

1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.
2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

D10 MLB - DVT

LAST_MODIFICATION= Tue Jun 14 15:20:28 2016

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Schematic & PCB Callouts

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-00419	1	SCH_MLB,D10	SCI	CRITICAL	?
020-00188	1	PCB_MLB,D10	PCB	CRITICAL	?

System Block Diagram:

<rdar://problem/16684269>

SCH 051-00419
BRD 820-00188
MCO 056-01342

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NAND BOM Options

PART#	QTY	DESCRIPTION	REFERENCE DESIGN(S)	CRITICAL	BOM OPTION
33500149	1	8005, 5, 100V, 15mm, MLC	U1701	CRITICAL	NAND_120
33500182	1	8005, 5, 1250V, 15mm, T5C	U1701	CRITICAL	NAND_120G
33500156	1	8005, 5, 1250V, 10V7, T5C	U1701	CRITICAL	NAND_256G
13800867	5	100, 40V, 100V, 20V, 1, 30, 1, 100V, 800V, 1200	(U1701, U1701, U1701, U1701, U1701)	CRITICAL	NAND_330
13800903	5	100, 40V, 100V, 20V, 1, 30, 1, 100V, 800V, 1200	(U1701, U1701, U1701, U1701, U1701)	CRITICAL	NAND_1280
13800903	5	100, 40V, 100V, 20V, 1, 30, 1, 100V, 800V, 1200	(U1701, U1701, U1701, U1701, U1701)	CRITICAL	NAND_256G

Active Diode Alternate

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
374600106	374600047	ALTERNATE	Q2101	DIODES INC. ACT DIODE

DDR PLL Alternate

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155000995	155000968	ALTERNATE	PL1501	PHILIPS 155000995, 155000968

ACC BUCK CIRCUIT Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
371800087	371800064	ALTERNATE	D2700	DIODES INC. ACT DIODE
152009558	152009557	ALTERNATE	L2700	DIODES INC. ACT DIODE
374600166	374600144	ALTERNATE	Q2700, Q2701	DIODES INC. ACT DIODE
353010057	353010139	ALTERNATE	U2710	DIODES INC. ACT DIODE

Power Inductor Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152000118	152000075	ALTERNATE	ALL	152000118, 152000075, 152000075, 152000075
152000077	152000397	ALTERNATE	ALL	152000077, 152000397, 152000397, 152000397
152000121	152000001	ALTERNATE	ALL	152000121, 152000001, 152000001, 152000001
152000123	15201936	ALTERNATE	ALL	152000123, 15201936, 15201936, 15201936
152000402	152000346	ALTERNATE	ALL	152000402, 152000346, 152000346, 152000346
152000297	15201843	ALTERNATE	ALL	152000297, 15201843, 15201843, 15201843
152000365	152000297	ALTERNATE	ALL	152000365, 152000297, 152000297, 152000297
152000398	152000204	ALTERNATE	ALL	152000398, 152000204, 152000204, 152000204
152000120	152000077	ALTERNATE	ALL	152000120, 152000077, 152000077, 152000077
152000117	152000074	ALTERNATE	ALL	152000117, 152000074, 152000074, 152000074

updated 11/12

updated 11/12

reverted 11/13

For Chestnut Inductors: so it doesn't interfere with PMU inductor Buck 7 alte
Range: 0005 18 (0005 18 in Range only)

Global R/C Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
11800764	11800717	ALTERNATE	ALL	11800764, 11800717, 11800717, 11800717
13800702	13800657	ALTERNATE	ALL	13800702, 13800657, 13800657, 13800657
138000006	13800825	ALTERNATE	ALL	138000006, 13800825, 13800825, 13800825
138000005	138000003	ALTERNATE	ALL	138000005, 138000003, 138000003, 138000003
138000048	138000003	ALTERNATE	ALL	138000048, 138000003, 138000003, 138000003
138000648	13800652	ALTERNATE	ALL	138000648, 13800652, 13800652, 13800652
13200400	13200426	ALTERNATE	ALL	13200400, 13200426, 13200426, 13200426
138000024	13800986	ALTERNATE	ALL	138000024, 13800986, 13800986, 13800986
13800706	13800739	ALTERNATE	ALL	13800706, 13800739, 13800739, 13800739
13800945	13800739	ALTERNATE	ALL	13800945, 13800739, 13800739, 13800739
13200426	13200400	ALTERNATE	ALL	13200426, 13200400, 13200400, 13200400

Global Ferrite Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155000667	15500581	ALTERNATE	ALL	155000667, 15500581, 15500581, 15500581
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155000012	155000188	ALTERNATE	ALL	155000012, 155000188, 155000188, 155000188
155000194	15500610	ALTERNATE	ALL	155000194, 15500610, 15500610, 15500610
155000200	15500610	ALTERNATE	ALL	155000200, 15500610, 15500610, 15500610
152000489	152000456	ALTERNATE	ALL	152000489, 152000456, 152000456, 152000456

Global Varistor Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
37700168	37700140	ALTERNATE	ALL	37700168, 37700140, 37700140, 37700140

Magnesium Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138000173	138000203	ALTERNATE	Q2402	DIODES INC. ACT DIODE

Carbon Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138000087	138000226	ALTERNATE	Q2401, Q2404	DIODES INC. ACT DIODE

UT LDO Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
353000889	353000015	ALTERNATE	Q2501	DIODES INC. ACT DIODE

Mamba LDO Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
353000932	353000576	ALTERNATE	Q3001	DIODES INC. ACT DIODE

I2C5 Alternate

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
355000234	355000233	ALTERNATE	U1101	DIODES INC. ACT DIODE

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D10 EEEE CALLOUTS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATION(S)	CRITICAL	BOA OPTION
925-6828	1	IEEE CODE FOR 639-01754	IEEE_03D5	CRITICAL	IEEE_HST
925-6810	1	IEEE CODE FOR 639-01755	IEEE_03D6	CRITICAL	IEEE_03FFH6
925-6818	1	IEEE CODE FOR 639-01756	IEEE_03D7	CRITICAL	IEEE_WTRHNE
925-6813	1	IEEE CODE FOR 639-02372	IEEE_H6T7	CRITICAL	IEEE_HST_ROW
925-6819	1	IEEE CODE FOR 639-02373	IEEE_H6T8	CRITICAL	IEEE_WTRHNE_ROW
925-6838	1	IEEE CODE FOR 639-02374	IEEE_H6T9	CRITICAL	IEEE_03FFH6_ROW

CAYMAN DDR Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339800254	339800253	ALTERNATE	ALL	DOR-II, 2G, B1
339800255	339800253	ALTERNATE	ALL	DOR-S, 2G, B1

Cap 2.2UF Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00049	138S00032	ALTERNATE	(C1597,C1531)	QAP, CEN, DIA, 1,307, 1034, 10, 30A, 890356
138S00831	138S00032	ALTERNATE	ALL	QAP, CEN, DIA, 1,307, 1034, 10, 30A, 890356

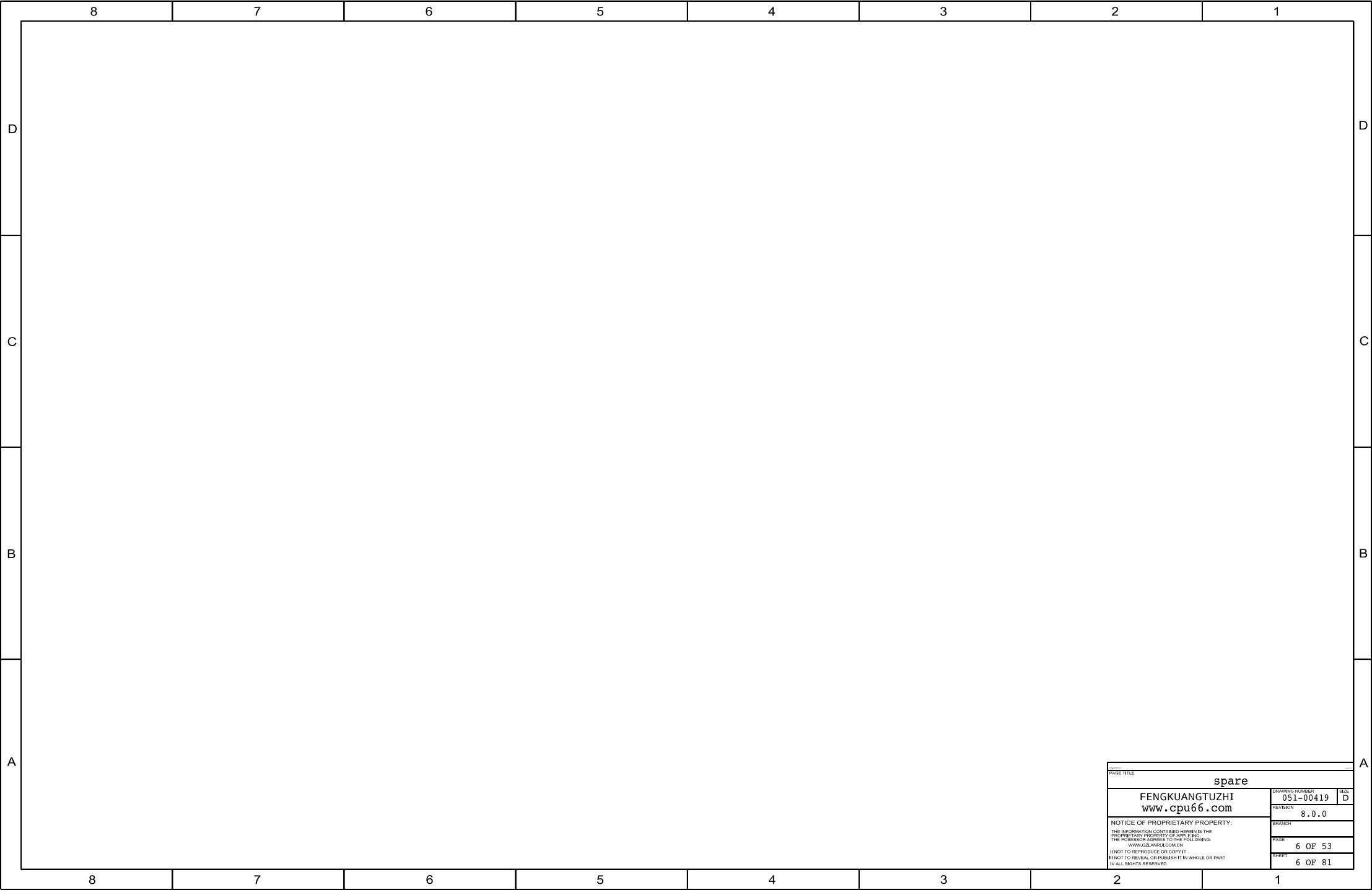
D10x Specific BOM Callouts

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152000117	1	TAIYO,200,300,0020,330,3,48,1,000000,1016	L1003	CRITICAL	BSLX_TAIYO
11700156	2	805MP,1X,00W, 1A, 1/72W, 11105	R4008,R4009	CRITICAL	UTM_C

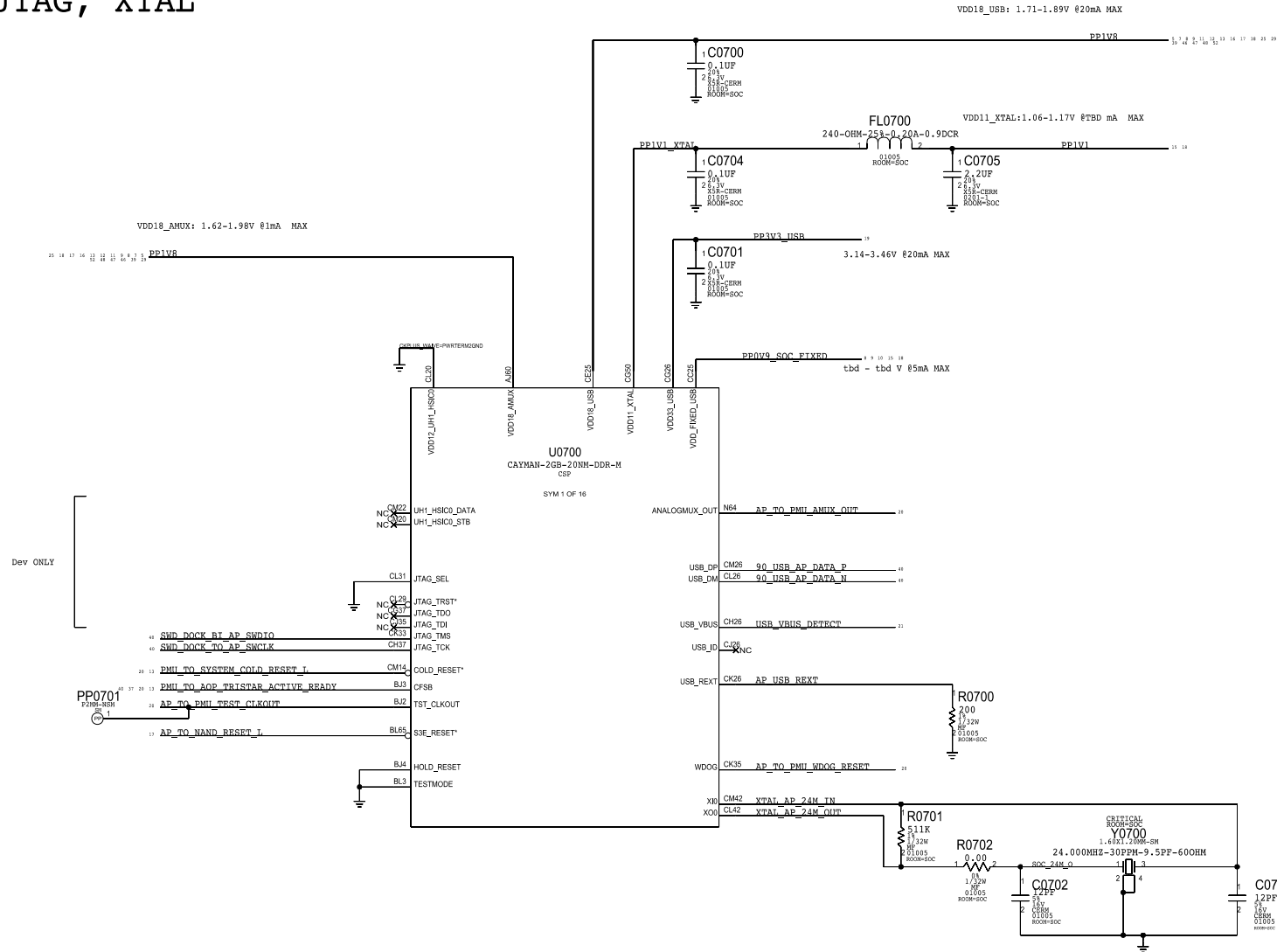
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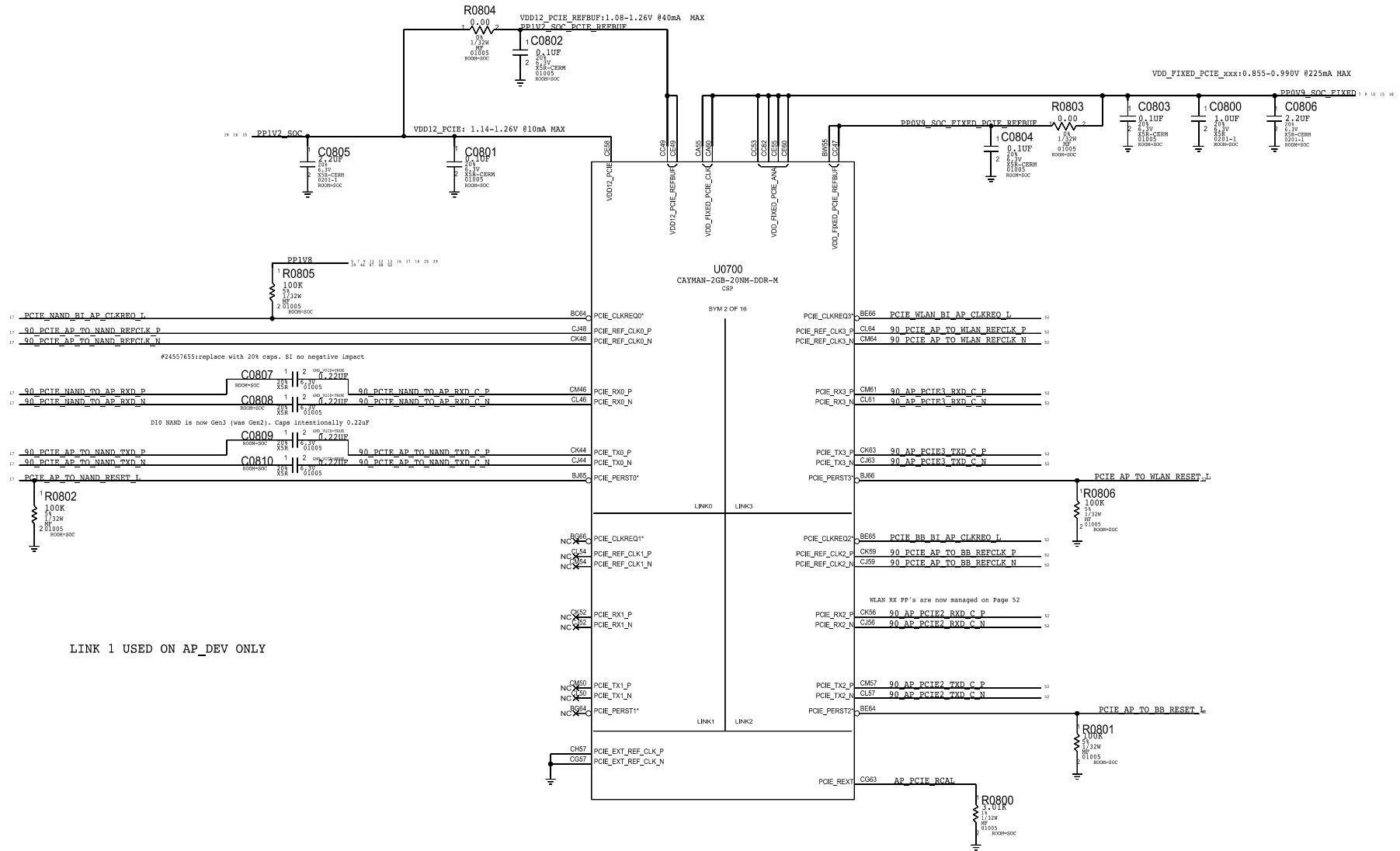


SOC - USB, JTAG, XTAL



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SOC - PCIE INTERFACES



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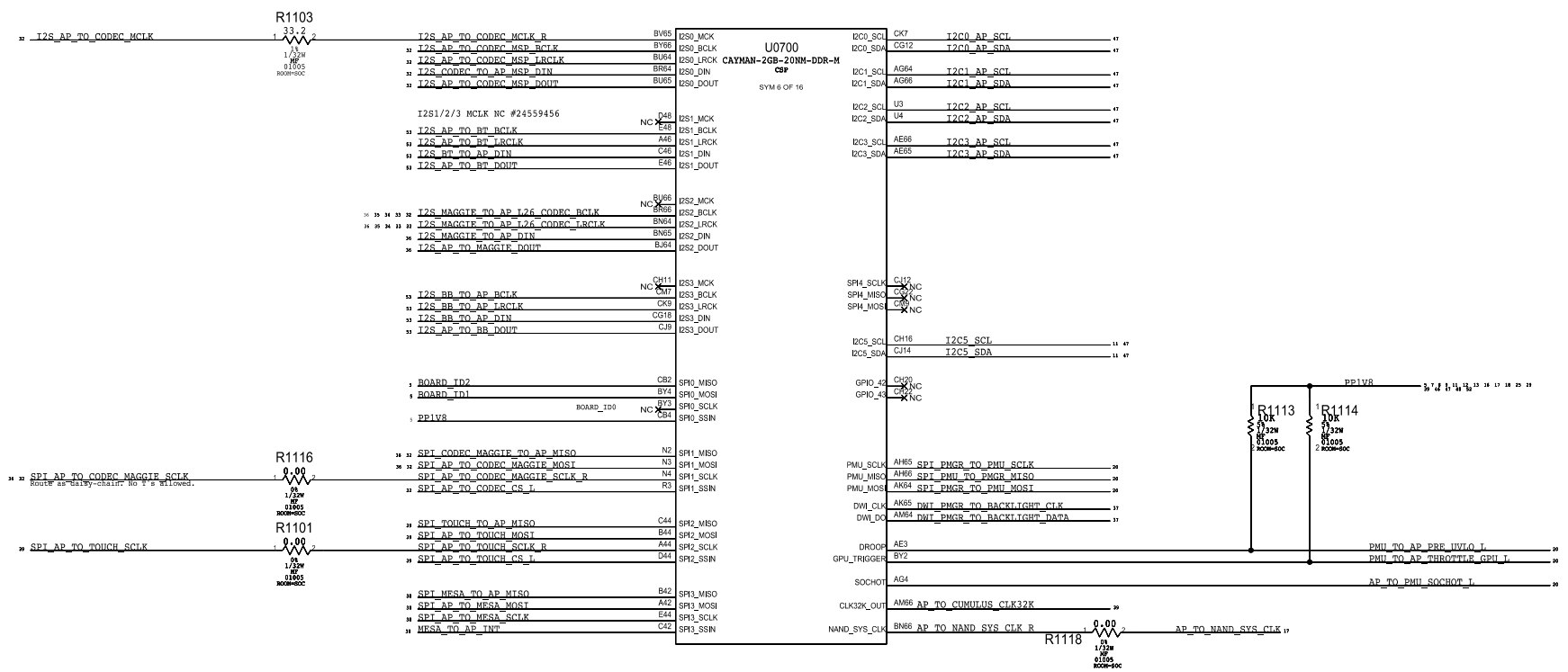
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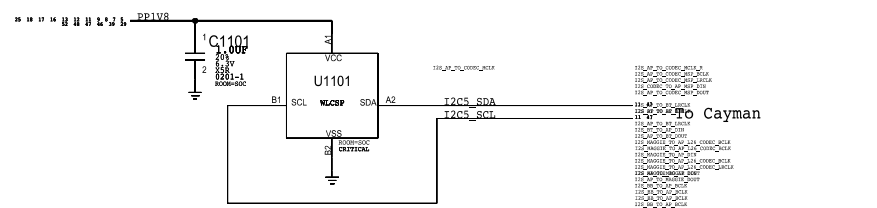
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SOC - SERIAL INTERFACES



I2C5
See Radar#25316444 for Details



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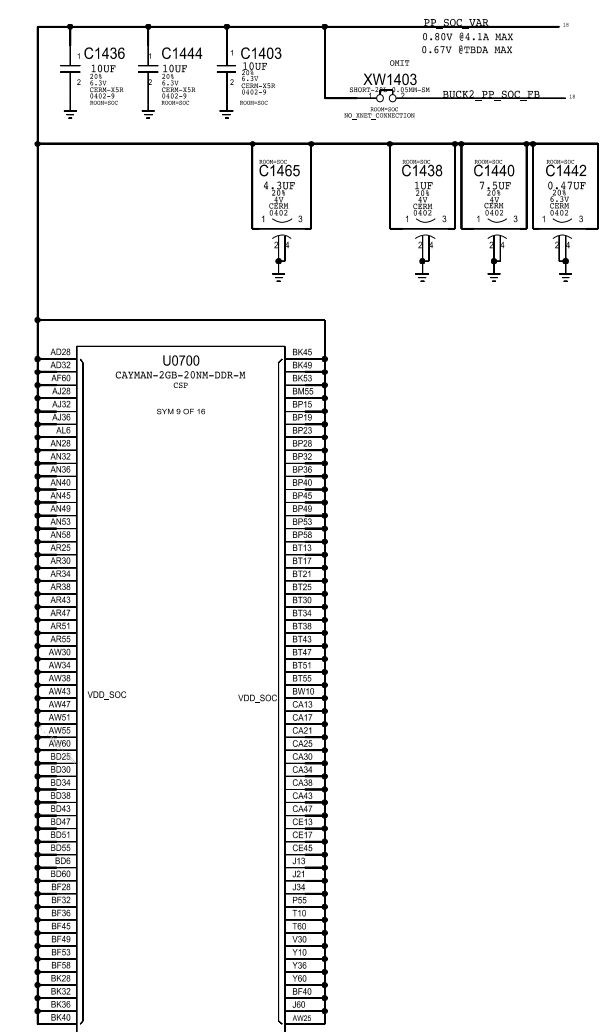
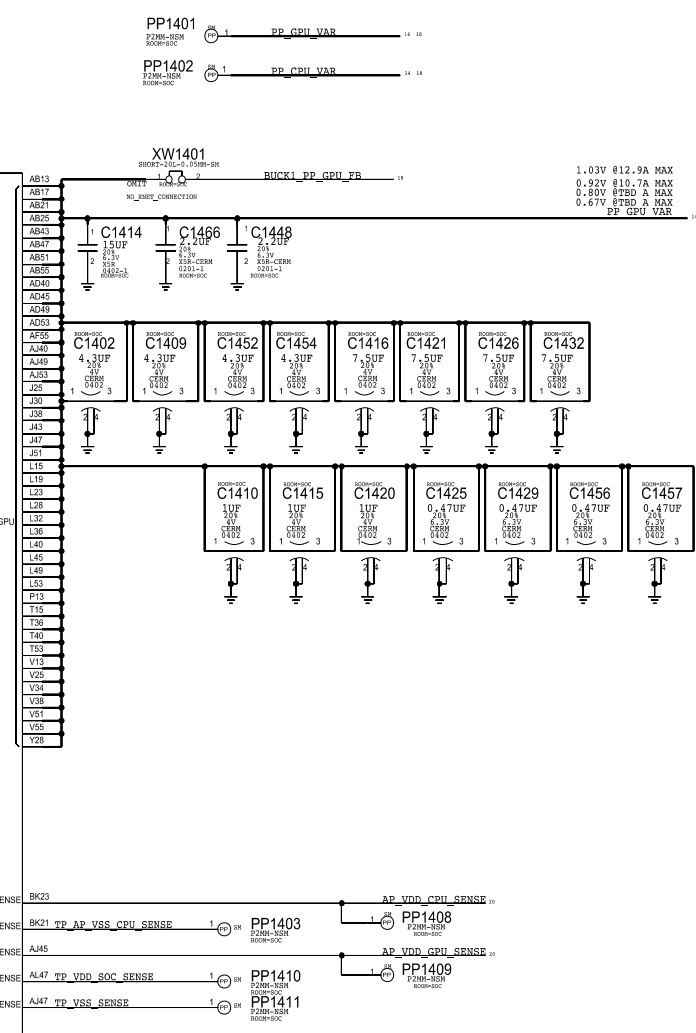
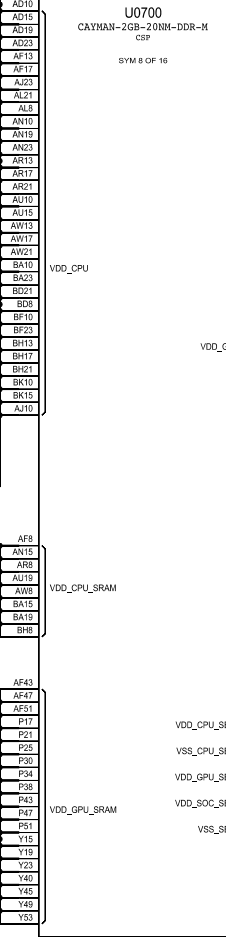
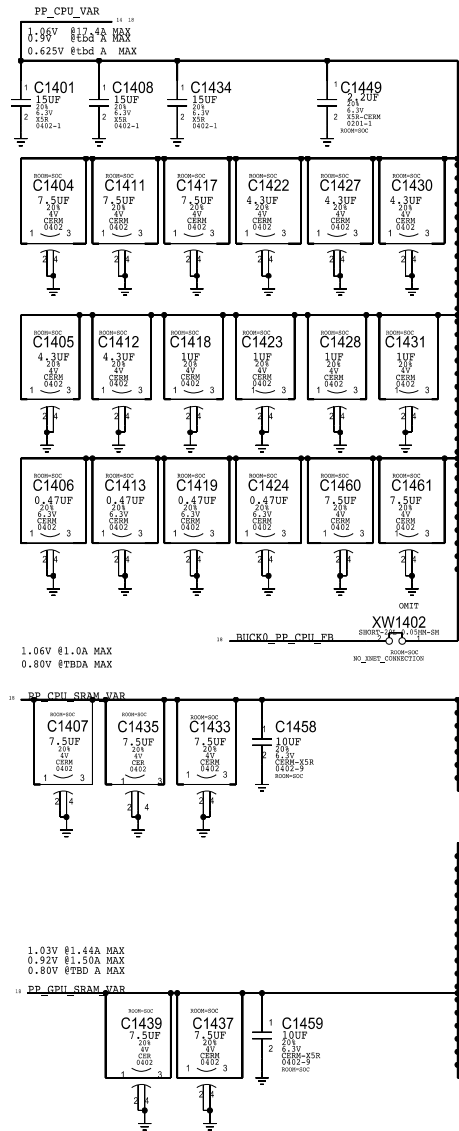
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SOC - CPU, GPU & SOC RAILS



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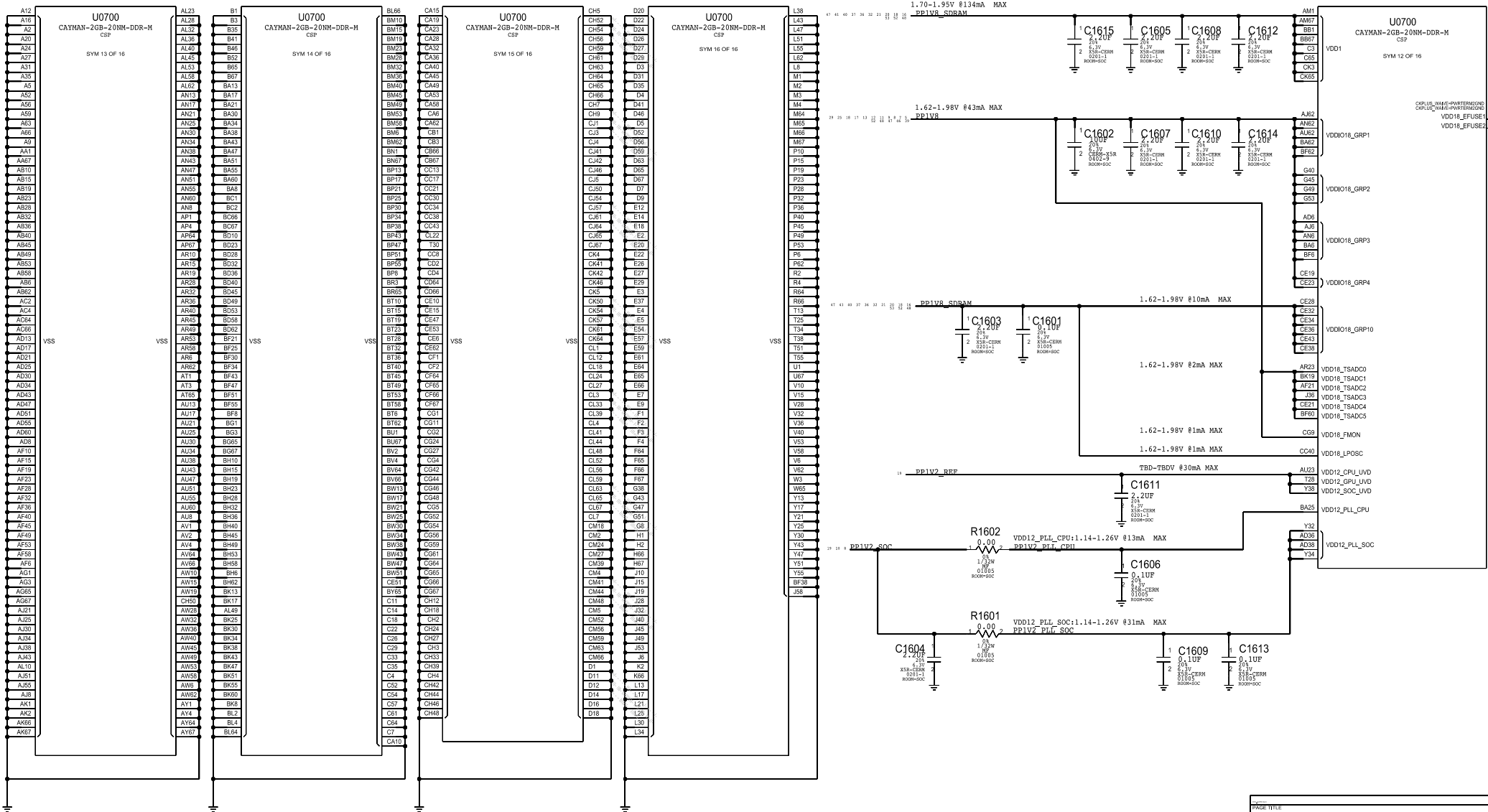
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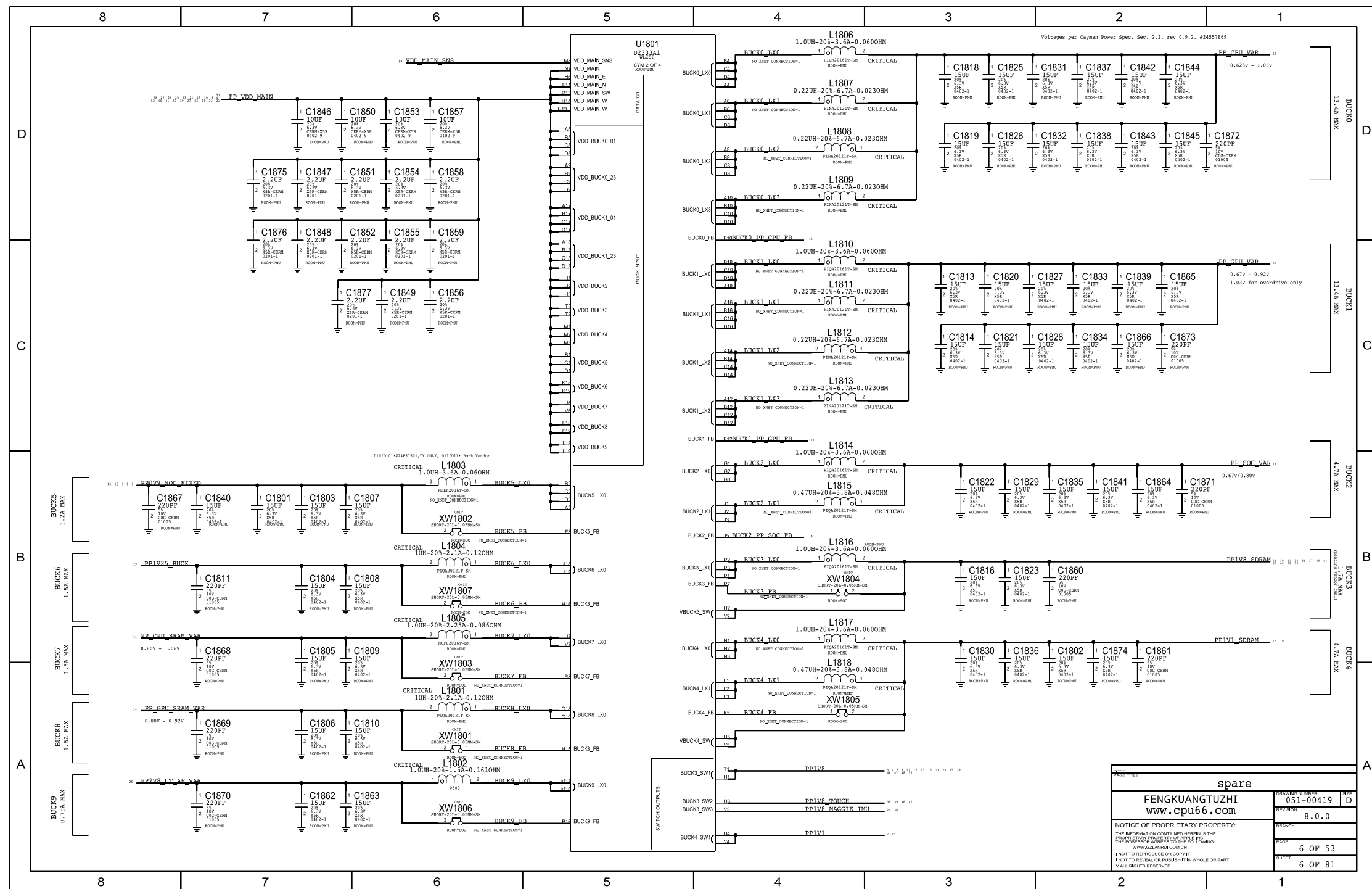
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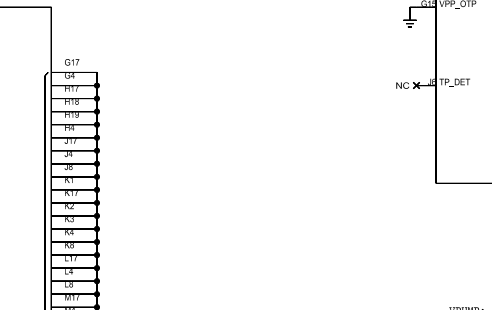
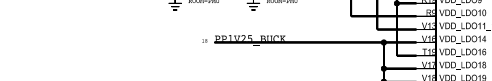
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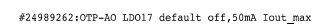


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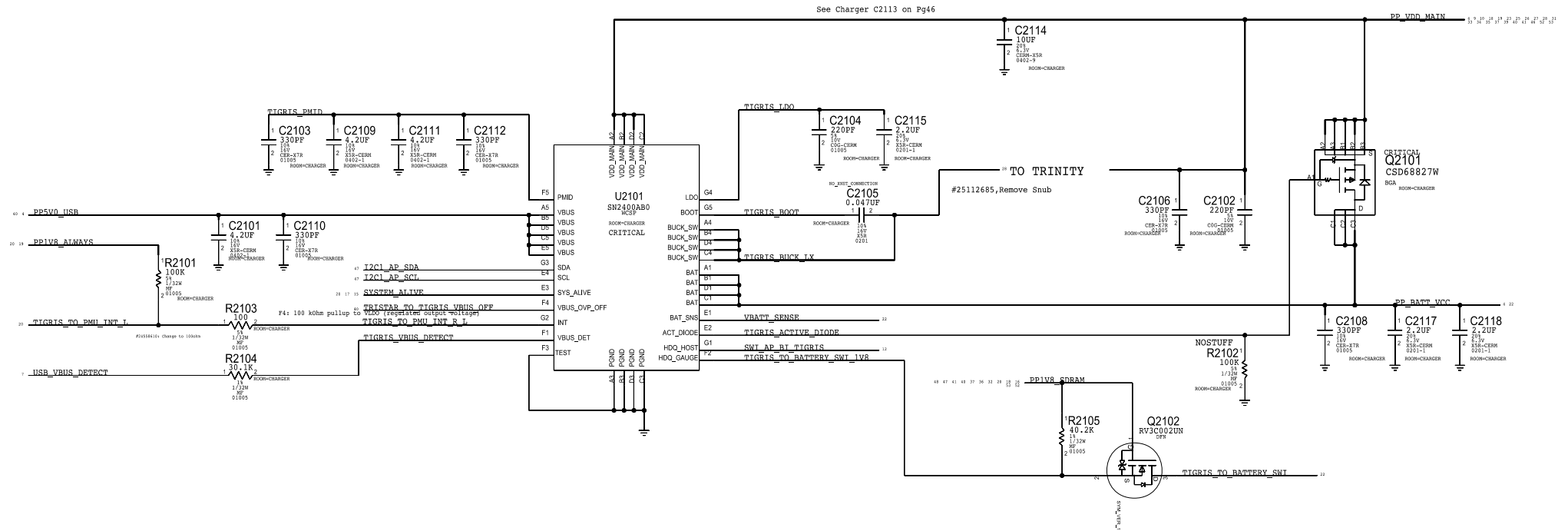


LDO#	ADJ. RANGE, LOW	ADJ. RANGE, HI	ACCURACY	MAX. CURRENT
LDO11 (Cb)	1.2-2.475V	2.4-3.675V	+/-30mV	250mA
LDO12 (E)	1.8V		+/-5%	10mA
LDO13 (Cb)	1.2-2.475V	2.4-3.675V	+/-30mV	250mA
LDO14 (Gb)	0.7-1.4V		+/-3.0%	400mA
LDO15 (Ca)	1.2-2.475V	2.4-3.675V	+/-2.5%	50mA
LDO16 (Cb)	1.2-2.475V	2.4-3.675V	+/-30mV	250mA
LDO17 (Ca)	1.2-2.475V	2.4-3.675V	+/-2.5%	50mA
LDO18 (Gb)	0.7-1.4V		+/-3.0%	400mA
LDO19 (Gb)	0.7-1.4V		+/-3.0%	400mA
LDO_RTC	2.5V		+/-2.0%	10mA
BUF_IV2	1.2V		+/-5.0%	10mA



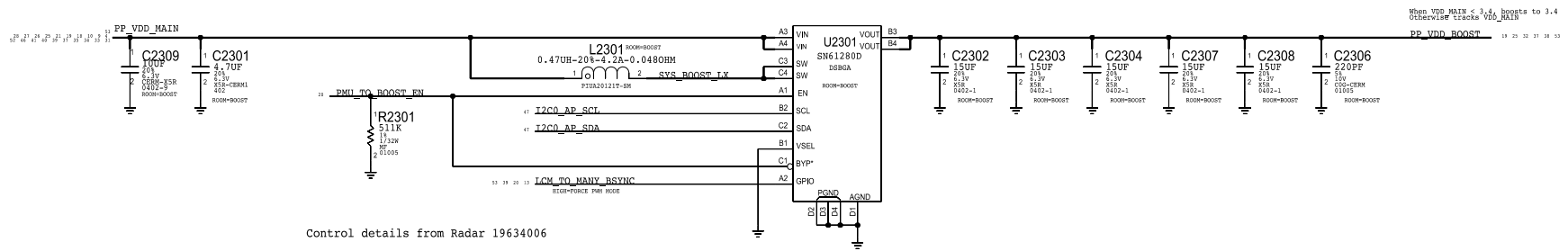
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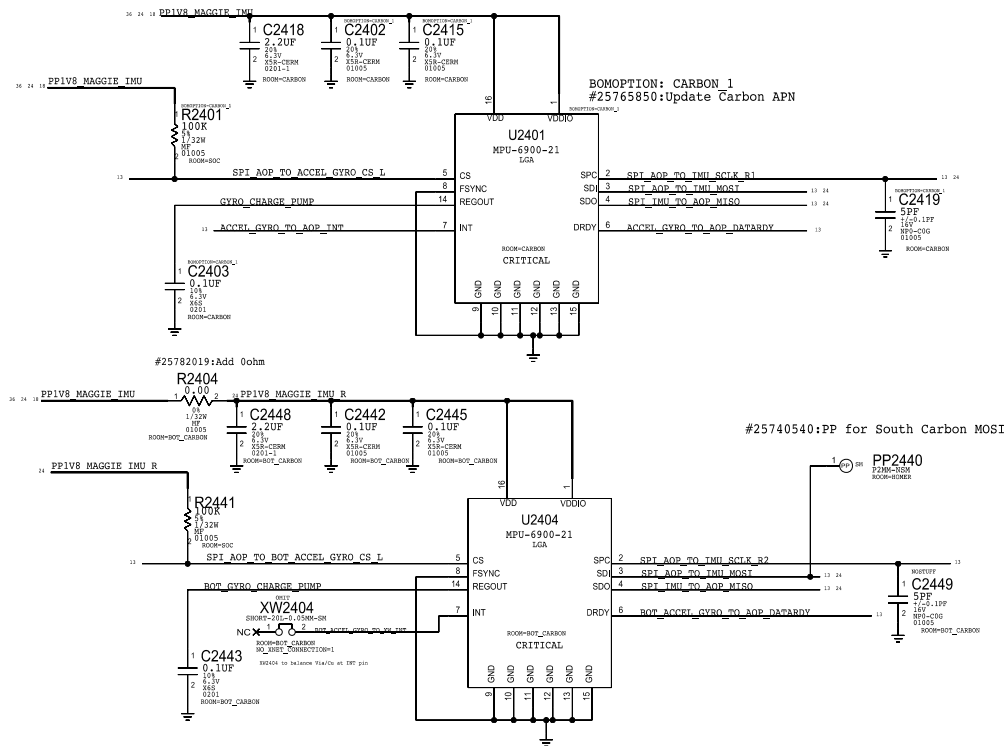


Control details from Radar 19634006

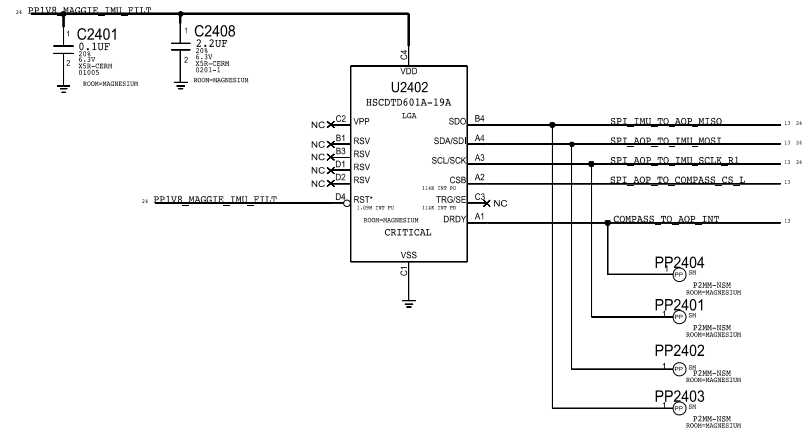
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CARBON - ACCEL & GYRO

INVENSENSE, MPU-6800; C2403=0.1UF



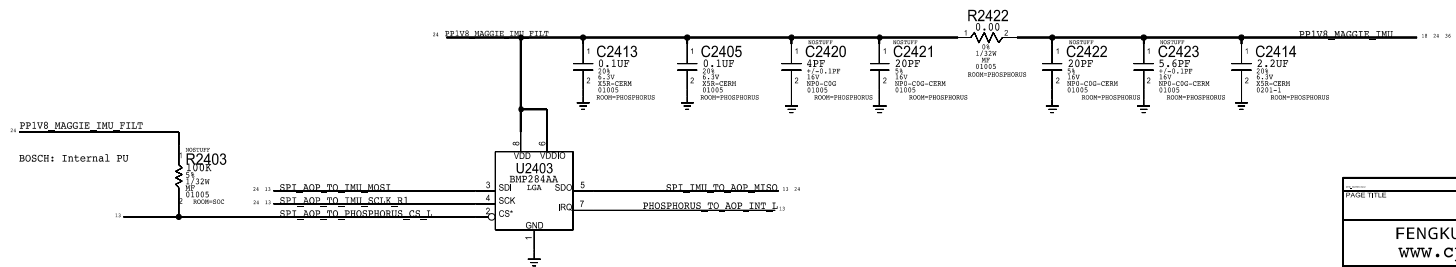
MAGNESIUM - COMPASS



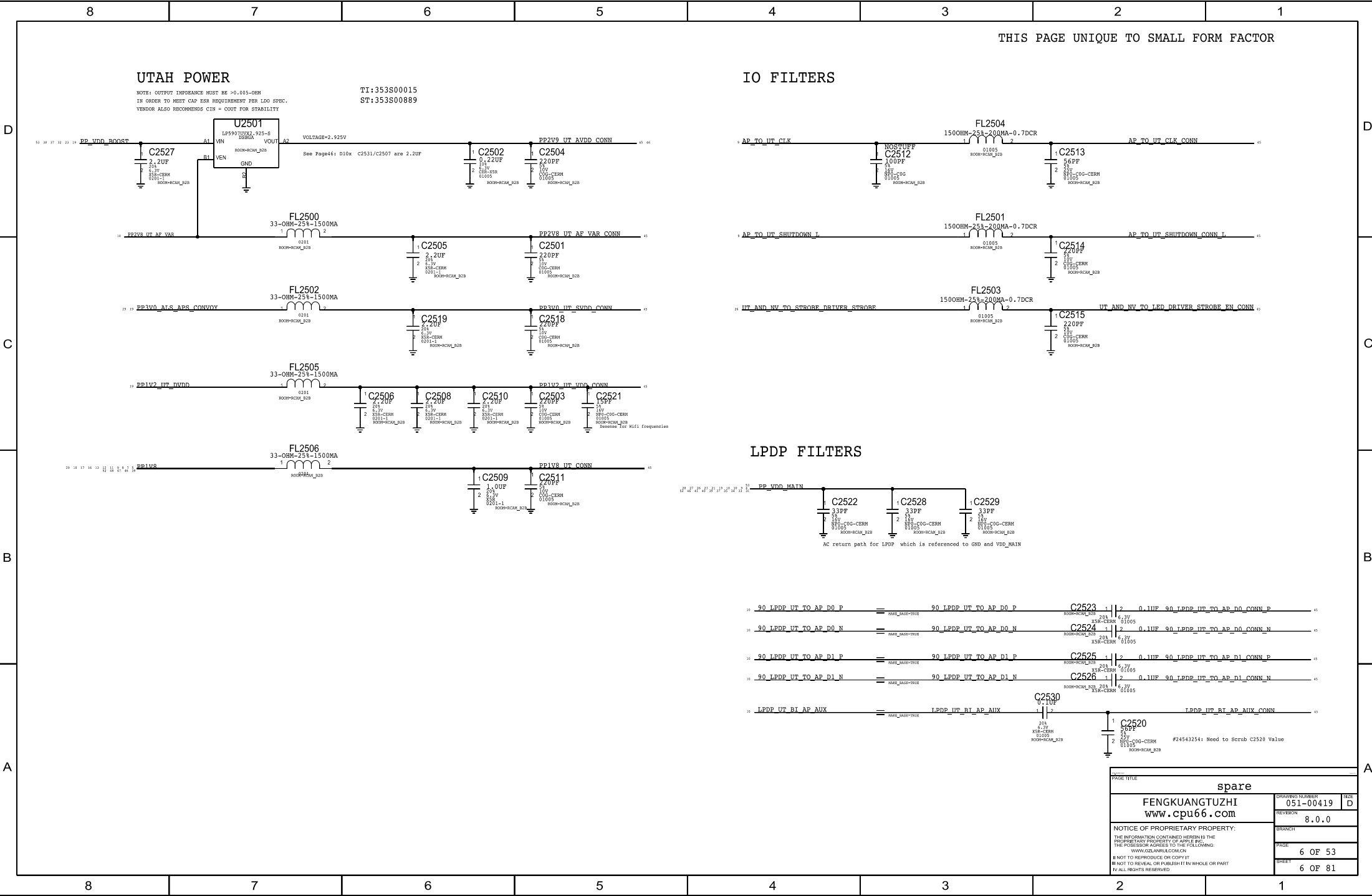
PHOSPHORUS

#24593845, #25691124

BOSCH (APN:338S00188): nostuff C2420/C2421/C2422/C2423 and R2403 PU

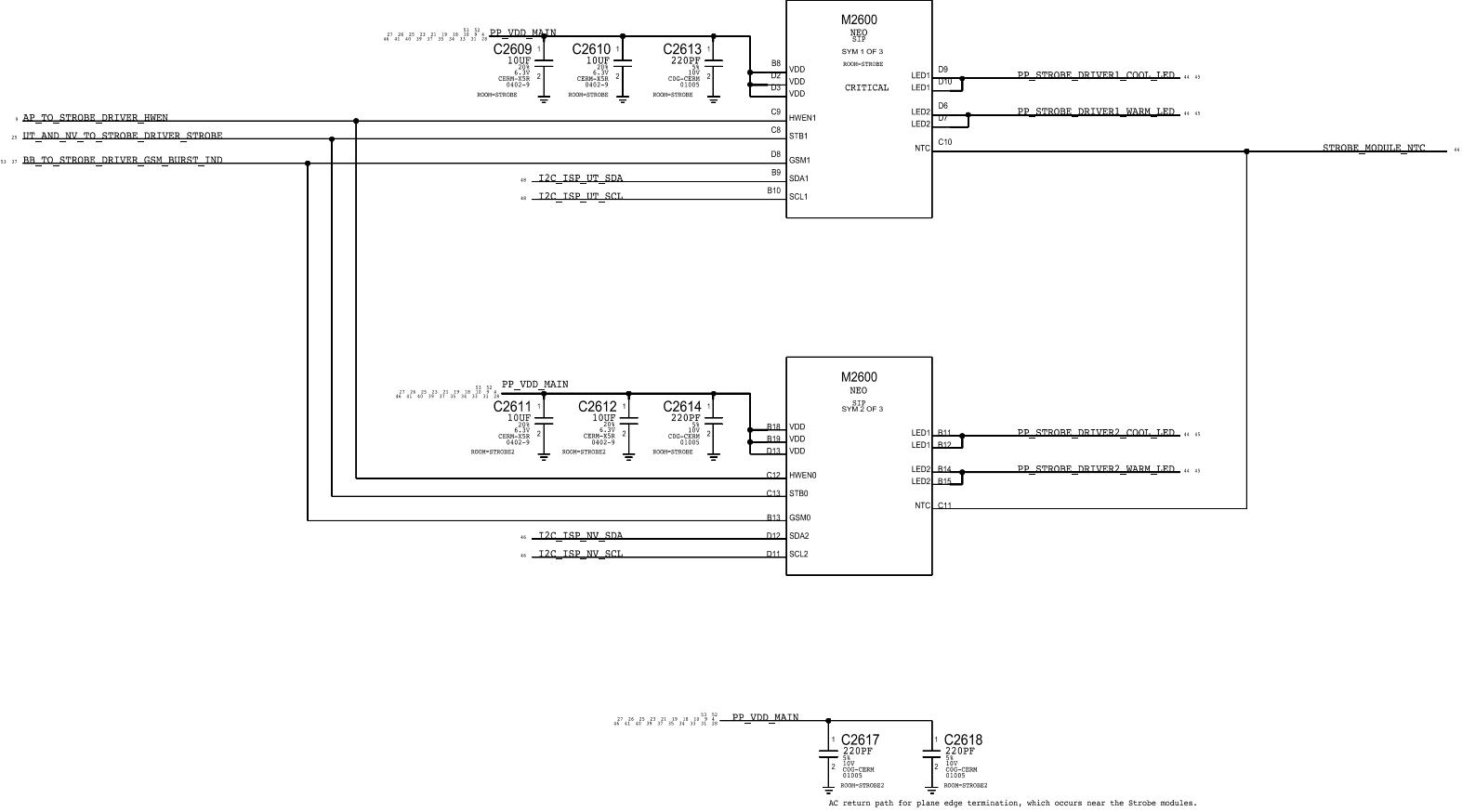


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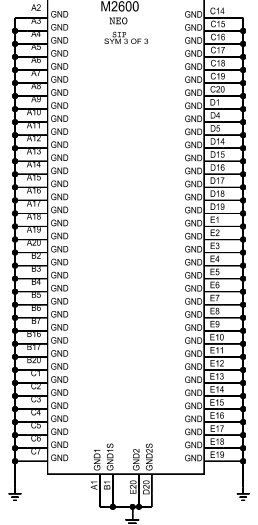


STROBE DRIVERS INSIDE NEO SIP MODULE

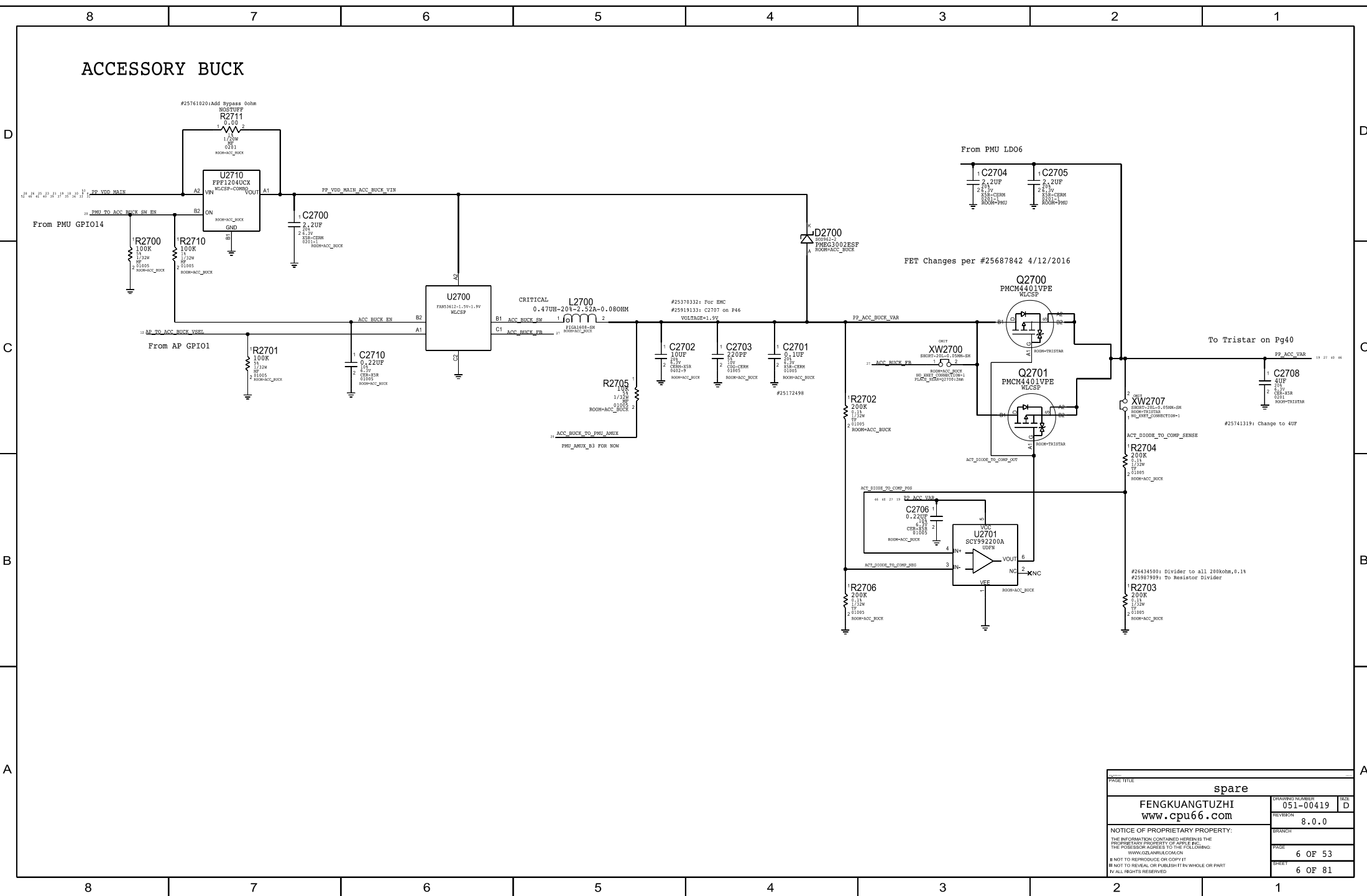
D10/sip_neo

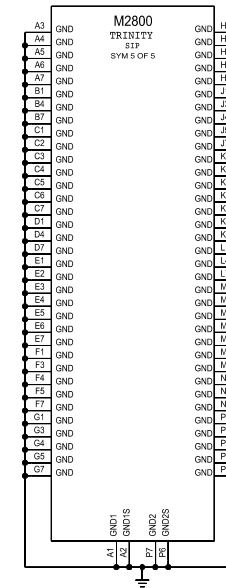
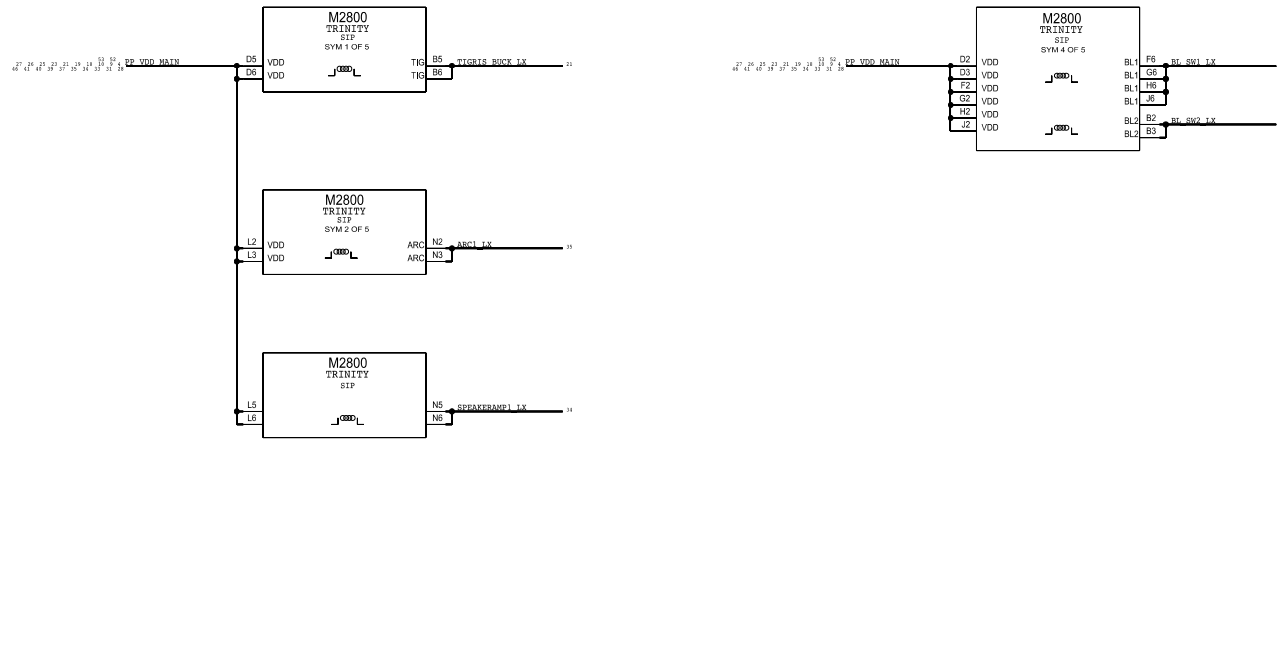


AC return path for plane edge termination, which occurs near the Strobe modules.



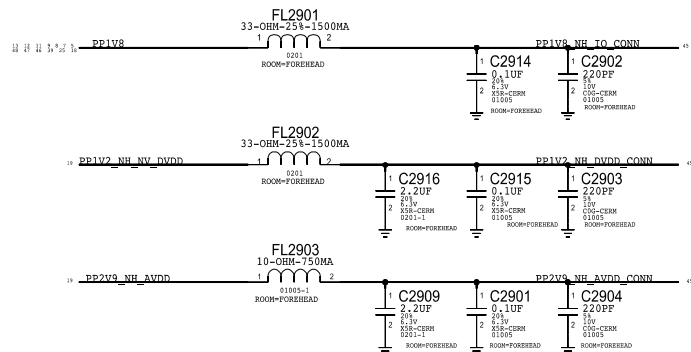
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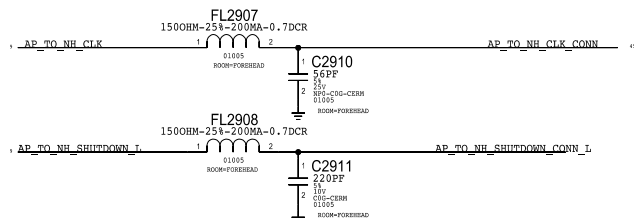


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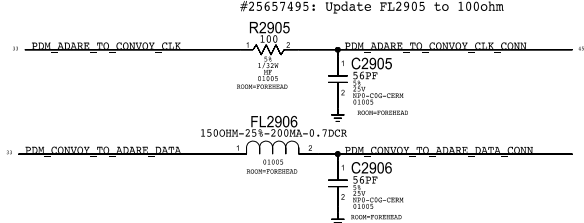
NEW HAMPSHIRE POWER



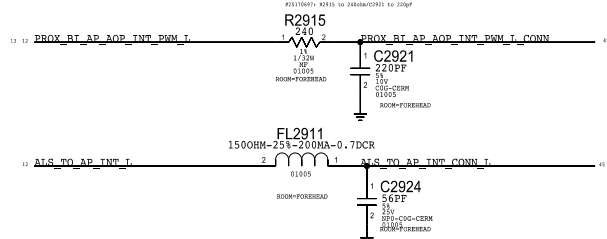
NEW HAMPSHIRE I/O



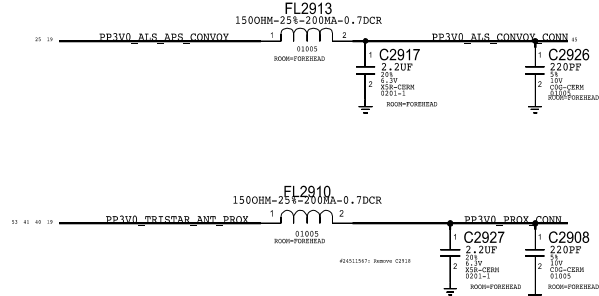
CONVOY I/O



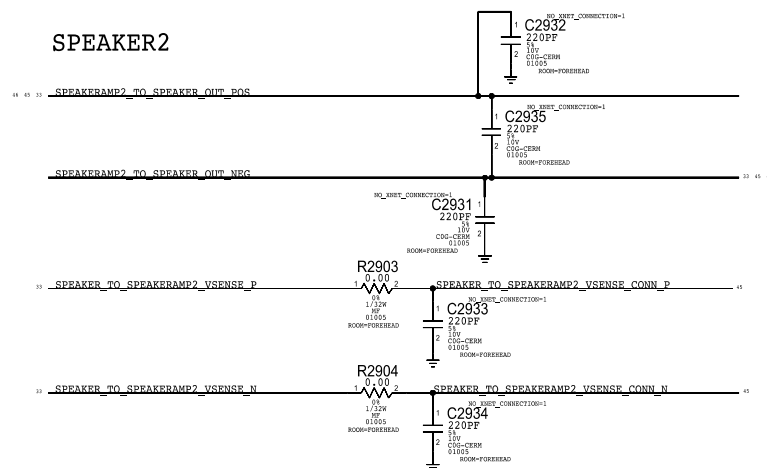
PROX/ALS I/O



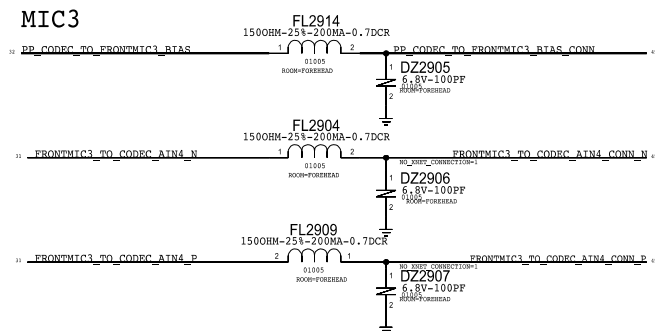
PROX, ALS, & CONVOY POWER



SPEAKER2



MIC3

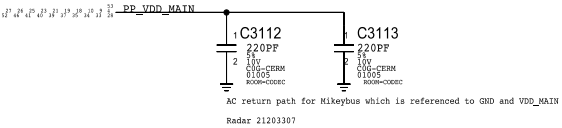
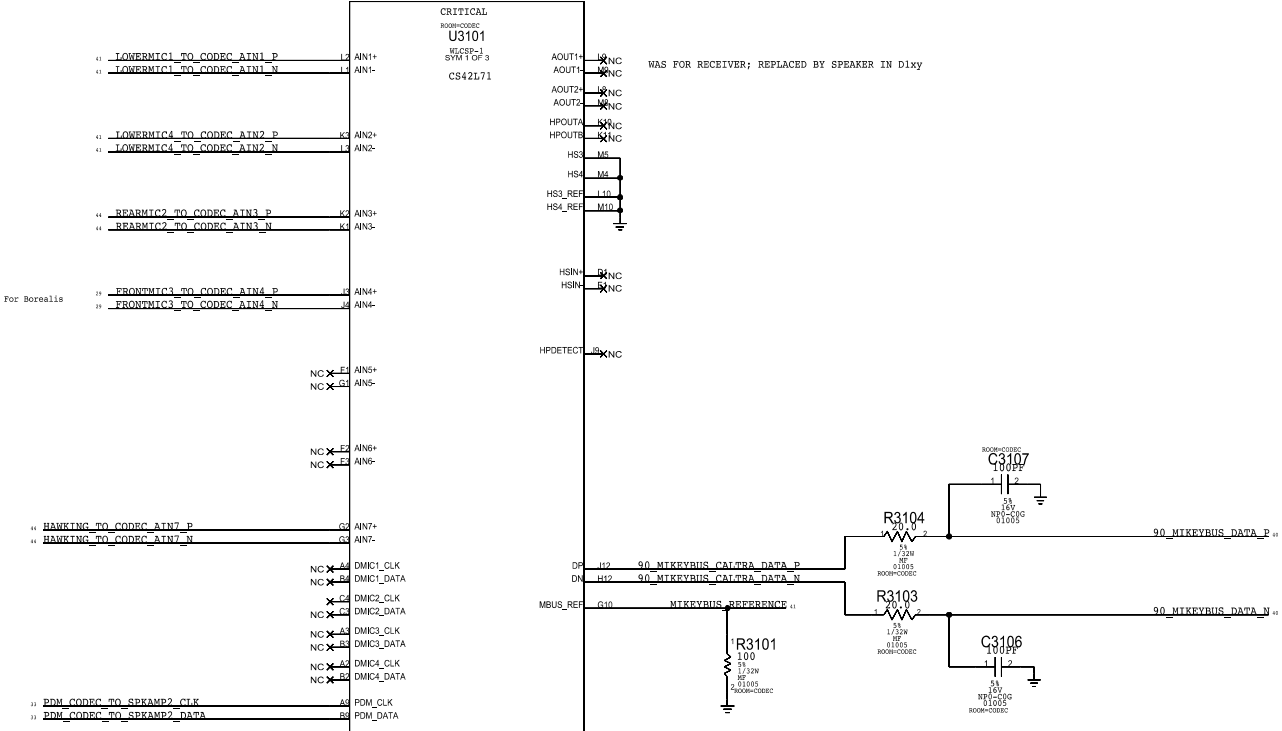


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8	7	6	5	4	3	2	1
D							
C							
B							
A							
8	7	6	5	4	3	2	1

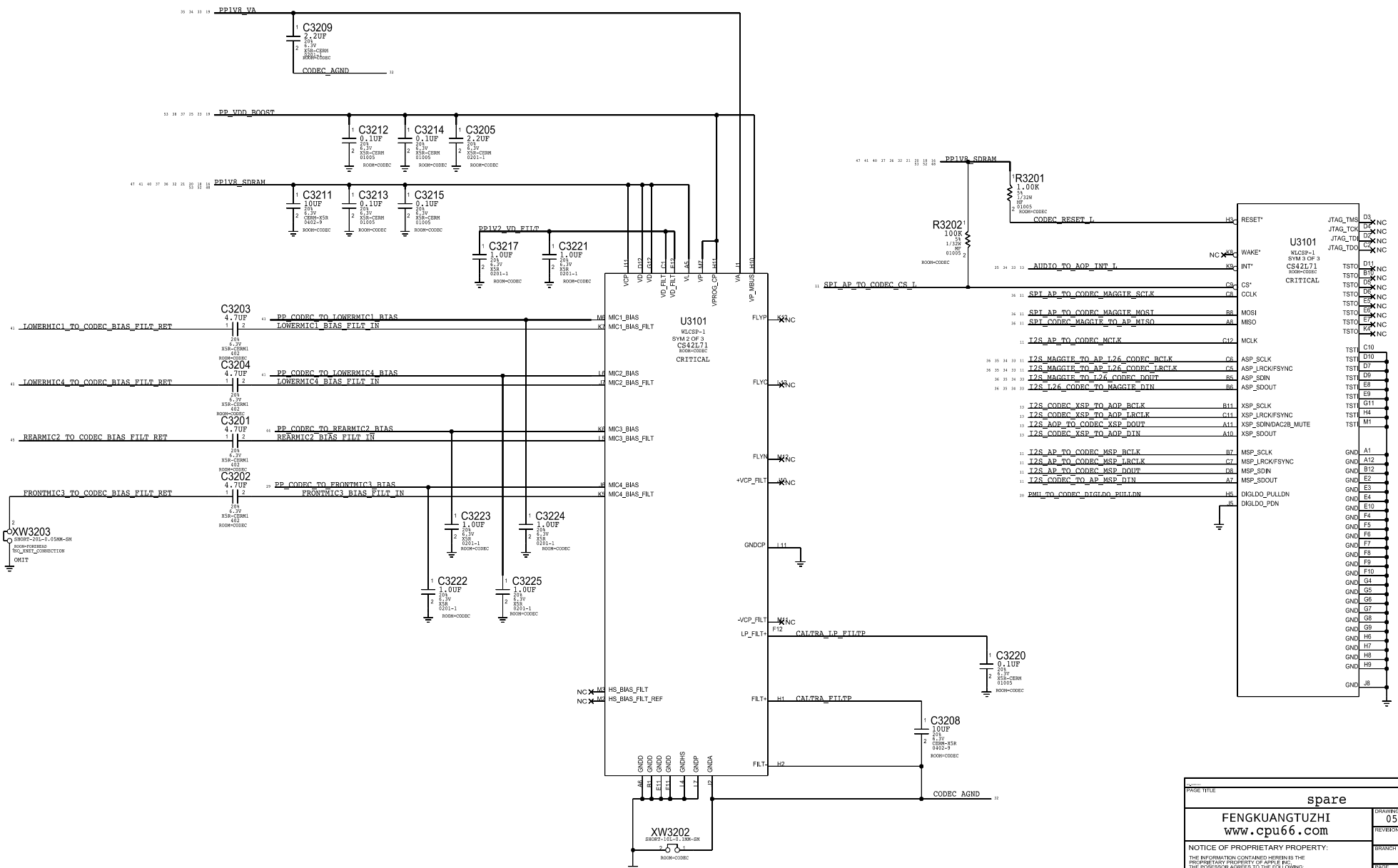
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CALTRA AUDIO CODEC (ANALOG INPUTS & OUTPUTS)



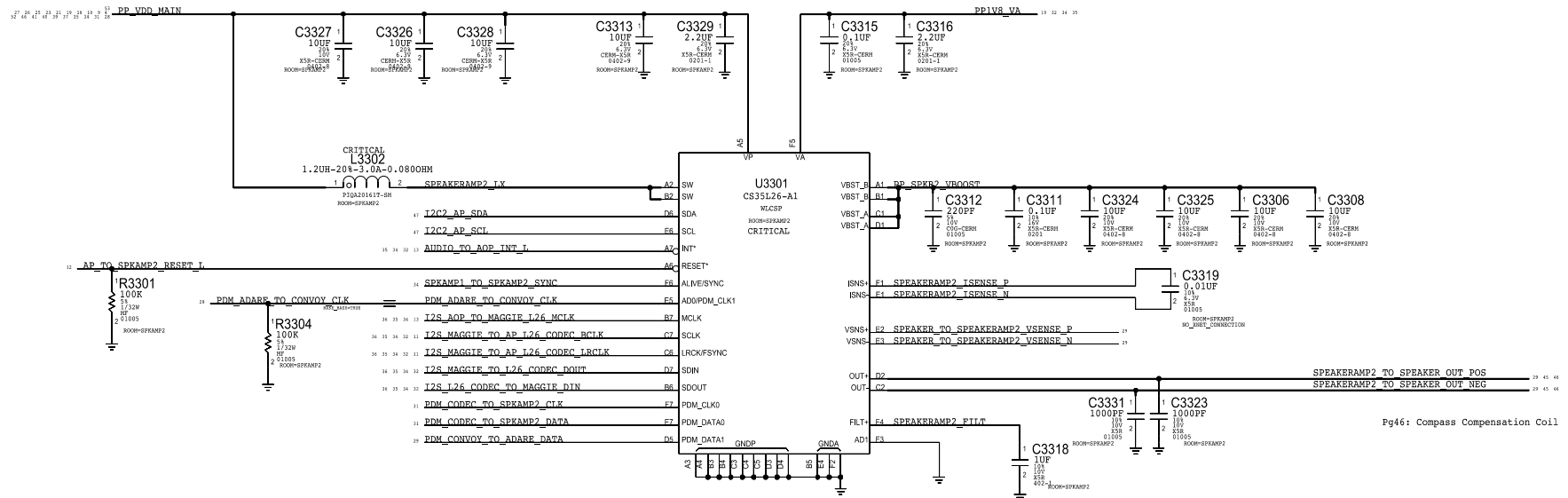
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CALTRA AUDIO CODEC (POWER & I/O)



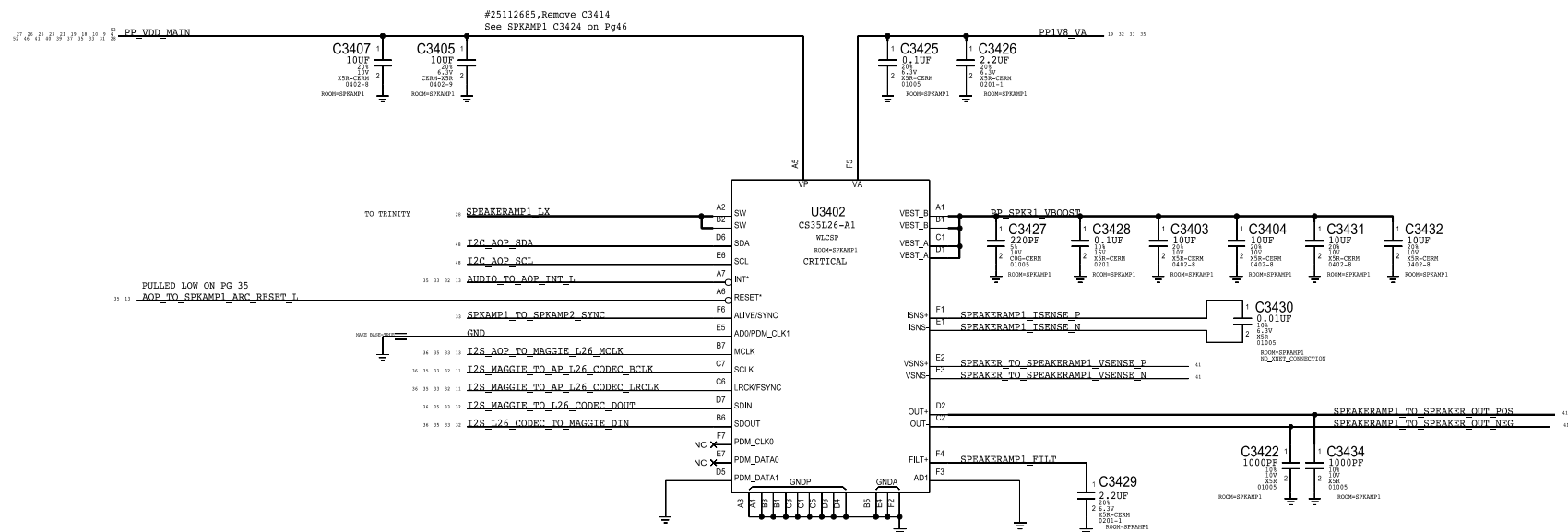
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SPEAKER AMPLIFIER 2 (North)



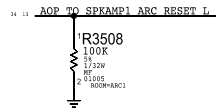
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SPEAKER AMPLIFIER 1 (South)

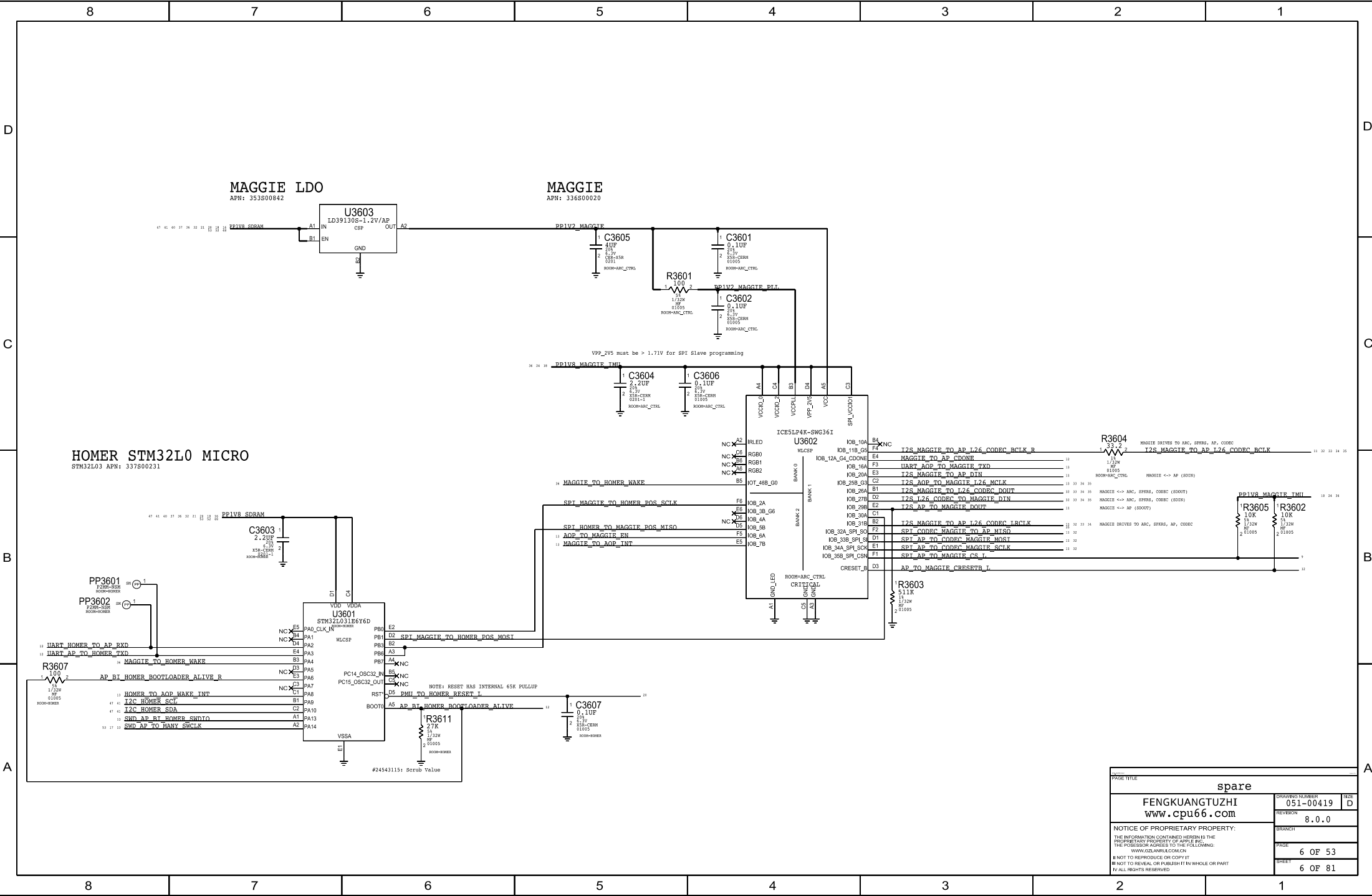


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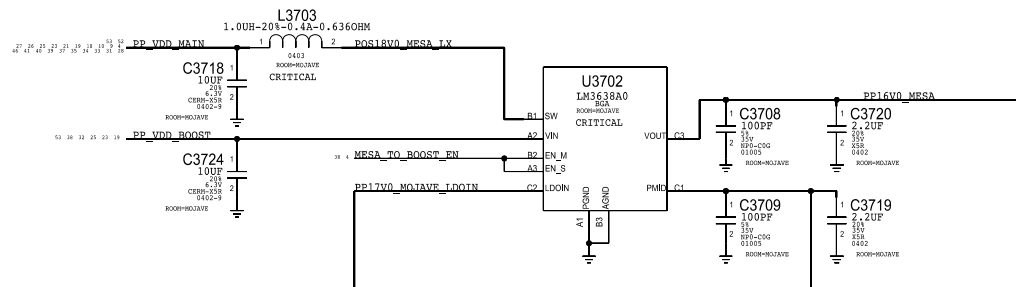
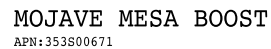
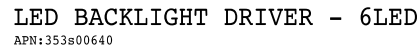
ARC D



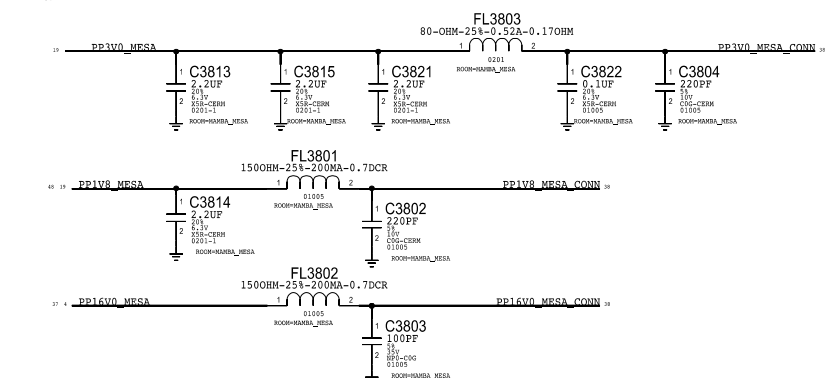
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CHESTNUT DISPLAY PMU
APN:338S1172



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FL3807
1500HM-25%-200MA-0.7DCR

11: SPT_AP_TO_MESA_MOST 1 2 SPT_AP_TO_MESA_MOST_CONN 18

R3807
511K
1712H
0T
01005
R00H-HANBA_MESA

01005
R00H-HANBA_MESA

C3816
56PF
210
0T0-CRG-CERN
01005
R00H-HANBA_MESA

R3809
1 2

11: SPT_AP_TO_MESA_SCLK 1 2 SPT_AP_TO_MESA_SCLK_CONN 18

R3808
511K
1712H
0T
01005
R00H-HANBA_MESA

01005
R00H-HANBA_MESA

C3817
56PF
210
0T0-CRG-CERN
01005
R00H-HANBA_MESA

R3811
1 2

11: SPT_MESA_TO_AP_MISO 1 2 SPT_MESA_TO_AP_MISO_CONN 18

R3811
1712H
01005
R00H-HANBA_MESA

01005
R00H-HANBA_MESA

C3818
56PF
210
0T0-CRG-CERN
01005
R00H-HANBA_MESA

R3801
1 2

11: MESA_TO_AP_INT 1 2 MESA_TO_AP_INT_CONN 18

R3801
691
1712H
0T
01005
R00H-HANBA_MESA

01005
R00H-HANBA_MESA

C3819
100PF
210
0T0-CRG
01005
R00H-HANBA_MESA

R3802
1 2

17: MESA_TO_BOOST_EN 1 2 MESA_TO_BOOST_EN_CONN 18

R3802
681
1712H
0T
01005
R00H-HANBA_MESA

01005
R00H-HANBA_MESA

C3801
100PF
210
0T0-CRG
01005
R00H-HANBA_MESA

FL3811
1500HM-25%-200MA-0.7DCR

13: AOP_TO_MESA_BLANKING_EN 1 2 AOP_TO_MESA_BLANKING_EN_CONN 18

01005

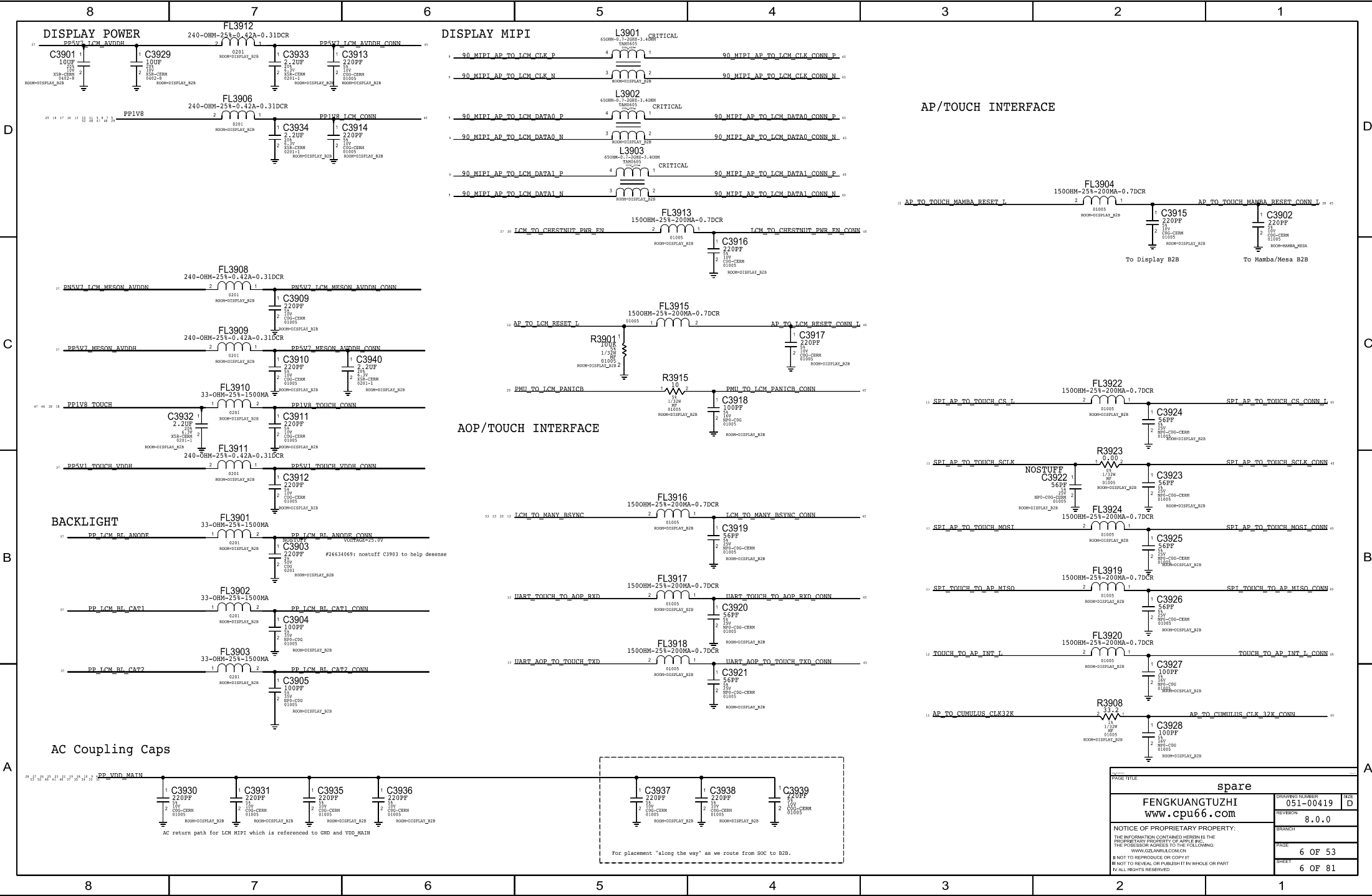
C3825
56PF
210
0T0-CRG-CERN
01005
R00H-HANBA_MESA

PCB layout showing the connection of the PP3801 module to the ICM-MAMBA_M5VNC_CONN. The diagram includes a 56PF capacitor, a 1000M-MAMBA_M5A connector, and various signal lines labeled with component names like PP3IU0_MESA_CONN, PP14V0_MESA_CONN, and PP1V0_TOUCH_TO_MAMBA_CONN. A GUARD ring is also shown.

The top diagram shows a circuit segment with a 1500OHM-25%-200MA-0.7DCR resistor (FL3804) in series with a 56PF capacitor (C3805) and a 56PF capacitor (C3806). The capacitor C3805 is connected to the MESA_TO_ICM_MDRIVE line, and C3806 is connected to the MESA_TO_ICM_MDRIVE_CONN_MESA line. The capacitor C3806 is also connected to the MESA_TO_ICM_MDRIVE line. The capacitor C3805 is connected to the MESA_TO_ICM_MDRIVE line. The capacitor C3806 is connected to the MESA_TO_ICM_MDRIVE_CONN_MESA line. The capacitor C3805 is connected to the MESA_TO_ICM_MDRIVE line. The capacitor C3806 is connected to the MESA_TO_ICM_MDRIVE_CONN_MESA line.

The bottom diagram shows a circuit segment with a 1500OHM-25%-200MA-0.7DCR resistor (FL3806) in series with a 100PF capacitor (C3826). The capacitor C3826 is connected to the MESA_TO_AOP_FDINT line, and the other end of the capacitor is connected to the MESA_TO_AOP_FDINT_CONN line. The capacitor C3826 is also connected to the MESA_TO_AOP_FDINT line. The capacitor C3826 is connected to the MESA_TO_AOP_FDINT_CONN line. The capacitor C3826 is connected to the MESA_TO_AOP_FDINT line. The capacitor C3826 is connected to the MESA_TO_AOP_FDINT_CONN line.

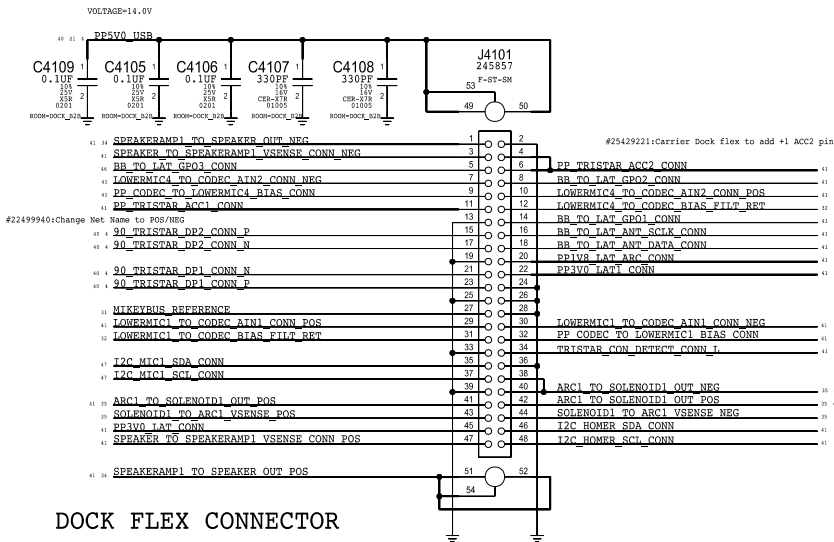
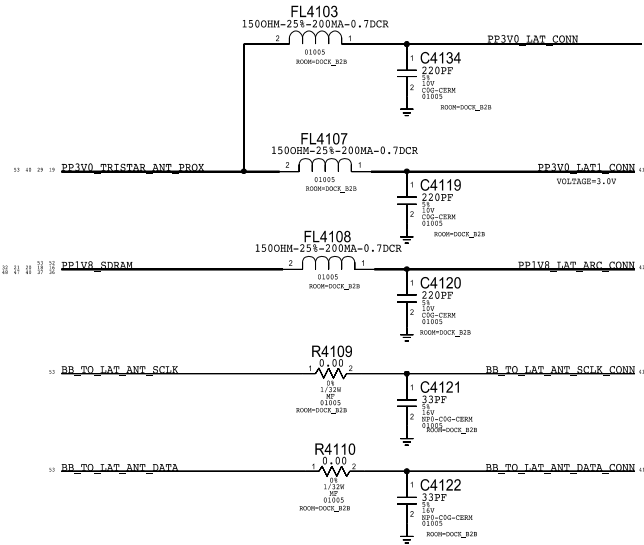
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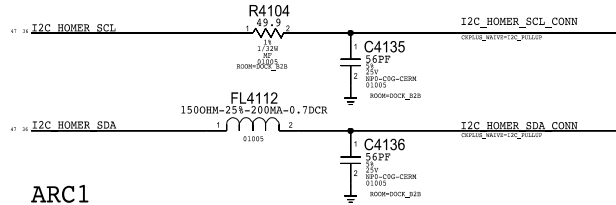
ANTENNA

Please loop in Matt Mow (Antenna Team)
when changing these components!

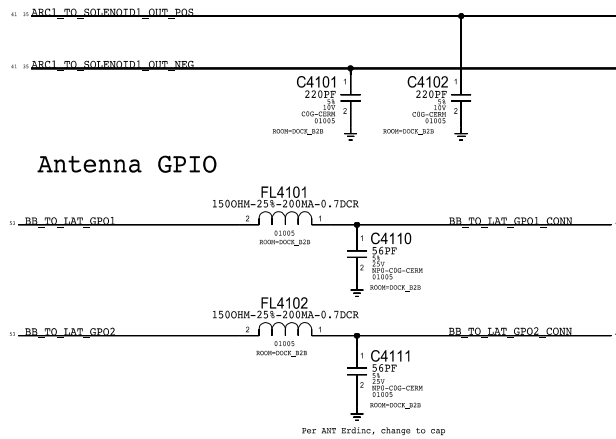


ARC CONTROL

#26118161: Update FL4104 to 49.9ohm

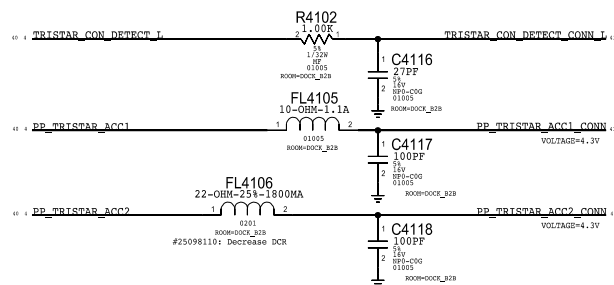


ARC1

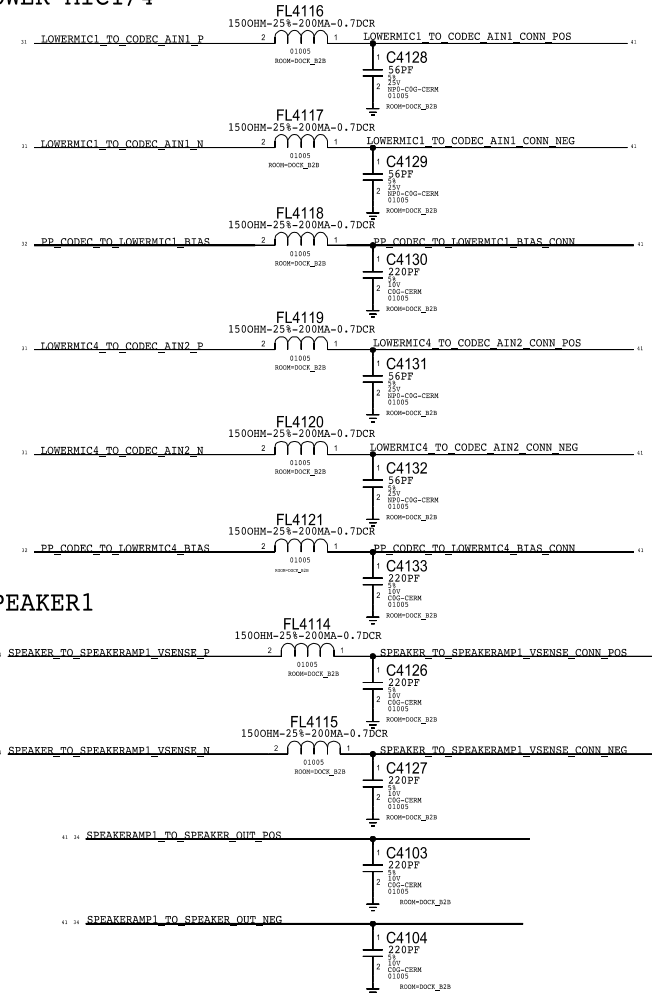


Antenna GPIO

TRISTAR



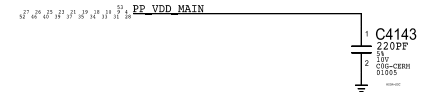
LOWER MIC1/4



SPEAKER1

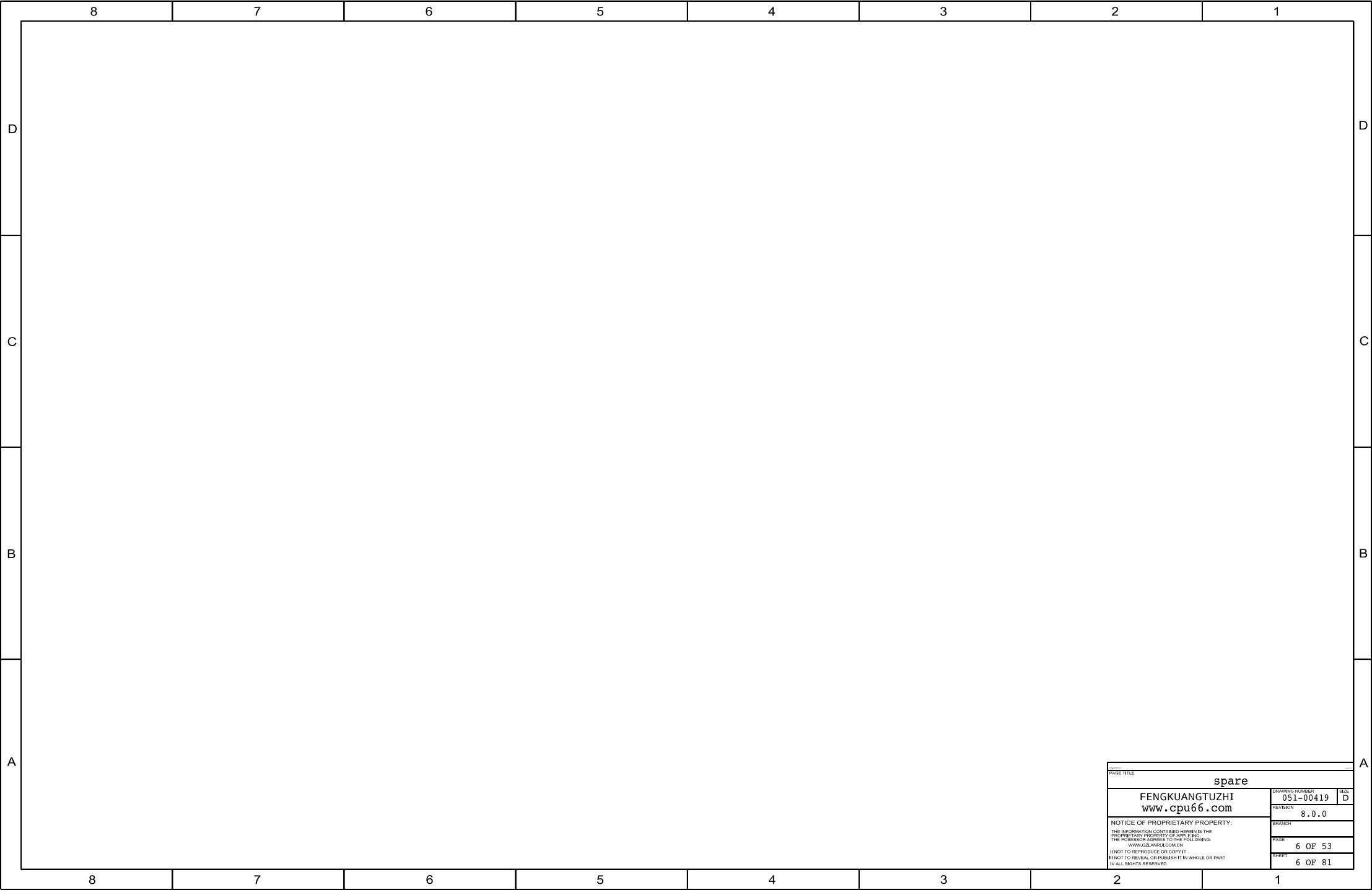
USB AC Coupling

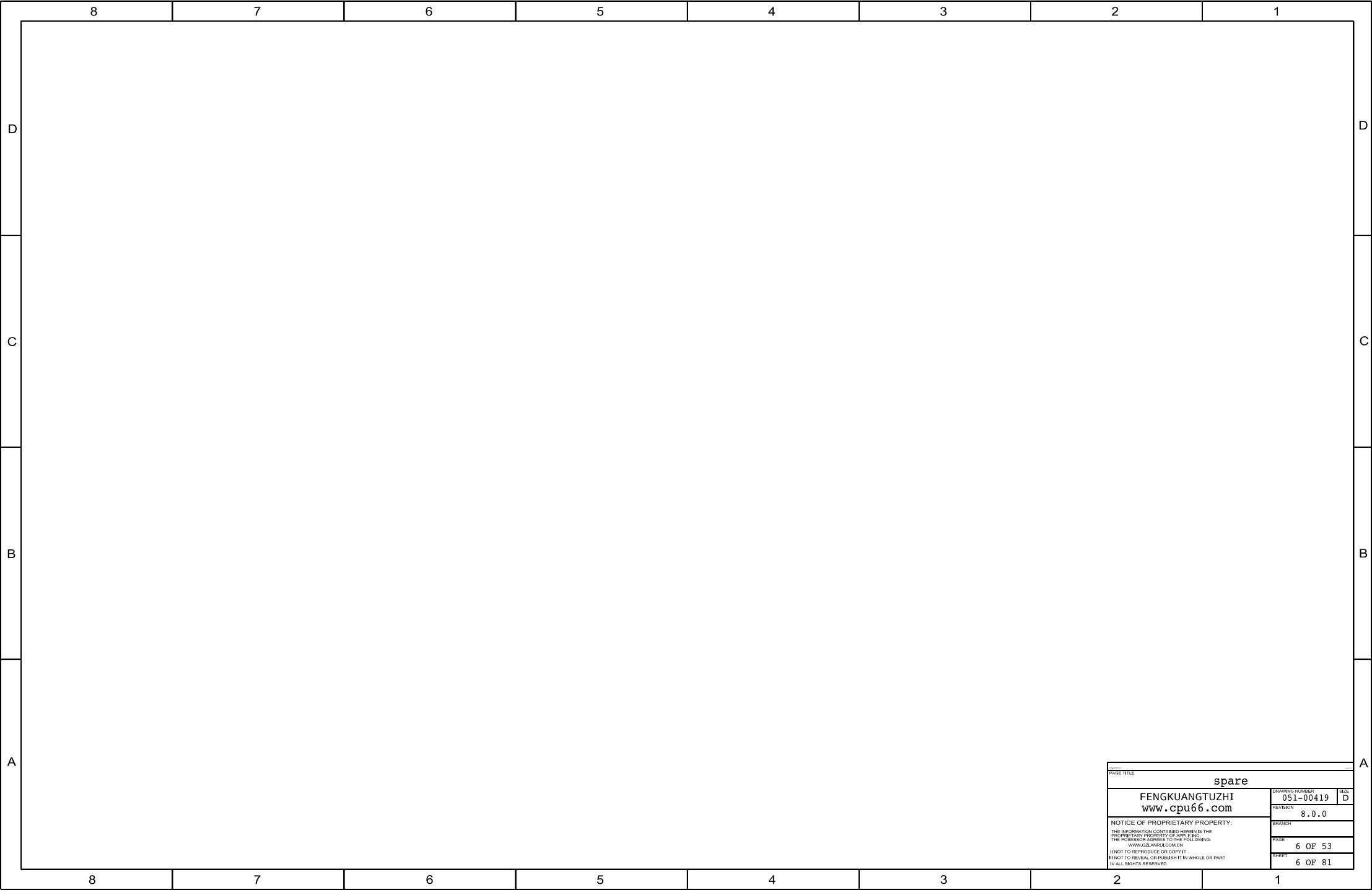
AC return path for USB pairs which is referenced to GND and VDD_MAIN



DOCK FLEX CONNECTOR

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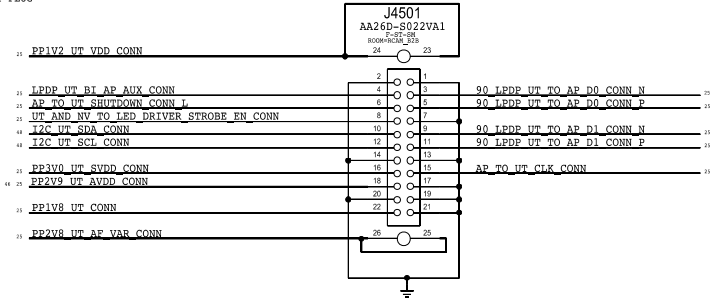




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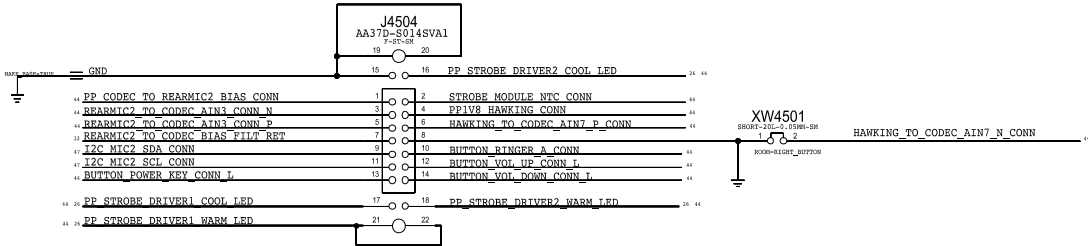
UTAH-C FLEX CONNECTOR

THIS ONE ----> 516800152 RCPT (USED ON MLB)
516800151 PLUG



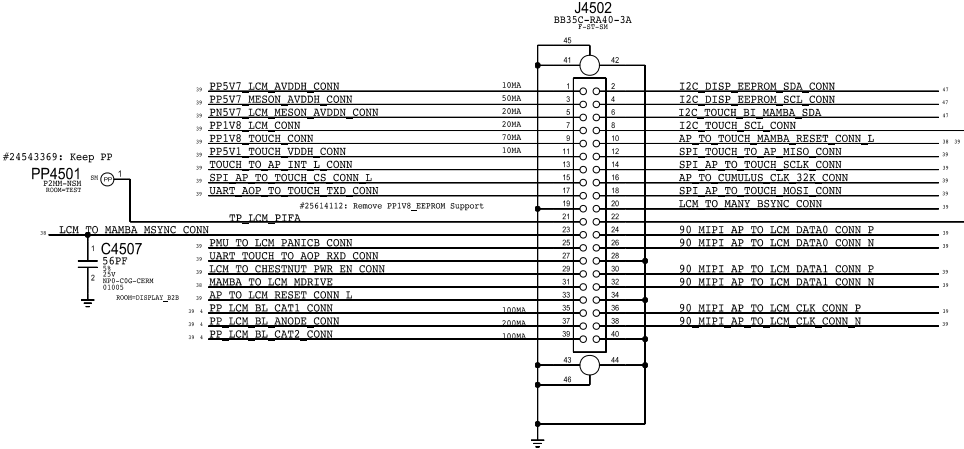
COMBINED BUTTON FLEX CONNECTOR

MLB APN: 516800150
FLEX APN: 516800149



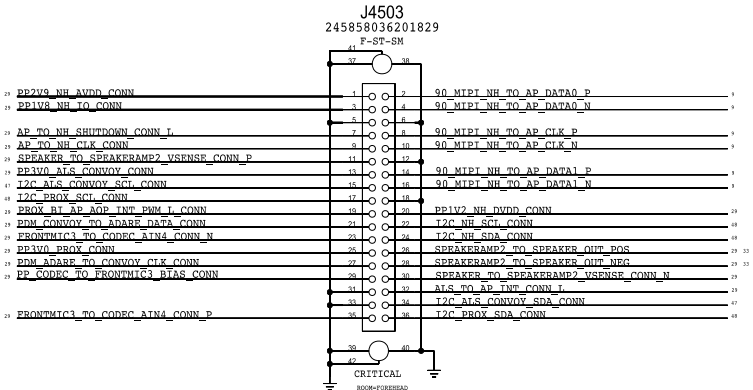
DISPLAY / TOUCH FLEX CONNECTOR

THIS ONE ----> 516800138 RCPT (USED ON MLB)
516800137 PLUG



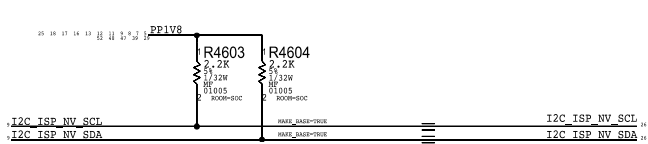
FOREHEAD FLEX CONNECTOR

THIS ONE ----> 516800146 RCPT (USED ON MLB)
516800145 PLUG

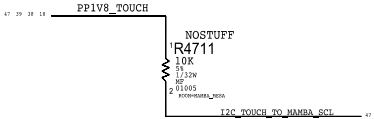


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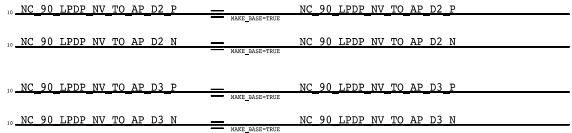
ISP I2C1



#26682438:Move to Page 46
TOUCH I2C



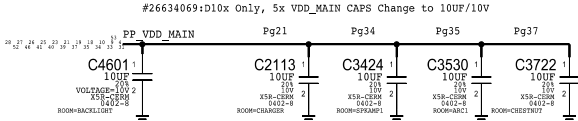
NC Nets in Small FF



UT B2B



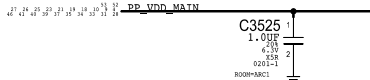
VDD_MAIN Cap



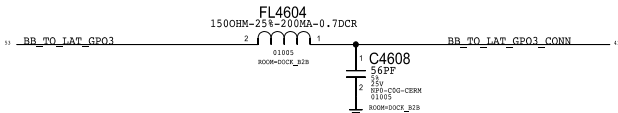
#25742582,Add back C3531 in layout at ARC



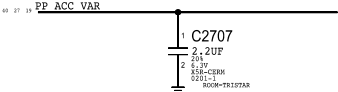
#26104509:C3525 Change to 10UF 0201 in DVT



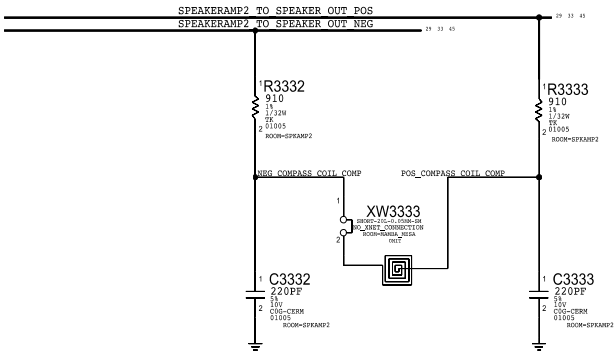
Dock B2B (Pg 41)



ACC Buck Caps



Top Speaker Compass Coil



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I2C0



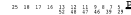
PRIV8 TOUCH



20 28 36 PPIV8 SDRAM



16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 10



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AOP
I2C

ISP
I2C0

#24544699: Support 1MHz

#24550735: ISP I2C0 PU

#24958320: Intentional R4815 Change
Reduce undershoot when Prox Driving

Intentional R4815 Change

I2C1
See page 46

I2C2

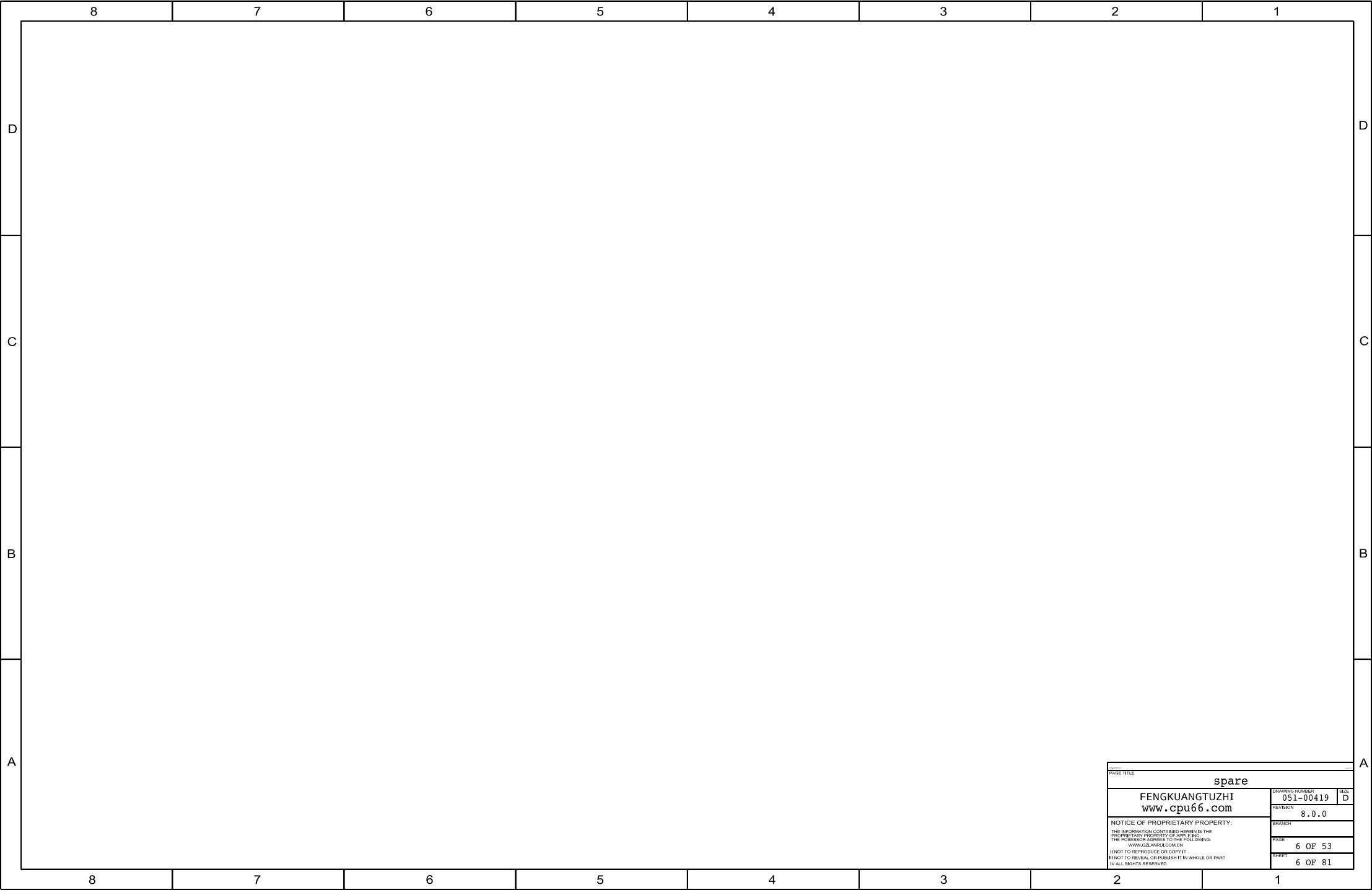
TO MAMBA/MESA FLEX

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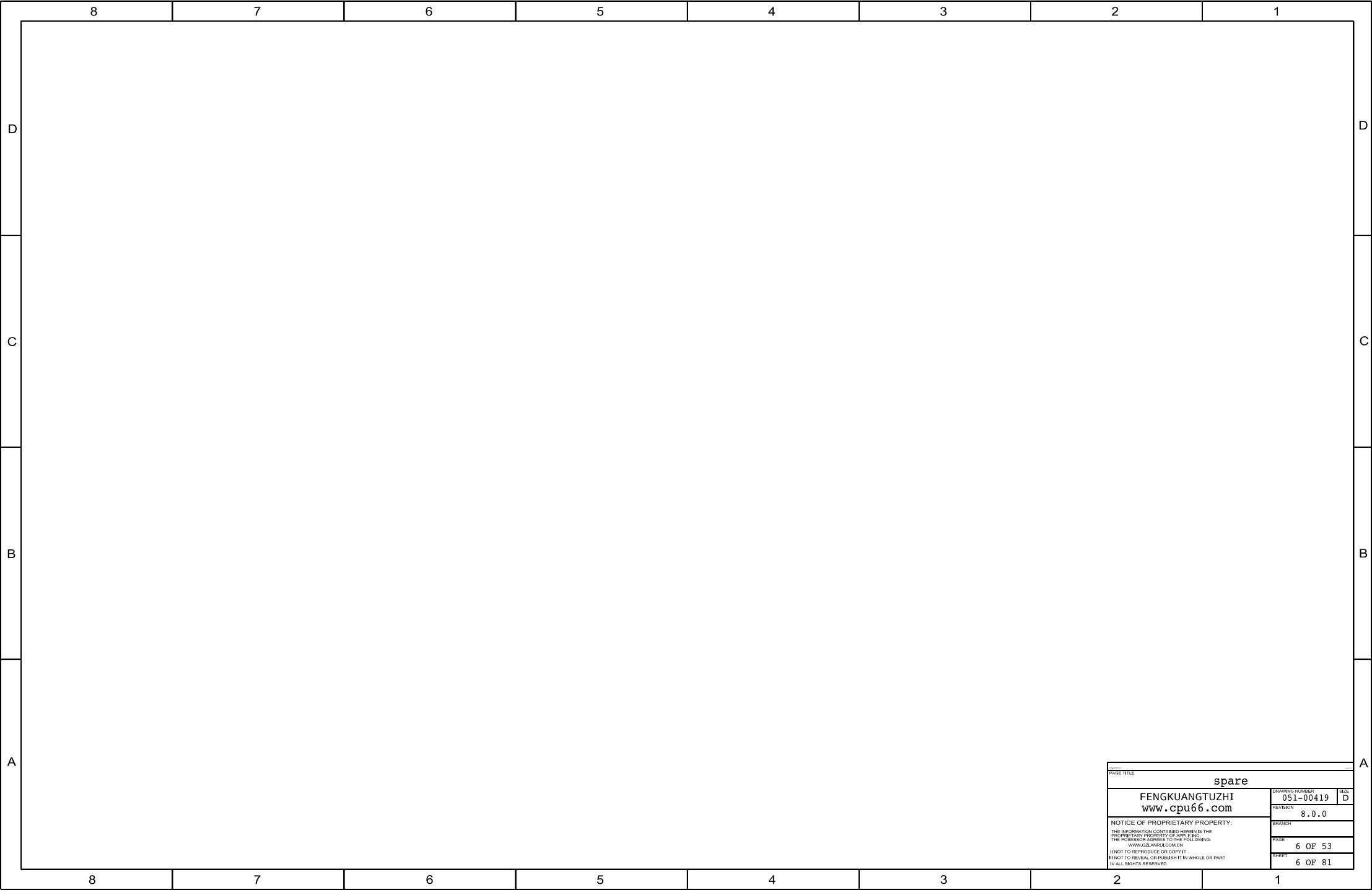
D1x I2C Table

Bus	Device	Binary	7-bit Address	8-bit Address	Max Speed
ISP I2C0 1MHz	SALT LAKE (PRIMARY)	0010000X	0x10	0x20	1 MHz
	SALT LAKE (SECONDARY)	0110000X	0x30	0x60	1 MHz
	GRUNBERG (STANDARD)	0011100X	0x1C	0x38	1 MHz
	GRUNBERG (SPECIAL ABSOLUTE R/W)	0011101X	0x1D	0x3A	1 MHz
	GRUNBERG (SPECIAL DELTA READ)	0011110X	0x1E	0x3C	1 MHz
	STROBE 1	1100011X	0x63	0xC6	1 MHz
ISP I2C1 1MHz	LAS VEGAS (PRIMARY)	0100000X	0x20	0x40	1 MHz
	LAS VEGAS (SECONDARY)	0110000X	0x30	0x60	1 MHz
	EDWIN	1100011X	0x63	0xC6	400 kHz
	STROBE 2	0000110X	0x06	0x0C	1 MHz
ISP I2C2 400kHz	CONCORD	0010000X	0x10	0x20	1 MHz
AOP I2C 1MHz	ARC DRIVER 1	100000YX	0x41	0x82	1 MHz
	PROX	1011000X	0x58	0xB0	1 MHz
	SPKAMP1 (L26)	100000YX	0x40	0x80	1 MHz
	TURTLE	0101100X	0x2c	0x58	400 kHz
	MESA	1100001X	0x61	0xC2	400 kHz
Touch I2C 600kHz	MAMBA	1100000X	0x60	0xC0	1 MHz
	MESON	1000000X	0x40	0x80	510 kHz
EEPROM I2C	EEPROM	1010001X	0x51	0xA2	400 kHz
AP I2C0 400kHz	BOOST	1110101X	0x75	0xEA	3.4 MHz
	TRISTAR	0011010X	0x1A	0x34	400 kHz
	BACKLIGHT 1	1100010X	0x62	0xC4	1 MHz
	CHESTNUT	0100111X	0x27	0x4E	400 kHz
AP I2C1 400kHz	ADELYN	1110100X	0x74	0xE8	400 kHz
	TIGRIS	1110101X	0x75	0xEA	400 kHz
	BACKLIGHT 2	1100010X	0x62	0xC4	1 MHz
	ALS	0101001X	0x29	0x52	400 kHz
AP I2C2 400kHz	CONVOY	0100001X	0x21	0x42	3.4 MHz
	CONVOY	0100010X	0x22	0x44	400 kHz
	SPKAMP 2 (L26)	100002YX	0x40	0x80	400 kHz
	DOCK FLEX (MIC1)	1010100X	0x54	0xA8	1 MHz
AP I2C3 120kHz	COMBINED BUTTON FLEX (MIC2)	1010100X	0x56	0xAC	1 MHz
	DISP EEPROM	1010001X	0x51	0xA2	400kHz
	SCHRODINGER (STANDARD)	0001110X	0xE	0x1C	1 MHz
Homer I2C 1MHz	SCHRODINGER (CAL REG'S)	0001111X	0xF	0x1D	1 MHz
	EEPROM (STANDARD)	1010000X	0x50	0xA0	
	EEPROM (CONFIG)	1010000X	0x50	0xA0	

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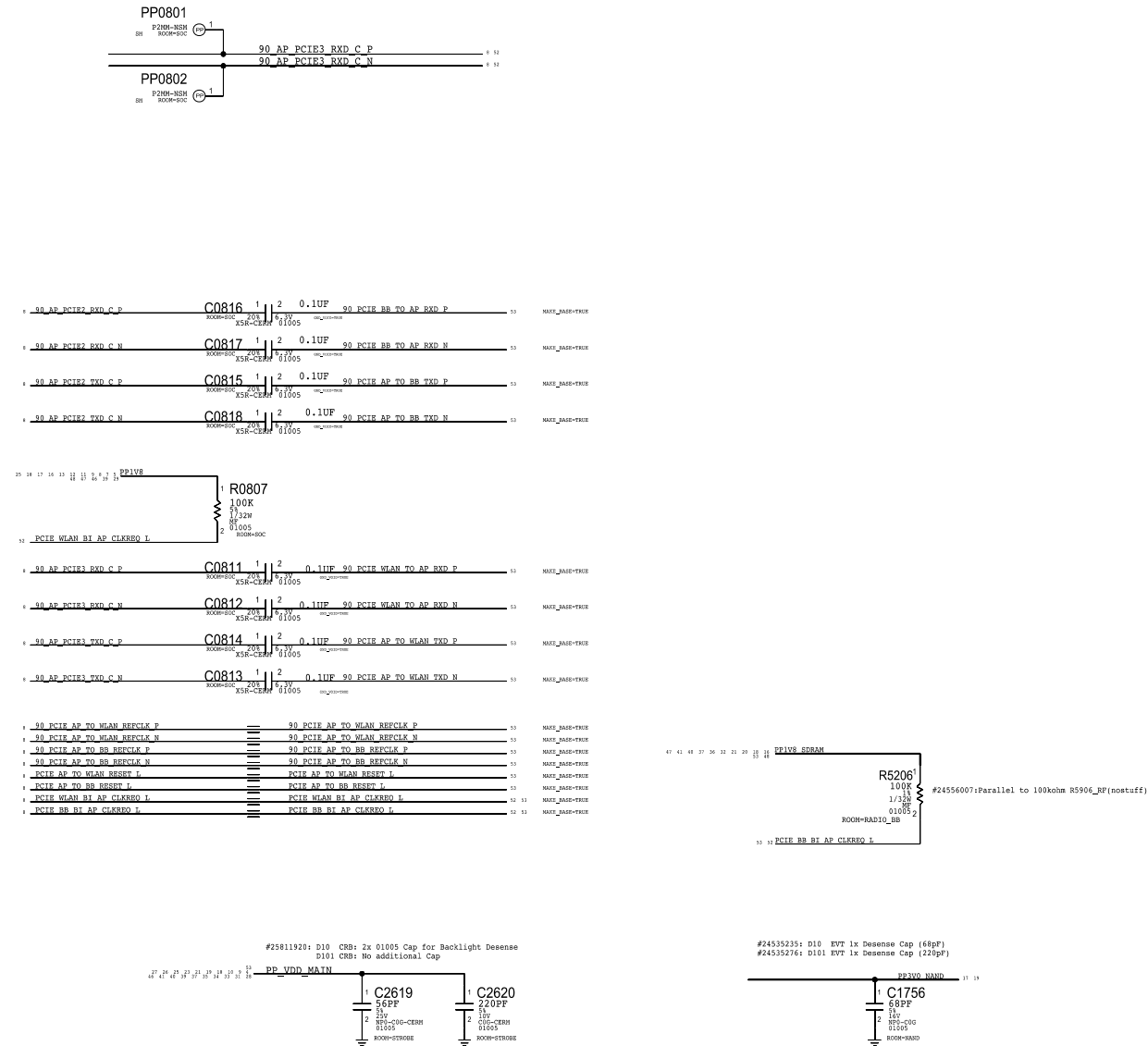


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This page contains items which differ accross all MLB designs
PCIe lanes



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1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.
2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

REV	ECN	DESCRIPTION OF REVISION	CK APPRO
8	0006400877	ENGINEERING RELEASED	2016-06-14

D1X WIFI MLB (PERENNIAL)

FEBRUARY 1, 2016

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2	76	PERENNIAL
3	77	WIFI FRONT-END

BOM OPTIONS:

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
13180648	1	CAP,CER,0.3PF,+/-0.05,01005	C7705_RF	CRITICAL	D10_JP
15280029	1	IND,1.10H,0H-Q,01005	R7703_RF	CRITICAL	D10_JP
13180893	1	CAP,CER,0.2PF,+/-0.05,01005	C7706_RF	CRITICAL	D10_JP
11780161	1	RES,WF,0 OHM,1/32W,01005	R7711_RF	CRITICAL	D10_JP
11780161	1	RES,WF,0 OHM,1/32W,01005	R7702_RF	CRITICAL	D10_JP
15281988	1	IND,1.50H,0H-Q,01005	R7704_RF	CRITICAL	D10_JP
13180404	1	CAP,3.9PF,+/-1.0PF,01005	R6711_RF	CRITICAL	D10_JP
15282061	1	IND,7.50H,0H-Q,01005	C6729_RF	CRITICAL	D10_JP
11780161	1	RES,WF,0 OHM,1/32W,01005	R7700_RF	CRITICAL	D10_JP
15282043	1	IND,6.20H,0H-Q,01005	C7702_RF	CRITICAL	D10_JP
15281998	1	IND,0.80H,0H-Q,01005	L7703_RF	CRITICAL	D10_JP
15282043	1	IND,6.20H,0H-Q,01005	L7701_RF	CRITICAL	D10_JP
11780161	1	RES,WF,0 OHM,1/32W,01005	R7701_RF	CRITICAL	D10_JP

NOSTUFF:C7729_RF,C7711_RF,C7709_RF,C7710_RF,C7707_RF,C7708_RF
C7700_RF,C7703_RF,C7704_RF

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
13180648	1	CAP,CER,0.3PF,+/-0.05,01005	C7705_RF	CRITICAL	D10_ROW
15280029	1	IND,1.10H,0H-Q,01005	R7703_RF	CRITICAL	D10_ROW
13180893	1	CAP,CER,0.2PF,+/-0.05,01005	C7706_RF	CRITICAL	D10_ROW
11780161	1	RES,WF,0 OHM,1/32W,01005	R7711_RF	CRITICAL	D10_ROW
11780161	1	RES,WF,0 OHM,1/32W,01005	R7702_RF	CRITICAL	D10_ROW
15281988	1	IND,2.40H,0H-Q,01005	R7704_RF	CRITICAL	D10_ROW
11780161	1	RES,WF,0 OHM,1/32W,01005	R6711_RF	CRITICAL	D10_ROW
15281953	1	IND,9.10H,0H-Q,01005	C6729_RF	CRITICAL	D10_ROW
11780161	1	RES,WF,0 OHM,1/32W,01005	R7700_RF	CRITICAL	D10_ROW
15282043	1	IND,6.20H,0H-Q,01005	C7702_RF	CRITICAL	D10_ROW
15281998	1	IND,0.80H,0H-Q,01005	L7703_RF	CRITICAL	D10_ROW
15282043	1	IND,6.20H,0H-Q,01005	L7701_RF	CRITICAL	D10_ROW
11780161	1	RES,WF,0 OHM,1/32W,01005	R7701_RF	CRITICAL	D10_ROW

NOSTUFF:C7729_RF,C7711_RF,C7709_RF,C7710_RF,C7707_RF,C7708_RF
C7700_RF,C7703_RF,C7704_RF

D101_WIFI:

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
13180648	1	CAP,CER,0.3PF,+/-0.05,01005	C7705_RF	CRITICAL	D101
15280029	1	IND,1.10H,0H-Q,01005	R7703_RF	CRITICAL	D101
13180893	1	CAP,CER,0.2PF,+/-0.05,01005	C7706_RF	CRITICAL	D101
11780161	1	RES,WF,0 OHM,1/32W,01005	R7711_RF	CRITICAL	D101
11780161	1	RES,WF,0 OHM,1/32W,01005	R7702_RF	CRITICAL	D101
15281988	1	IND,2.40H,0H-Q,01005	R7704_RF	CRITICAL	D101
13180404	1	CAP,CER,0.3PF,+/-0.05PF,01005	C7708_RF	CRITICAL	D101
11880724	1	RES,WF,0 OHM,1/20W,0201	R6711_RF	CRITICAL	D101
15282054	1	IND,9.10H,0H-Q,0201	C6729_RF	CRITICAL	D101
11780161	1	RES,WF,0 OHM,1/32W,01005	R7700_RF	CRITICAL	D101
15282043	1	IND,6.20H,0H-Q,01005	C7702_RF	CRITICAL	D101
15281998	1	IND,0.80H,0H-Q,01005	L7703_RF	CRITICAL	D101
15282043	1	IND,6.20H,0H-Q,01005	L7701_RF	CRITICAL	D101
11780161	1	RES,WF,0 OHM,1/32W,01005	R7701_RF	CRITICAL	D101

NOSTUFF:C7729_RF,C7711_RF,C7709_RF,C7710_RF,C7707_RF,C7708_RF
C7700_RF,C7703_RF,C7704_RF

D11_JP:

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152800273	1	IND,0.60H,0H-Q,01005	R7703_RF	CRITICAL	D11_JP
15281976	1	IND,0.70H,0H-Q,01005	R7711_RF	CRITICAL	D11_JP
13180400	1	CAP,CER,3.5PF+/-0.1,01005	R7702_RF	CRITICAL	D11_JP
15281988	1	IND,3.00H,2.20H,0H-Q,01005	R7704_RF	CRITICAL	D11_JP
13180648	1	CAP,CER,0.3PF,+/-0.05PF,01005	C7708_RF	CRITICAL	D11_JP
13180553	1	CAP,3.9PF,+/-1.0PF,0201,01-Q	R6711_RF	CRITICAL	D11_JP
15282055	1	IND,7.50H,0H-Q,0201	C6729_RF	CRITICAL	D11_JP
11780161	1	RES,WF,0 OHM,1/32W,01005	R7700_RF	CRITICAL	D11_JP
11780161	1	RES,WF,0 OHM,1/32W,01005	L7700_RF	CRITICAL	D11_JP
15281853	1	IND,9.10H,0H-Q,01005	L7703_RF	CRITICAL	D11_JP
11780161	1	RES,WF,0 OHM,1/32W,01005	R7701_RF	CRITICAL	D11_JP
13180893	1	CAP,CER,0.2PF,+/-0.05PF,01005	C7705_RF	CRITICAL	D11_JP
13180893	1	CAP,CER,0.2PF,+/-0.05PF,01005	C7729_RF	CRITICAL	D11_JP

NOSTUFF:C7706_RF,C7711_RF,C7709_RF,C7710_RF,C7707_RF,C7708_RF
C7700_RF,C7702_RF,C7703_RF,C7704_RF

D11_ROW:

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152800273	1	IND,0.60H,0H-Q,01005	R7703_RF	CRITICAL	D11_ROW
15281976	1	IND,0.70H,0H-Q,01005	R7711_RF	CRITICAL	D11_ROW
13180400	1	CAP,CER,3.5PF+/-0.1,01005	R7702_RF	CRITICAL	D11_ROW
15281988	1	IND,3.00H,2.20H,0H-Q,01005	R7704_RF	CRITICAL	D11_ROW
11880724	1	RES,WF,0 OHM,1/20W,0201	R6711_RF	CRITICAL	D11_ROW
15282054	1	IND,9.10H,0H-Q,0201	C6729_RF	CRITICAL	D11_ROW
11780161	1	RES,WF,0 OHM,1/32W,01005	R7700_RF	CRITICAL	D11_ROW
11780161	1	RES,WF,0 OHM,1/32W,01005	L7700_RF	CRITICAL	D11_ROW
15281853	1	IND,9.10H,0H-Q,01005	L7703_RF	CRITICAL	D11_ROW
11780161	1	RES,WF,0 OHM,1/32W,01005	R7701_RF	CRITICAL	D11_ROW
13180893	1	CAP,CER,0.2PF,+/-0.05PF,01005	C7705_RF	CRITICAL	D11_ROW
13180893	1	CAP,CER,0.2PF,+/-0.05PF,01005	C7729_RF	CRITICAL	D11_ROW

NOSTUFF:C7706_RF,C7711_RF,C7709_RF,C7710_RF,C7707_RF,C7708_RF
C7700_RF,C7702_RF,C7703_RF,C7704_RF

D111_WIFI:

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152800273	1	IND,0.60H,0H-Q,01005	R7703_RF	CRITICAL	D111
15281976	1	IND,0.70H,0H-Q,01005	R7711_RF	CRITICAL	D111
13180400	1	CAP,CER,3.5PF+/-0.1,01005	R7702_RF	CRITICAL	D111
15281988	1	IND,3.00H,2.20H,0H-Q,01005	R7704_RF	CRITICAL	D111
11880724	1	RES,WF,0 OHM,1/20W,0201	R6711_RF	CRITICAL	D111
15282054	1	IND,9.10H,0H-Q,0201	C6729_RF	CRITICAL	D111
11780161	1	RES,WF,0 OHM,1/32W,01005	R7700_RF	CRITICAL	D111
11780161	1	RES,WF,0 OHM,1/32W,01005	L7700_RF	CRITICAL	D111
15281853	1	IND,9.10H,0H-Q,01005	L7703_RF	CRITICAL	D111
11780161	1	RES,WF,0 OHM,1/32W,01005	R7701_RF	CRITICAL	D111
13180893	1	CAP,CER,0.2PF,+/-0.05PF,01005	C7705_RF	CRITICAL	D111
13180893	1	CAP,CER,0.2PF,+/-0.05PF,01005	C7729_RF	CRITICAL	D111

NOSTUFF:C7706_RF,C7711_RF,C7709_RF,C7710_RF,C7707_RF,C7708_RF
C7700_RF,C7702_RF,C7703_RF,C7704_RF

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POWER

15	1	RF VDD MAIN
15	1	RFIVE SUPPLY

CLOCKS

15	1	SHUDDLE TO MAIN CLK12K
----	---	------------------------

CONTROL

15	1	RFU TO MAIN SWL SW
15	1	RFU TO RF SWL SW
15	1	RFU TO RFU BOOT WAKE
15	1	AP TO RF WAKE

WLAN PCIE

15	1	50 PCIE AP TO MAIN SERIAL P
15	1	50 PCIE AP TO MAIN SERIAL H
15	1	50 PCIE AP TO MAIN TXD P
15	1	50 PCIE AP TO MAIN TXD H
15	1	50 PCIE MAIN TO AP RXD P
15	1	50 PCIE MAIN TO AP RXD H
15	1	PCIE AP TO MAIN RESET P
15	1	PCIE MAIN ST AP CHARGED P
15	1	MAIN TO RFU BOOT WAKE
15	1	AP TO WLAN DEVICE WAKE

WLAN UART

15	1	UART MAIN TO AP RXD
15	1	UART AP TO MAIN TXD
15	1	UART MAIN TO AP CTS L
15	1	UART AP TO MAIN RTS L

BLUETOOTH UART

15	1	UART AP TO RF TXD
15	1	UART RF TO AP RXD
15	1	UART AP TO RF RTS L
15	1	UART RF TO AP CTS L

AOP

15	1	AP TO WLAN CONTEXT A
15	1	AP TO WLAN CONTEXT B

AUDIO

15	1	I2S AP TO RF ICLK
15	1	I2S AP TO RF ICLK
15	1	I2S RF TO AP DIN
15	1	I2S AP TO RF DOUT

COEX

15	1	UART RF TO MAIN COEX
15	1	UART MAIN TO RF COEX

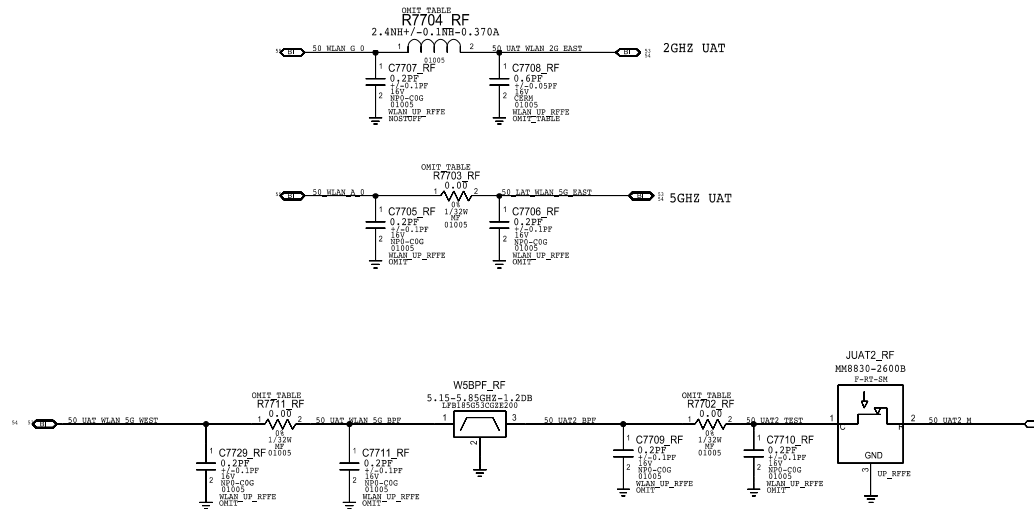
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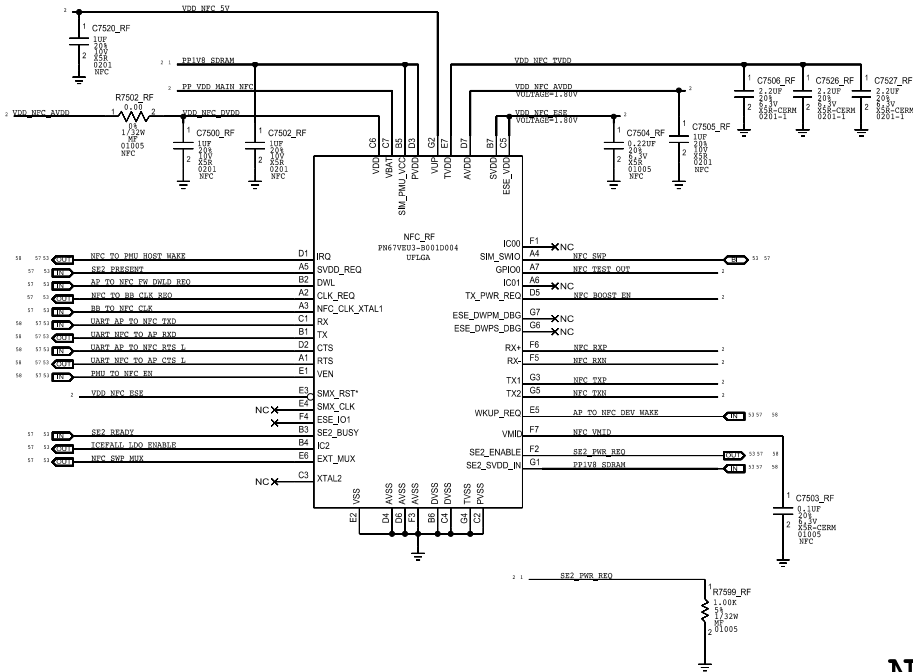
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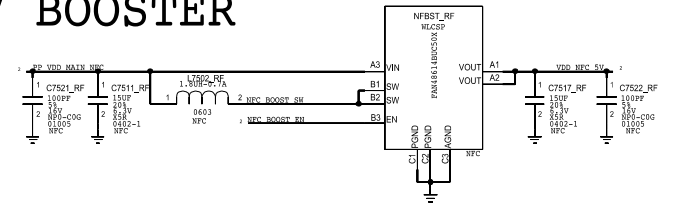
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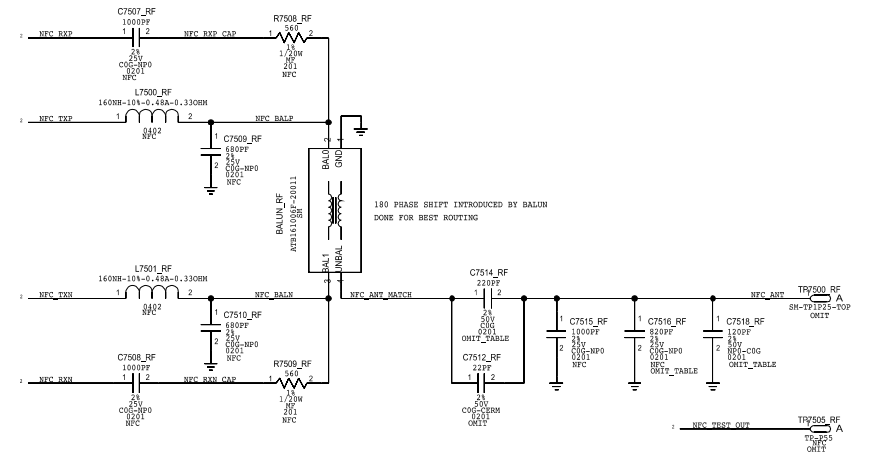
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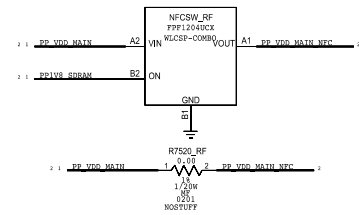
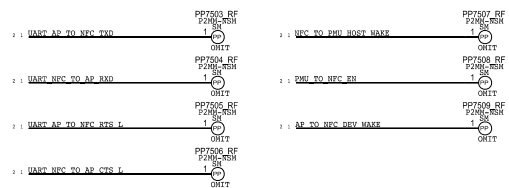
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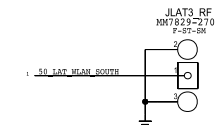
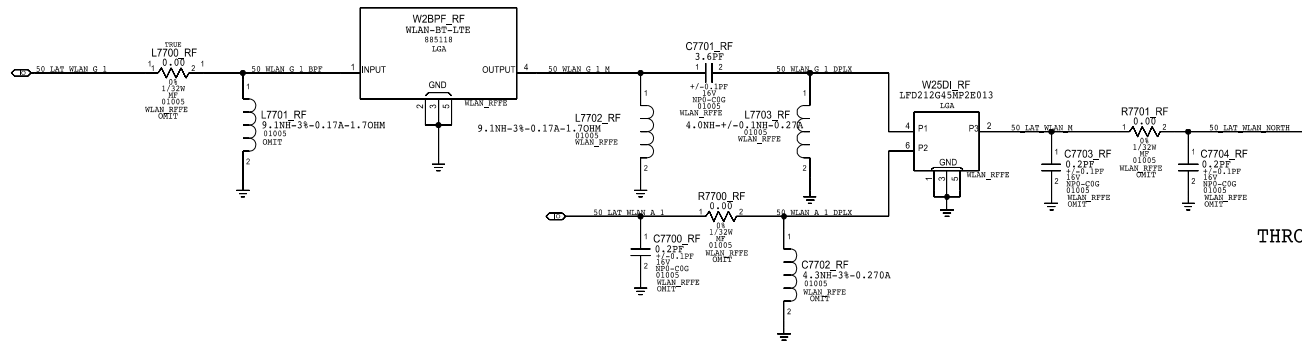
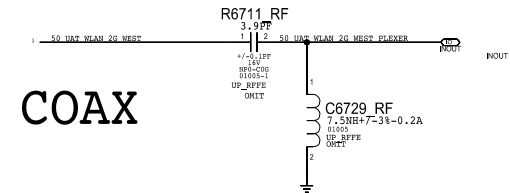
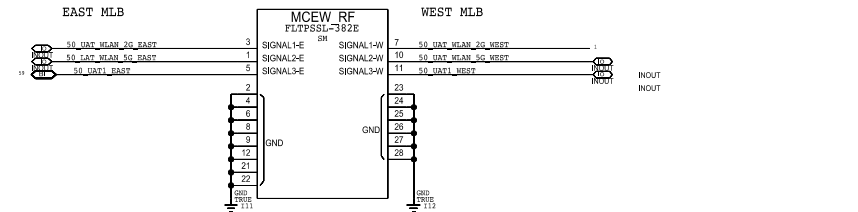
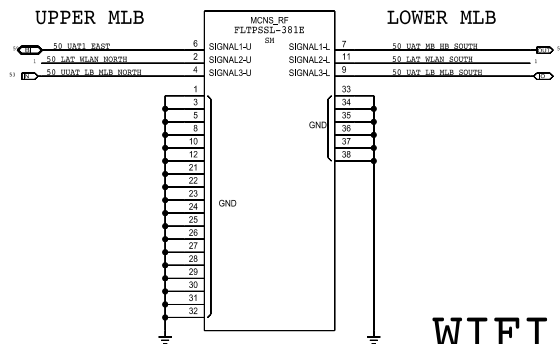
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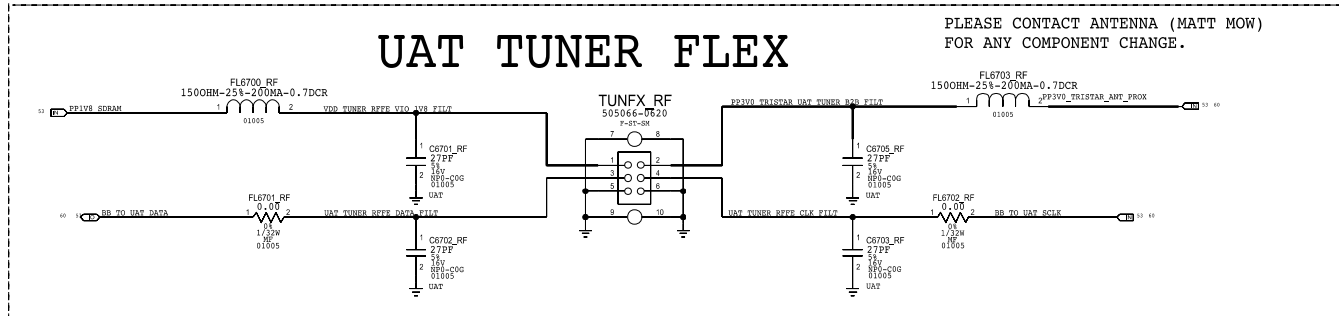
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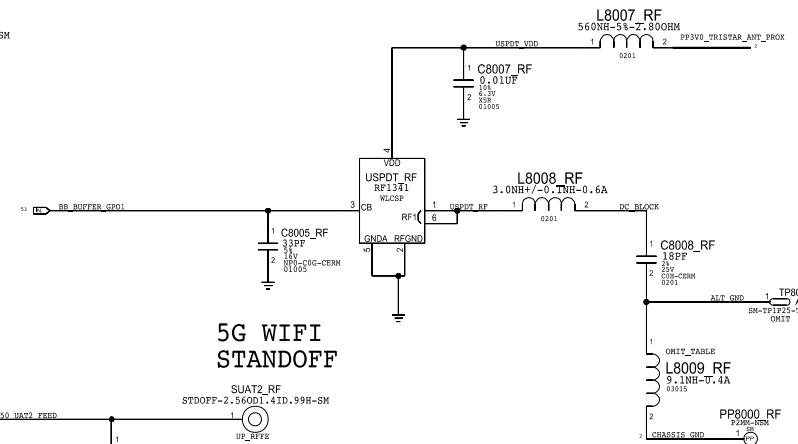
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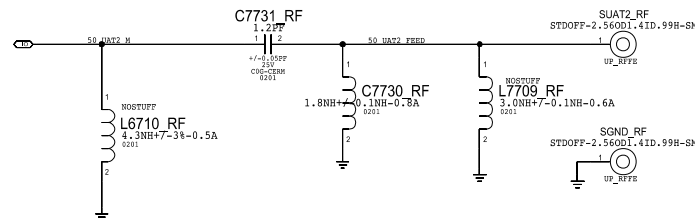
ADD REV ID FOR D10/D11 HERE



LB/MLB/GNSS/MB/HB
STANDOFF



5G WIFI STANDOFF



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BOM LIST

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1860	1	LONGER PATH INDUCTOR	L8009_RF	CRITICAL	INBRP
152S0570	1	3.0 MH, 83015	L8009_RF	CRITICAL	HOLNBRF

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LAST_MODIFICATION=Wed Jun 8 12:54:09 2016

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65	<CSA_PAGE4>	PMU: SWITCHERS AND LDOS	<SYNC_MASTER4>	<SYNC_DATE4>
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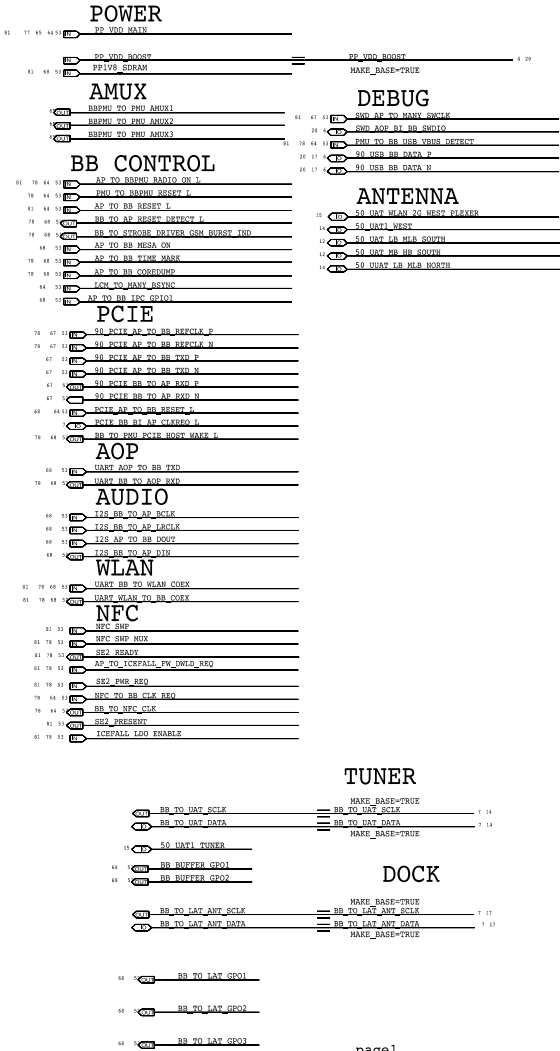
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BOM: 939-00826

ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
19788595	19788592	ALTERNATE	Y501_RF	1992 RES XTAL
19788598	19788593	ALTERNATE	Y501_RF	1992 RES XTAL
138600101	138600095	ALTERNATE	ALL	TRANSISTOR CAP
335805913	33580494	ALTERNATE	EPROM_RF	IC EPROM
373805253	353809321	ALTERNATE	SWPWA_RF	IC SWITCH SPDT
125805235	125800234	ALTERNATE	UPPD0_RF	ICOLARUF

ALL:C5616_RF-C5618_RF,C5632_RF-C5634_RF

AP CONNECTIONS



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BOM OPTIONS:

LMBRF:

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353690723	2	HLA PAD	HLA0A_RP	CRITICAL	LMBRF
117690602	1	HLA PAD LAY OFFICE MATCH	R7105_RP	CRITICAL	LMBRF
15262042	1	HLA PAD LAY OFFICE MATCH	R7106_RP	CRITICAL	LMBRF
353690627	1	HLA SAN	HLA0B_RP	CRITICAL	LMBRF
117690602	2	HLA SAN OFFICE MATCH	R6710_RP	CRITICAL	LMBRF
155890139	1	PPR012000	PPR01_RP	CRITICAL	LMBRF
118090643	1	HLA_RP_4-100_000_0100	R7506_RP	CRITICAL	LMBRF
155890193	1	FLTR_001A002_1A-00-00_00A_0002_0005	UAT01_RP	CRITICAL	LMBRF
155890158	1	FLTR_001A002_1A-00-00_00A000_0005	UPP01_RP	CRITICAL	LMBRF
357690284	1	IC_000000 BLANKET_MATCH11_ALMA025	SE2_RP	CRITICAL	LMBRF
13869739	1	CMF_107_0201	C7101_RP	CRITICAL	LMBRF
13869739	1	CMF_107_0201	C7528_RP	CRITICAL	LMBRF
13289314	1	CMF_0_107_0100	C7501_RP	CRITICAL	LMBRF
13869739	1	CMF_107_0201	C7523_RP	CRITICAL	LMBRF
13869739	1	CMF_107_0201	C7524_RP	CRITICAL	LMBRF
138690032	1	CMF_2_107_0201	C7529_RP	CRITICAL	LMBRF
138690032	1	CMF_2_107_0201	C7530_RP	CRITICAL	LMBRF
131090217	2	CMF_10000_0100	C7531_RP	CRITICAL	LMBRF
118090627	1	HLA_00000_0100	R7511_RP	CRITICAL	LMBRF
353690626	1	HLA_00A_002	SE2100_RP	CRITICAL	LMBRF
131090630	1	CMF_CM_0001CM_107F_1A_1A0_01005	C6345_RP	CRITICAL	LMBRF
131090641	1	CMF_CM_0001_007F_1+0_01_010_0101_01+0	C6348_RP	CRITICAL	LMBRF
15262006	1	HLA_FLTR_0_200_1+0_000_00+0_0001	S6322_RP	CRITICAL	LMBRF
131090630	1	CMF_CM_0001CM_107F_1A_1A0_01005	C6315_RP	CRITICAL	LMBRF
15262006	1	HLA_FLTR_0_200_1+0_000_00+0_0001	S6305_RP	CRITICAL	LMBRF
131090641	1	CMF_CM_0001_007F_1+0_007F_010_0101_01+0	C6306_RP	CRITICAL	LMBRF
131090630	1	CMF_CM_0001CM_107F_1A_1A0_01005	C6106_RP	CRITICAL	LMBRF
15261951	1	HLA_1_100_1_1A_0101	R6406_RP	CRITICAL	LMBRF
15262000	1	HLA_2_100_1_1A_0101	R7104_RP	CRITICAL	LMBRF
131090001	1	CMF_CM_0_107_0101	C7119_RP	CRITICAL	LMBRF
118090724	1	HLA_RP_0000_1000_0101	R6703_RP	CRITICAL	LMBRF
118090724	1	HLA_RP_0000_1000_0101	R6708_RP	CRITICAL	LMBRF
131090643	1	CMF_CM_CM_00_0_007F_1+0_007F_010_0101	C7123_RP	CRITICAL	LMBRF
15262002	1	HLA_2_100_1+0_100_0000_0101_00+0	R6405_RP	CRITICAL	LMBRF
131090337	1	CMF_1_100_1+0_1007_010_0101_00	C6410_RP	CRITICAL	LMBRF
118090724	1	HLA_RP_0000_1000_0101	R6408_RP	CRITICAL	LMBRF
131090715	1	CMF_CM_CM_0_107F_1+0_107F_010_0101_00	C6416_RP	CRITICAL	LMBRF
118090608	1	HLA_RP_1A_000_1+1_100_01005	R5911_RP	CRITICAL	LMBRF
15261356	1	HLA_1000_1A_01000_01+0_0101	C6413_RP	CRITICAL	LMBRF

NOLMBRF:

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131090444	1	DCS/PCS 00 FILTER MATCH	R6301_RP	CRITICAL	NOLMBRF
15262020	1	DCS/PCS 00 FILTER MATCH	S6310_RP	CRITICAL	NOLMBRF
155890149	1	DCS/PCS 00 FILTER	GM001_RP	CRITICAL	NOLMBRF
15262005	1	DCS/PCS 00 MATCH (00A)	S6318_RP	CRITICAL	NOLMBRF
131090319	2	DCS/PCS 00 MATCH (00A)	C6332_RP	CRITICAL	NOLMBRF
131090630	1	DCS/PCS 00 MATCH (00A)	C6340_RP	CRITICAL	NOLMBRF
15262005	1	DCS/PCS 00 MATCH (00A)	S6319_RP	CRITICAL	NOLMBRF
131090305	1	DCS/PCS 00 MATCH (00A)	C6333_RP	CRITICAL	NOLMBRF
131090630	1	DCS/PCS 00 MATCH (00A)	C6341_RP	CRITICAL	NOLMBRF
155890183	1	GM0012000	PPR01_RP	CRITICAL	NOLMBRF
155890193	1	FLTR_001A002_1A-00-00_00A_0002_0005	UAT01_RP	CRITICAL	NOLMBRF
155890234	1	FLTR_001A002_1A-00-00_00A000_0005	UPP01_RP	CRITICAL	NOLMBRF
131090724	1	HLA_RP_0000_1000_0101	R6404_RP	CRITICAL	NOLMBRF
15262004	2	HLA_2_100_1+0_100_0000_0101	R7109_RP	CRITICAL	NOLMBRF
152690157	1	1_100_1+0_0100_1_1A_010+0_0101	R6703_RP	CRITICAL	NOLMBRF
131090949	1	1007_0201_010	R6708_RP	CRITICAL	NOLMBRF
131090445	1	CMF_CM_107F_1A_107F_0101_01+0	R6606_RP	CRITICAL	NOLMBRF

D10 SPECIFIC:

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131090278	1	CMF_CM_CM_107F_1+0_107F_010_0101_01+0	C7120_RP	CRITICAL	D10

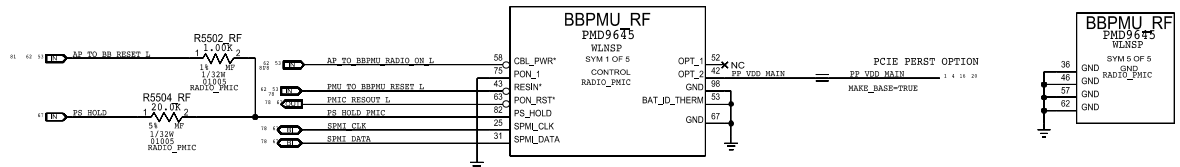
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131090425	1	CMF_CM_CM_0_107F_1+0_007F_010_0101_01+0	C7125_RP	CRITICAL	D11

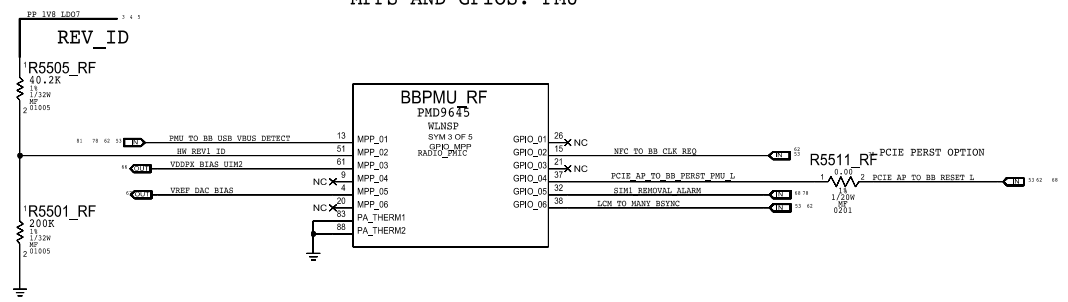
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PMU: CONTROL AND CLOCKS

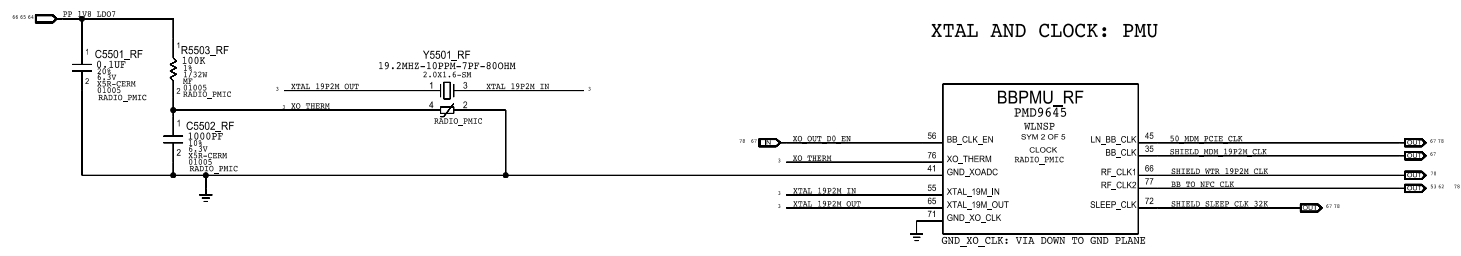
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MPPS AND GPIOs: PMU

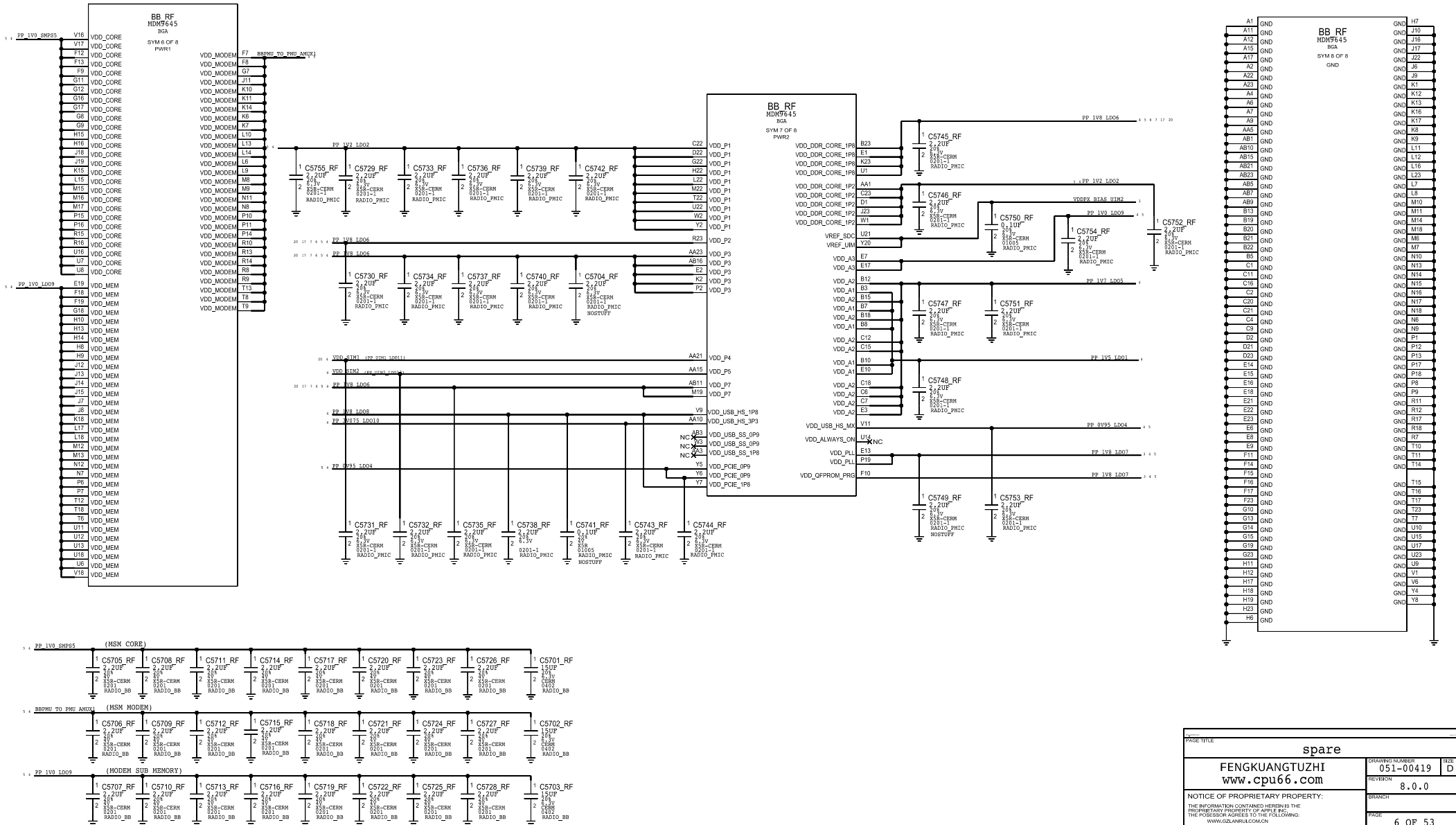


XTAL AND CLOCK: PMU



HW REV ID	R5505	R5501	REVISION
0.10V	887K	51.1K	DEV1
0.20V	422K	51.1K	DEV2
0.30V	255K	51.1K	DEV 2.1
0.40V	180K	51.1K	DEV 3
0.50V	124K	51.1K	T181
0.60V	102K	51.1K	PP/P1
0.70V	82.5K	51.1K	DEV4
0.80V	63.4K	51.1K	P2
0.90V	51.1K	51.1K	DEV5
1.00V	51.1K	63.4K	EVT
1.10V	51.1K	82.5K	EVT DOE
1.20V	50.0K	100K	EVT ALT/CARBON
1.30V	39.0K	100K	DEV6
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1.60V	6.34K	51.1K	PVT

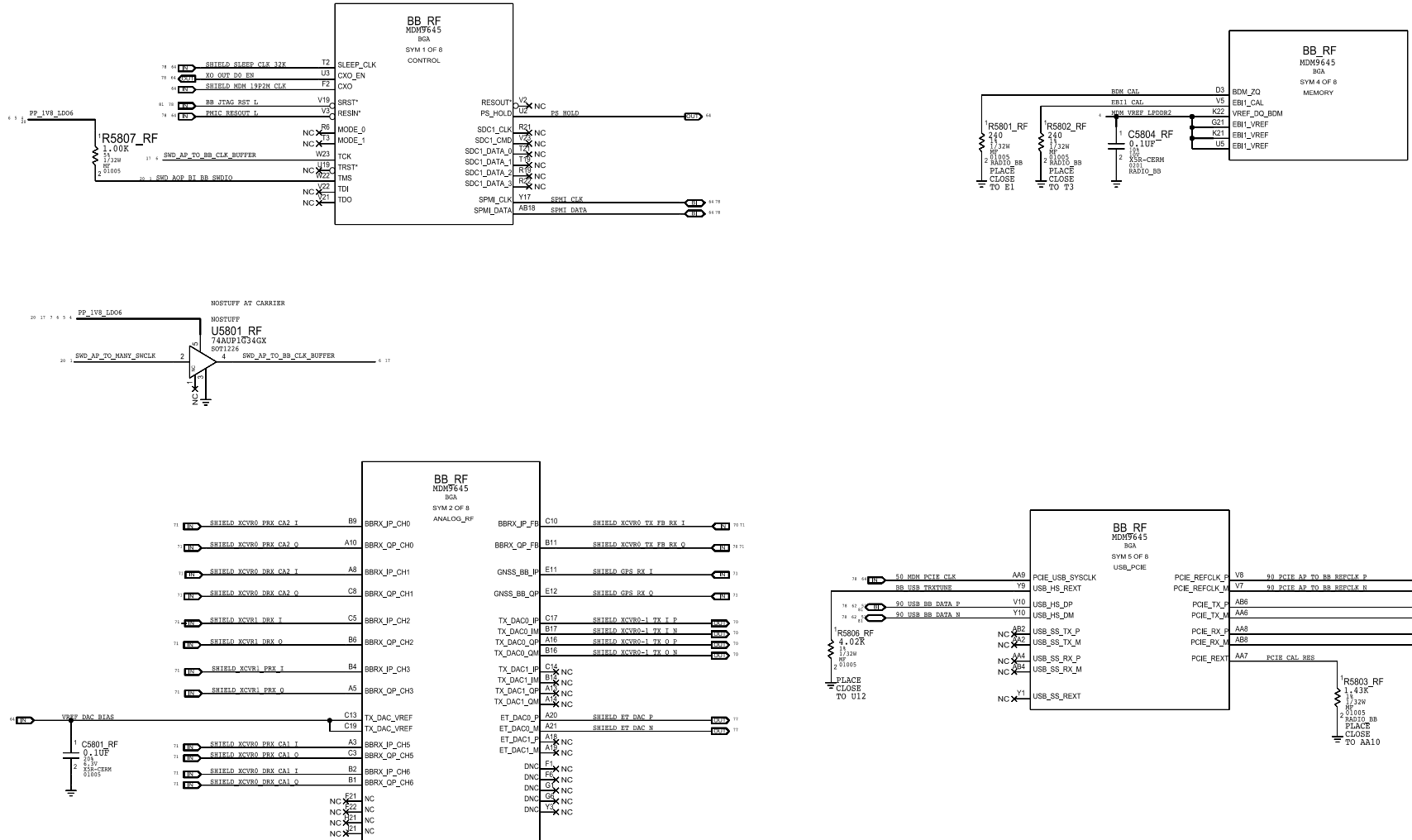
BASEBAND: POWER



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BASEBAND: CONTROL AND INTERFACES

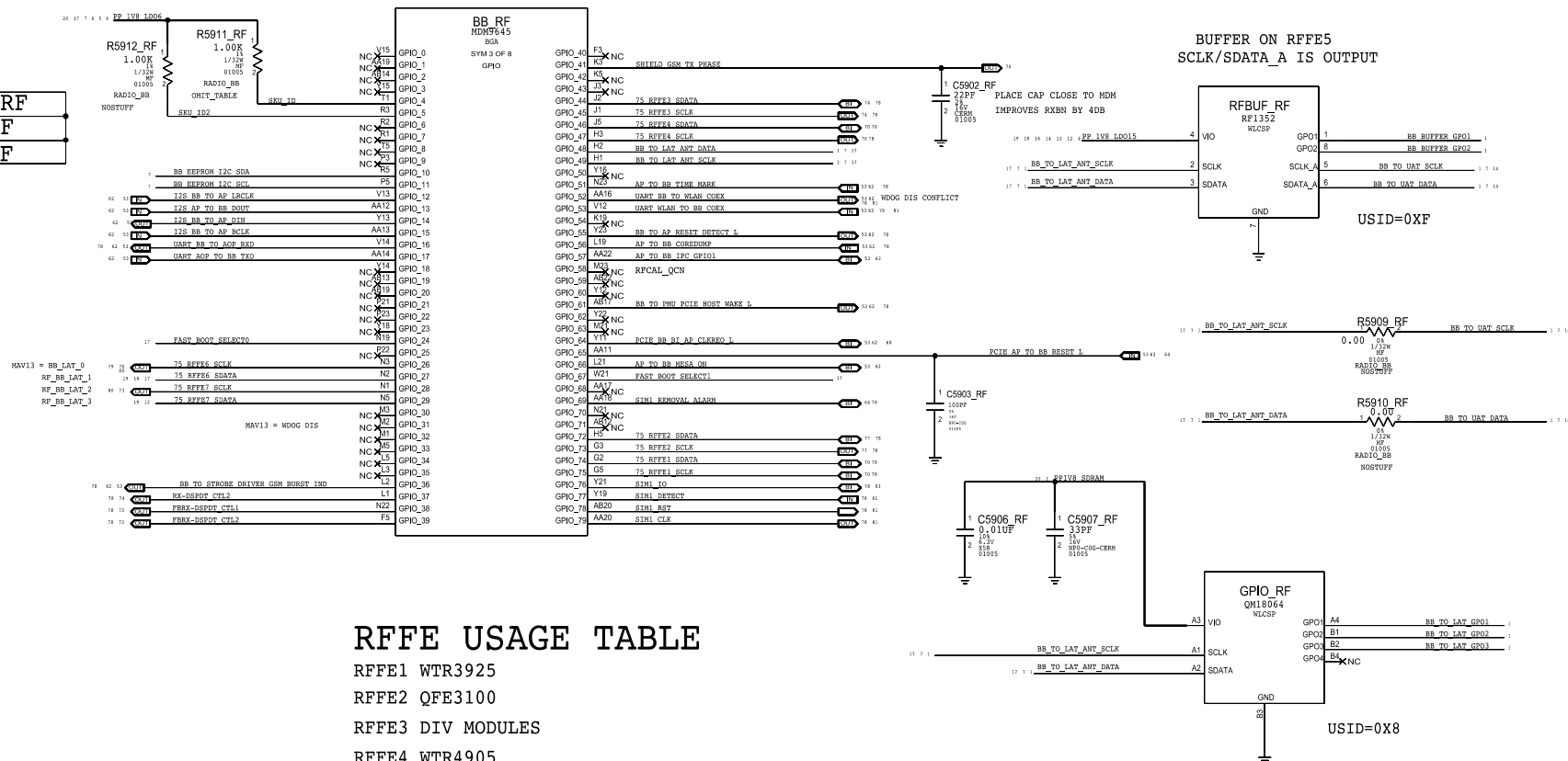


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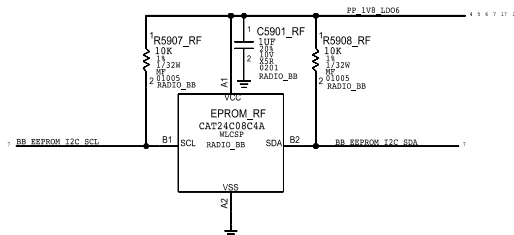
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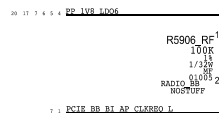
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RFFE2 QFE3100
RFFE3 DIV MODULES
RFFE4 WTR4905
RFFE5 TUNERS + ELNAS
RFFE6 2G PA,MLB PA,MB/HB TDD PA,MB/HB FDD PA
RFFE7 LB PA, COUPLERS
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BB EEPROM

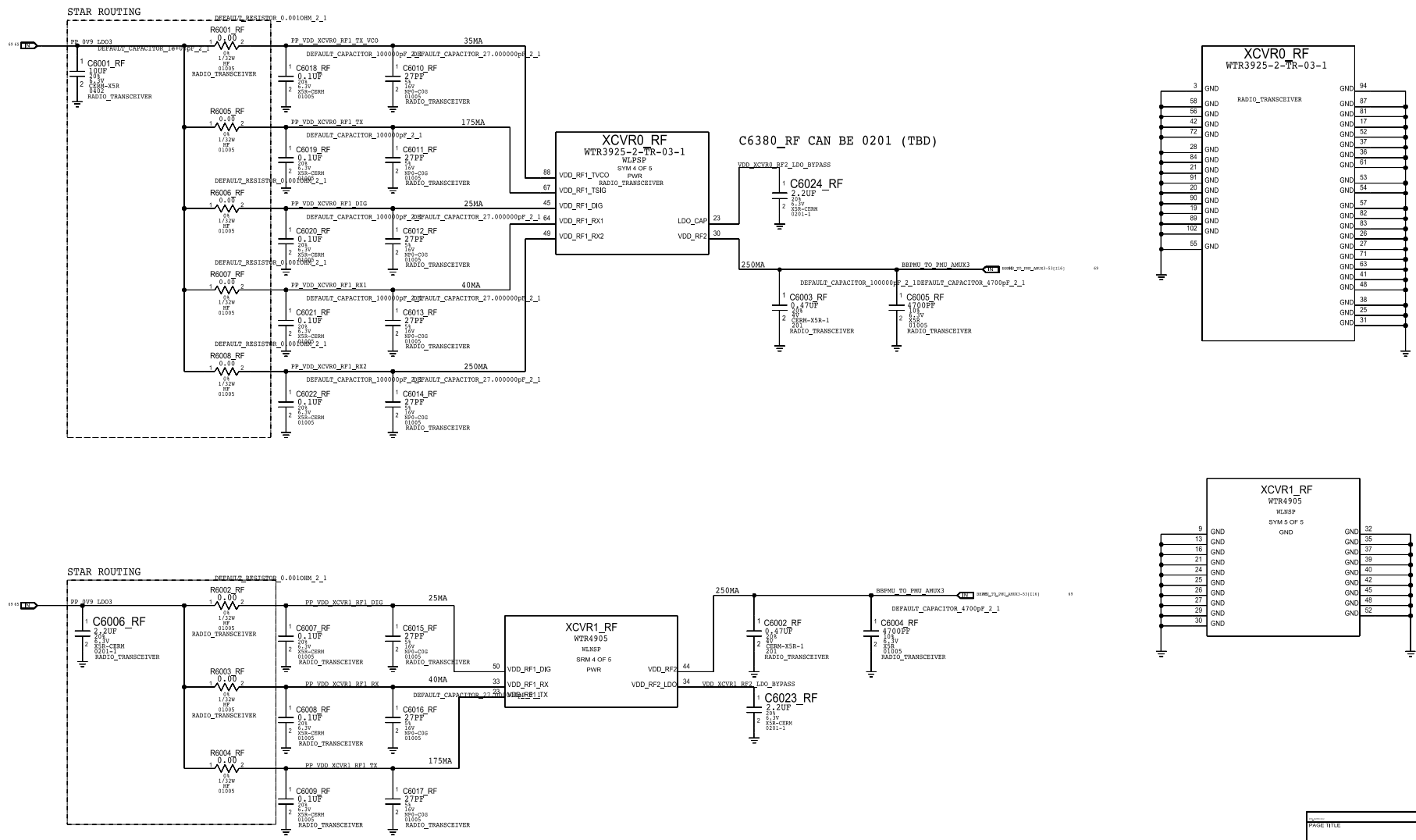


PCIE PULL-UPS TO BB RAIL



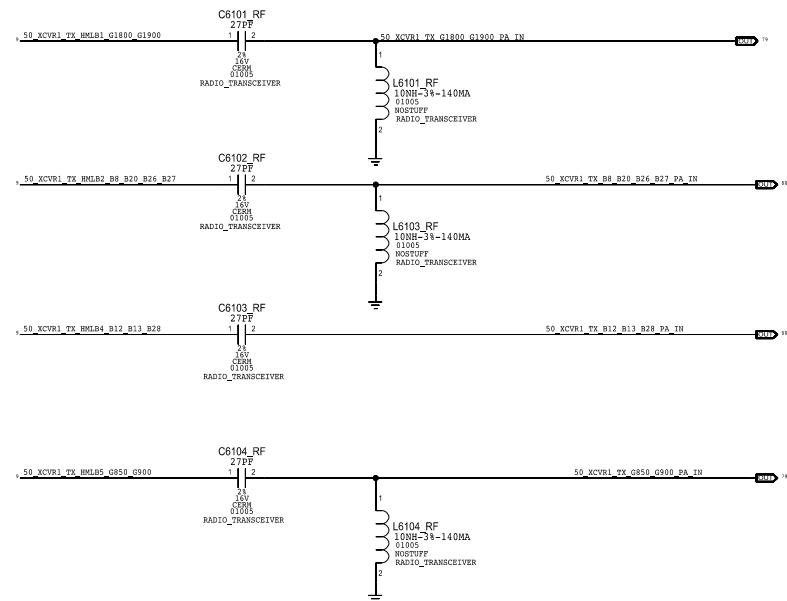
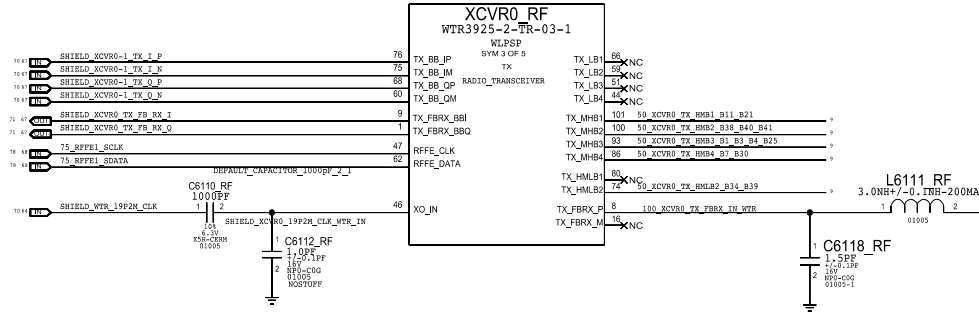
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TRANSCEIVER: POWER



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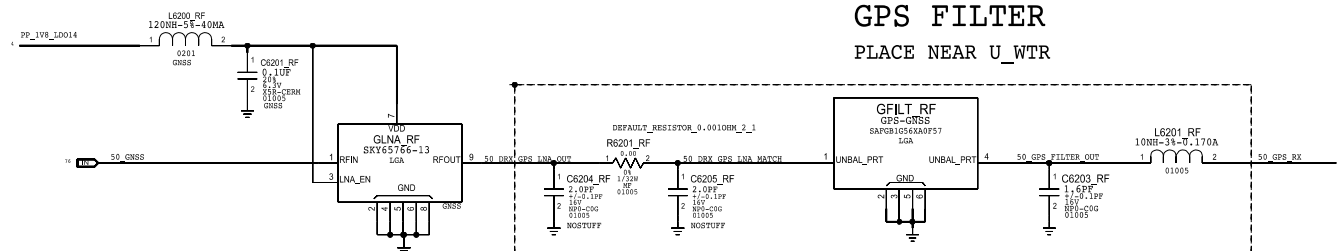
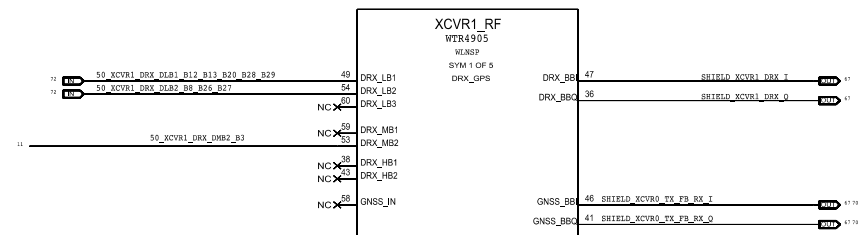
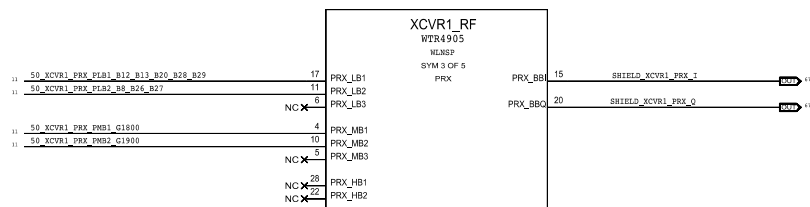
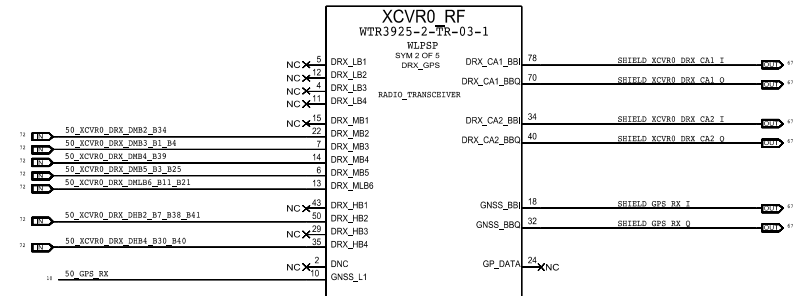
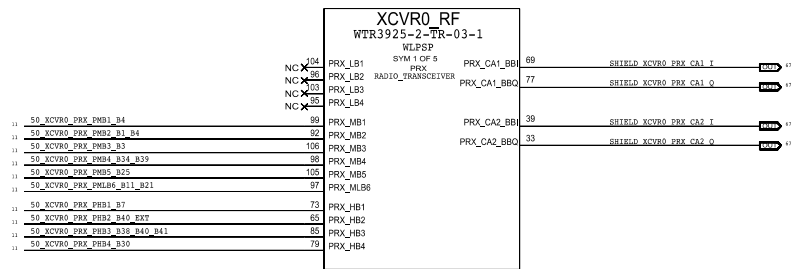
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TRANSCEIVER: PRX, DRX, & GPS PORTS



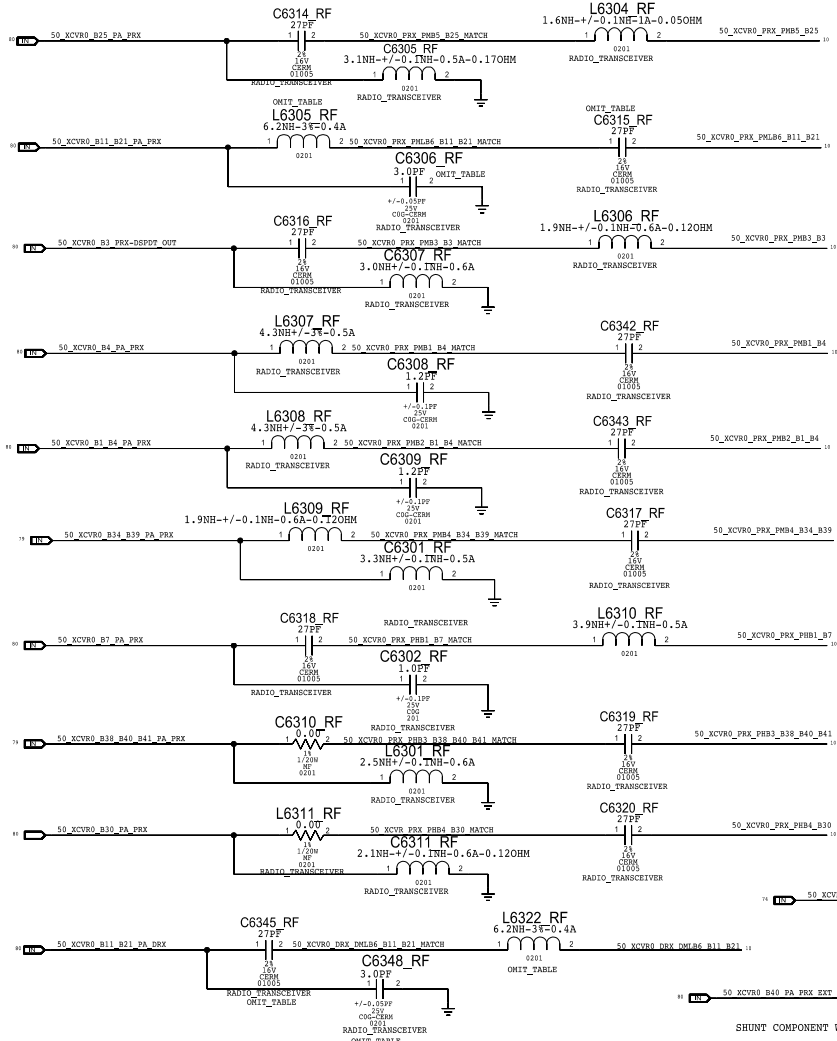
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PLACE NEAR U WTR

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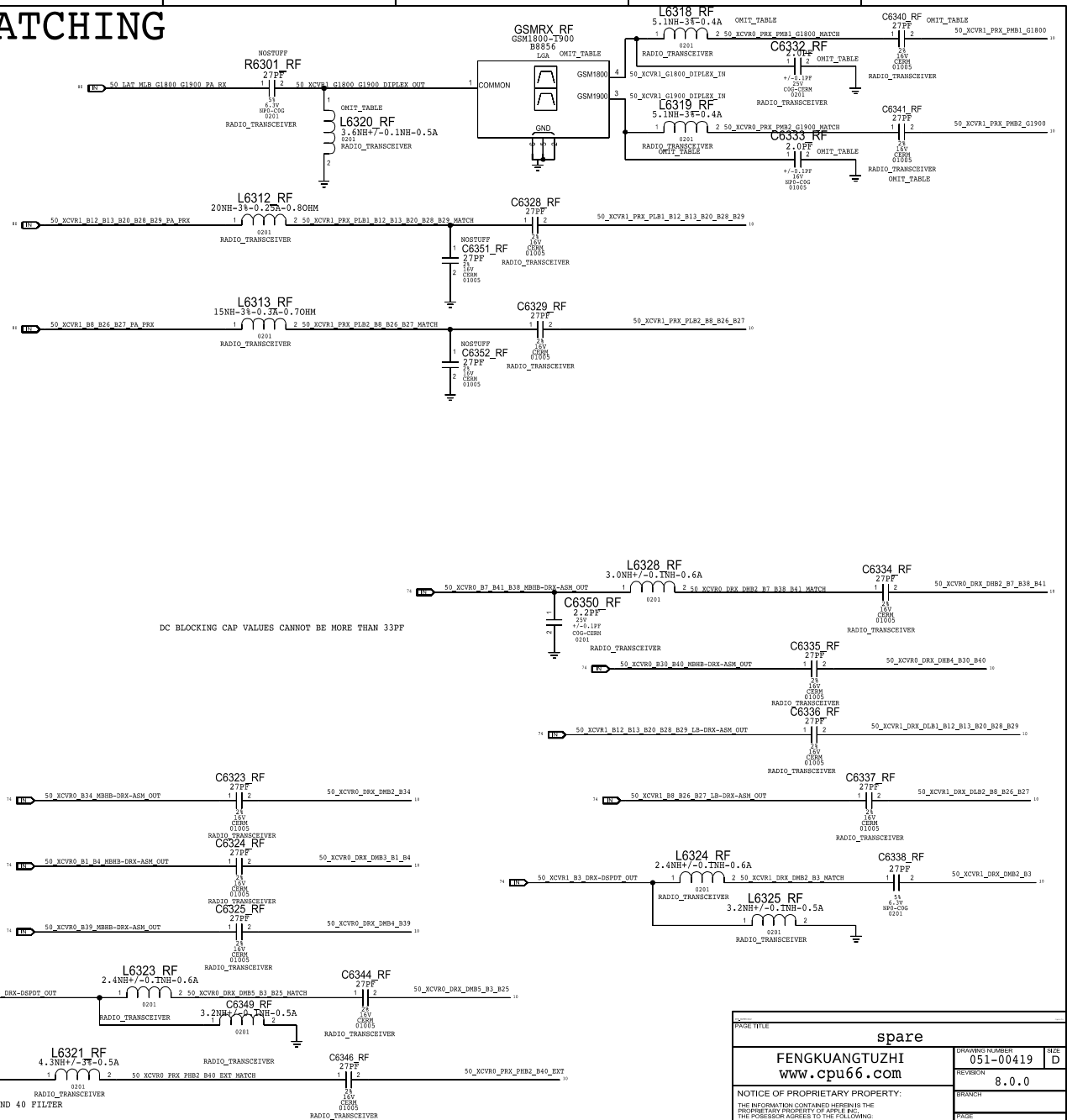
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PRIMARY & DIVERSITY RECEIVE MATCHING

DC BLOCKING CAP VALUES CANNOT BE MORE THAN 33PF



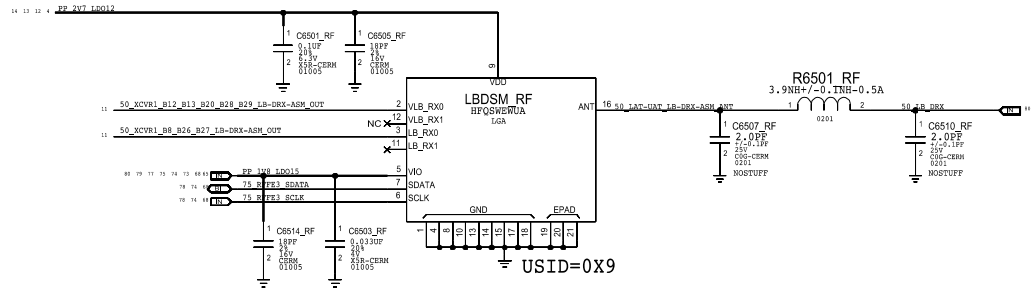
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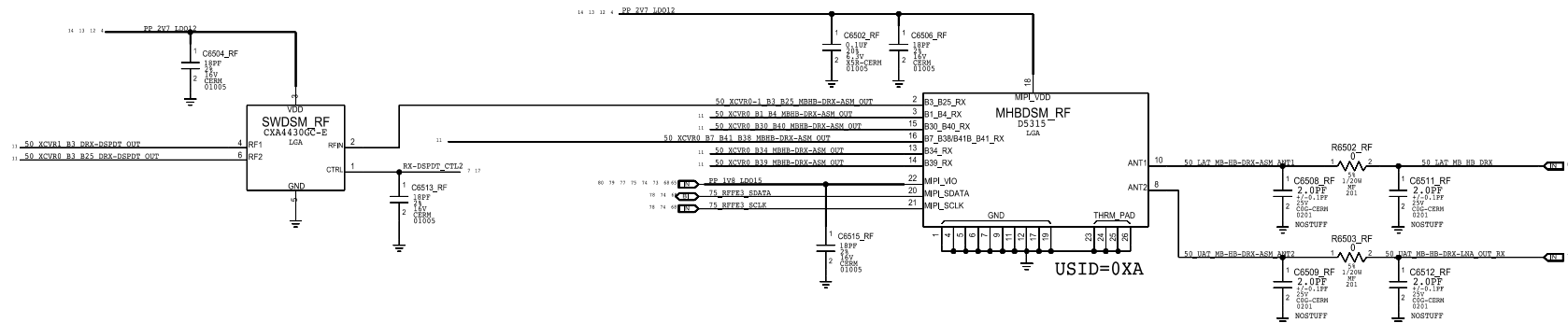
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DIVERSITY RECEIVE

LB DRX ASM



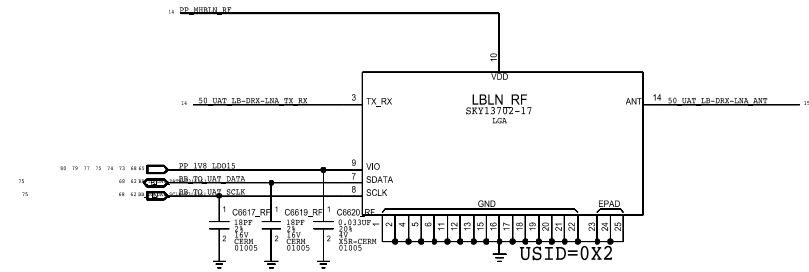
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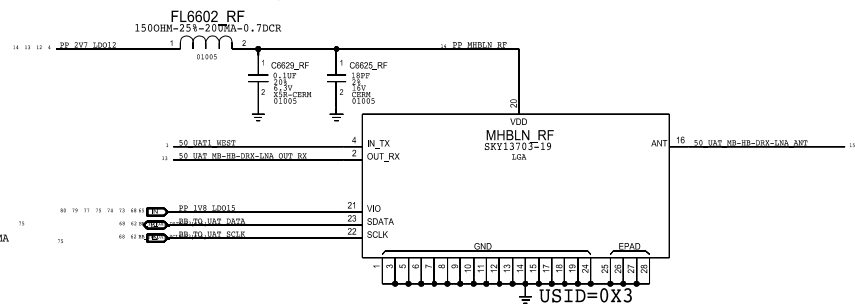
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DIVERSITY RECEIVE LNAs

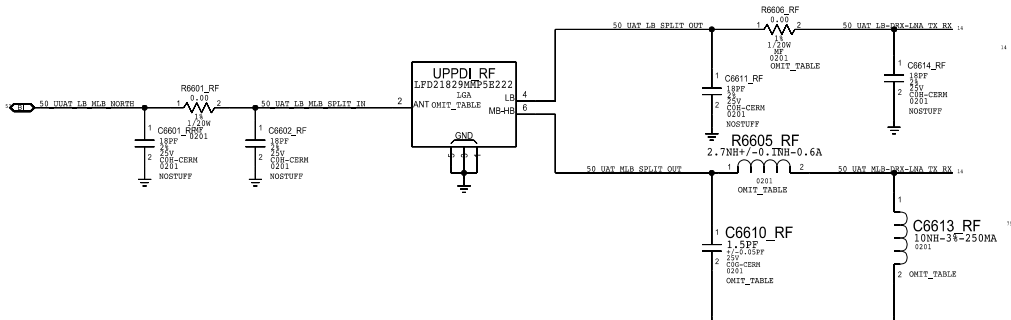
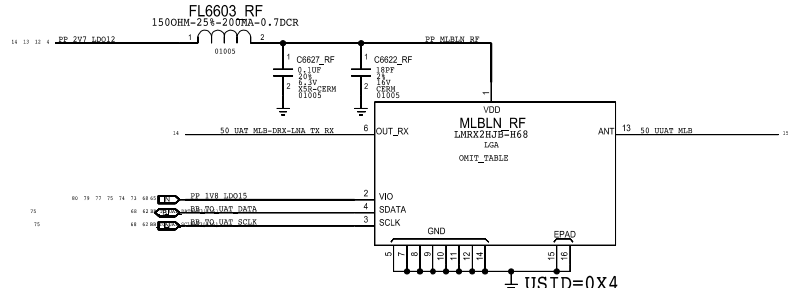
LB DRX LNA



MB/HB DRX LNA

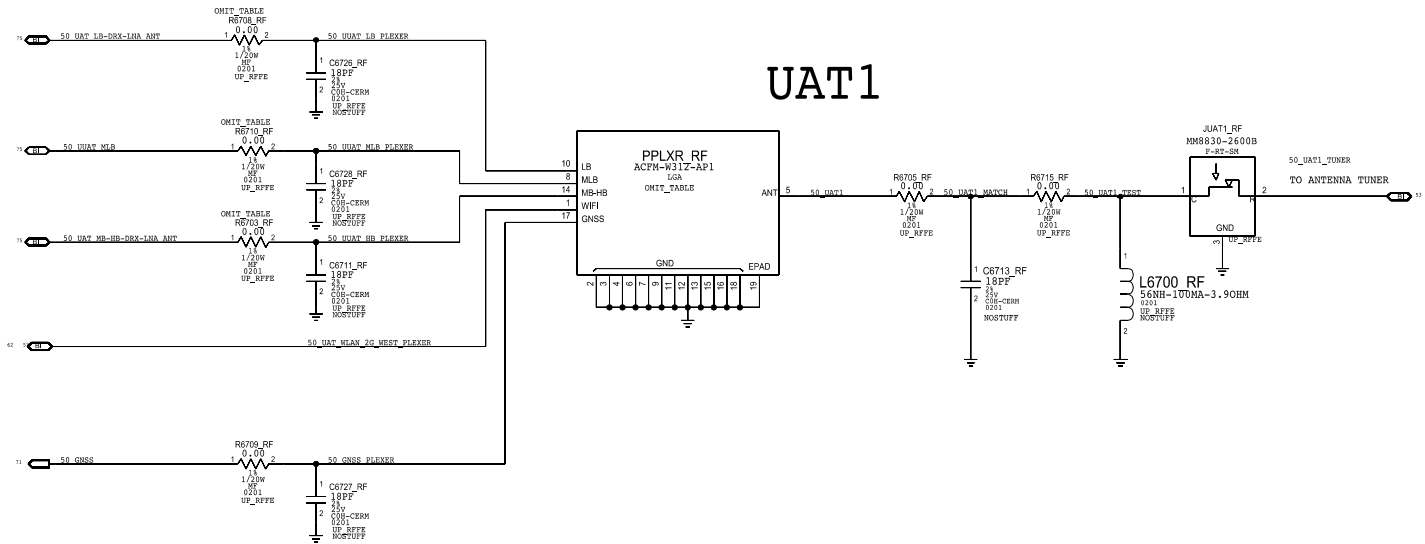


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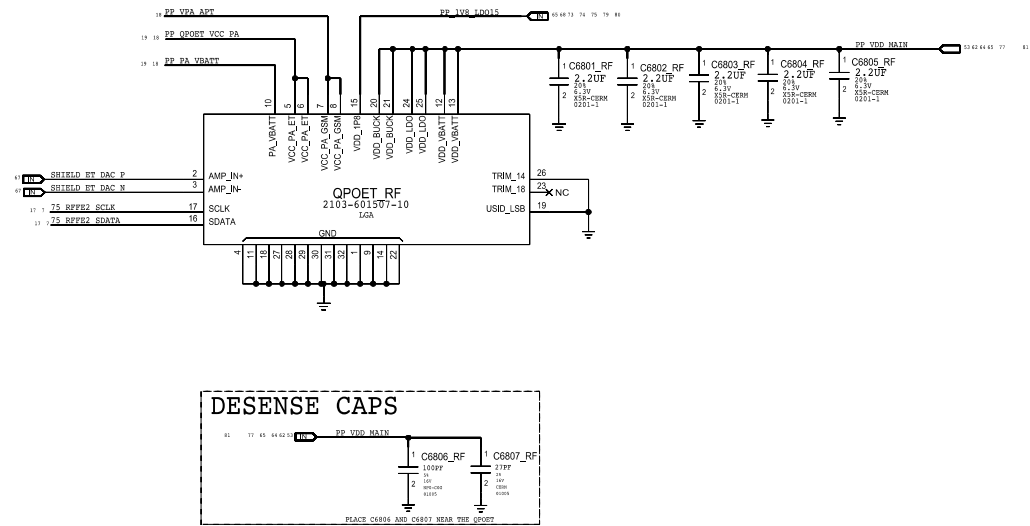
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UPPER ANTENNA FEEDS



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PMU: ET MODULATOR



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BASEBAND



PCIE GND



BBPMU



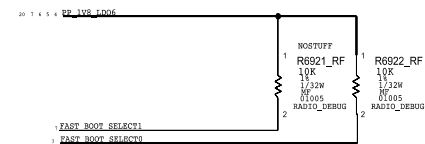
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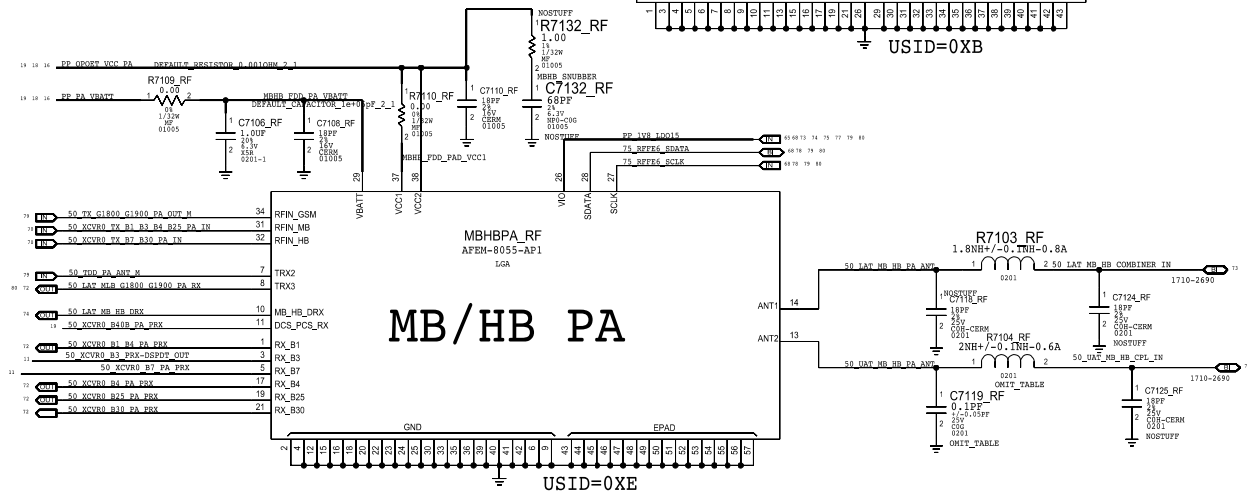
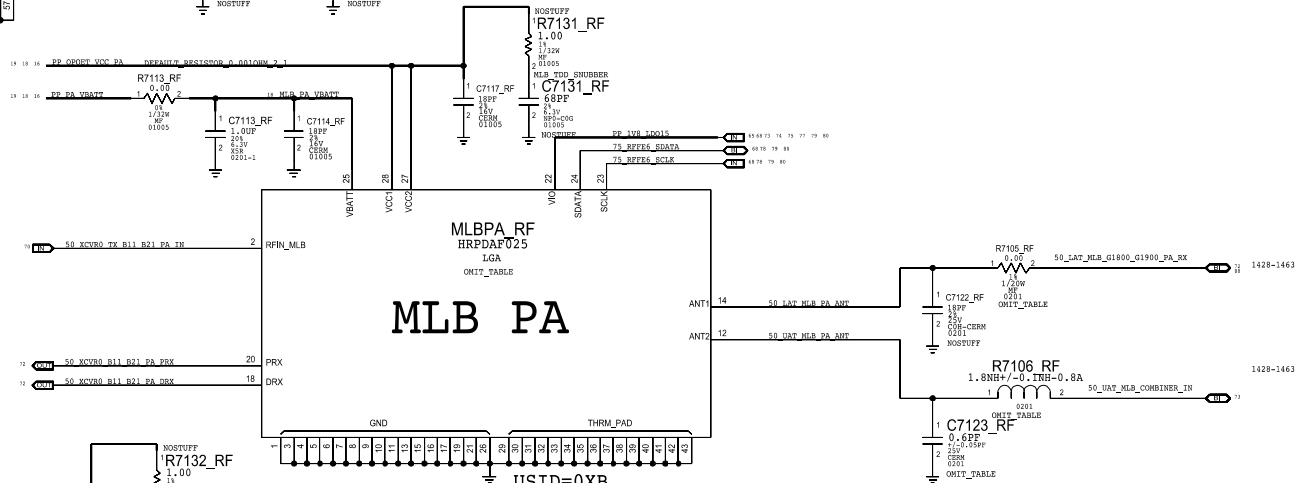
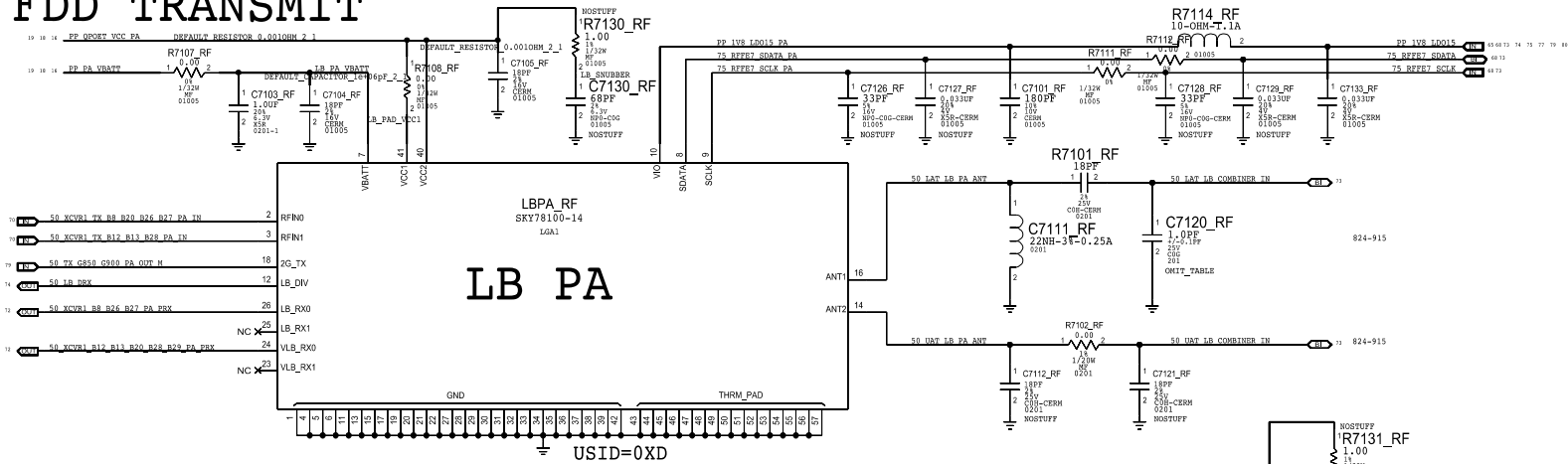


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