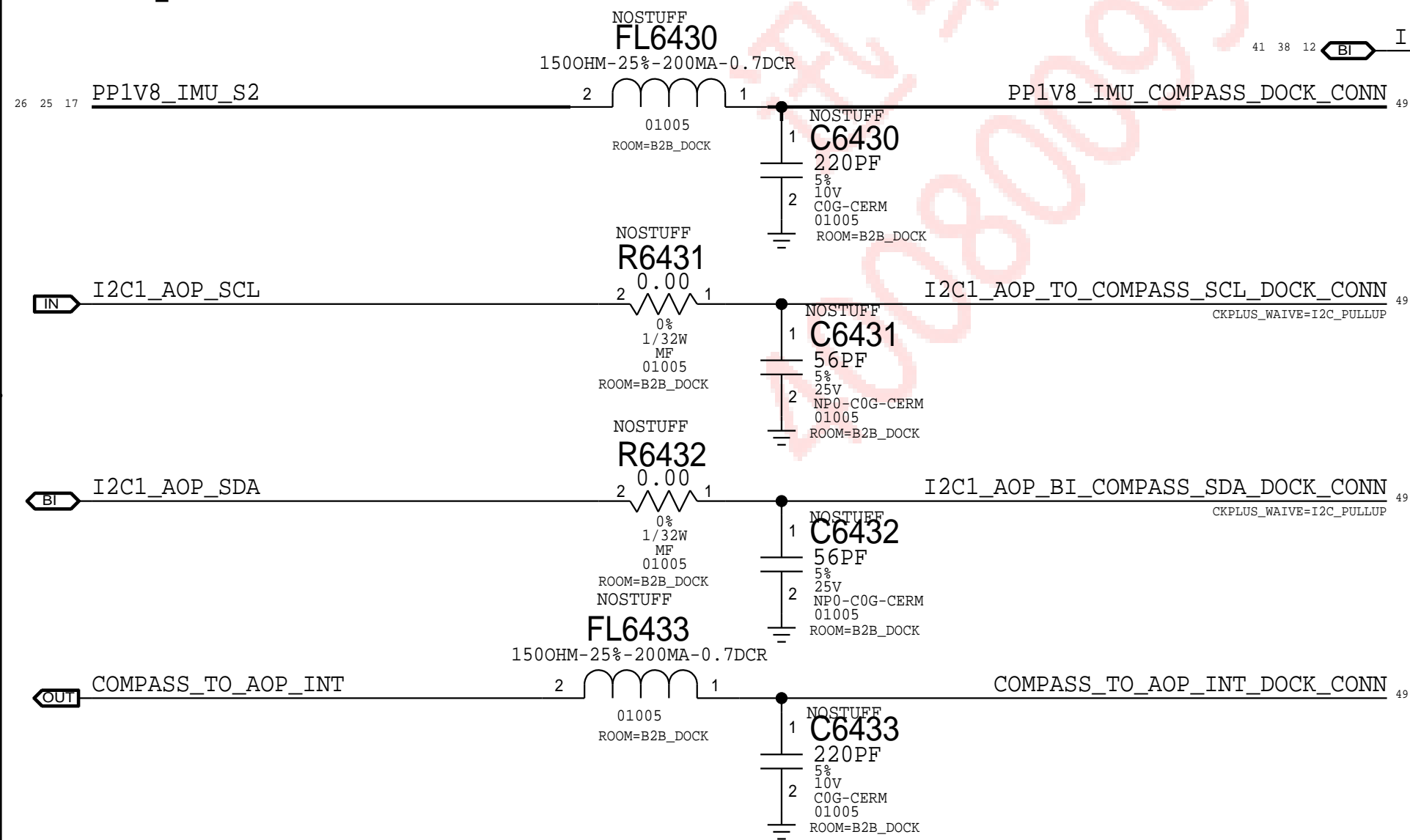
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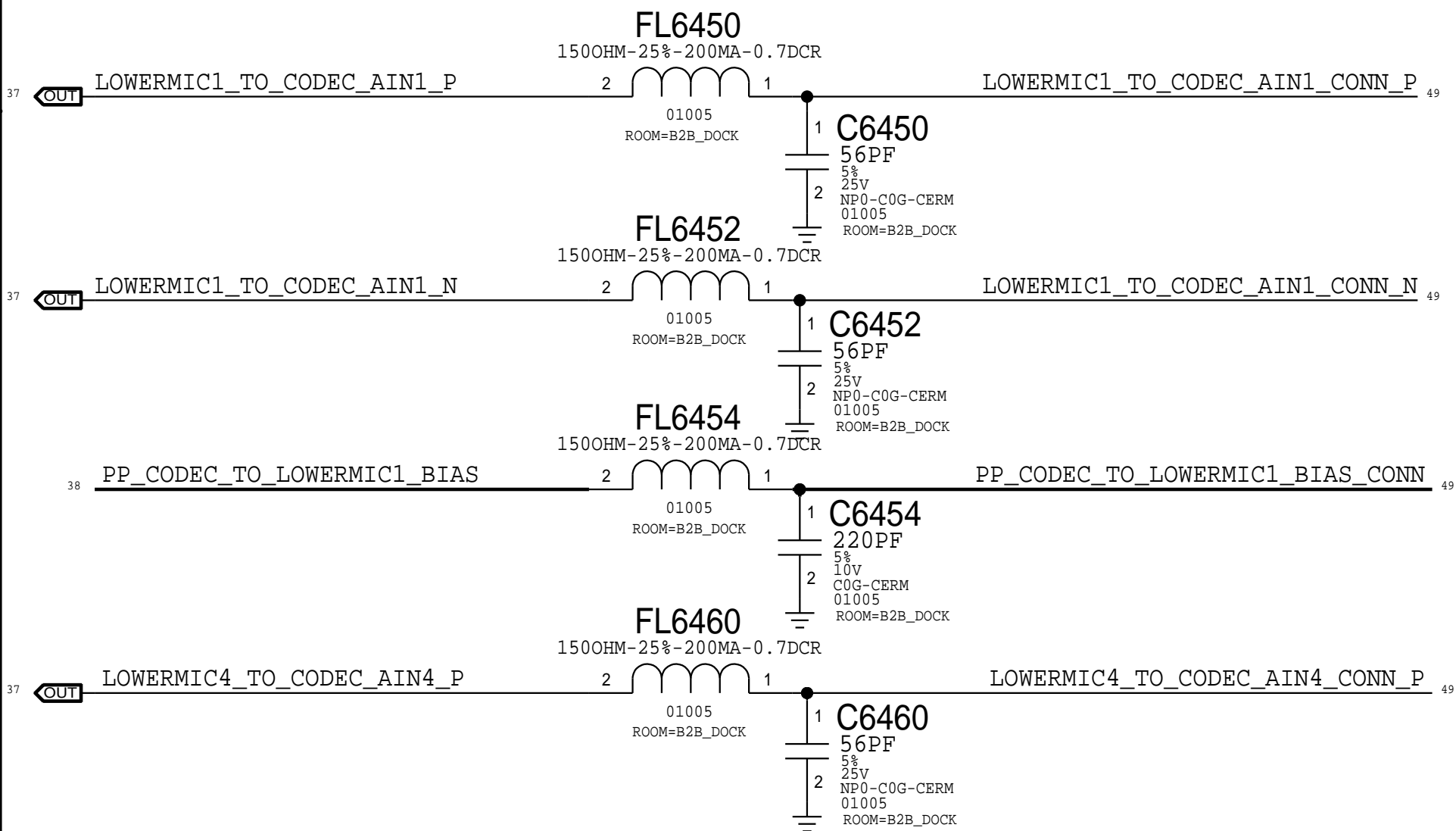
Hydra



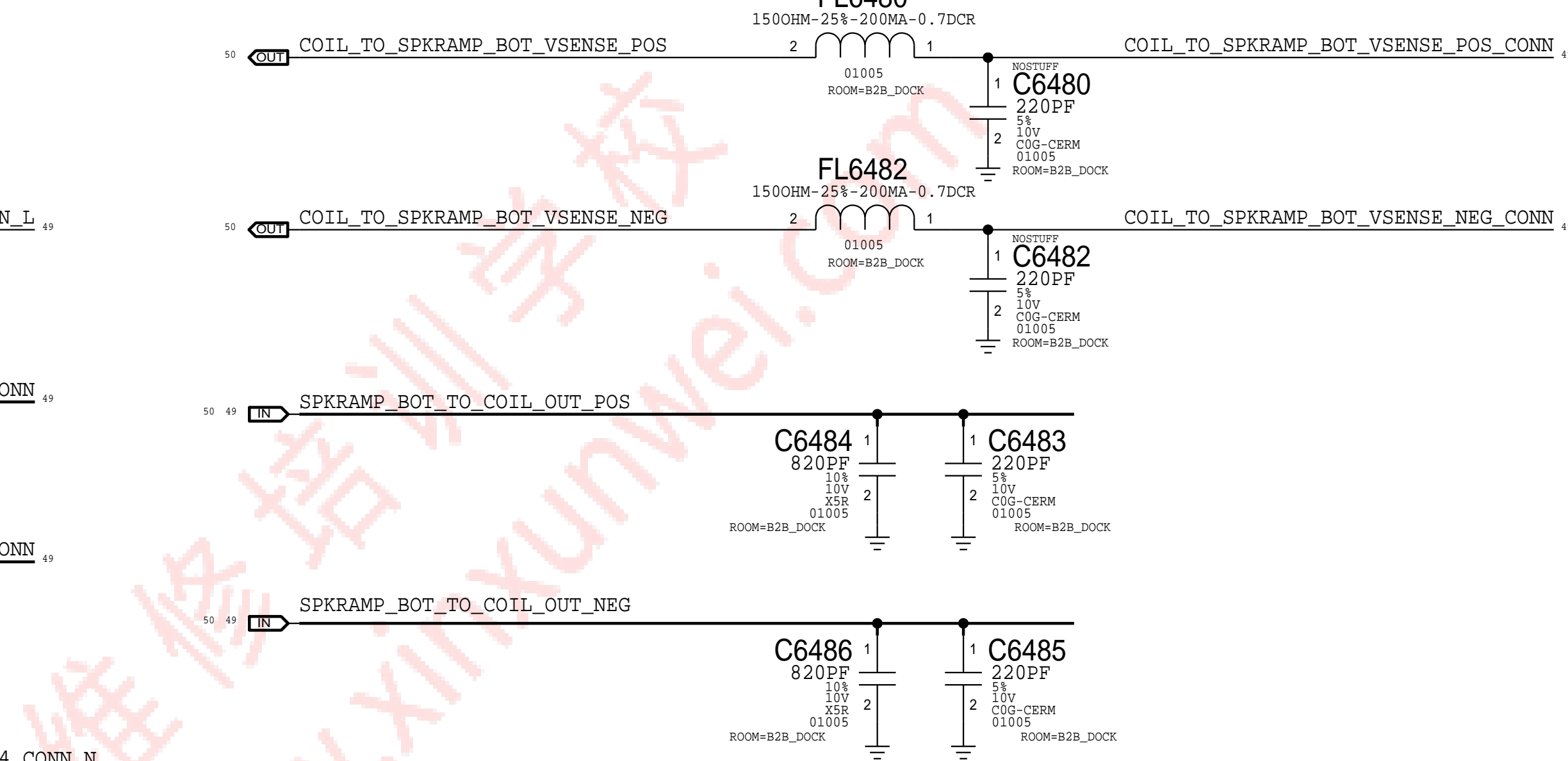
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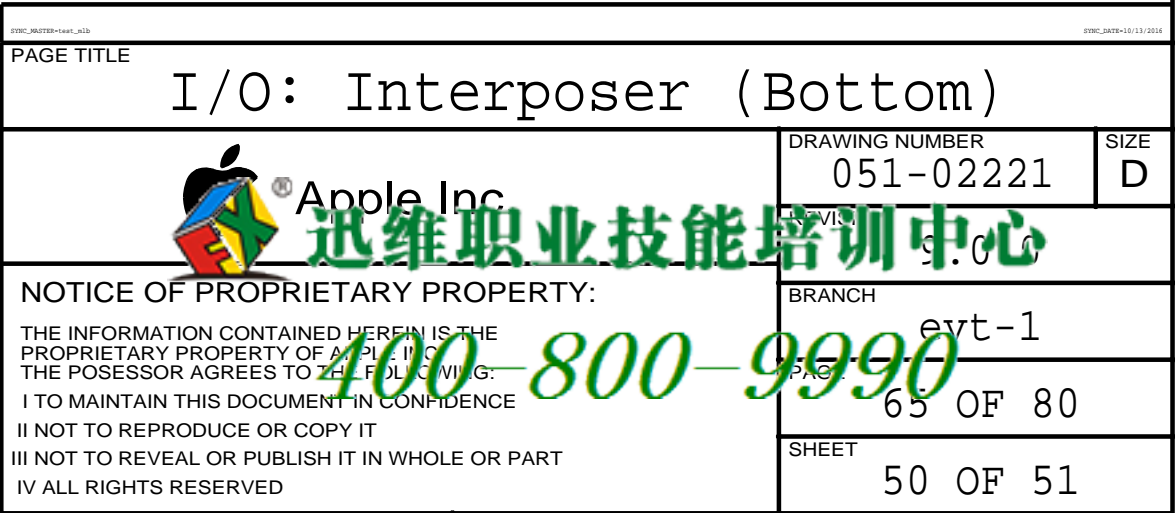


LOWER MIC1 + LOWER MIC4



SOUTH SPEAKER





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8	7	6	5	4	3	2	1			
1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.						REV	ECN	DESCRIPTION OF REVISION	CK APPD	DATE
2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.						7	0008448938	ENGINEERING RELEASED		
3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.										2017-04-11



X893 MLB Bottom: EVT

LAST_MODIFICATION= Tue Apr 11 16:10:11 2017

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Sub Designs

SOURCE PROJECT	SUB-DESIGN NAME	VERSION	HARD/ SOFT	SYNC_DATE/TIME
D221	RADIO_MLB	0.115.0	S	2017_04_05_18:48:43
D22	NFC_MLB	0.22.0	S	2017_03_22_22:11:23
D22	WIFI_MLB	0.20.0	S	2017_04_04_09:54:33

DRAWING TITLE		SYNC_DATE=07/29/2016	
SCH, MLB, BOT, X893			
 		DRAWING NUMBER 051-02247	
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BOM: 639-03229
MCO: 056-04080

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-02247	1	SCH,MLB_BOT,X893	SCH	NO	COMMON
820-00869	1	PCB,MLB_BOT,X893	PCB	NO	COMMON

EEEE Codes

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
825-7691	1	EEEE FOR (MLB_BOT, 639-03229)	EEEE_HM07	NO	COMMON

Global Capacitors

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00148	138S00149	BOM_TABLE_ALTS	ALL	0402-3T,10.5uF@1V, Kyocera
138S00150	138S00149	BOM_TABLE_ALTS	ALL	0402-3T,10.5uF@1V, SEMCO
138S00151	138S00149	BOM_TABLE_ALTS	ALL	0402-3T,10.5uF@1V, TT

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00143	138S00144	BOM_TABLE_ALTS	ALL	0402,16uF@1V, Kyocera
138S00163	138S00144	BOM_TABLE_ALTS	ALL	0402,16uF@1V, Taiyo

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00138	138S00139	BOM_TABLE_ALTS	ALL	0201,3uF@1V, Kyocera
138S00164	138S00139	BOM_TABLE_ALTS	ALL	0201,3uF@1V, Taiyo

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00145	138S00146	BOM_TABLE_ALTS	ALL	0402,5.1uF@3V, Kyocera
138S00165	138S00146	BOM_TABLE_ALTS	ALL	0402,5.1uF@3V, Taiyo

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00140	138S00141	BOM_TABLE_ALTS	ALL	0201,1.1uF@3V, Kyocera
138S00142	138S00141	BOM_TABLE_ALTS	ALL	0201,1.1uF@3V, SEMCO
138S00166	138S00141	BOM_TABLE_ALTS	ALL	0201,1.1uF@3V, Taiyo

CRITICAL PART#	COMMENT
138S00149	0402-3T,10.5uF@1V

CRITICAL PART#	COMMENT
138S00144	0402,16uF@1V

CRITICAL PART#	COMMENT
138S00139	0201,3uF@1V

CRITICAL PART#	COMMENT
138S00146	0402,5.1uF@3V

CRITICAL PART#	COMMENT
138S00141	0201,1.1uF@3V

Global Ferrites

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S00558	152S00557	BOM_TABLE_ALTS	ALL	IND,MKD,0.47UH,20H,2.5A,80MH,1608
155S00194	155S0610	BOM_TABLE_ALTS	ALL	FERR BD,150 OHM,25H,200MA,0.7 DCR,01005
155S00200	155S0610	BOM_TABLE_ALTS	ALL	FERR BD,150 OHM,25H,200MA,0.7 DCR,01005

CRITICAL PART#	COMMENT
152S00557	IND,MKD,0.47UH,20H,2.5A,80MH,1608
155S0610	FERR BD,150 OHM,25H,200MA,0.7 DCR,01005

Global R/C Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S0648	138S0652	BOM_TABLE_ALTS	ALL	CAP,XSR,4.7UF,6.3V,0.65MM,0402,TAIYO
138S00024	138S0986	BOM_TABLE_ALTS	ALL	CAP,CER,3-TERRM,7.5UF,20H,4V,0402,TAIYO/TDK
138S0706	138S0739	BOM_TABLE_ALTS	ALL	CAP,CER,10UF,20H,10V,XSR,0201,NEBRATA
138S0945	138S0739	BOM_TABLE_ALTS	ALL	CAP,CER,10UF,20H,10V,XSR,0201,NEBRATA
138S0739	138S0706	BOM_TABLE_ALTS	ALL	CAP,CER,XSR,0.22UF,20H,6.3V,20H
132S0436	132S0400	BOM_TABLE_ALTS	ALL	CAP,CER,XSR,0.22UF,20H,6.3V,01005
138S00049	138S0831	BOM_TABLE_ALTS	ALL	CAP,CER,XSR,2.2UF,20H,6.3V,0201

CRITICAL PART#	COMMENT
138S0652	CAP,XSR,4.7UF,6.3V,0.65MM,0402,TAIYO
138S0986	CAP,CER,3-TERRM,7.5UF,20H,4V,0402,TAIYO/TDK
138S0739	CAP,CER,10UF,20H,10V,XSR,0201,NEBRATA

138S0706	CAP,CER,XSR,0.22UF,20H,6.3V,20H
132S0400	CAP,CER,XSR,0.22UF,20H,6.3V,01005
138S0831	CAP,CER,XSR,2.2UF,20H,6.3V,0201

Global Inductors

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S00653	152S00651	BOM_TABLE_ALTS	ALL	IND,1.2UH,3A,2016,0.65Z
152S00654	152S00652	BOM_TABLE_ALTS	ALL	IND,1.2UH,3A,2016,0.8Z

CRITICAL PART#	COMMENT
152S00651	IND,1.2UH,3A,2016,0.65Z
152S00652	IND,1.2UH,3A,2016,0.8Z

Multi-Vendor Criticals

CRITICAL PART#	COMMENT	CRITICAL PART#	COMMENT
138S0979	CAP,CER,XSR,10UF,20H,10V,0402,H=0.65MM	132S00008	CAP,CER,0.1UF,10H,50V,X7R,0402
138S0683	CAP,CER,XSR,1UF,10H,25V,0402	131S0804	CAP,CER,27PF,5H,COG,25V,0201
132S0663	CAP,CER,XSR,1UF,10H,25V,0402	131S0307	CAP,CER,NFO/COG,100PF,5H,16V,01005
132S0288	CAP,CER,XSR,0.1UF,10H,16V,0201	131S00053	CAP,CER,COG,220PF,5H,10V,01005
132S0275	CAP,CER,XSR,470PF,10H,10V,01005	117S0055	RES,NF,1/20W,2M OHM,5,0201,SMD
132S0245	CAP,CER,XSR,0.01UF,10H,6.3V,01005	107S0257	THERMISTOR,NTC,10K OHM,1H,B=3435,01005

Iktara

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
132S00021	8	CAP,CER,0.082UF,10H,50V,X7R,0402	C3462,C3463,C3464,C3465,C3466,C3467,C3468,C3469	NO	COMMON
132S0423	2	CAP,CER,0.022UF,50V,X7R,10H,0402	C3451,C3465	CRITICAL	COMMON
132S0423	2	CAP,CER,0.022UF,50V,X7R,10H,0402	C3455,C3466	CRITICAL	NOSTUFF

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
685-00185	685-00184	BOM_TABLE_ALTS	SUBBOM_DS	SUBBOM_MLB_BOT,01005,X893

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
685-00184	1	SUBBOM_MLB_BOT,DIODES,DIODES,X893	SUBBOM_DS	CRITICAL	COMMON
371S00133	4	DIODES,SHOTTKY DIODE,30V,2A,0603	D3400,D3401,D3402,D3403	CRITICAL	DIODES_DS
371S00132	4	ONSMI,SHOTTKY DIODE,30V,2A,0603	D3400,D3401,D3402,D3403	CRITICAL	ONSMI_DS

Soft-Term Cap Sub BOMs

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
685-00159	1	SUBBOM_MLB_BOT,CAP,TYPICAL,X893	SUBBOM_CAP	CRITICAL	COMMON

Touch/Luna B2B

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S00159	1	CAP,SOFT-TERM,2.2UF,6.3V,0201,KYOCERA	C5890	CRITICAL	SOFT_CAP
138S0831	1	CAP,TYPICAL,2.2UF,6.3V,0201,NEBRATA	C5890	CRITICAL	TYPICAL_CAP

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
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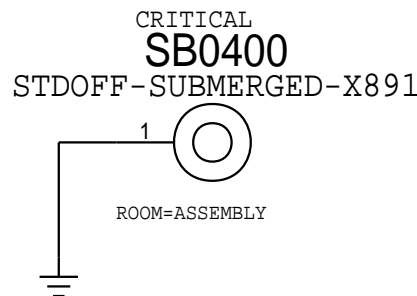
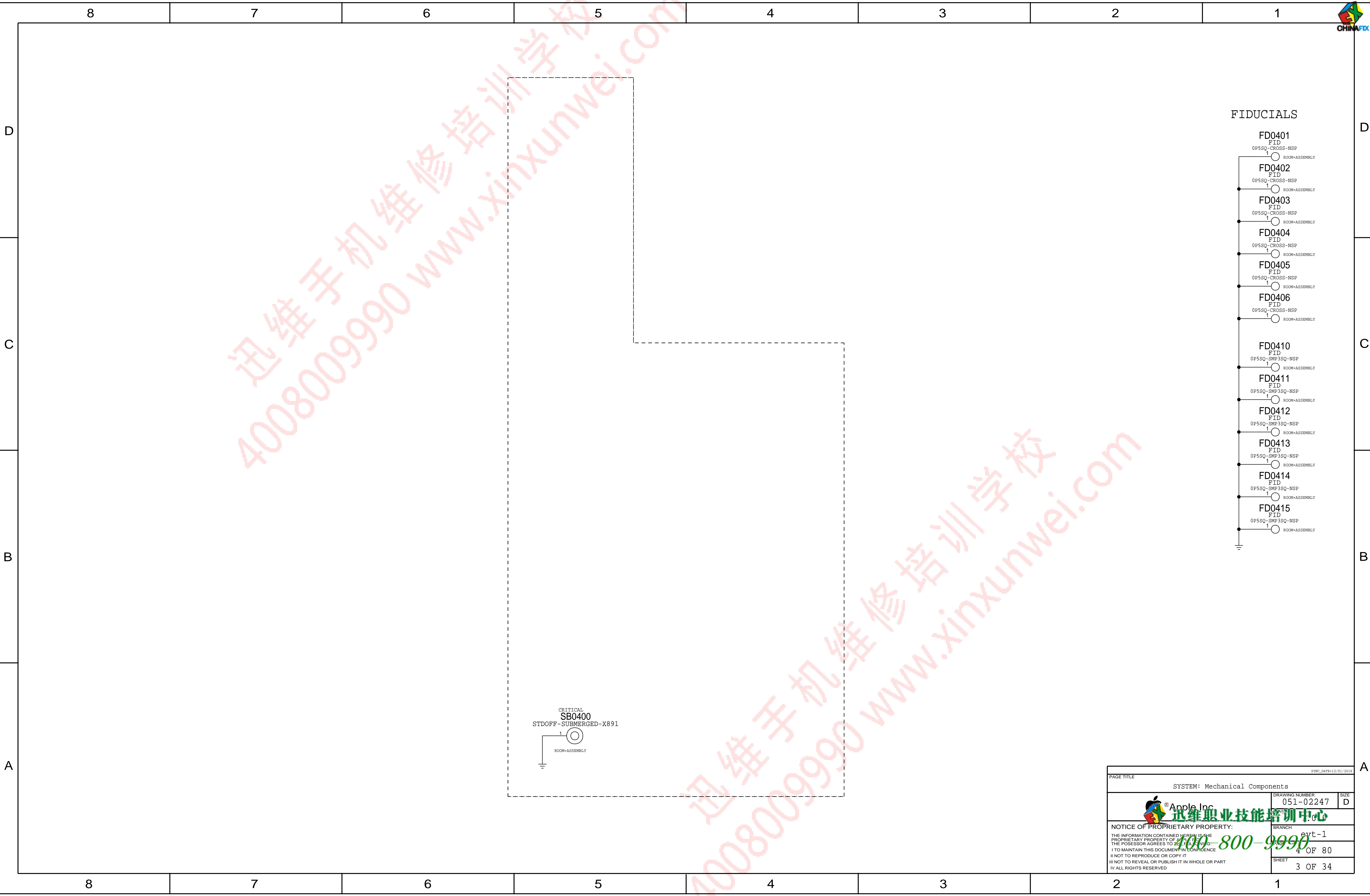
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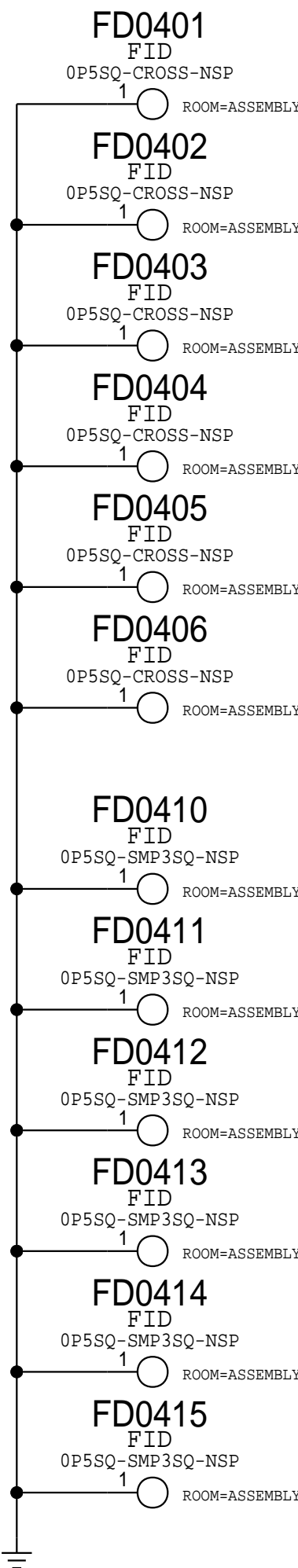
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FIDUCIALS



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 Apple Inc		DRAWING NUMBER		SIZE
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 武汉职业技能培训中心		BRANCH		
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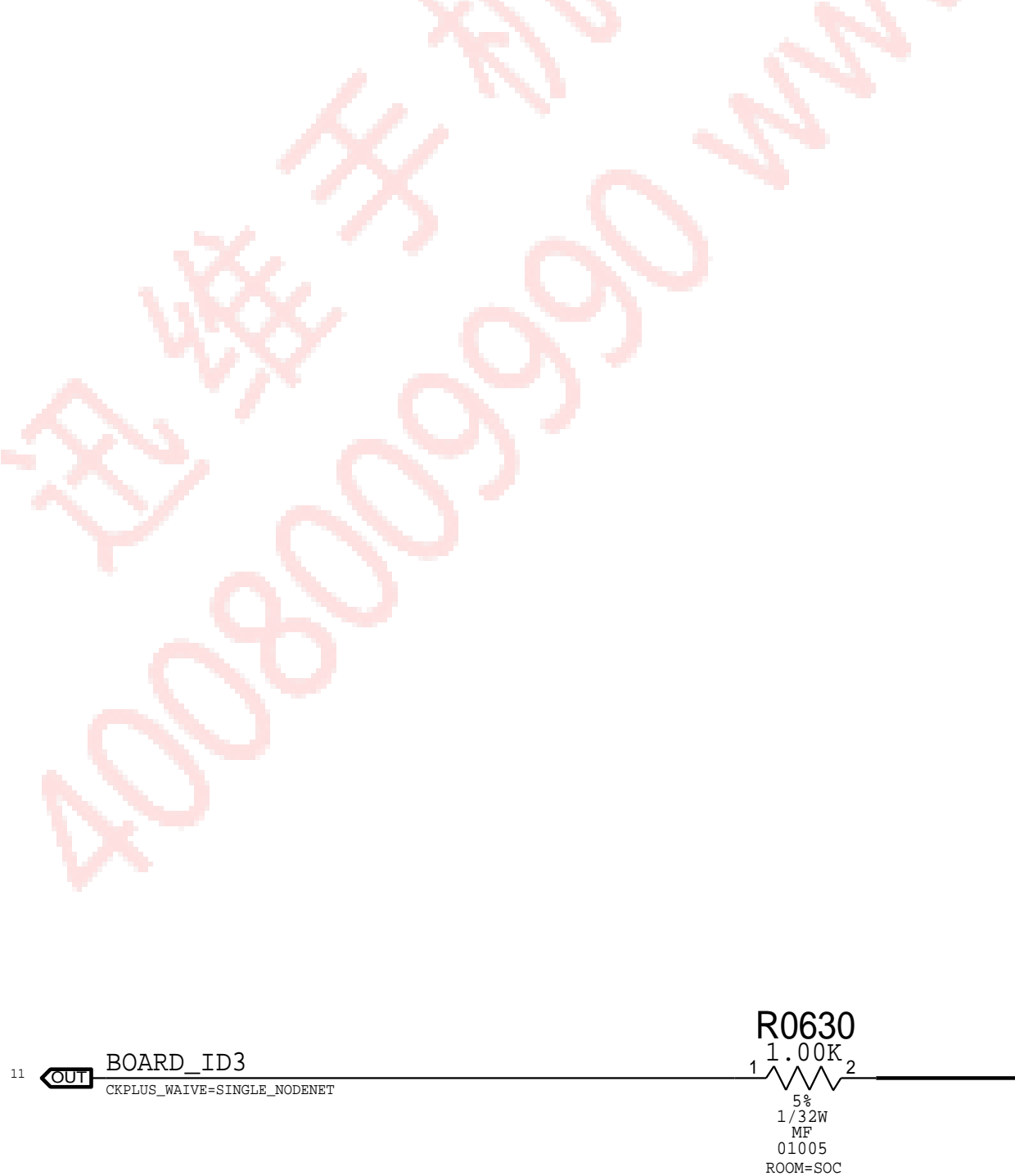
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BOOTSTRAPPING:BOARD ID[3]



D221 Selected (BOARD_ID3) ->

Board Rev[3:0]				
Float=Low I PU=High				
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	Build Major		Build Minor	
Proto 1	1	1	1	1
Proto 2	1	1	1	0
Proto 3	1	1	0	1
(Spare)	1	1	0	0
EVT	1	0	1	1
(Spare)	1	0	1	0
Carrier	0	1	1	1
(Spare)	0	1	1	0
DVT	0	0	1	1
(Spare)	0	0	1	0
(Spare)	0	0	0	1
PVT	0	0	0	0

Board ID[4:0]					
Float=Low I PU=High					
	4	3	2	1	0
	X	Baseband	Form Factor	MLB/Dev	
D20 MLB	0	0	0	1	0
D20 Dev	0	0	0	1	1
D21 MLB	0	0	1	0	0
D21 Dev	0	0	1	0	1
D22 MLB	0	0	1	1	0
D22 Dev	0	0	1	1	1
D201 MLB	0	1	0	1	0
D201 Dev	0	1	0	1	1
D211 MLB	0	1	1	0	0
D211 Dev	0	1	1	0	1
D221 MLB	0	1	1	1	0
D221 Dev	0	1	1	1	1

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Float=Low I PU=High			
	2	1	0
SPI0	0	0	0
SPI0 Test Mode	0	0	1
SPI0 NAND	0	1	0
SPI0 NAND Test	0	1	1
Slow SPI0 Test	1	1	0

PAGE TITLE

BOOTSTRAPPING

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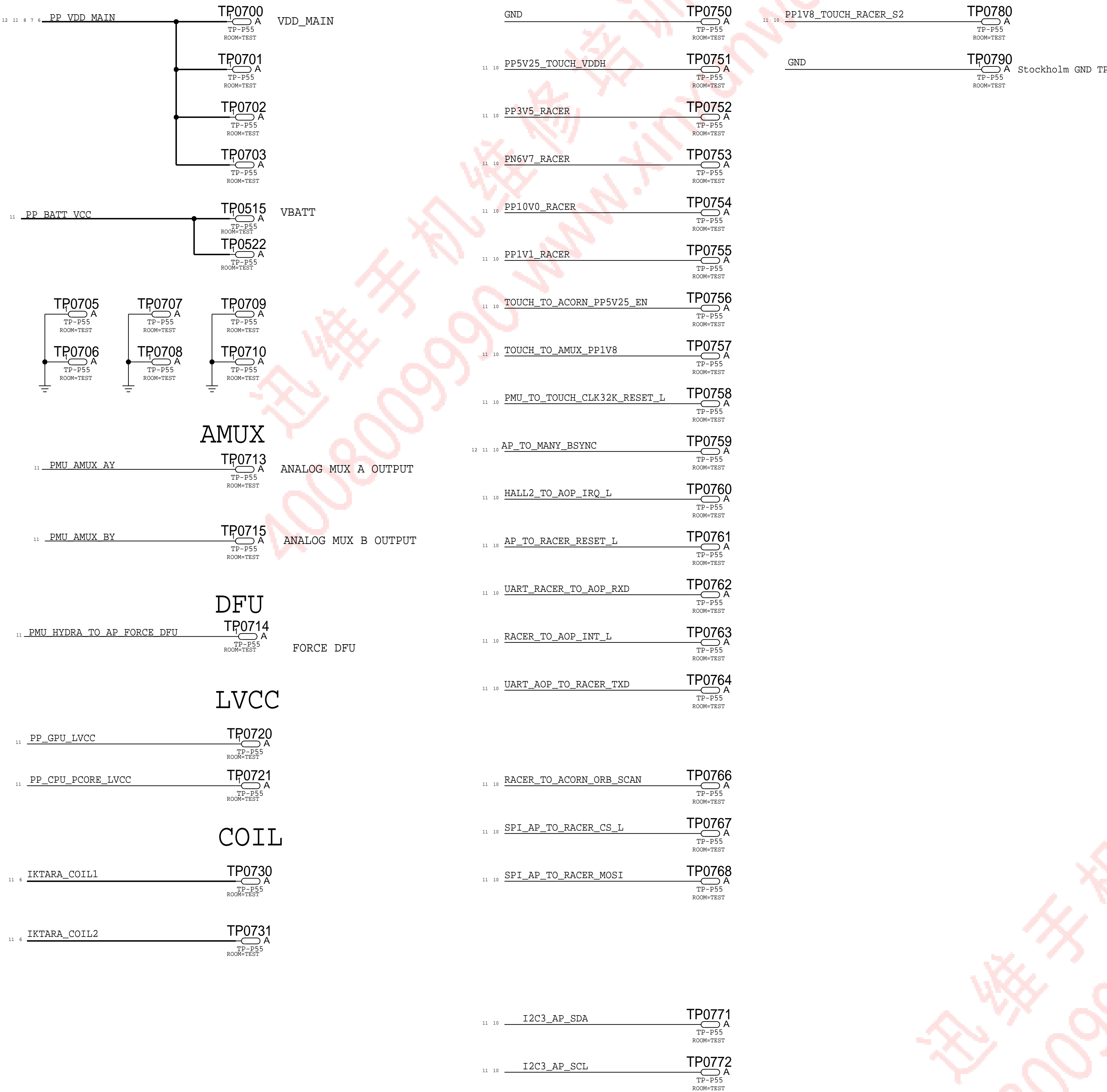
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Test Points

Probe Points

Iktara Debug

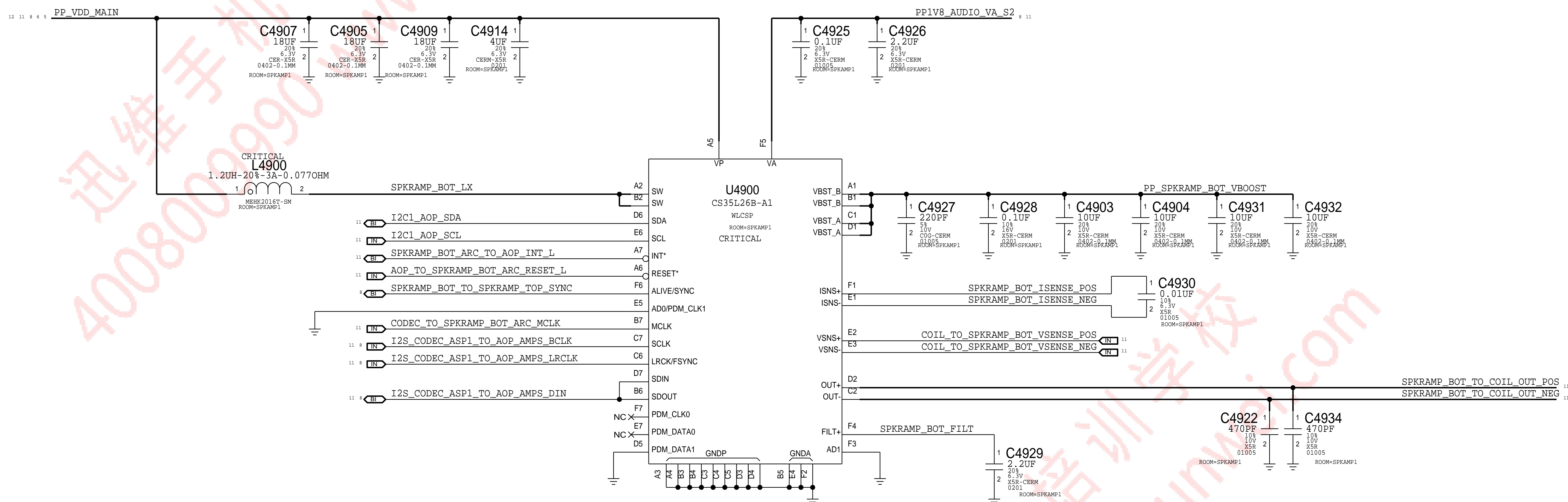


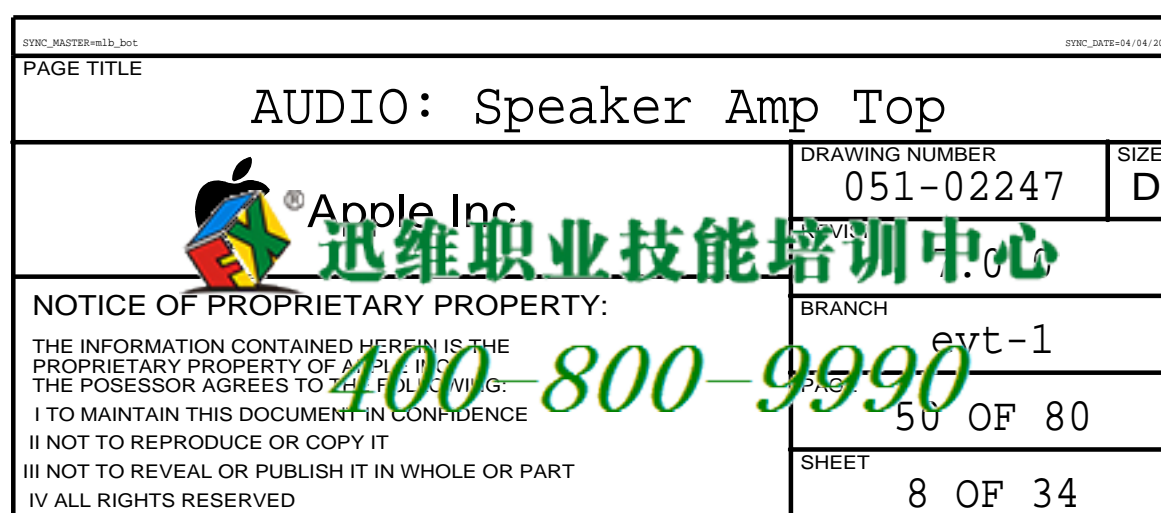
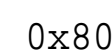
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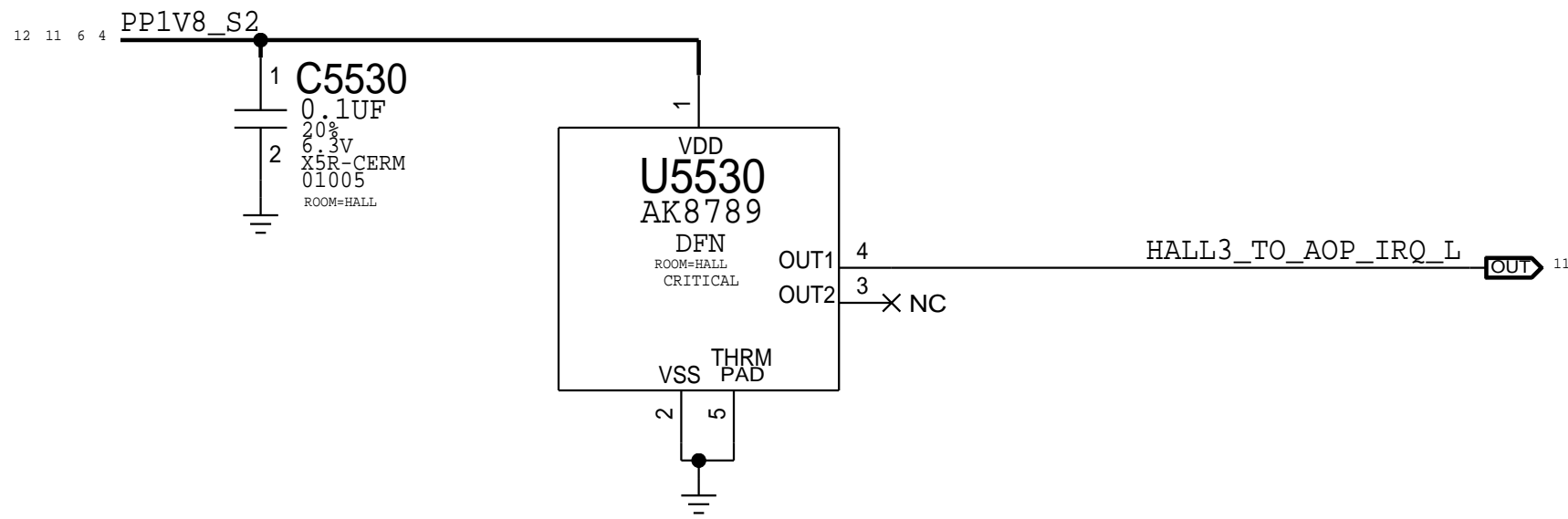
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Hall Effect

APN: 353S3697



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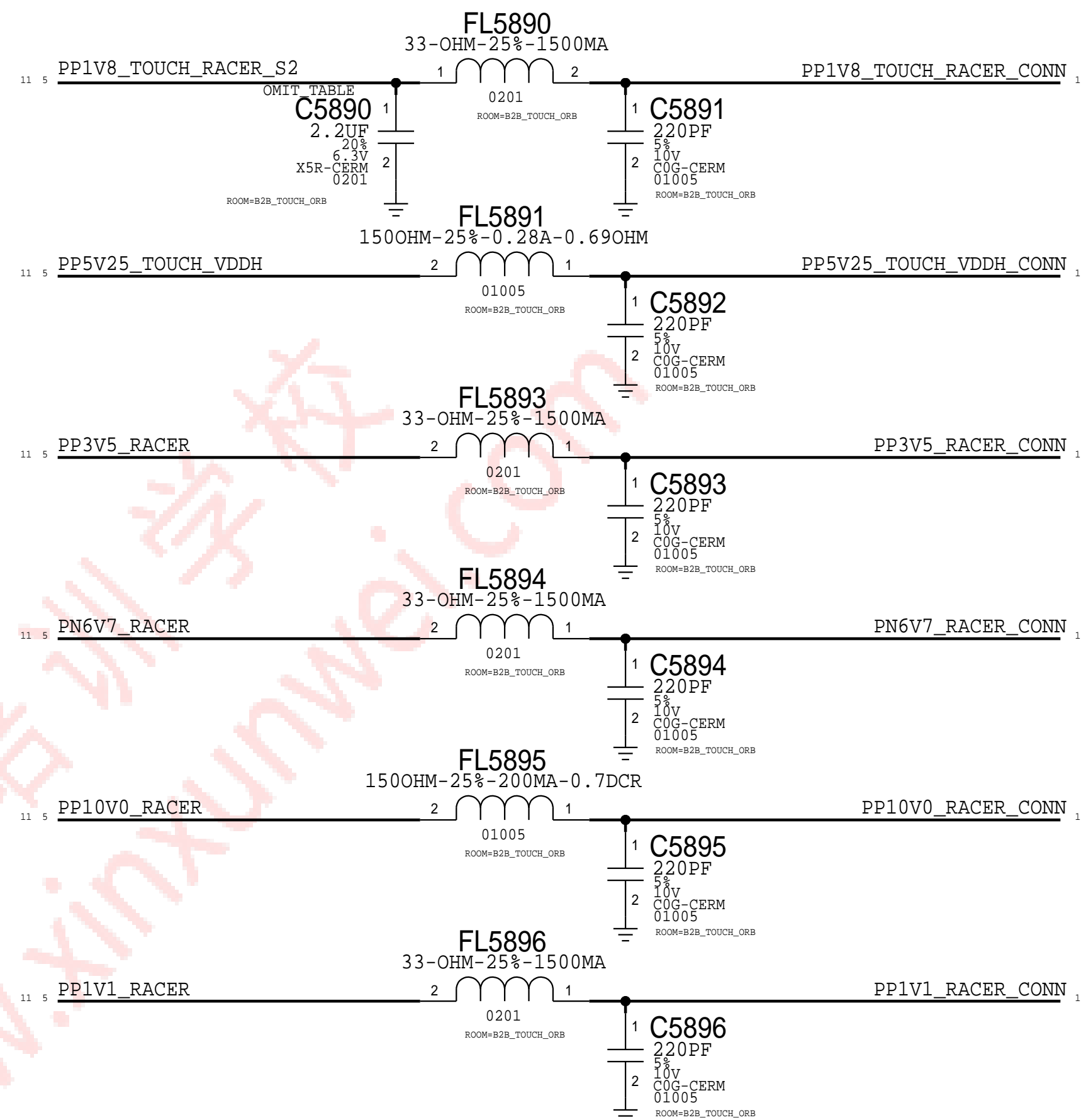
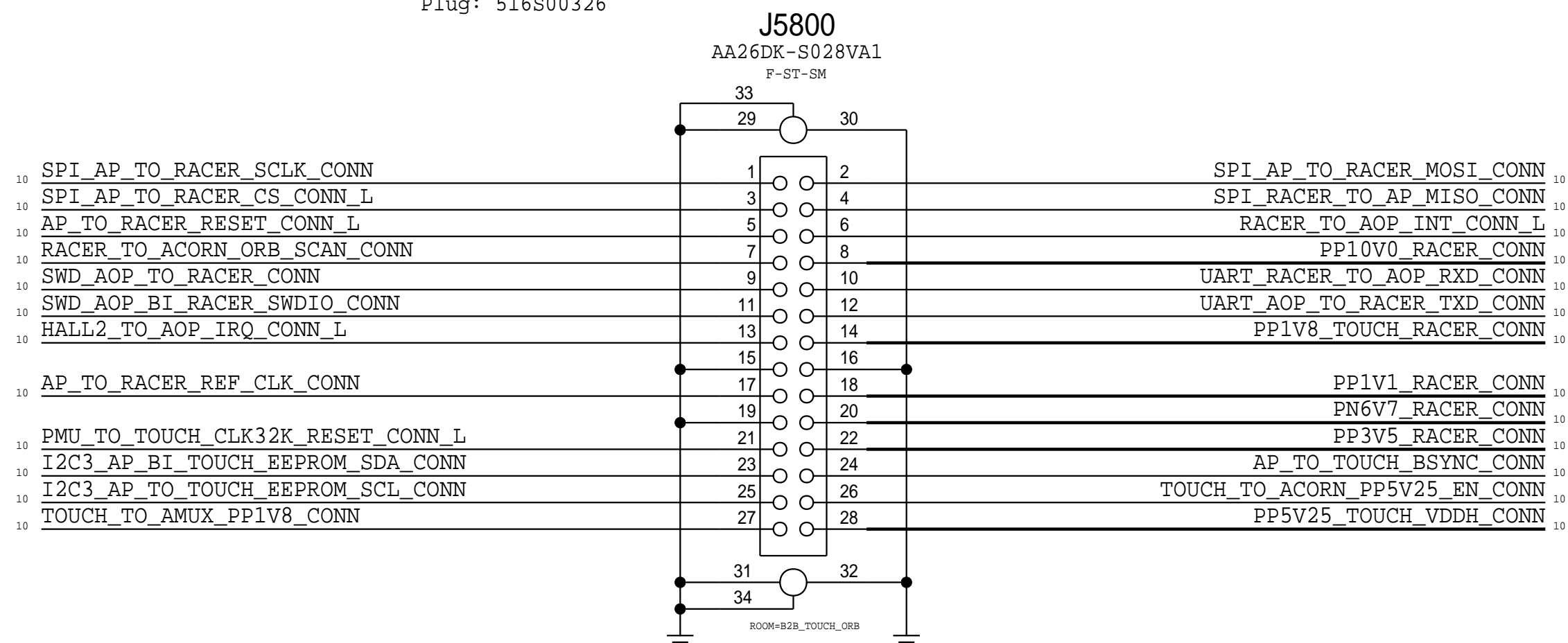
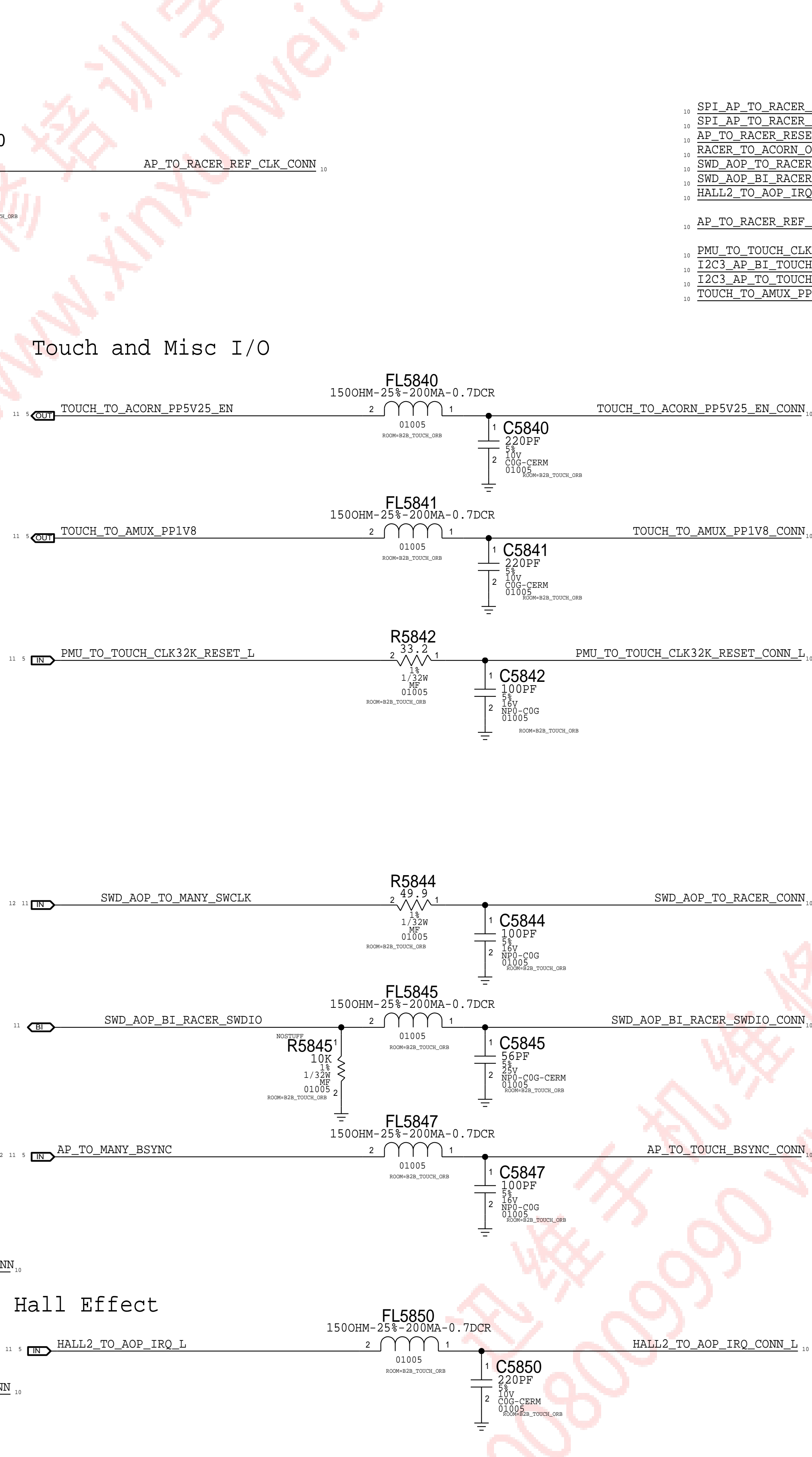
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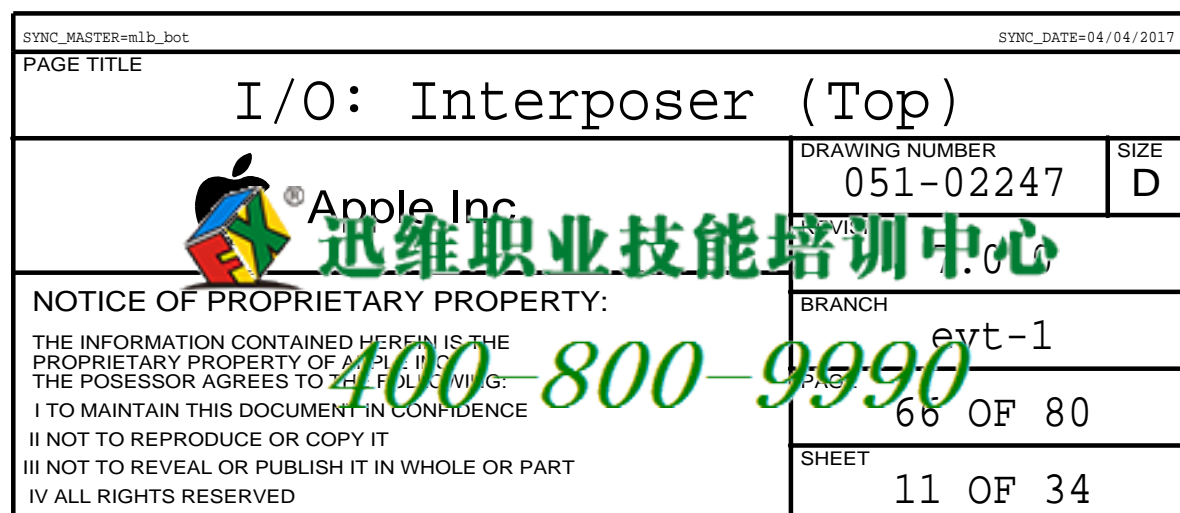
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Hall Effect

Touch And Racer Power



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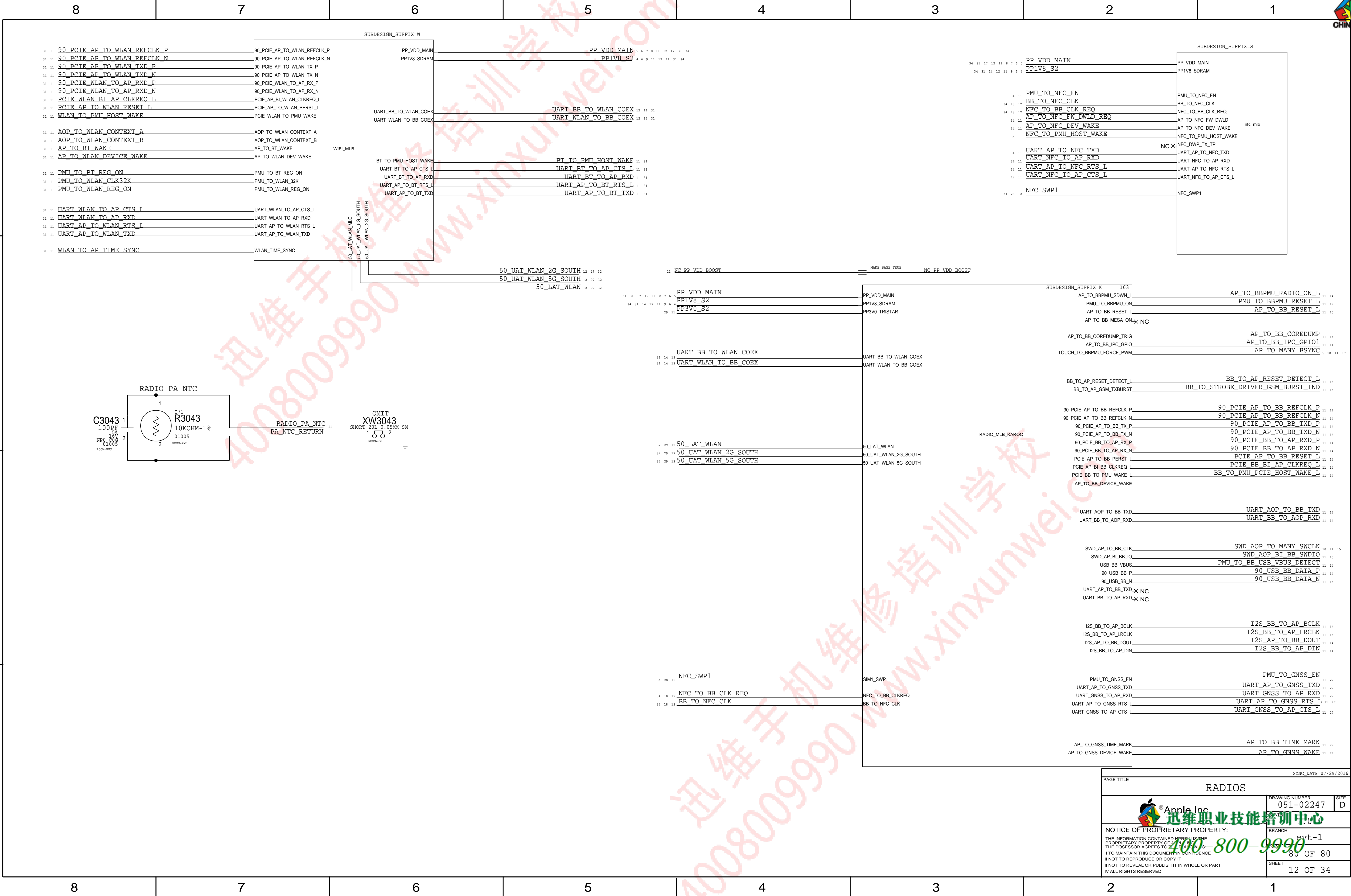
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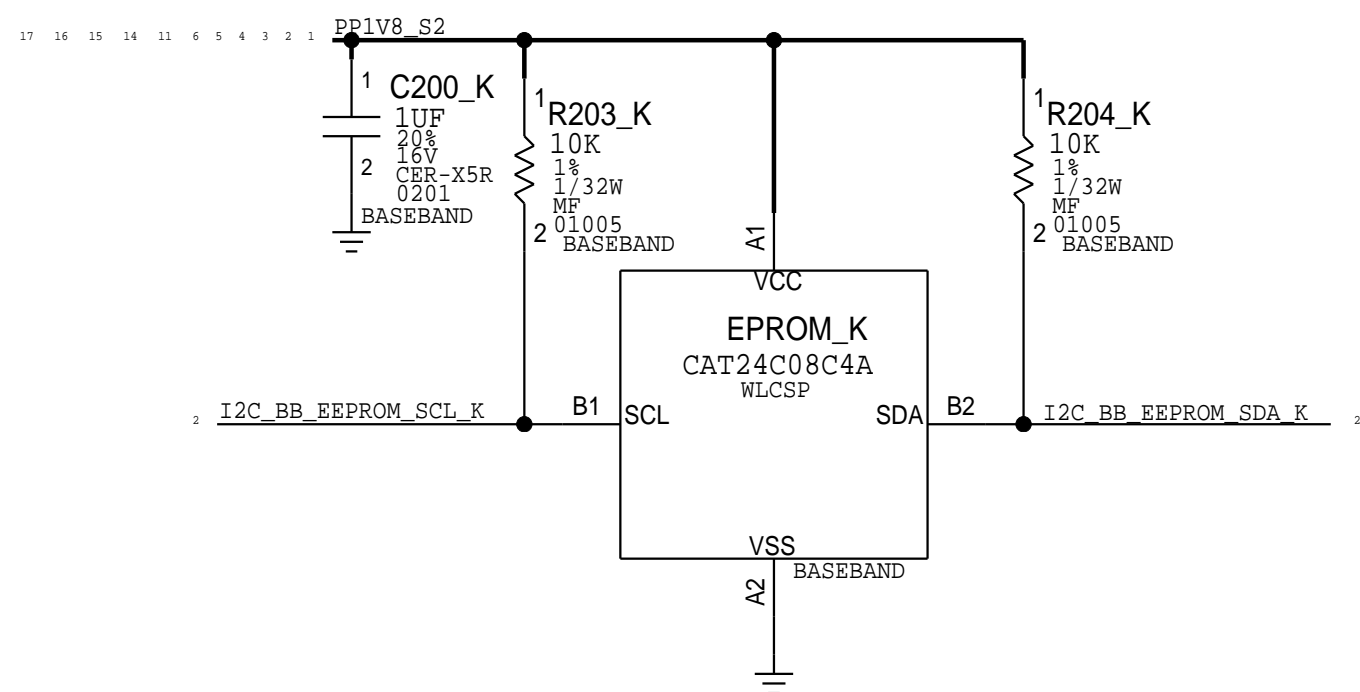
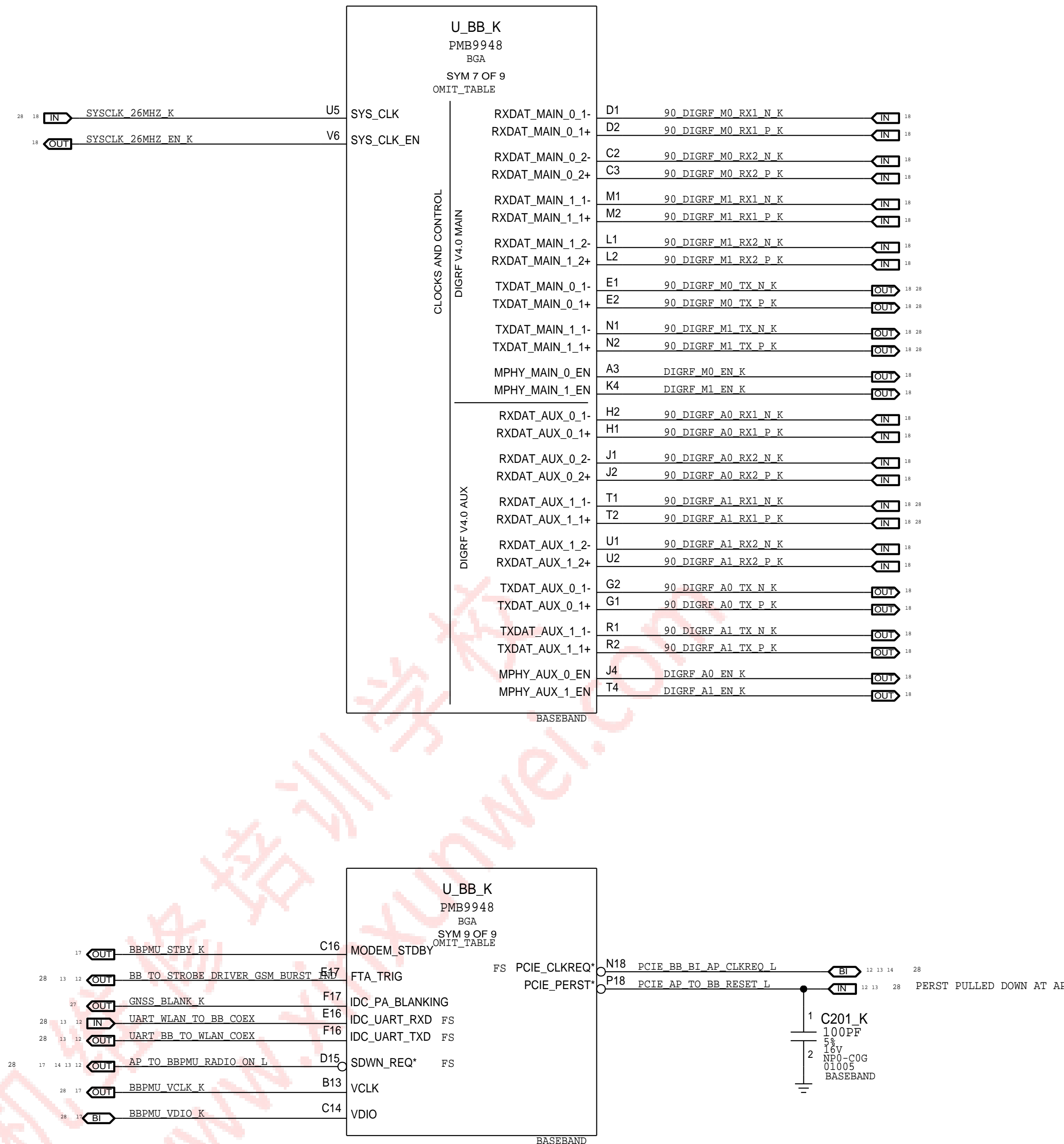
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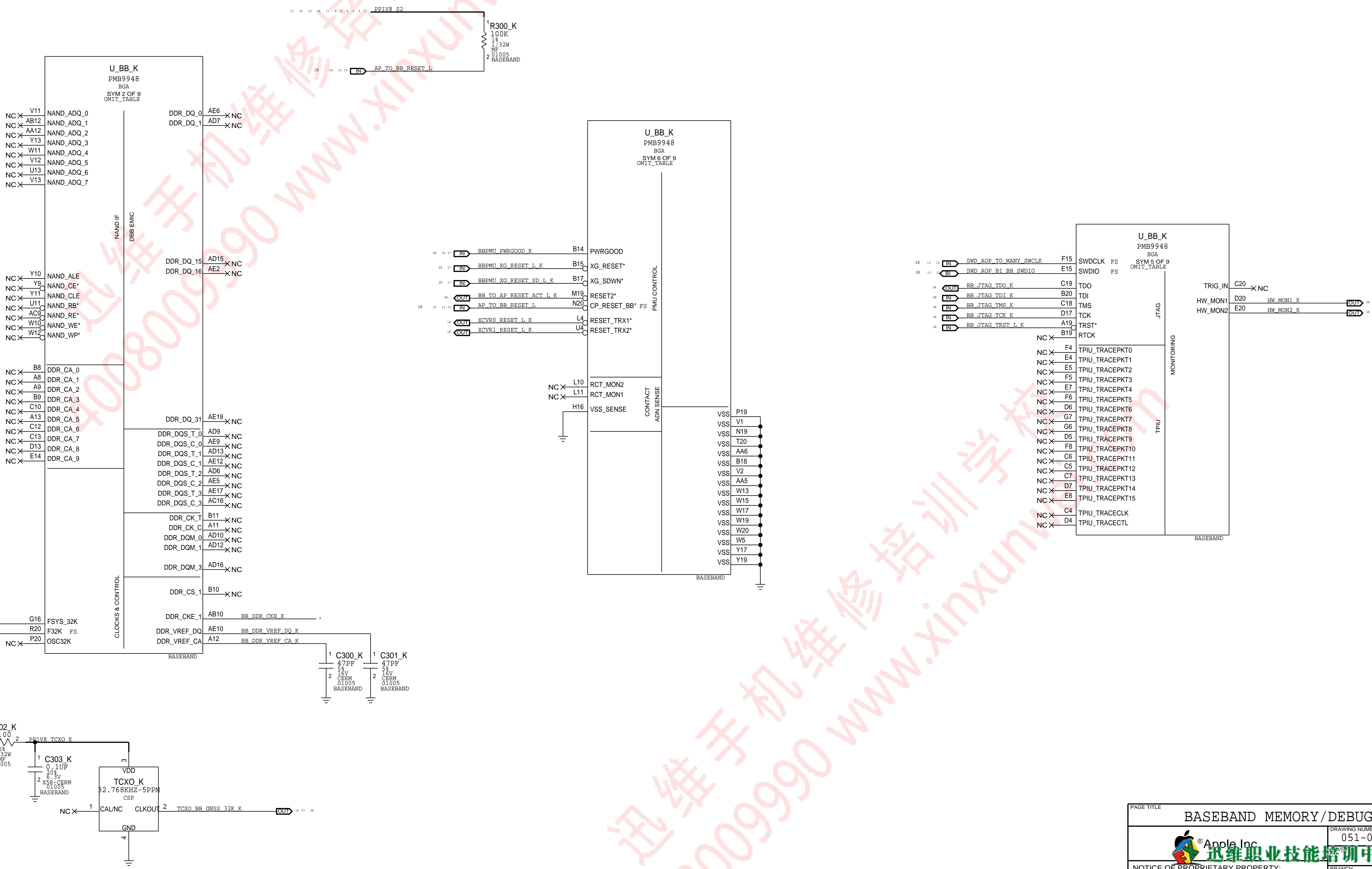


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BB EEPROM

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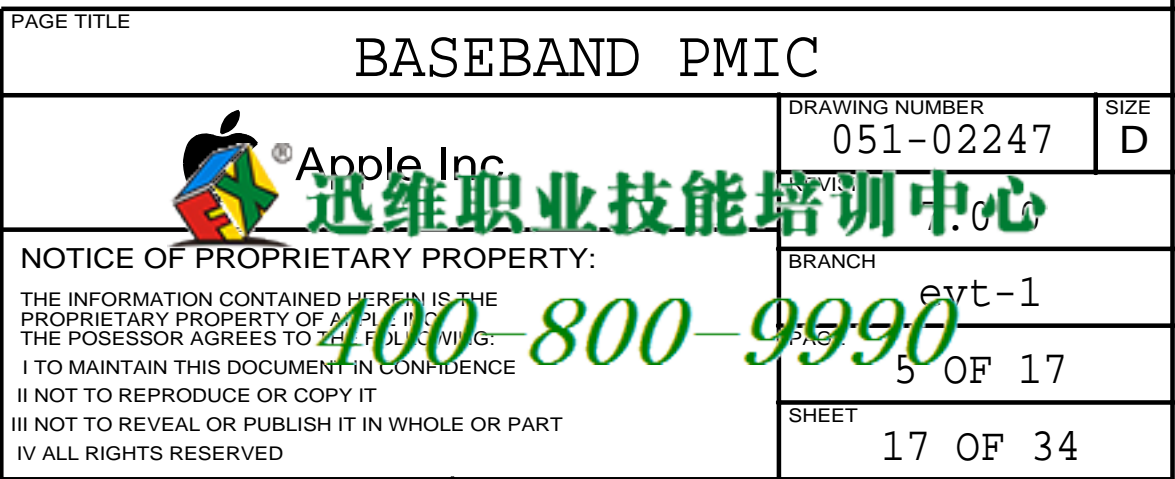
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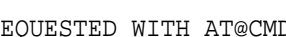
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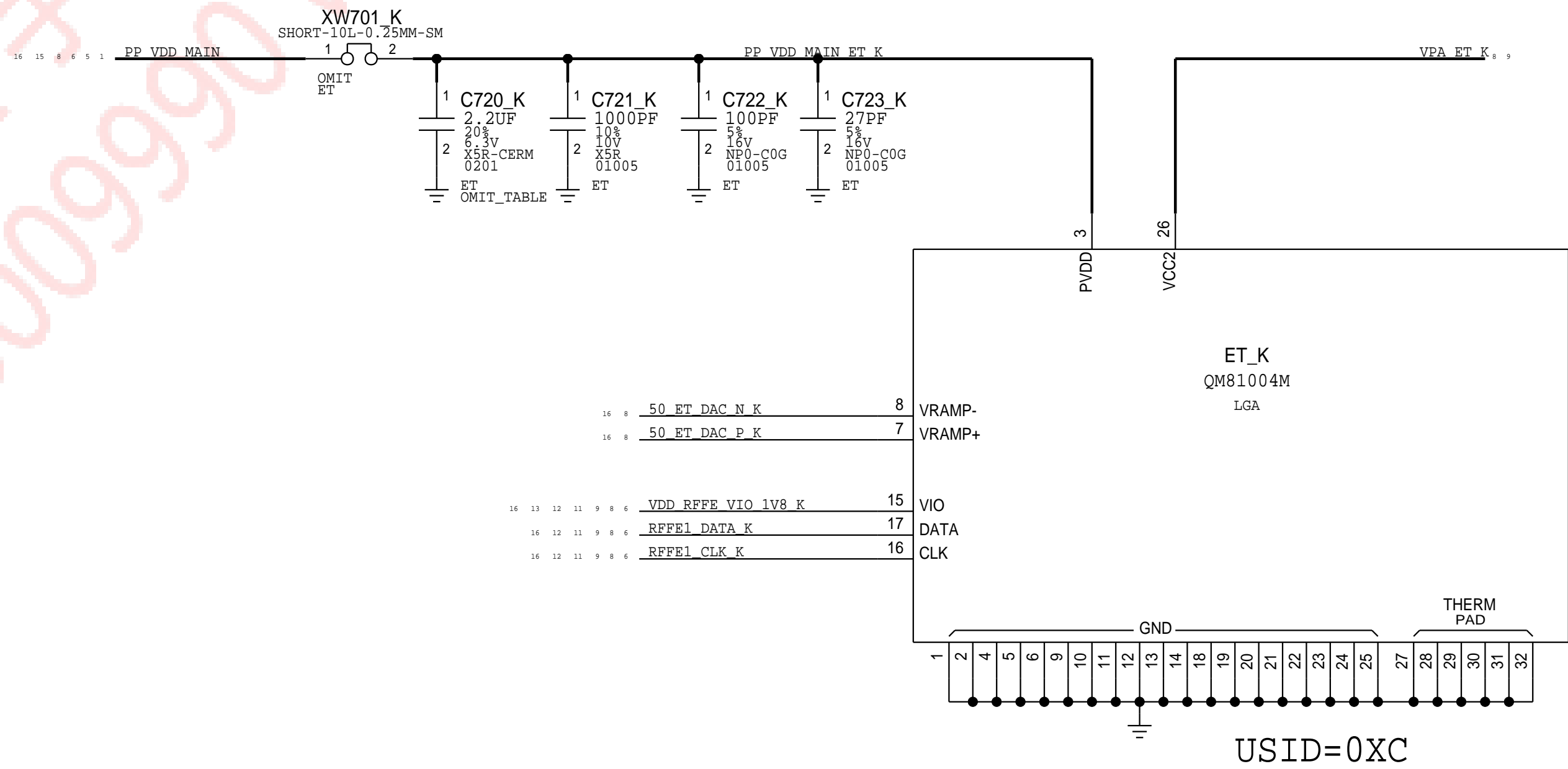


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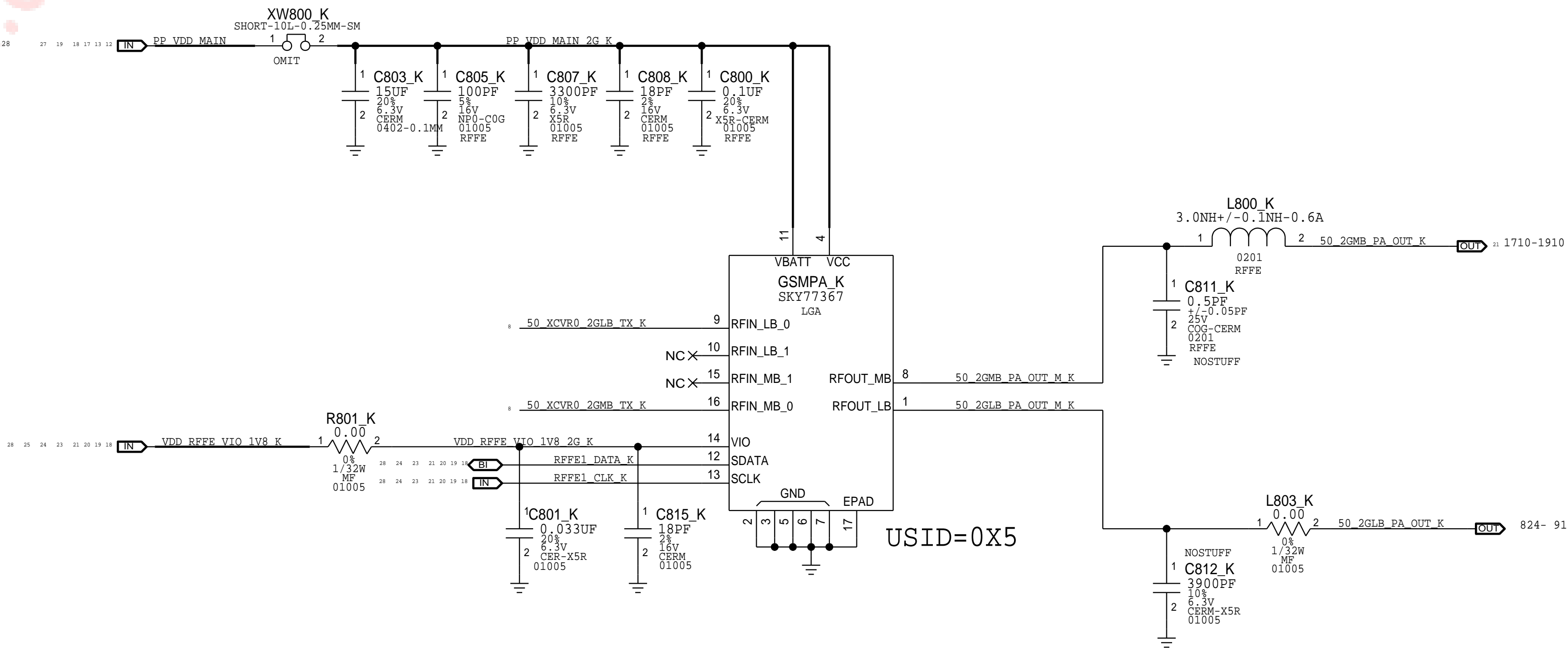
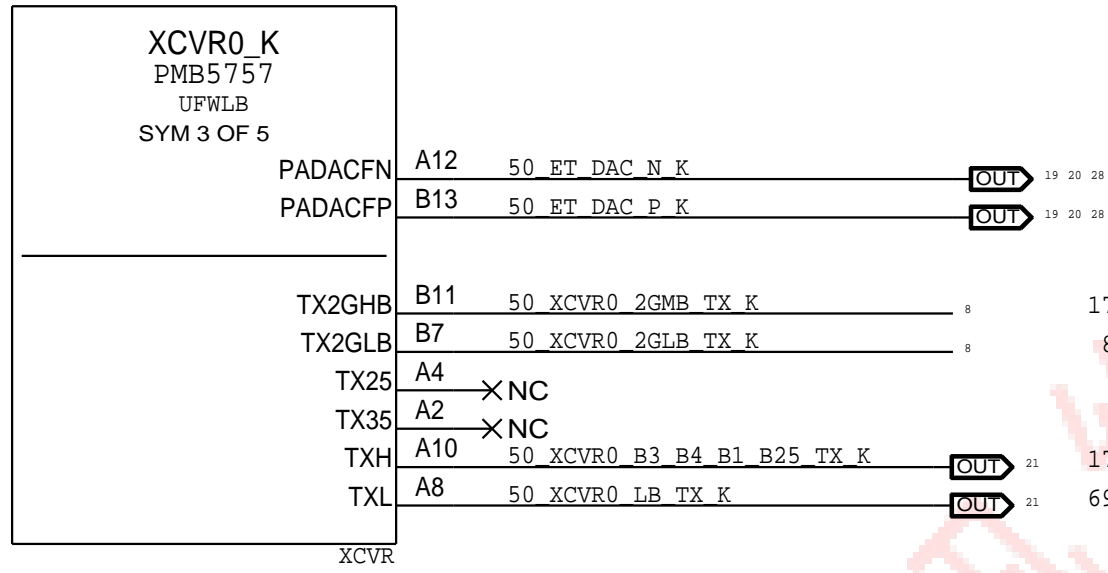
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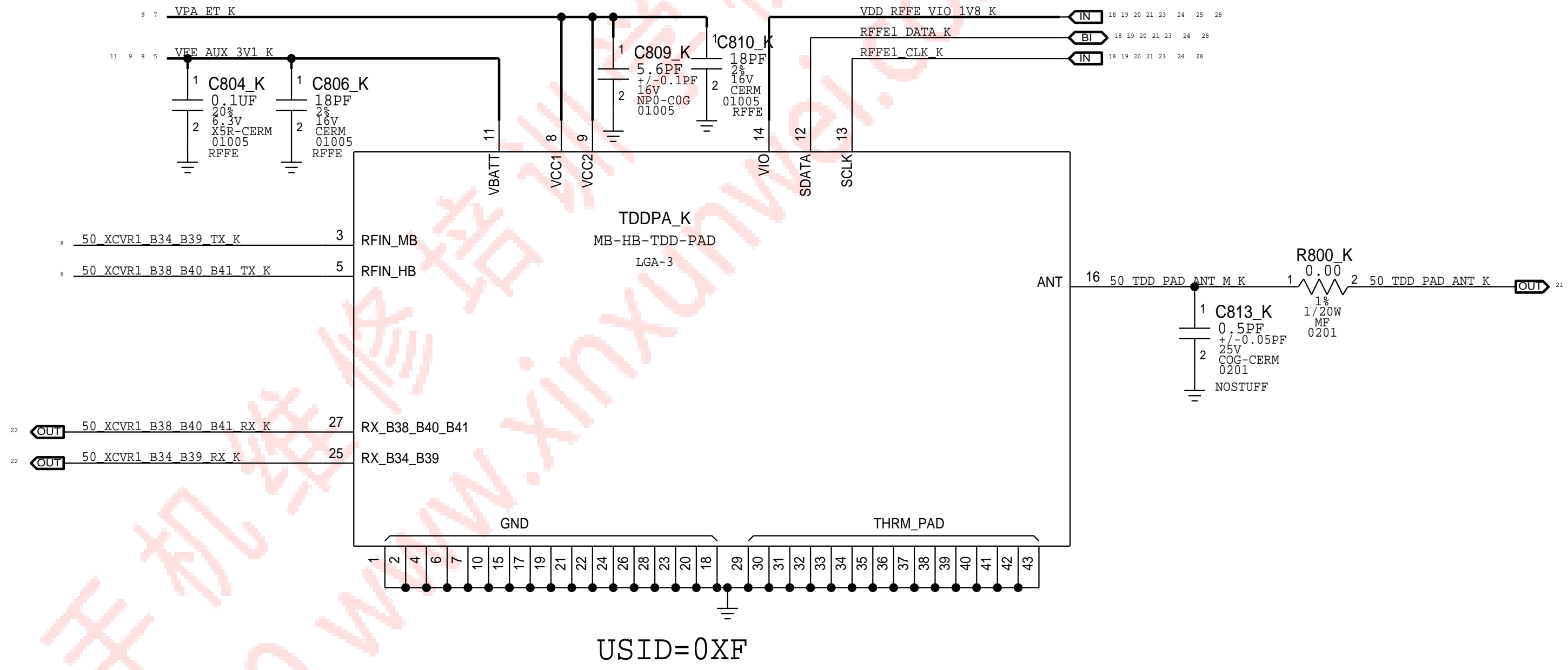
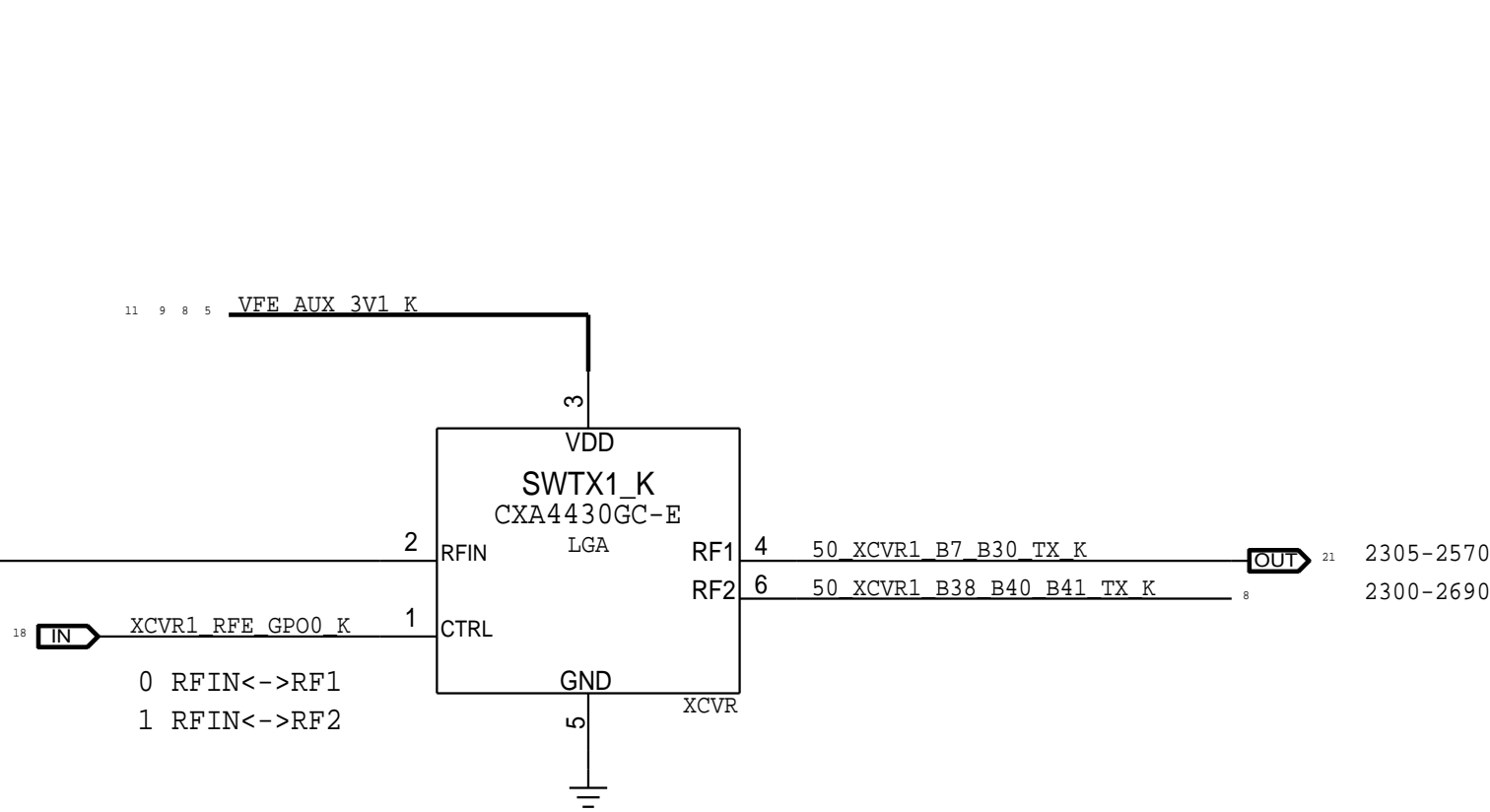
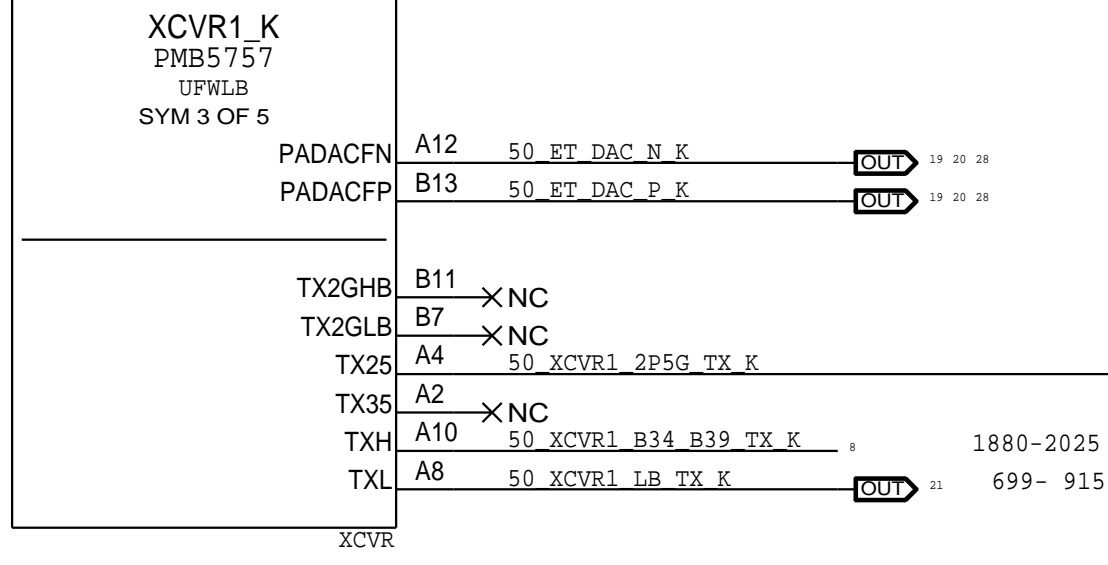
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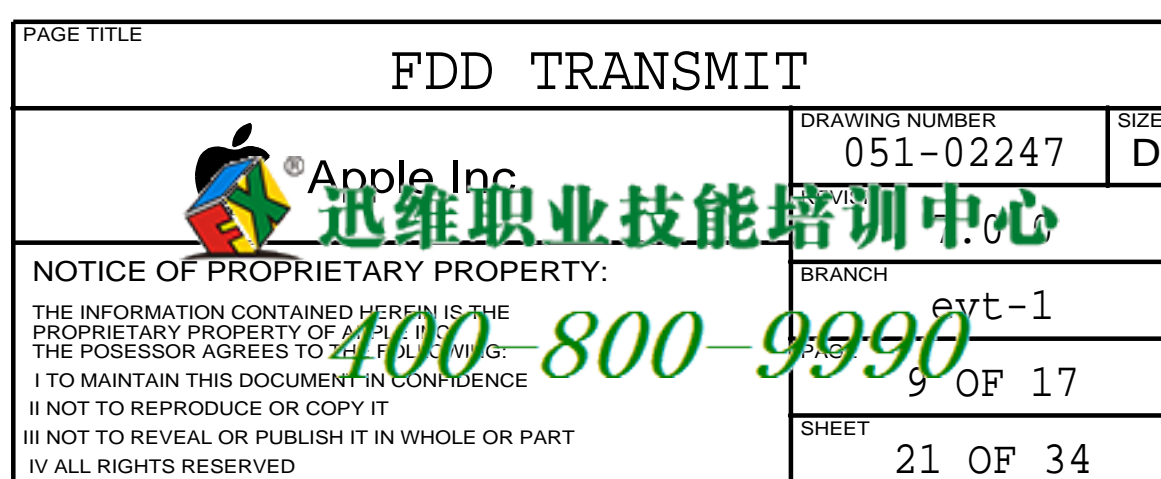


MB HB TDD S-PAD

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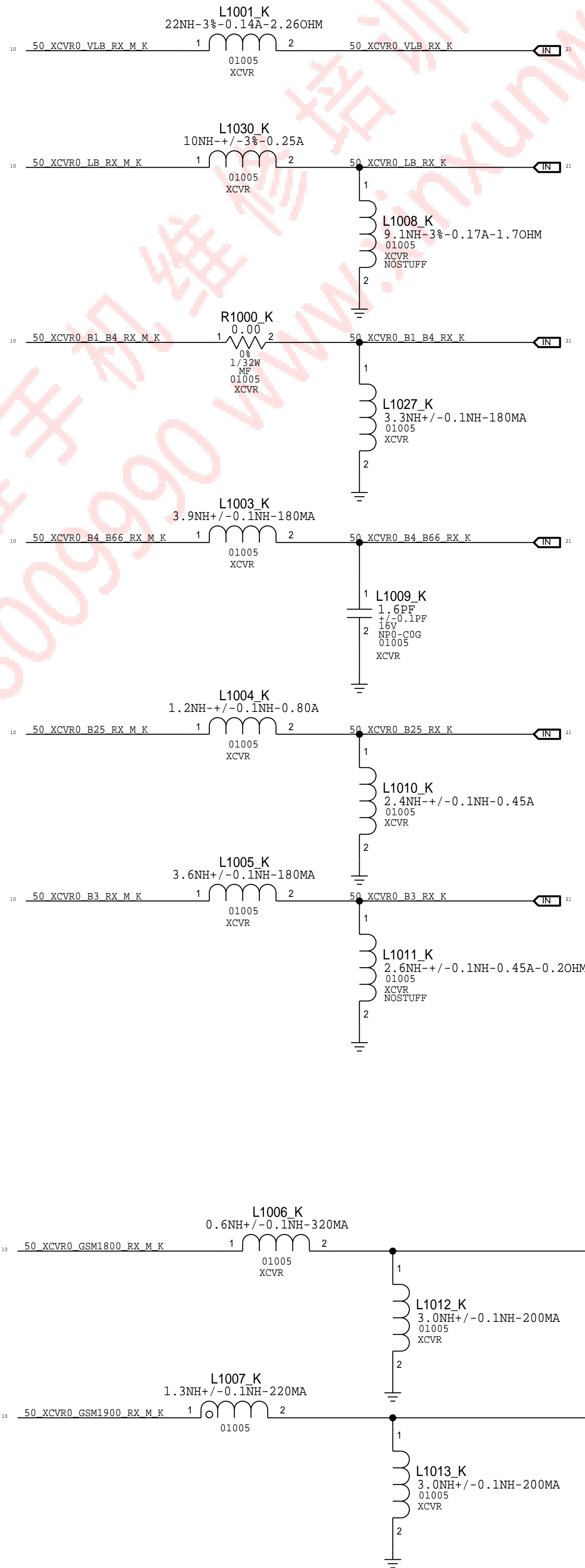
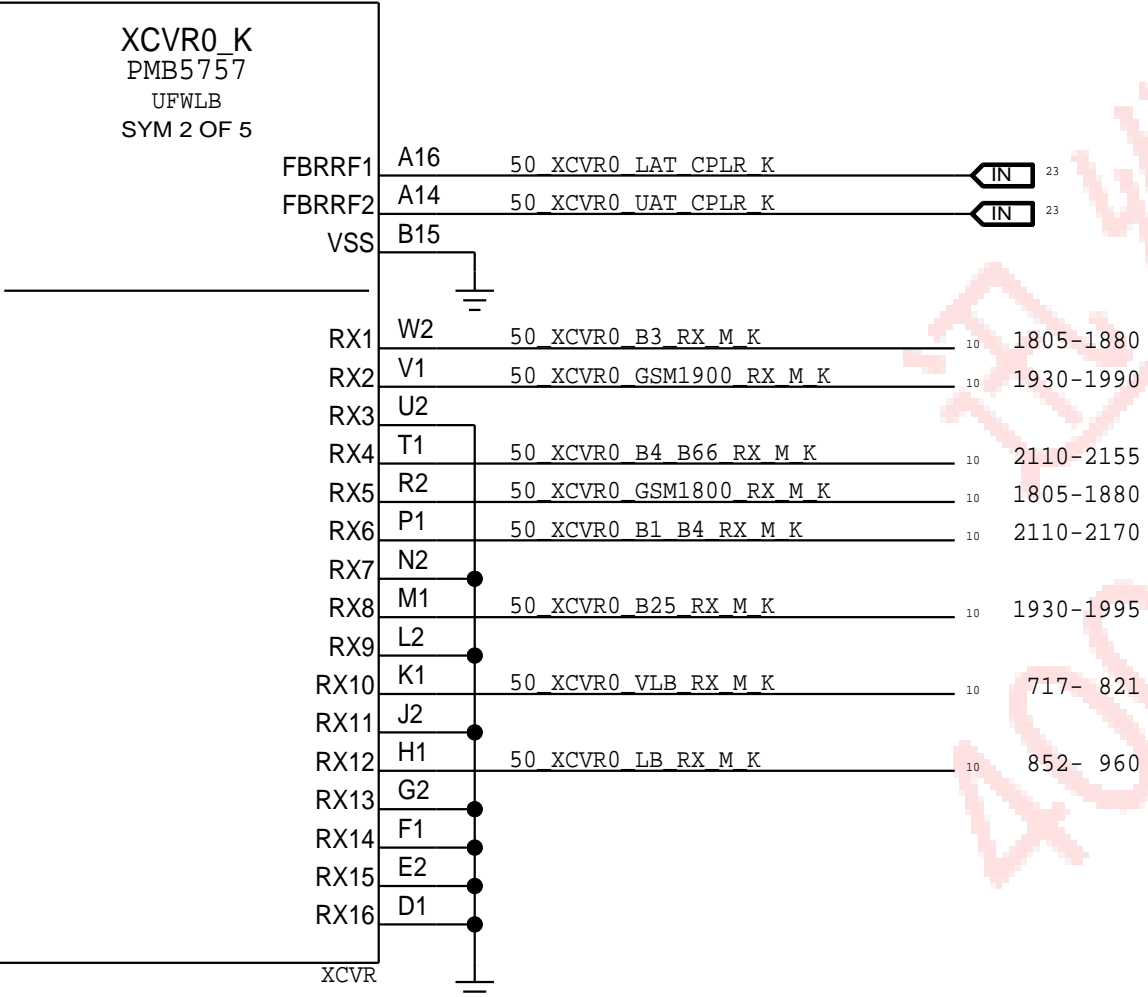


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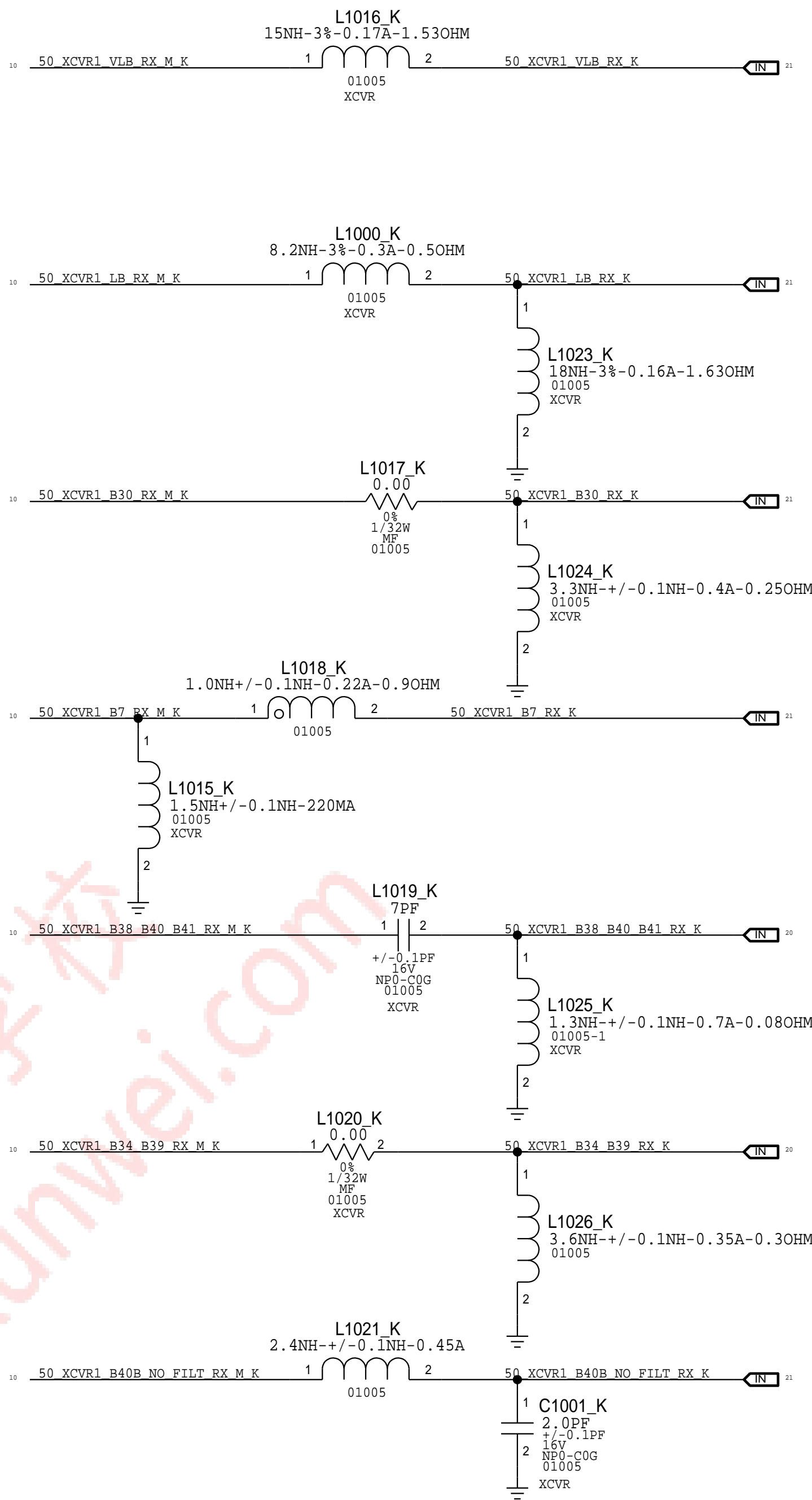
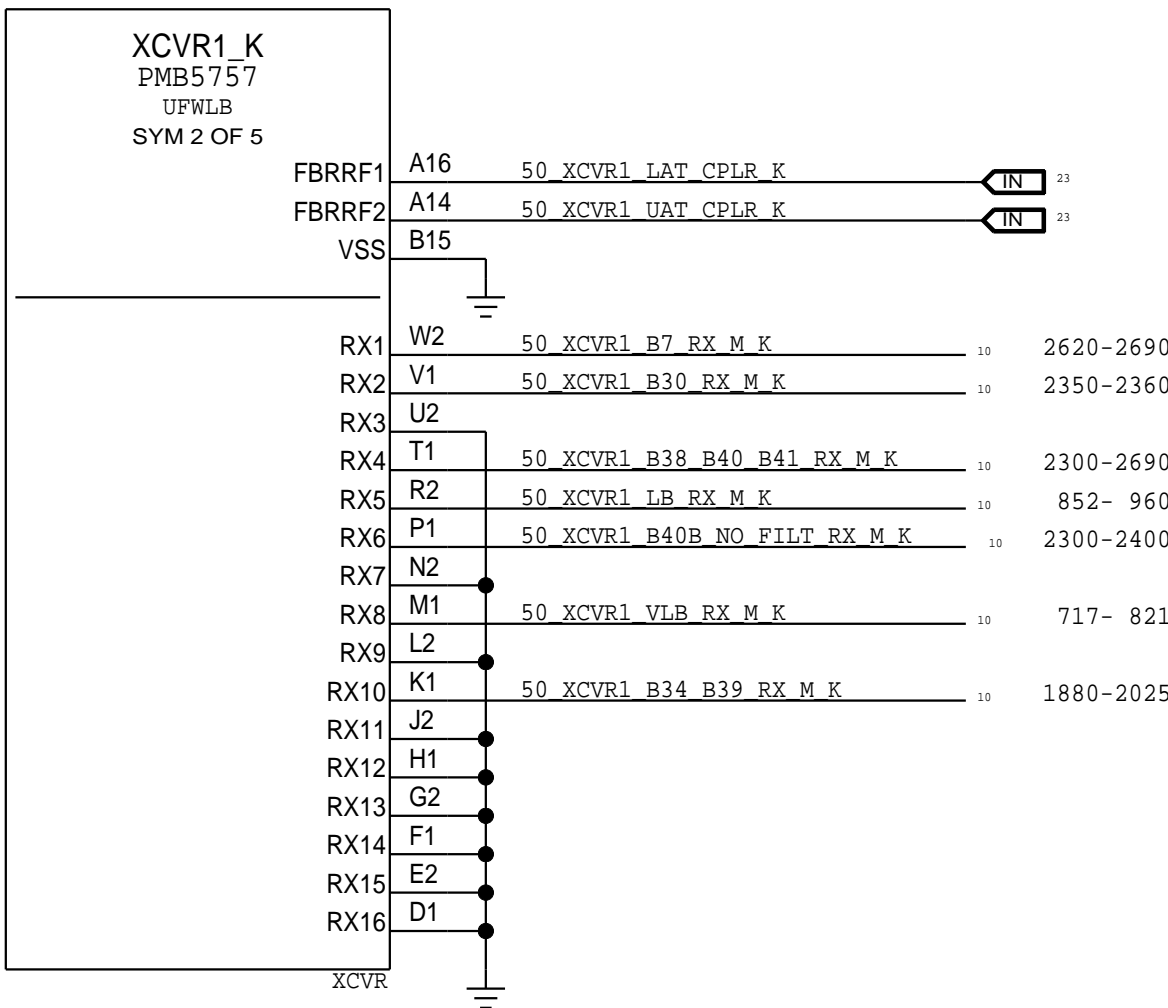


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XCVR1 PRX

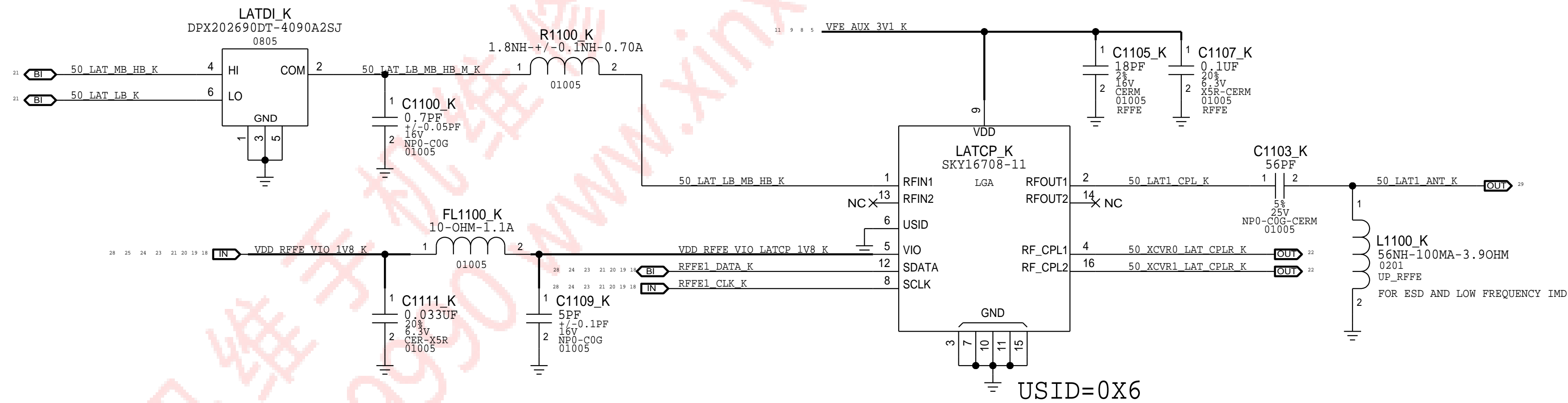


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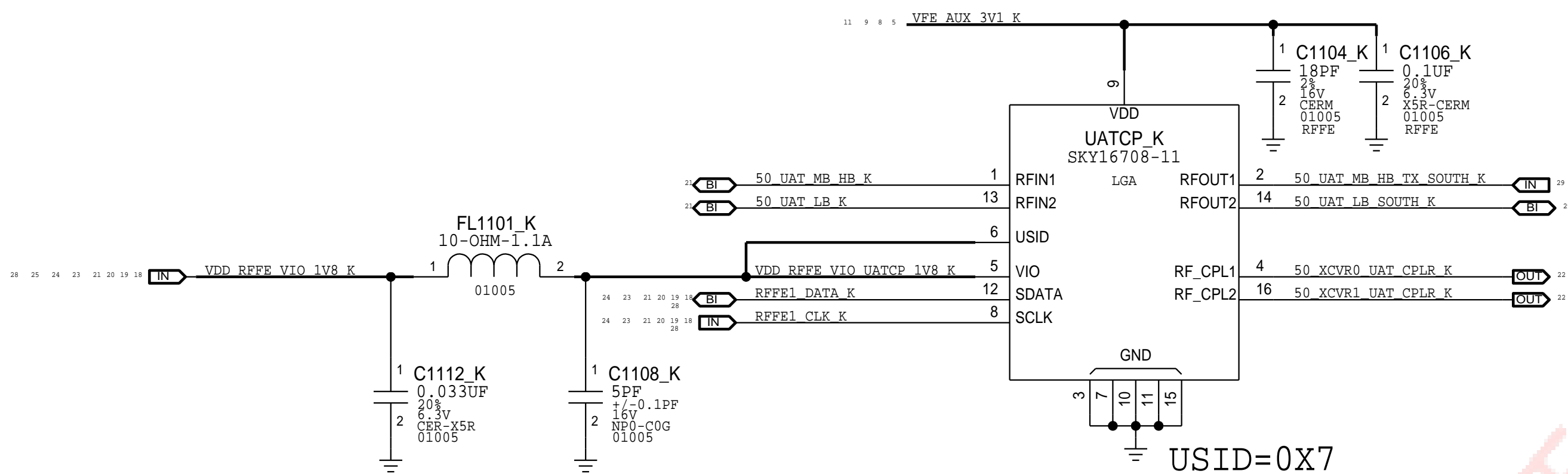
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LOWER ANTENNA AND COUPLER

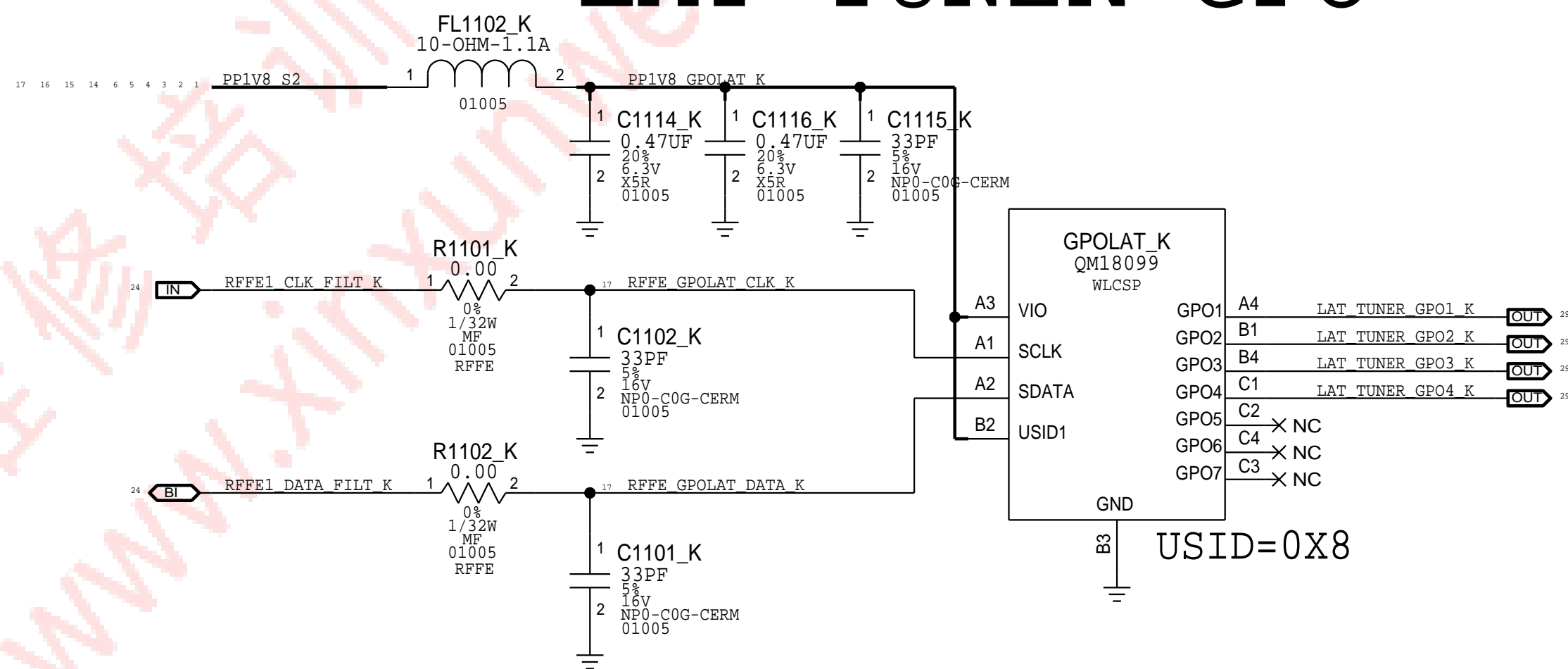
LOWER ANTENNA COUPLER



UPPER ANTENNA COUPLER

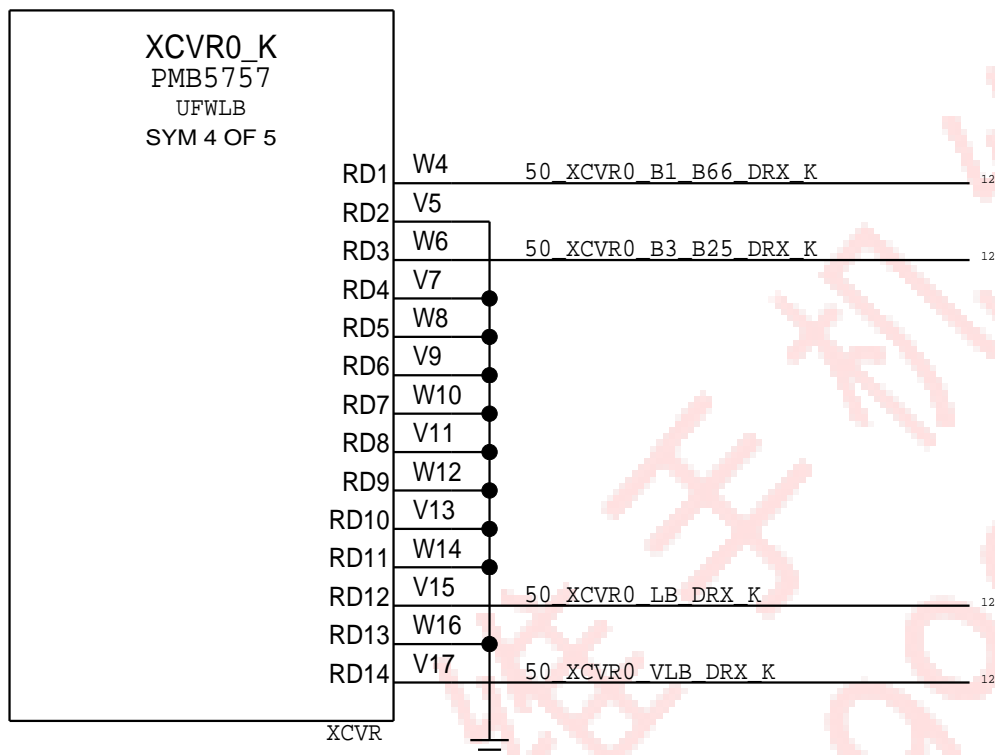


LAT TUNER GPO

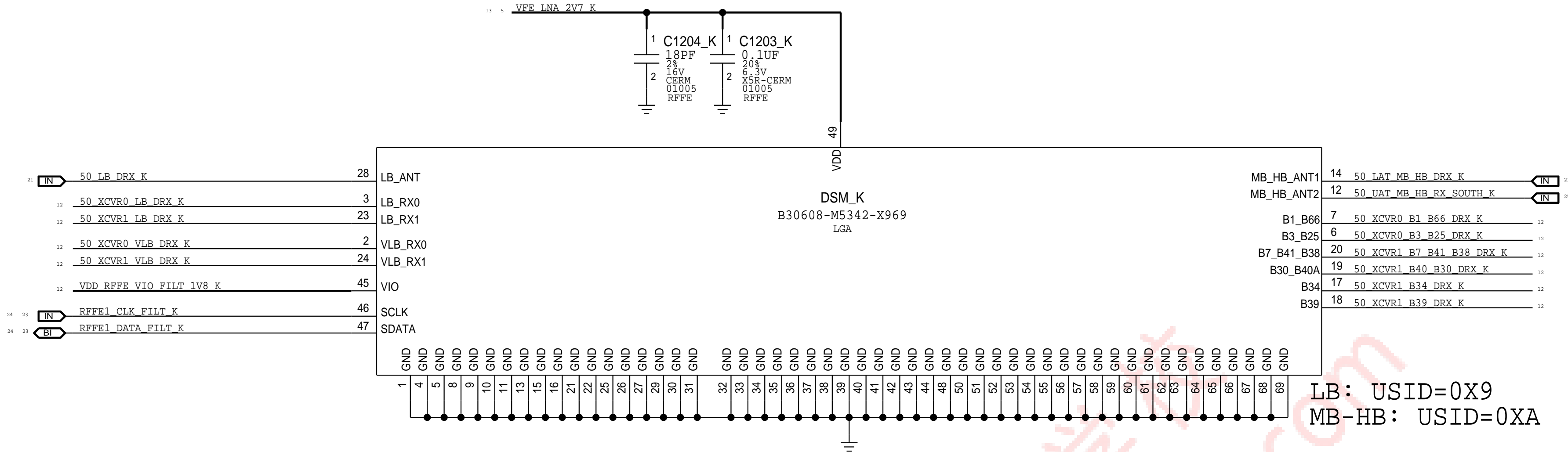


DIVERSITY RECEIVE ASM'S

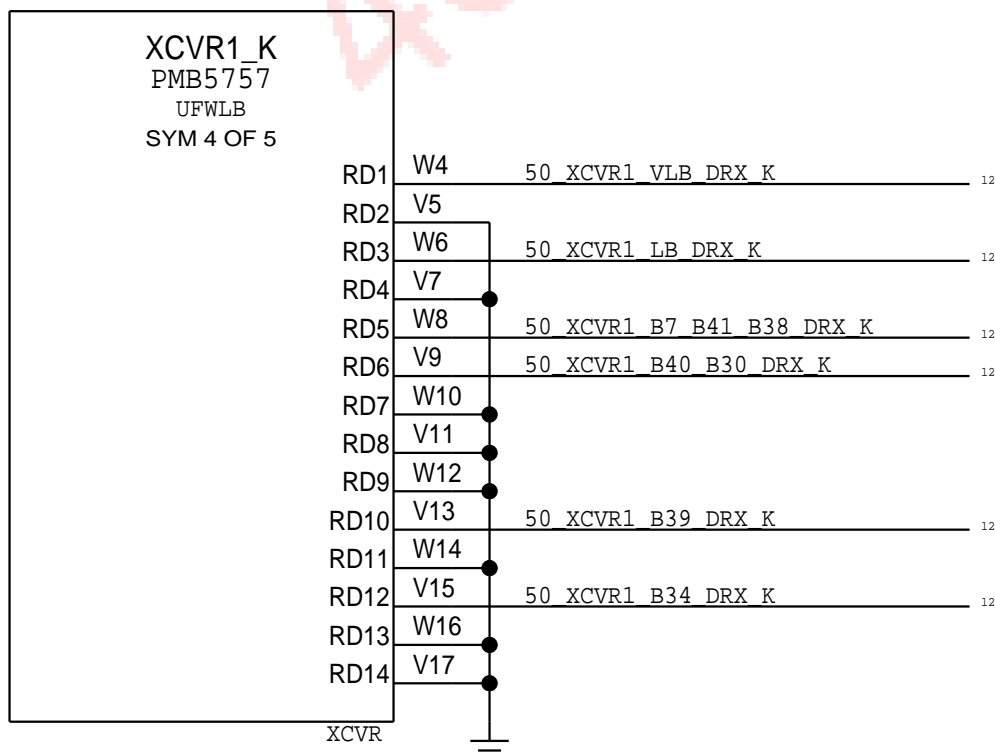
XCVR0 DRX



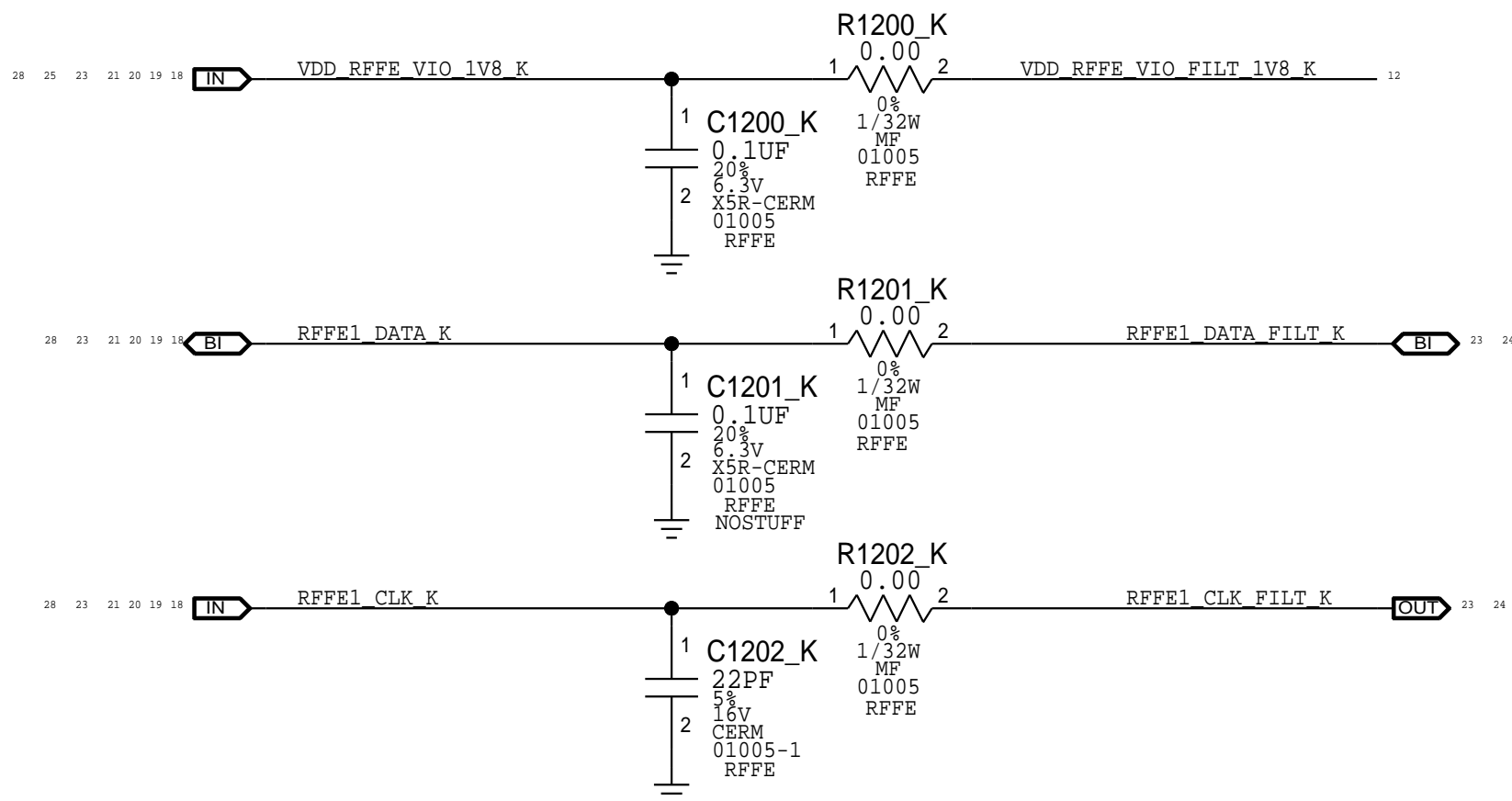
DRX DSM



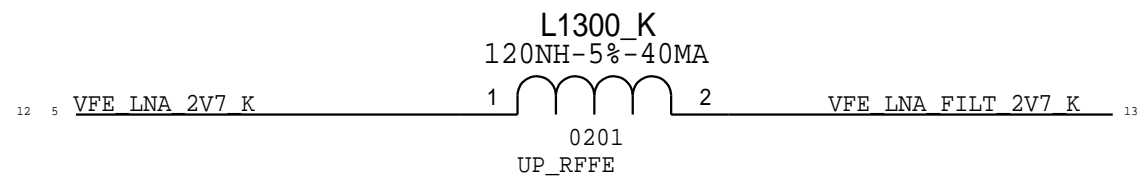
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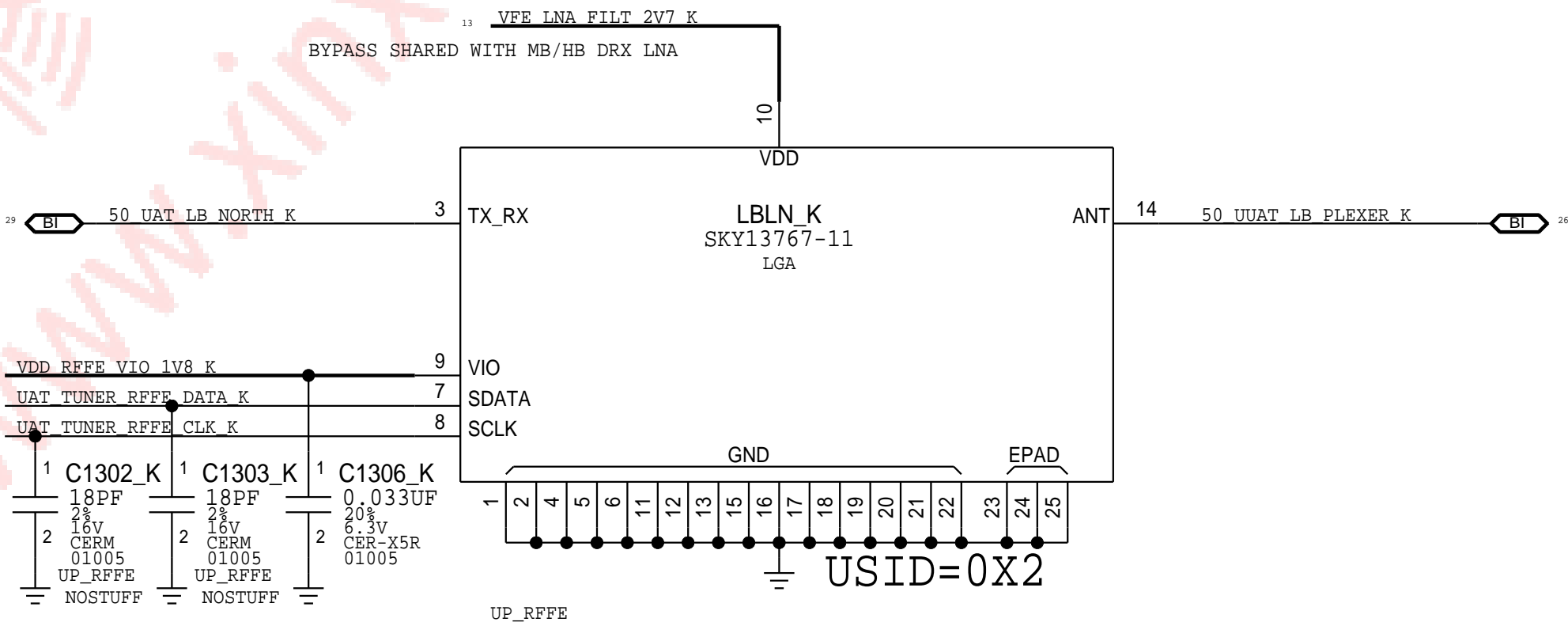
RFFE FILTERING



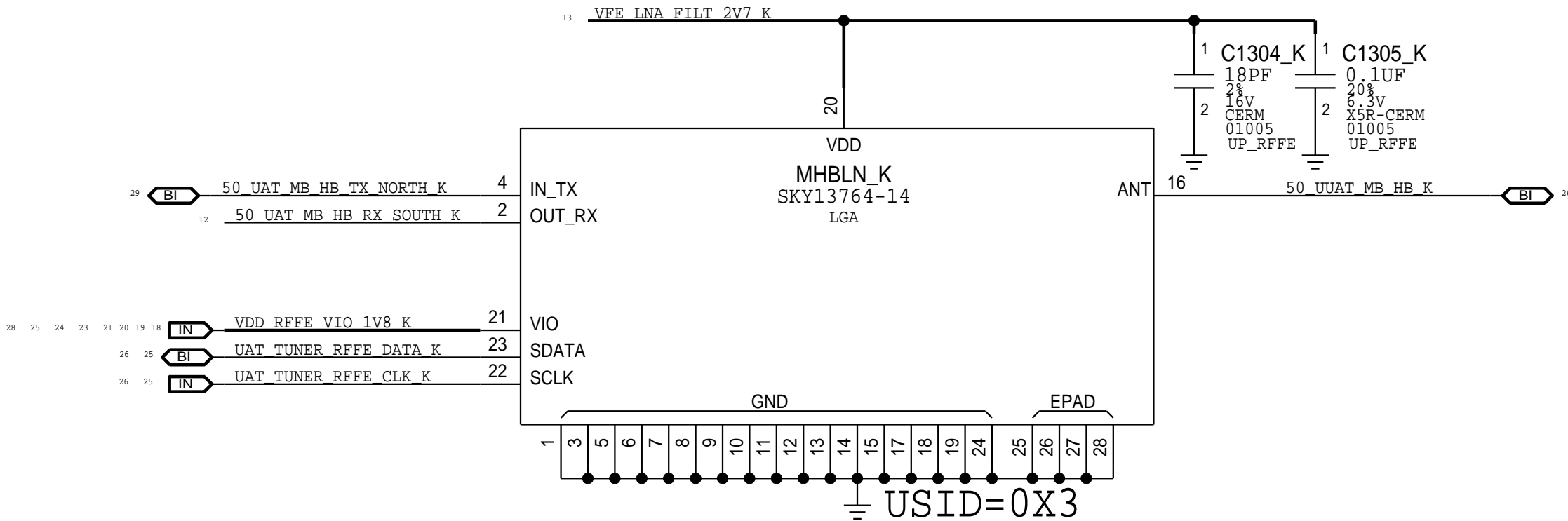
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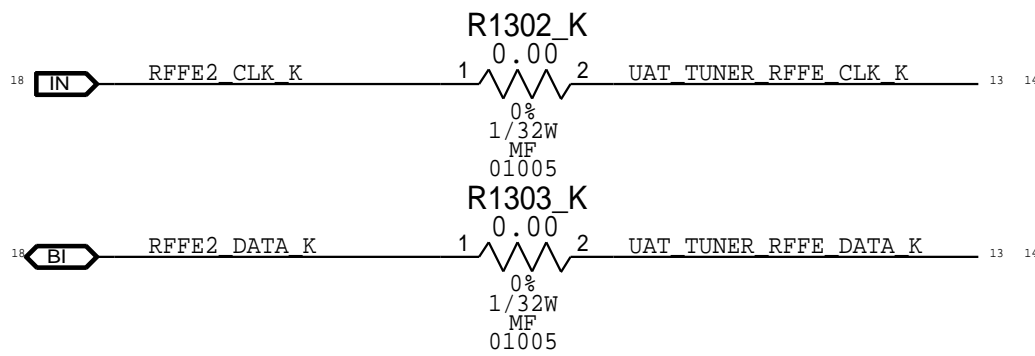
LB DRX LNA



MB/HB DRX LNA

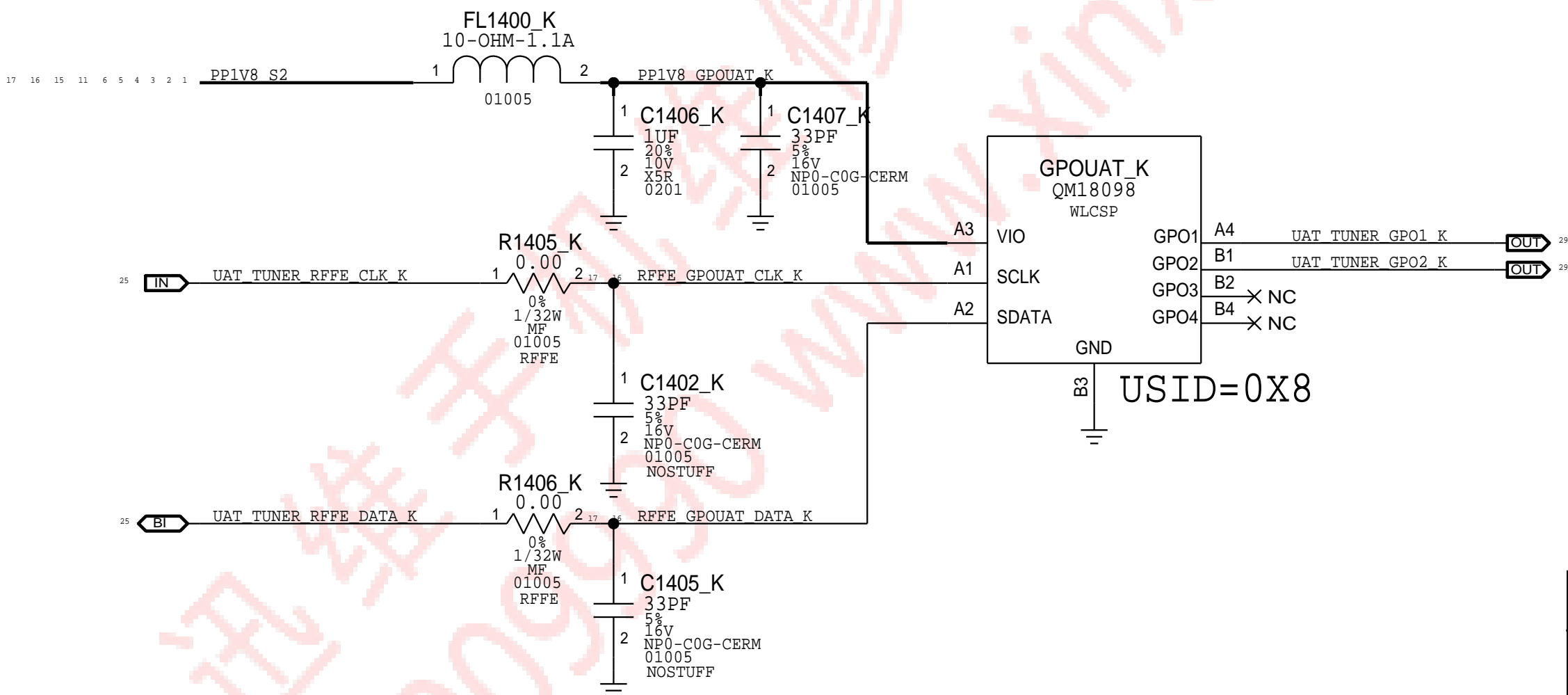



RFFE2 IMPEDANCE MATCHING



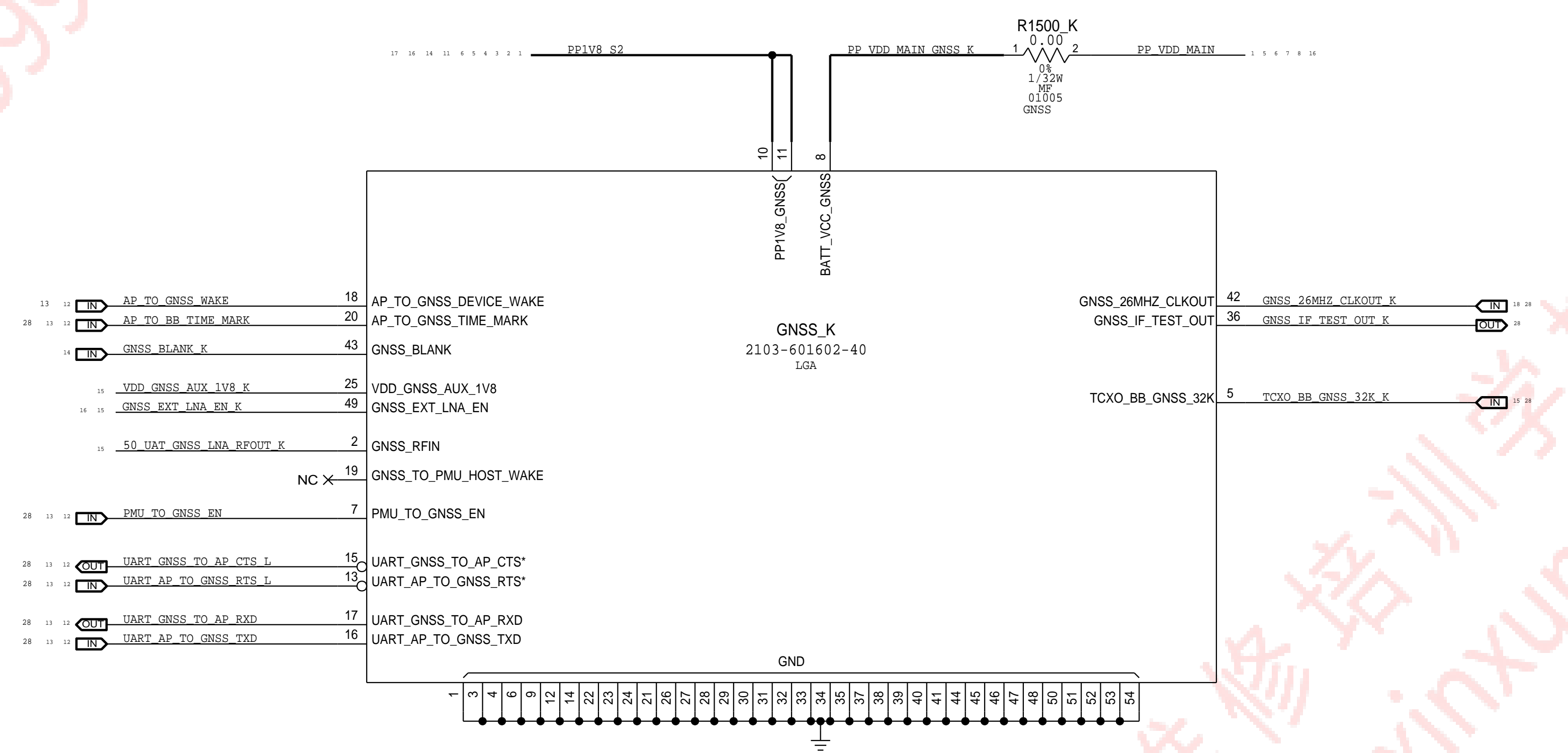
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UAT1



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MLB TEST POINTS

SIM CARD CONNECTOR

BASEBAND

RFFE

HARDWARE ID

DEV CONFIG

BOOTCFG

DEBUG CONNECTOR

DEBUG CONNECTOR

BBPMU

ETIC

PCIE

GNSS

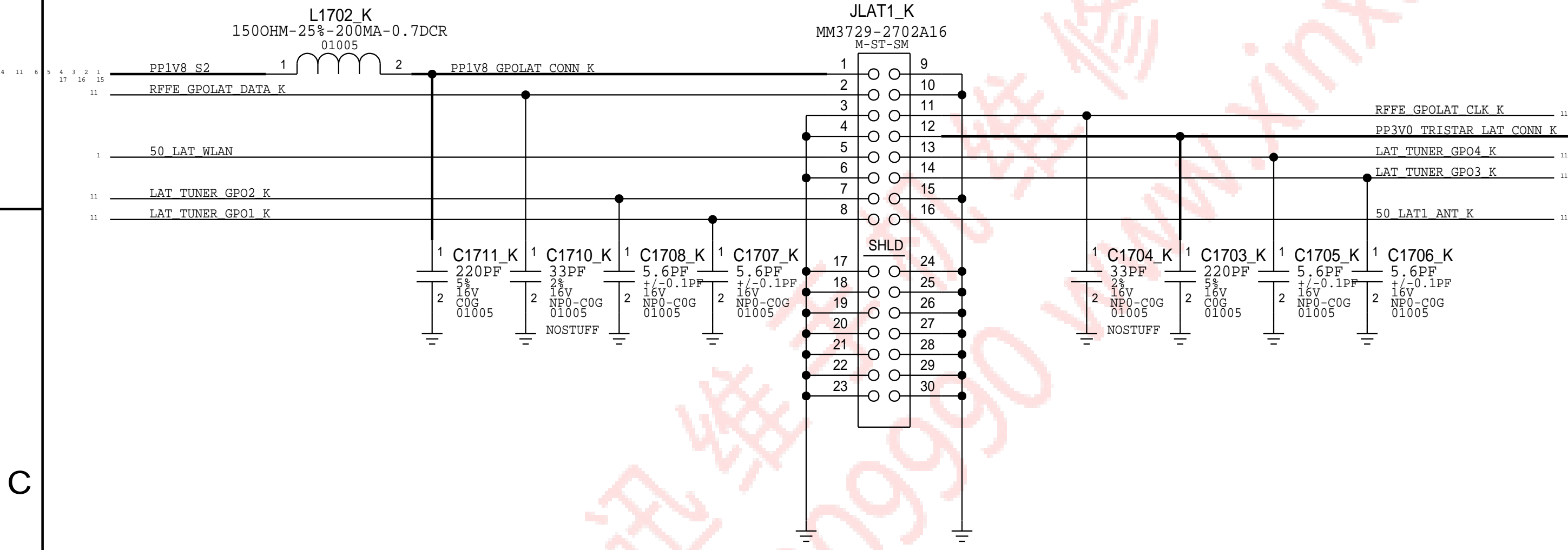
DIGRF

PCIE GND

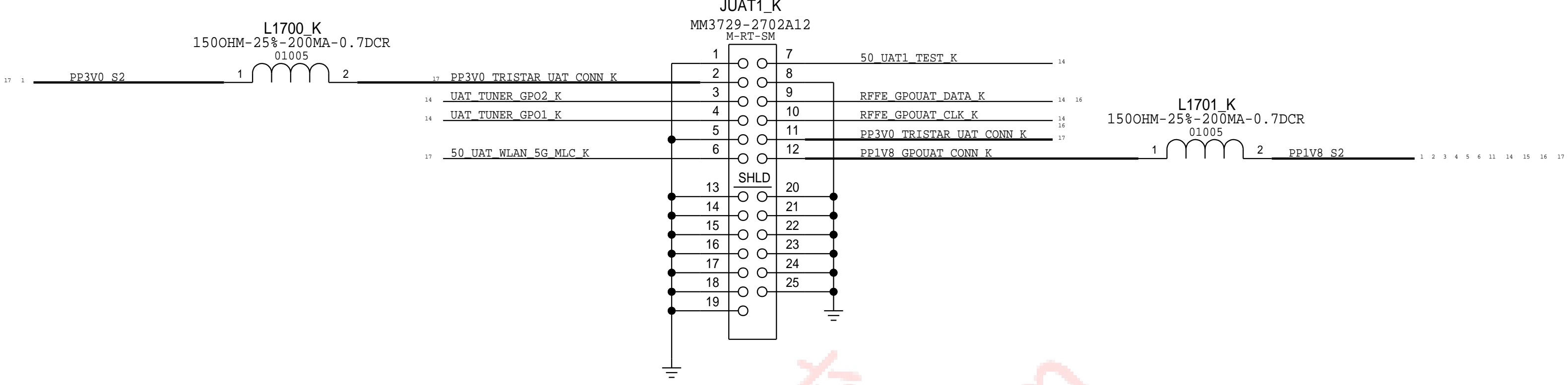
BB UART

RF CONNECTORS AND METROCIRC

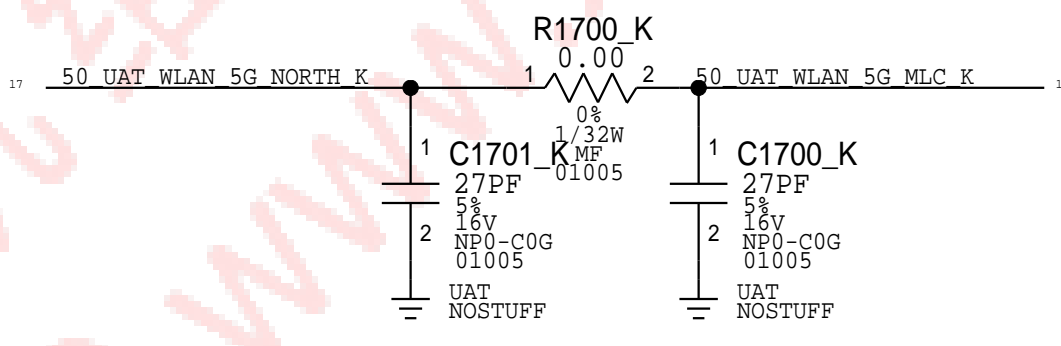
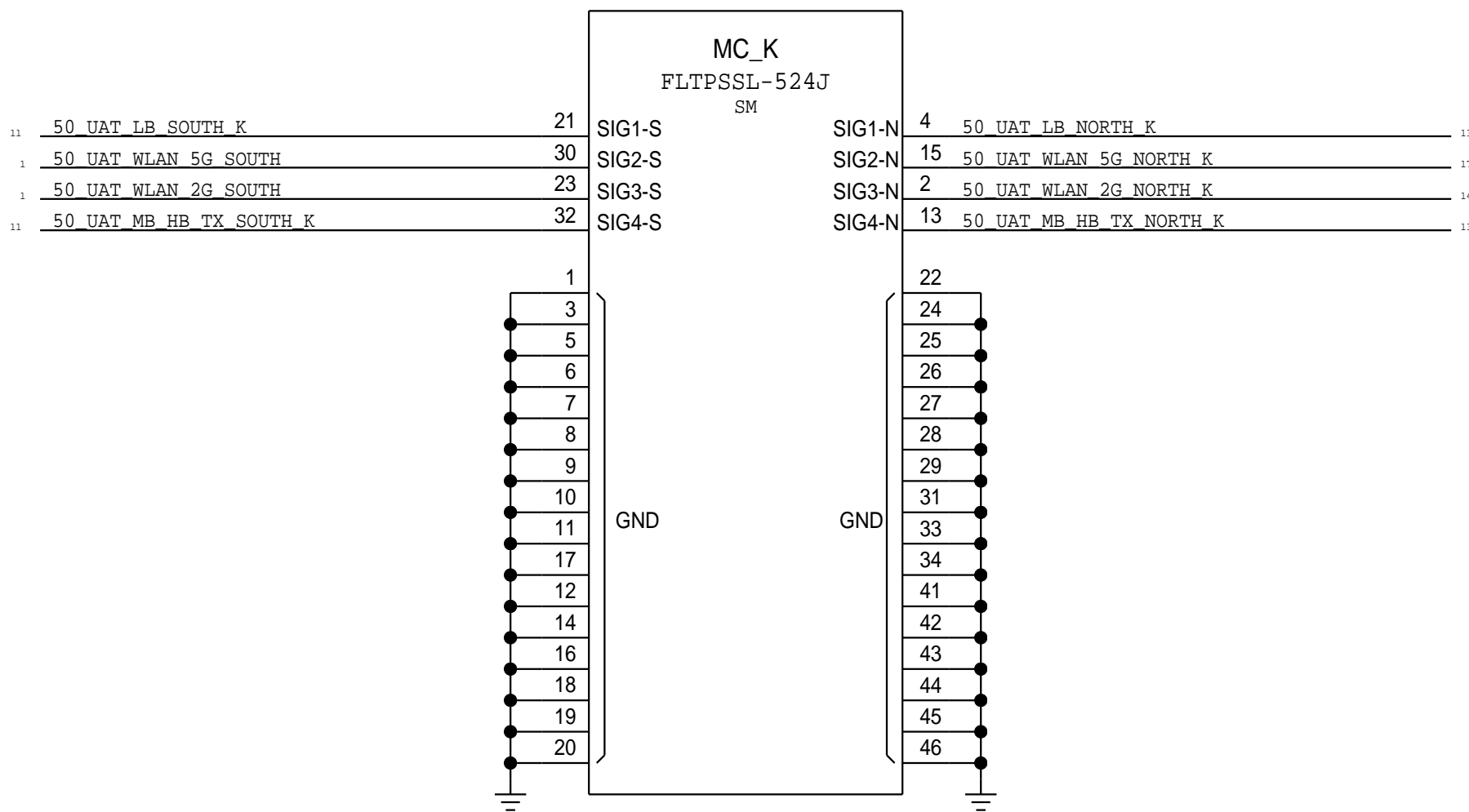
LAT MLC



UAT1 MLC



4-IN-1 METROCIRC CABLE



WIFI/BT

D

C

B

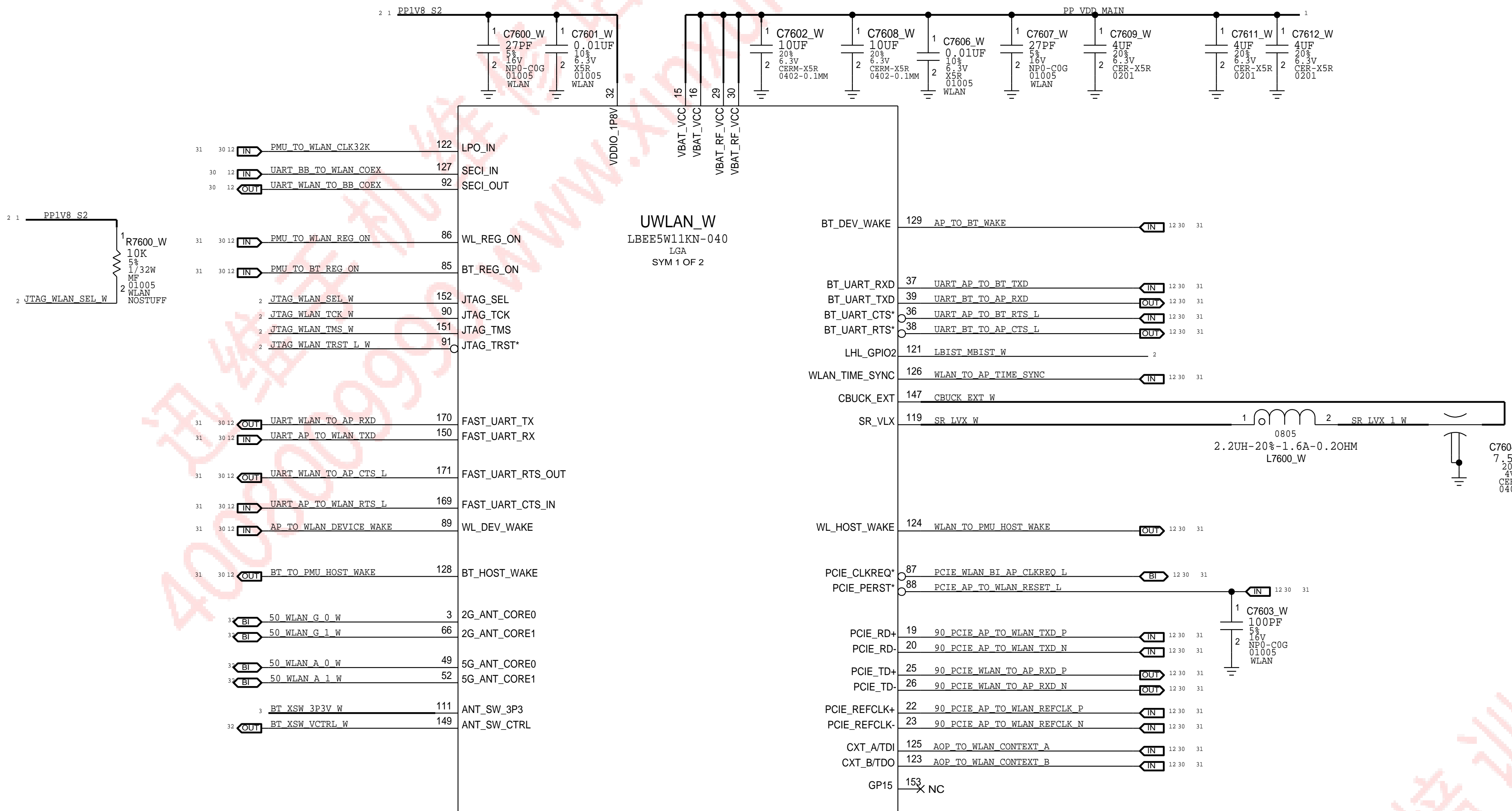
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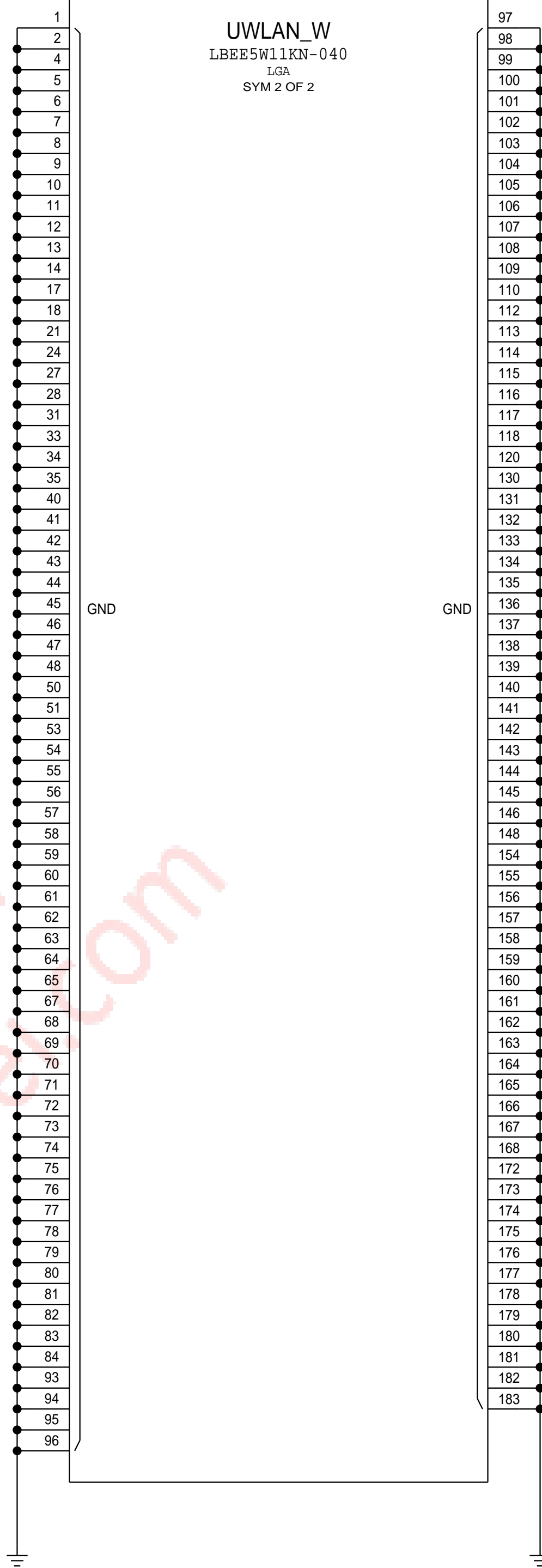
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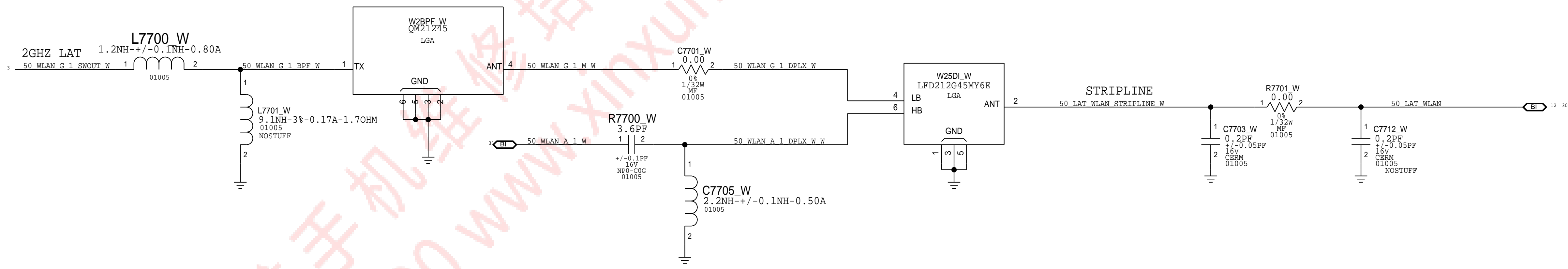


PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
998-10376	998-10147	BOM_TABLE_ALTS	UWLAN_W	USI ES6.1 WIFI MODULE

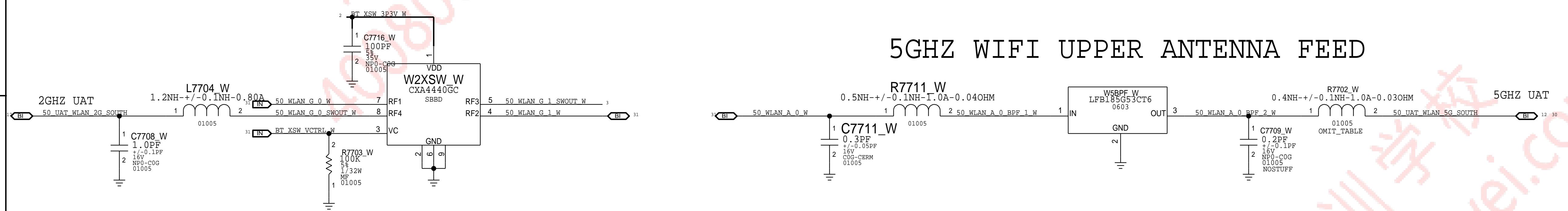


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WIFI LOWER ANTENNA FEED



5GHZ WIFI UPPER ANTENNA FEED

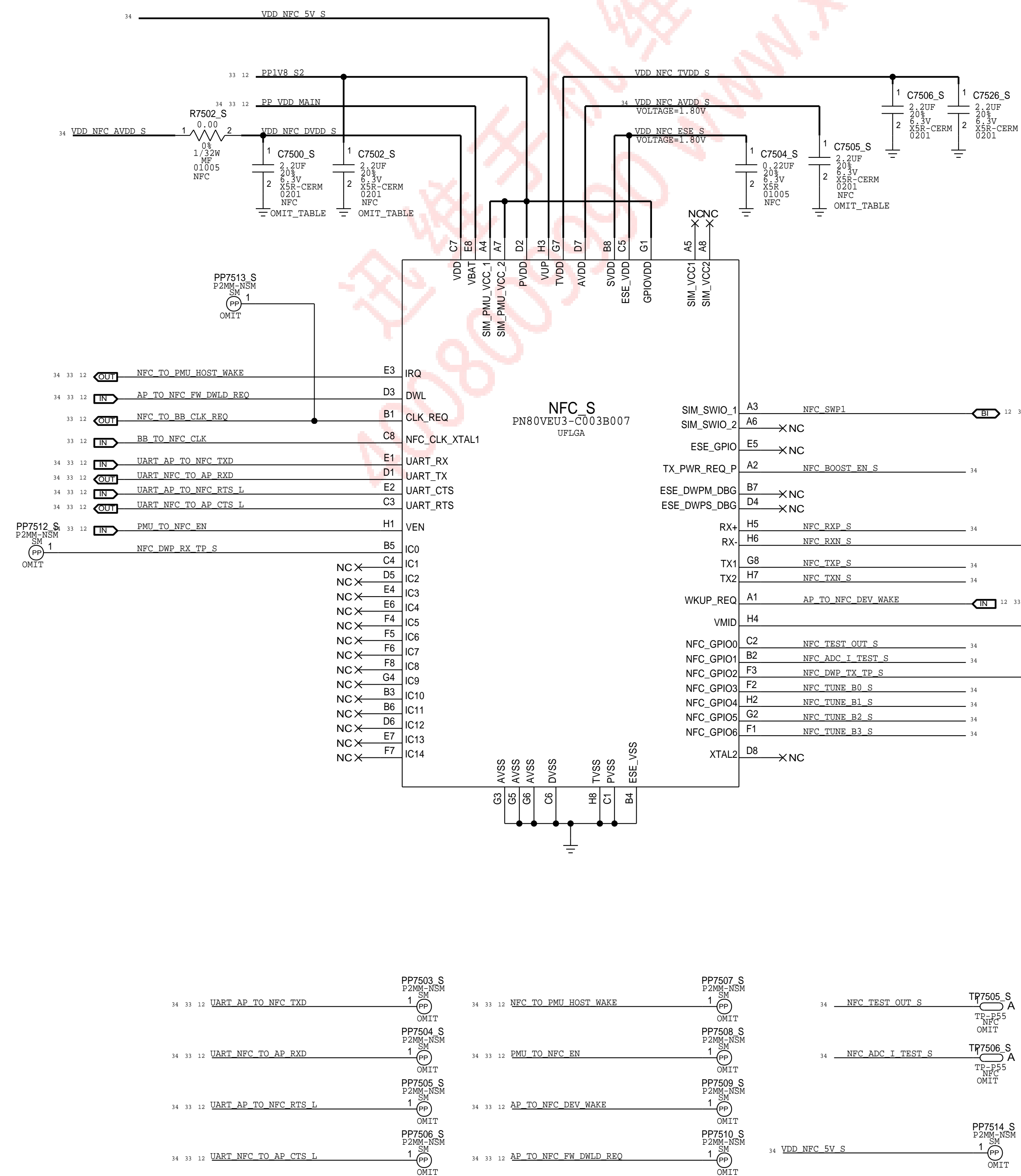
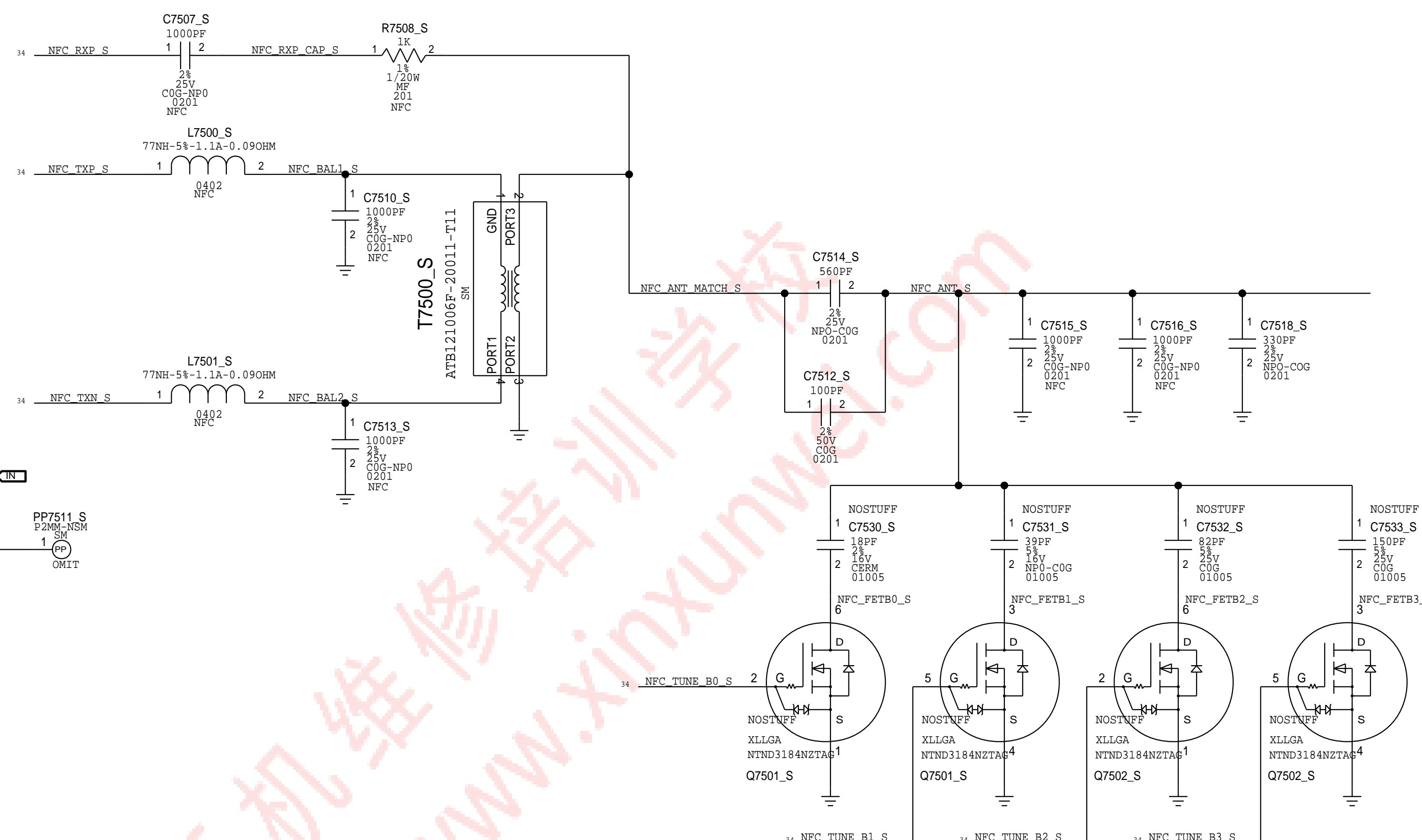


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
11750161	1	5GHZ CO BPF OUTPUT MATCH	R7702_W	CRITICAL	D221
152800498	1	5GHZ CO BPF OUTPUT MATCH	R7702_W	CRITICAL	ROW
152800498	1	5GHZ CO BPF OUTPUT MATCH	R7702_W	CRITICAL	UPN

5V BOOSTER

NFC CONTROLLER

NFC FRONT END



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