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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.

N41 SINGLE_BRD PVT

Tue Jul 10 17:52:36 2012

PDF PAGE	CSA PAGE	CONTENTS	SYNC MASTER	DATE
2	2	H5P JTAG, USB ,PLL	N/A	N/A
3	3	H5P GPIO & CONTROL	N/A	N/A
4	4	H5P IO POWER	N/A	N/A
5	5	H5P SOC/CPU/SRAM PWR	N/A	N/A
6	6	H5P W/ NAND	N/A	N/A
7	7	H5P VIDEO	N/A	N/A
8	8	BUTTON CONNECTOR	N/A	N/A
9	9	CS42L65 AUDIO CODEC (1/2)	N/A	N/A
10	10	CS42L65 AUDIO CODEC (2/2)	N/A	N/A
11	11	CG FLEX CONNECTOR	N/A	N/A
12	12	AGATHA PMU(1/2)	N/A	N/A
13	13	AGATHA PMU(2/2)	N/A	N/A
14	14	ACCEL,GYRO,COMPASS,SPK AMP	N/A	N/A
15	15	TRISTAR	N/A	N/A
16	16	DOCK CONNECTOR	N/A	N/A
17	17	GRAPE & CONNECTOR	N/A	N/A
18	18	LCM CONNECTOR	N/A	N/A
19	19	STROBE & NEGATIVE RAIL	N/A	N/A
20	20	CAM0 CONNECTOR	N/A	N/A
21	21	BATTERY & RF INT.	N/A	N/A
22	22	TEST POINTS	N/A	N/A

SCH 051-9113

BRD 820-3141

MCO 056-5192

BOM 639-3259 (16GB) BTR N41

BOM 639-3420 (32GB) BST N41

BOM 639-3421 (64GB) ULT N41

BOM 639-2456 (16GB) BTR N42

BOM 639-3858 (32GB) BST N42

BOM 639-3839 (64GB) ULT N42

BOM 639-4085 (16GB) BTR N42

BOM 639-4084 (32GB) BST N42

BOM 639-4083 (64GB) ULT N42

N41 BOM CALLOUTS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-9113	1	N41 SINGLE_BRD SCHEMATIC	SCH	Y	?
820-3141	1	N41 SINGLE_BRD PCB	PCB	Y	?
825-6838	1	LABEL FOR N41 639-3259	EEEE_DW3G	Y	EEEE_16G
825-6838	1	LABEL FOR N41 639-3420	EEEE_DY6Q	Y	EEEE_32G
825-6838	1	LABEL FOR N41 639-3421	EEEE_DY6R	Y	EEEE_64G
825-6838	1	LABEL FOR N42 639-2456	EEEE_DNVD	Y	EEEE_16G_N42
825-6838	1	LABEL FOR N41 639-3858	EEEE_F322	Y	EEEE_32G_N42
825-6838	1	LABEL FOR N41 639-3859	EEEE_F321	Y	EEEE_64G_N42
825-6838	1	LABEL FOR N41 639-4085	EEEE_F64R	Y	EEEE_16G_N42_SM
825-6838	1	LABEL FOR N41 639-4084	EEEE_F64Q	Y	EEEE_32G_N42_SM
825-6838	1	LABEL FOR N41 639-4083	EEEE_F64T	Y	EEEE_64G_N42_SM

N41 = BAND 17 COMP
N42 = BAND 13 COMP

NAND OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
341T0427	1	IC,PROGRAM FLASH,BETTER,N41	U4	?	NAND_16G
341T0428	1	IC,PROGRAM FLASH,BEST,N41	U4	?	NAND_32G
341T0429	1	IC,PROGRAM FLASH,ULT,N41	U4	?	NAND_64G

RADIO_MLB TDMA CAP OPTION

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S0801	3	CAP,CER,10UF,20%,10V,X5R,HZTL,0402	C235_RF,C236_RF,C237_RF	Y	?
138S0801	2	CAP,CER,10UF,20%,10V,X5R,HZTL,0402	C1201_RF,C1801_RF	Y	?

INDUCTOR 607-XXXX SUBBOM GEN

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1547	4	IND,PWR,1.5UH,1.95A,111MOHM,2520	L10,L50,L14,L54	Y	CPU0_1_TDK_SUBBOM
152S1696	3	IND,PWR,2.2UH,1.45A,138MOHM,2520	L11,L12,L13	Y	SOC_CYNTEC_SUBBOM
152S1695	4	IND,PWR,1.5UH,1.95A,111MOHM,2520	L10,L50,L14,L54	Y	CPU0_1_CYNTEC_SUBBOM
152S1432	3	IND,PWR,2.2UH,1.45A,125MOHM,2520	L11,L12,L13	Y	SOC_TDK_SUBBOM

INDUCTOR SUBBOM ADDITION

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
607-9979	1	CPU0_1,PWR IND SUBBOM	CPU_IND	Y	?
607-9980	1	SOC,PWR IND SUBBOM	SOC_IND	Y	?

ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S0648	138S0652	?	?	4.7UF CERM 0402 6.3V
138S0703	138S0648	?	?	4.7UF CERM 0402 6.3V
138S0702	138S0657	?	?	4.3UF CERM 0610 4V
138S0697	138S0695	?	?	1UF CERM 0204 4V
138S0746	138S0705	?	?	10UF CERM 0402 10V
138S0739	138S0706	?	?	1UF CERM 0201 10V
197S0369	197S0392	?	?	TXC 32KHZ XTAL ALT
197S0399	197S0392	?	?	NDK 32KHZ XTAL ALT
155S0667	155S0583	?	?	PANASONIC CMC
107S0146	107S0208	?	?	TDK 10K NTC ALT
152S1696	152S1432	?	L2	CYNTEC 2.2UH IND ALT
152S1602	152S1604	?	?	CYNTEC 2.2UH IND ALT
311S0591	311S0273	?	?	74LVC1G32 OR GATE ALT
311S0548	311S0398	?	?	74AUP1008 AND GATE ALT
311S0560	311S0515	?	?	74LV2G07 BUFFER ALT
339S0177	339S0176	?	?	H5P ALT
339S0178	339S0176	?	?	H5P ALT
155S0773	155S0453	?	?	TAIYO ALT FERRITE
127S0162	127S0160	?	?	VISHAY 1.0UF TANT
127S0164	127S0160	?	?	ROHM 1.0UF TANT
376S1120	376S0774	?	?	DIODES INC FET
376S1060	376S0882	?	?	DIODES INC FET

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S0895	335S0874	?	U601_RF	WINBOND ALT
197S0437	197S0410	?	Y301_RF	KYOCERA 19.2MHZ XTAL ALT
197S0409	197S0410	?	Y301_RF	RAKON 19.2MHZ XTAL ALT

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
607-9983	607-9979	?	CPU_IND	ALT CPU CYNTEC SUBBOM
607-9984	607-9980	?	SOC_IND	ALT SOC CYNTEC SUBBOM

SCHEM,MLB,N41

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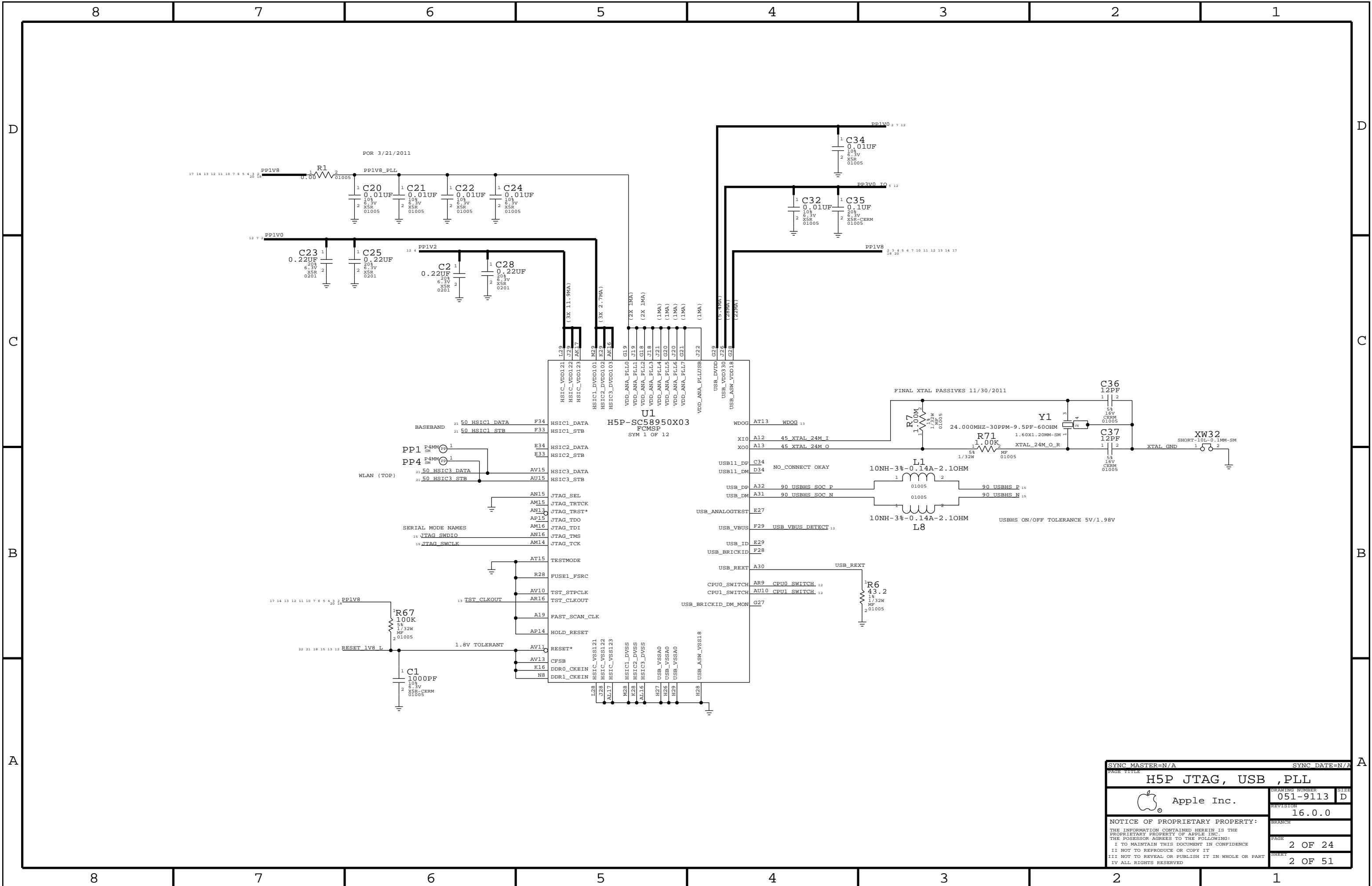
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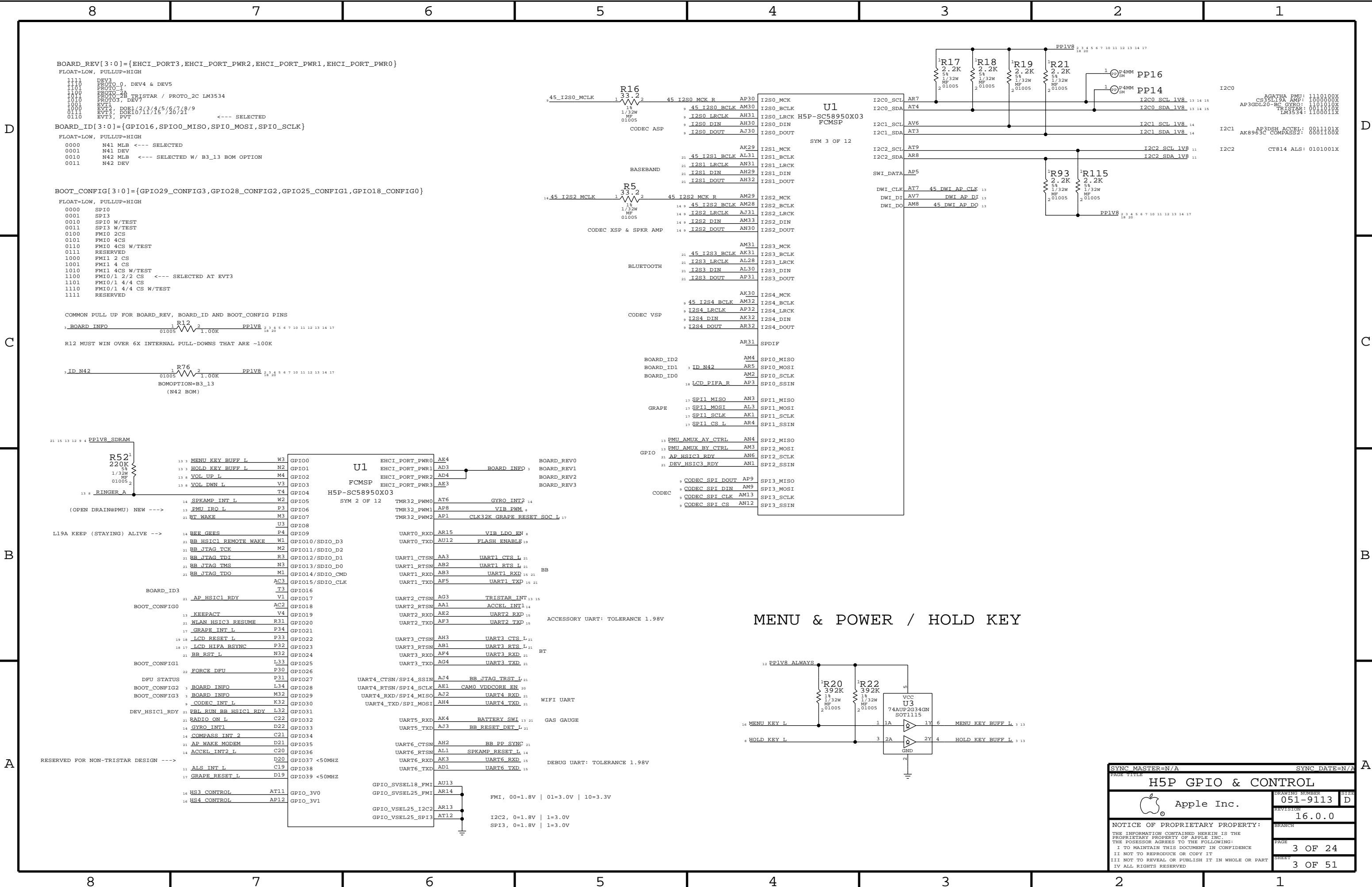
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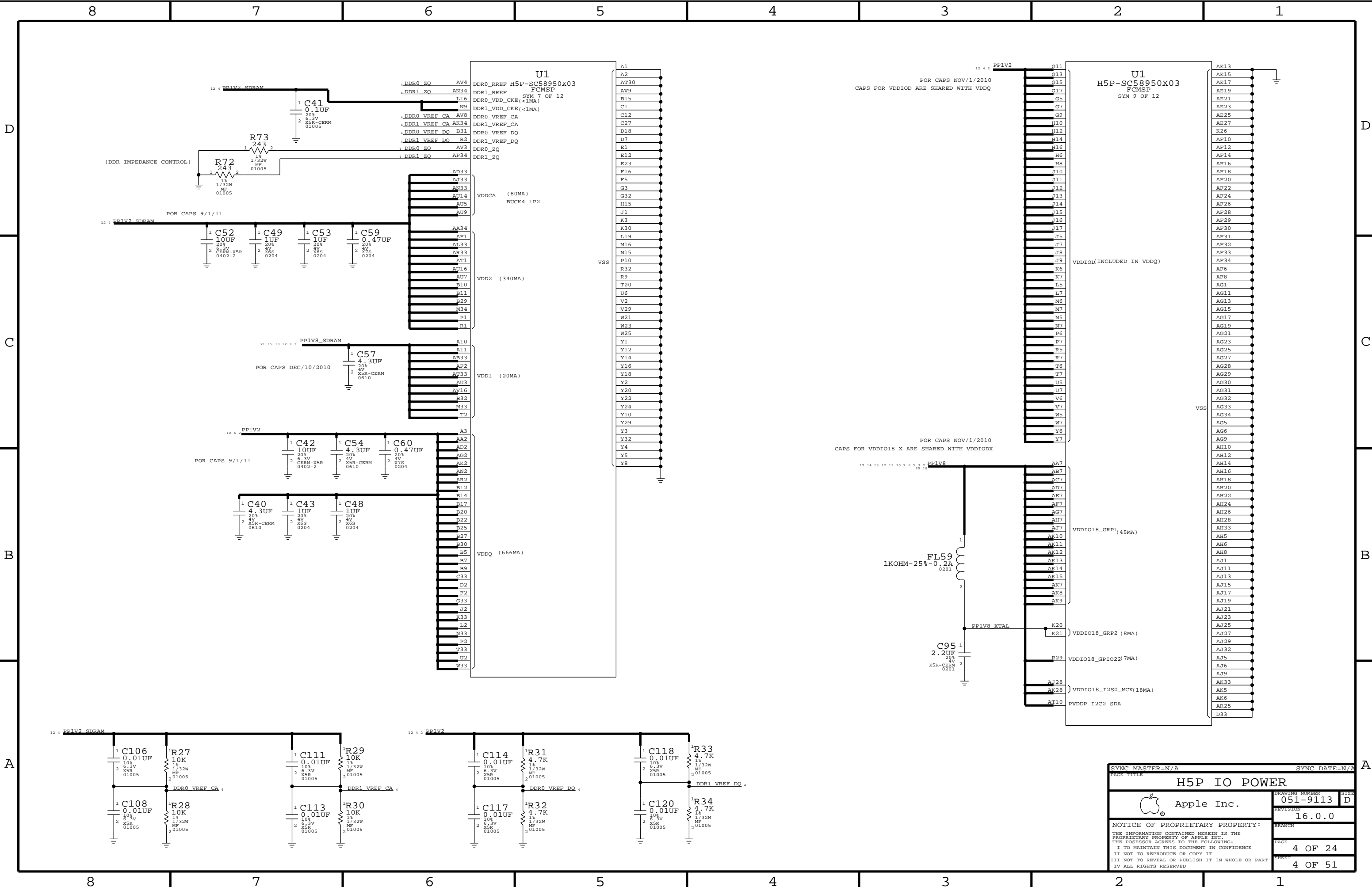
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ANY QUESTIONS? EMAIL STAN RABU OR CRAIG BIRRELL

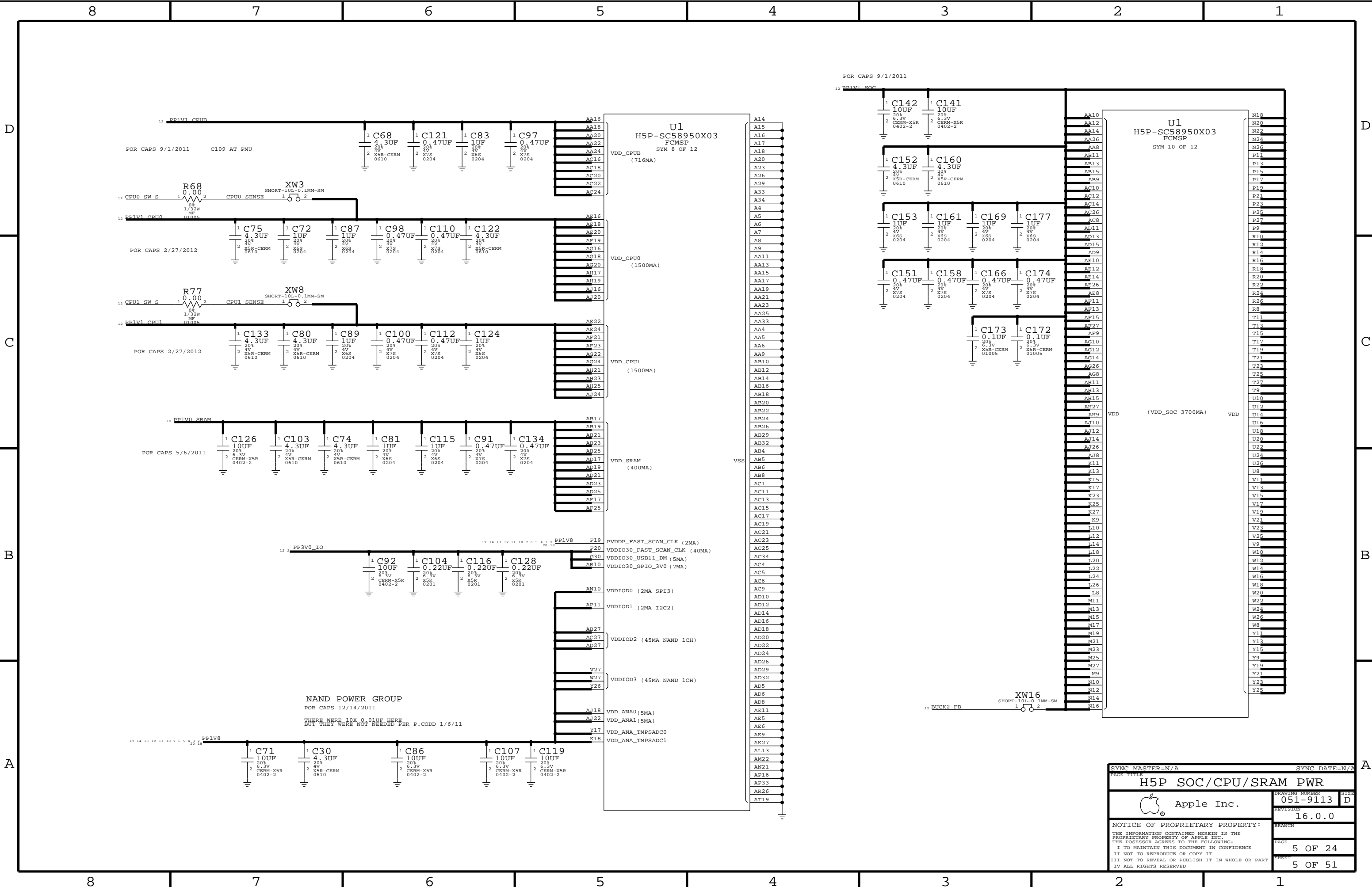


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PAGE TITLE		H5P JTAG, USB ,PLL	
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		REVISION	16.0.0
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		SHEET	2 OF 51



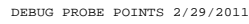


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H5P IO POWER		DRAWING NUMBER	
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PAGE TITLE		PAGE	
H5P SOC/CPU/SRAM PWR		16.0.0	
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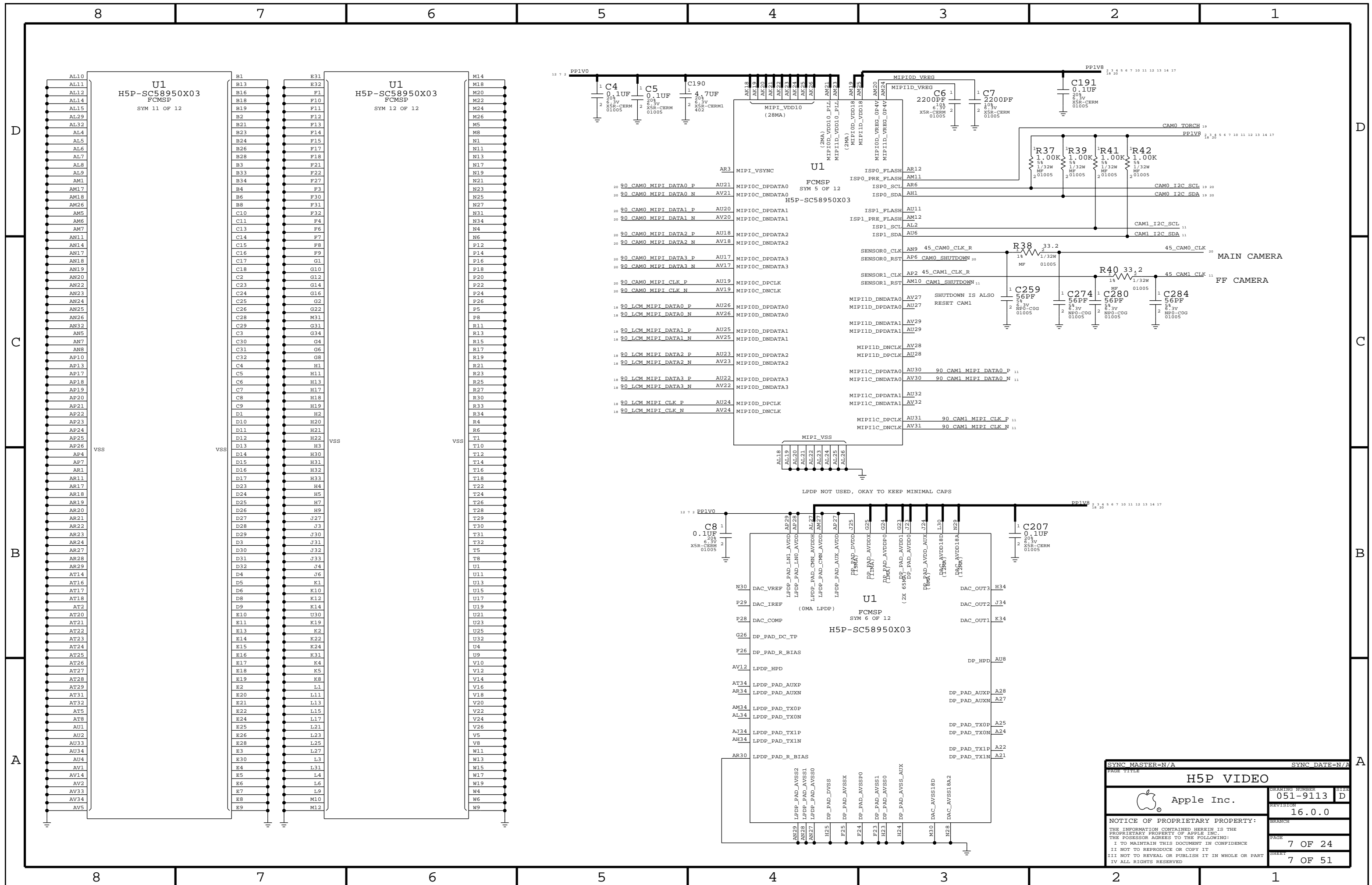
SUPPORT FOR PPN1.5 AND PPN1.0 W/ 1.8V IO ONLY

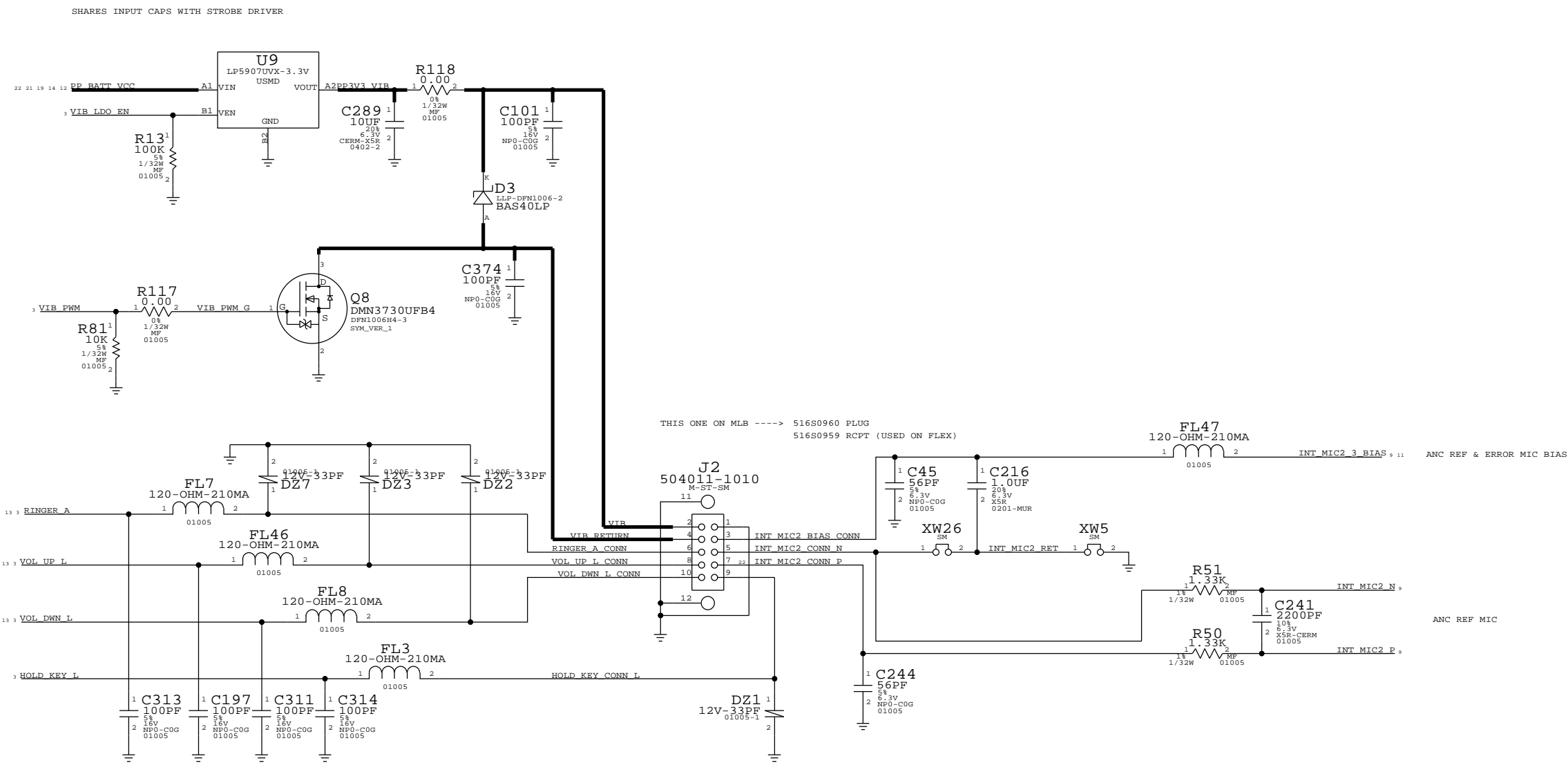



NOTE: NAND PADS SHOULD BE SHIELDED FROM TRACES WITH A GROUND PLANE

PP2	P4MM SM	(P0) ¹	FMI0 IQ<0> 6
PP3	P4MM SM	(P0) ¹	45 FMI0 RE L 6
PP10	P4MM SM	(P0) ¹	45 FMI0 PQS 6

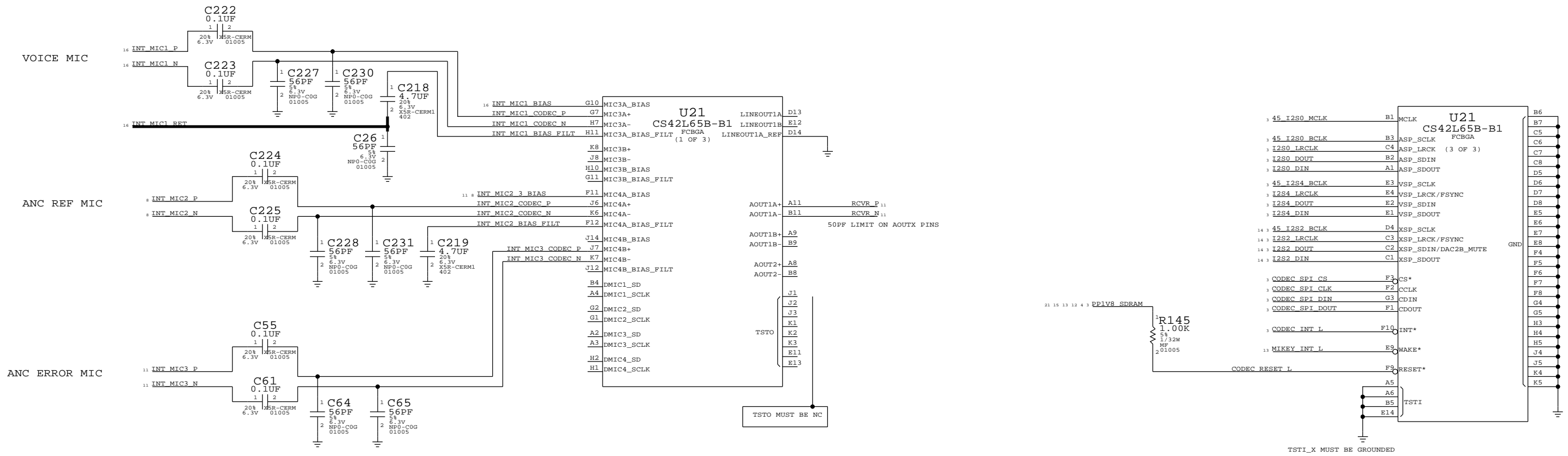
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BUTTON CONNECTOR			
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CS42L65 AUDIO CODEC



D



B

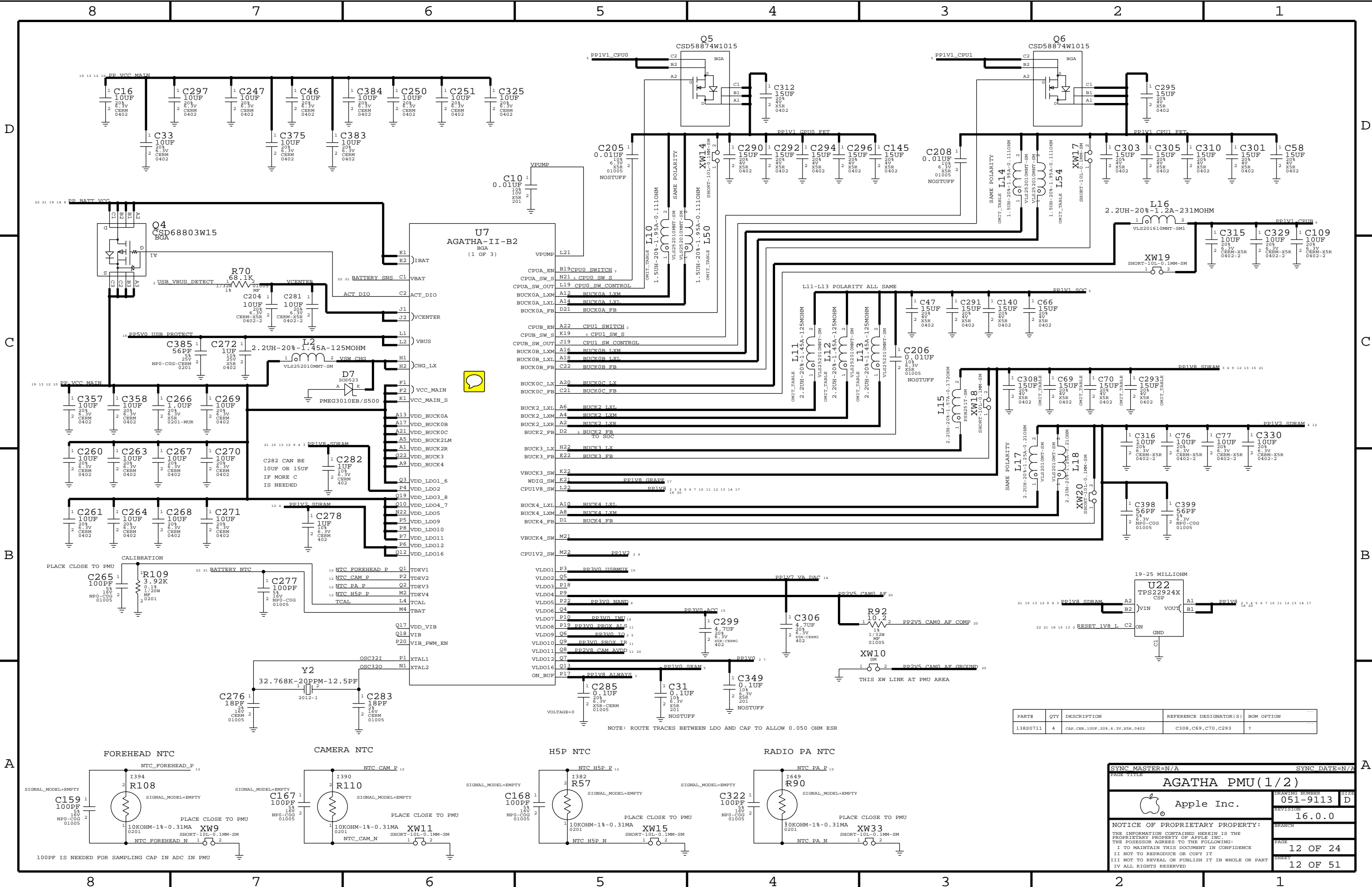
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PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
138S0711	4	CAP, CER, 100PF, 20%, 6.3V, X5R, 0402	C308, C69, C70, C293	?

SYNC MASTER=N/A

SYNC DATE=N/A

AGATHA PMU (1/2)

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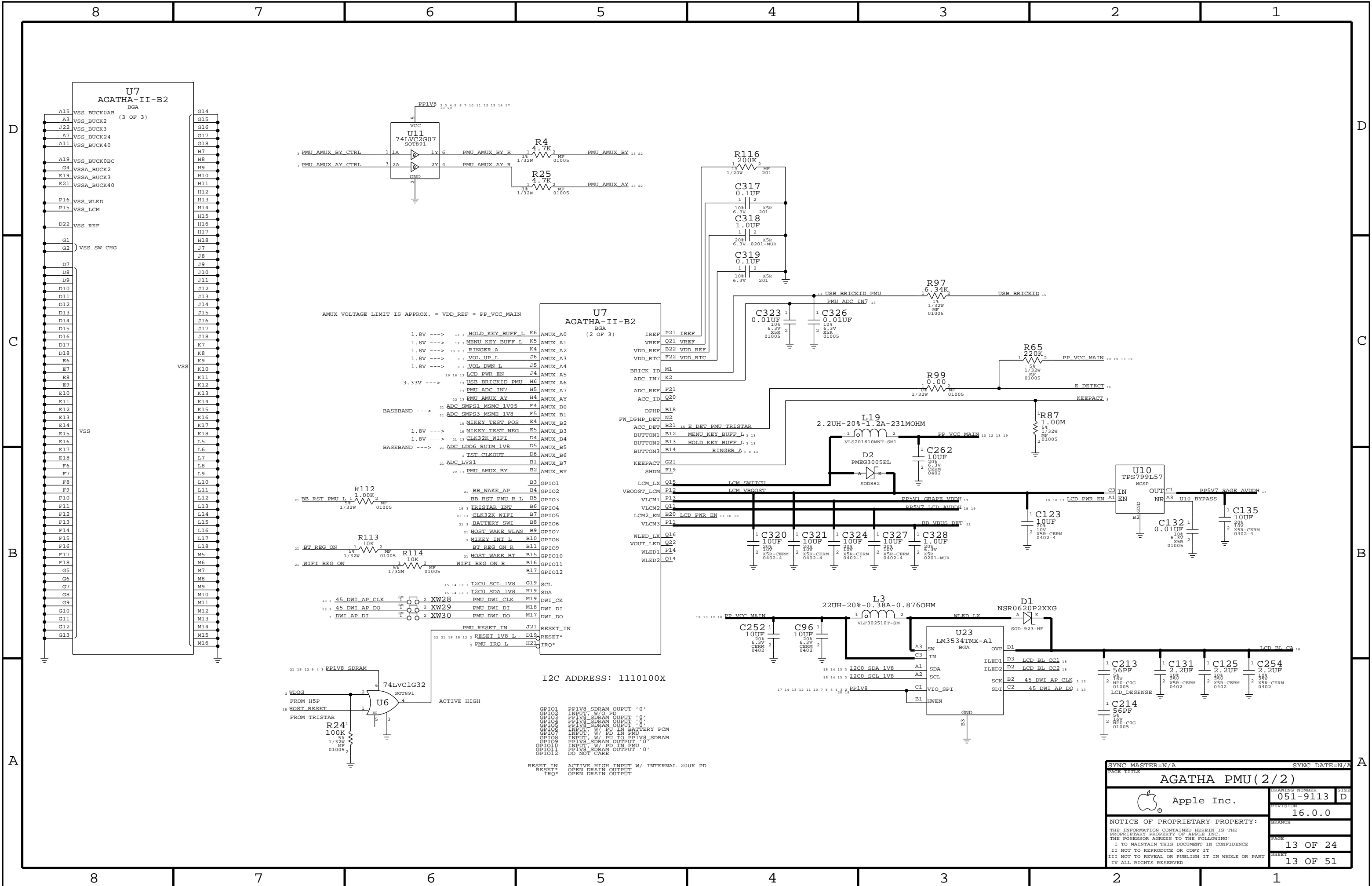
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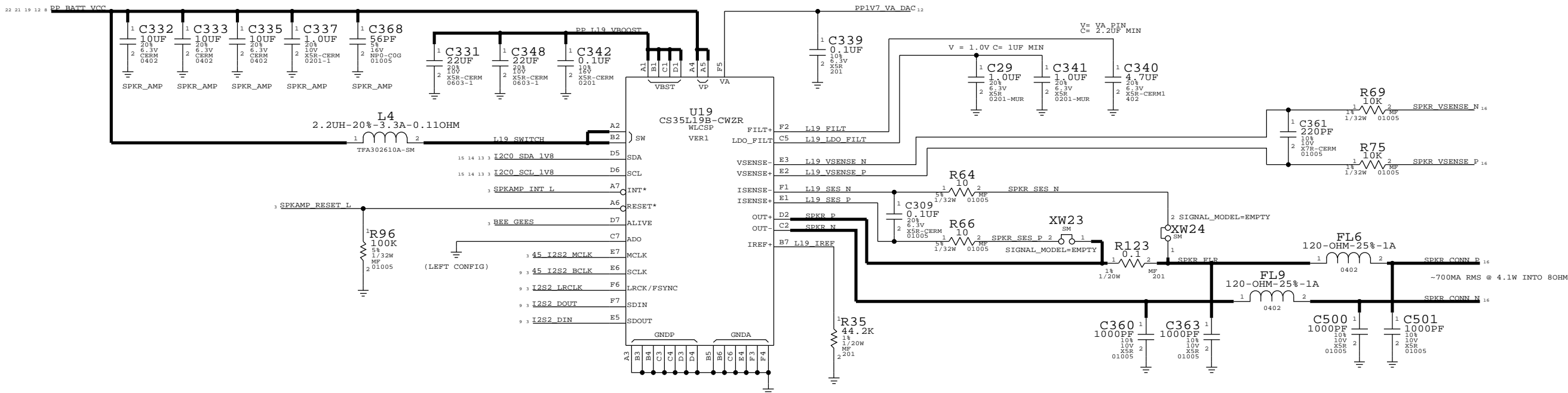
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AGATHA PMU (2/2)		AGATHA PMU (2/2)	
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SPEAKER AMP

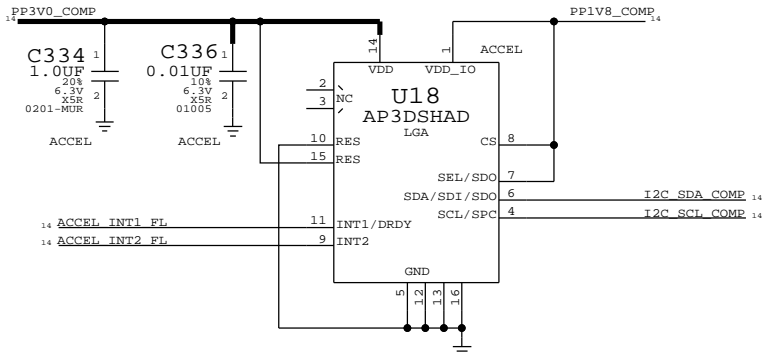
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THESE PARTS OUTSIDE OF SHIELD

ACCELEROMETER

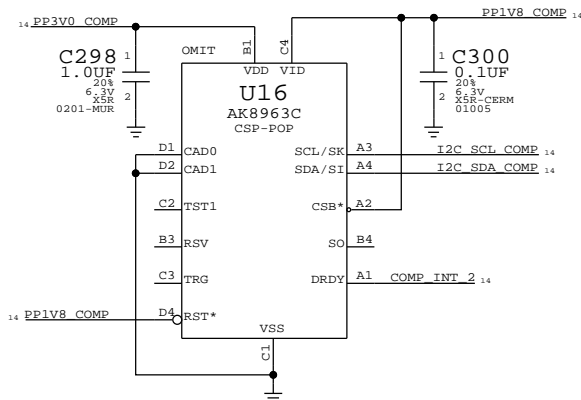
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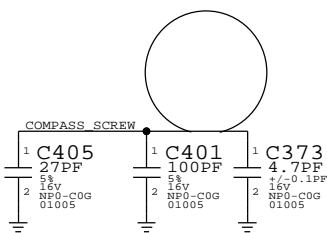
COMPASS2

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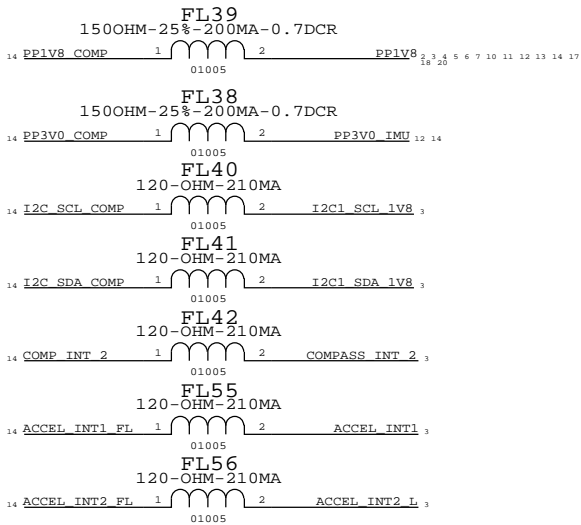
COMPASS POP FOOTPRINT: 998-5120
COMPASS DEVICE: 338S1014



COMPASS SCREW IS RF GROUND

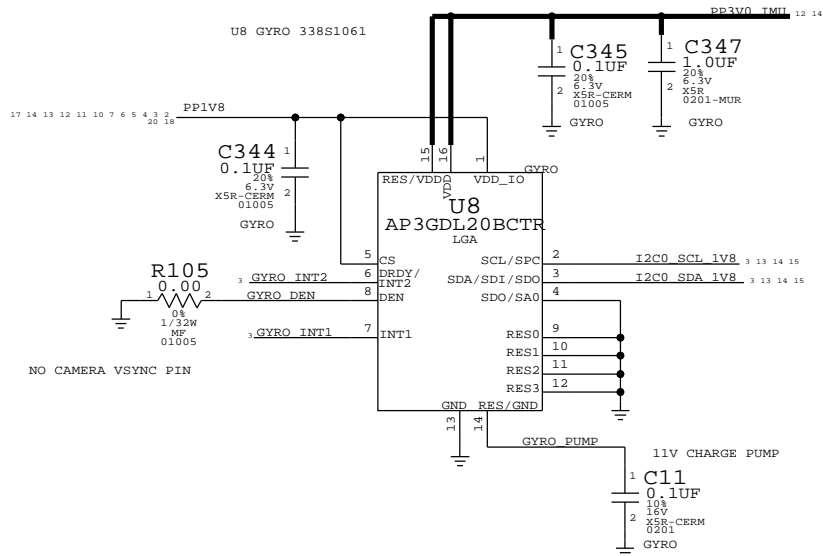


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
639-4024	1	PCB,COMPASS POP,N41	U16	?



GYRO 20KHZ

I2C ADDRESS: 1101010X



PAGE TITLE		SYNC DATE=N/A	
ACCEL, GYRO, COMPASS, SPK AMP		DRAWING NUMBER	
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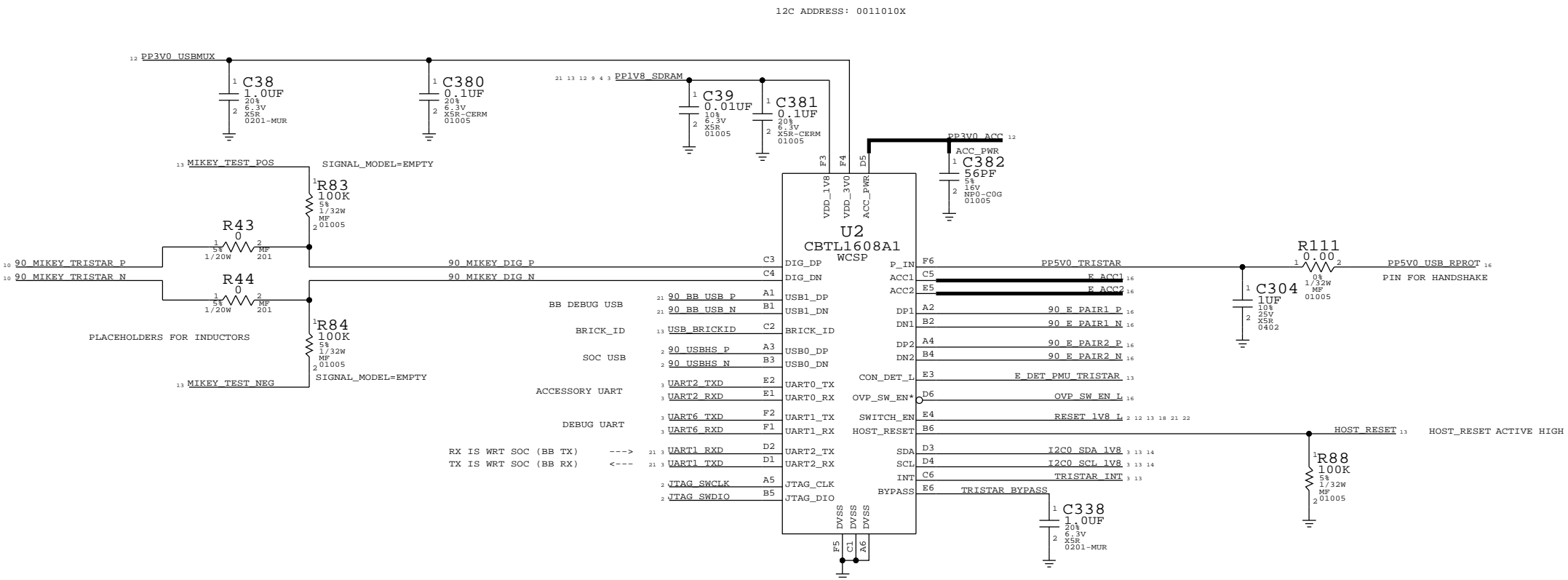
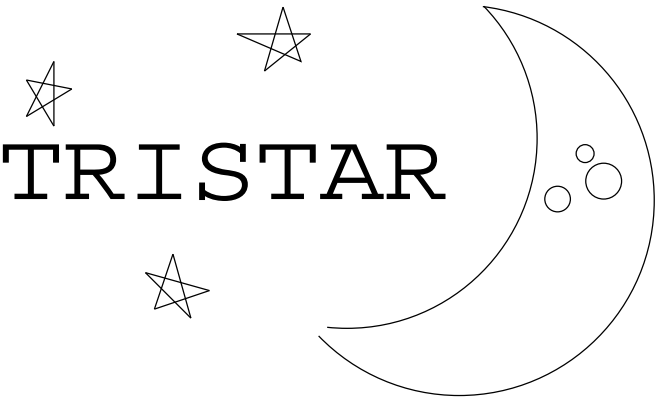
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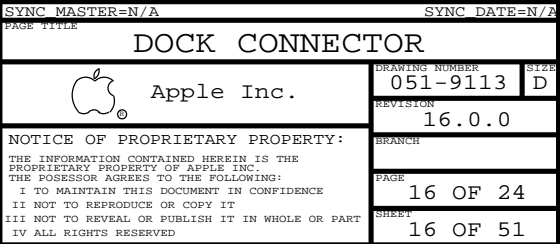
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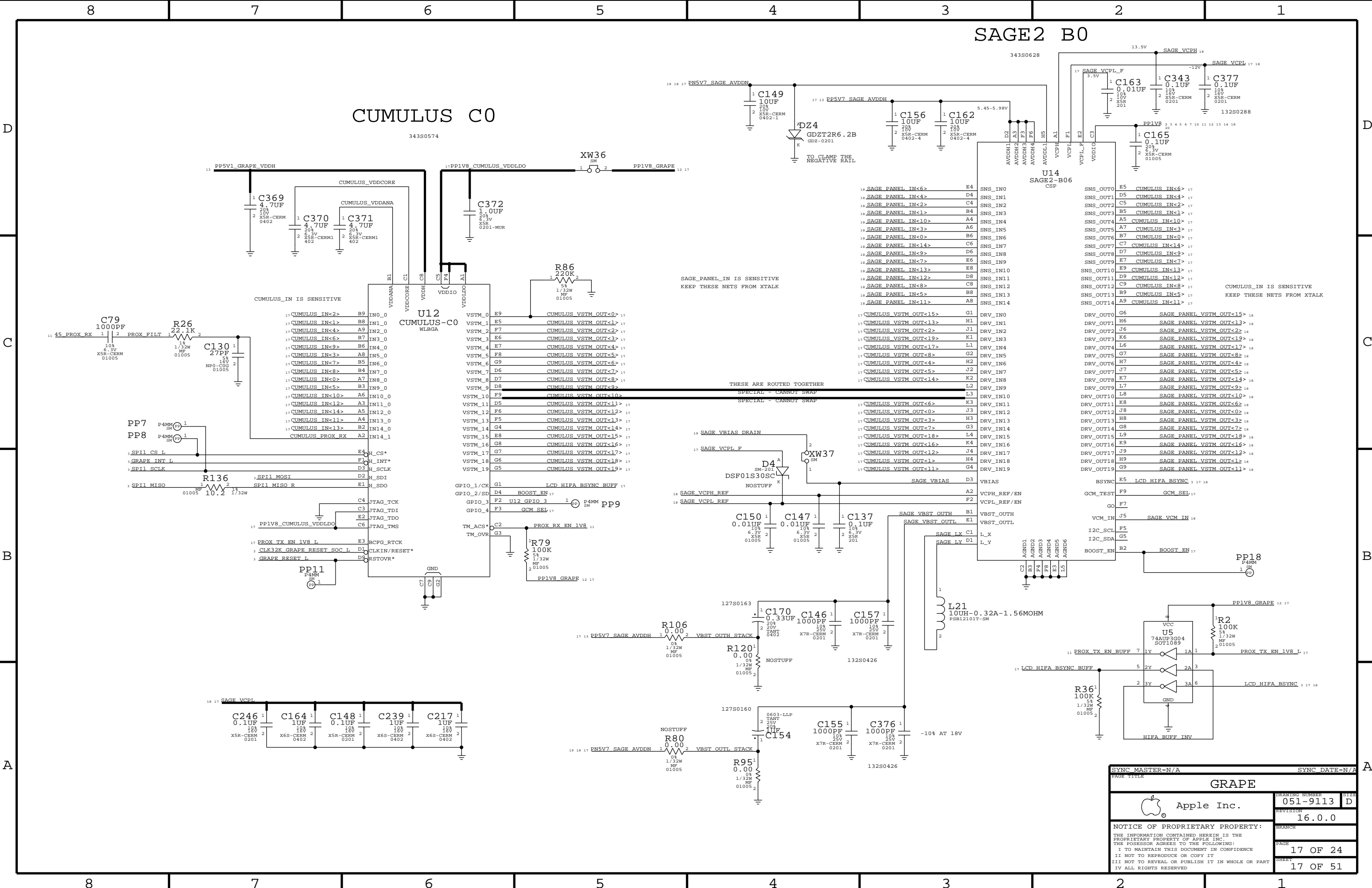
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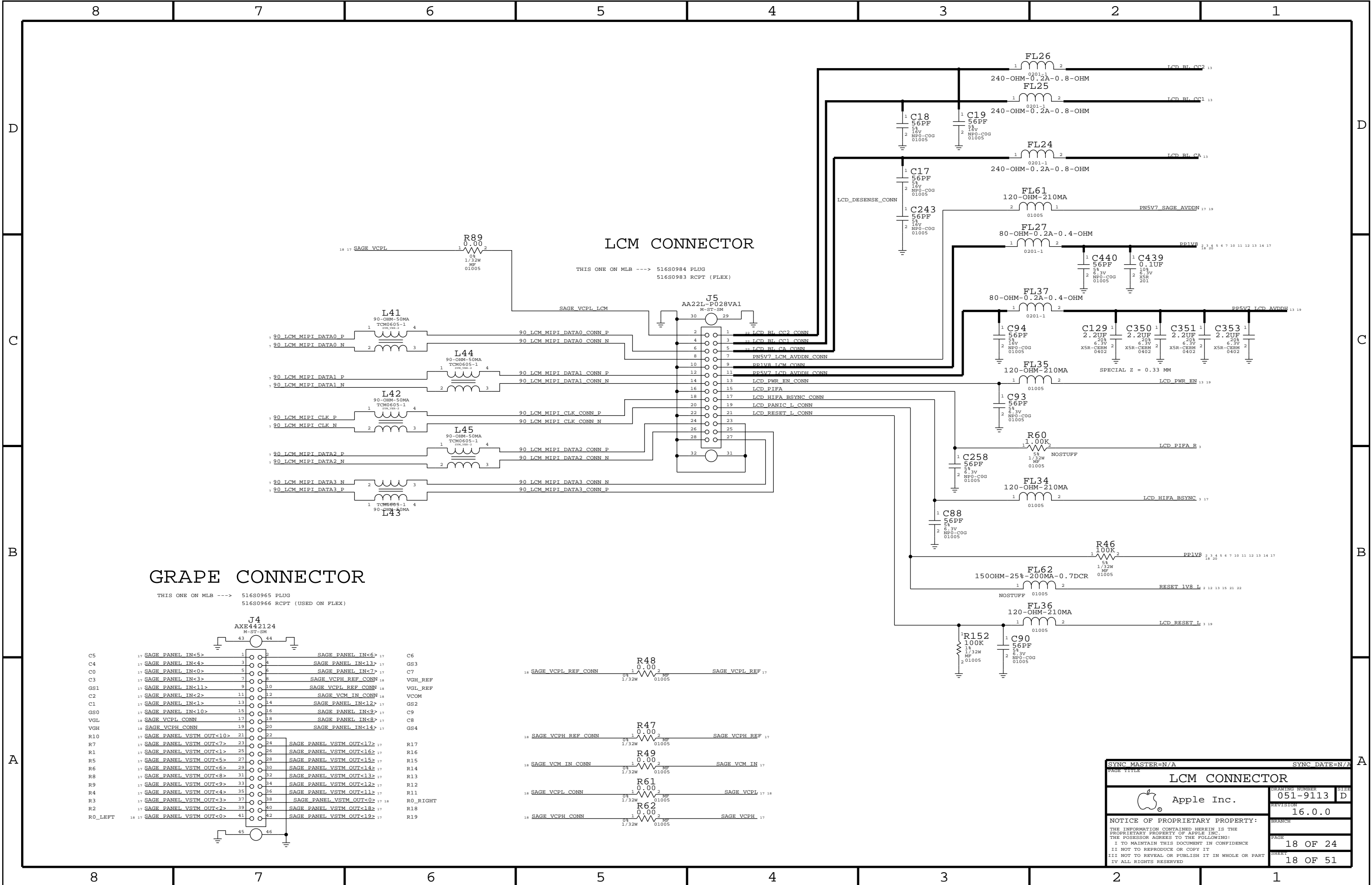


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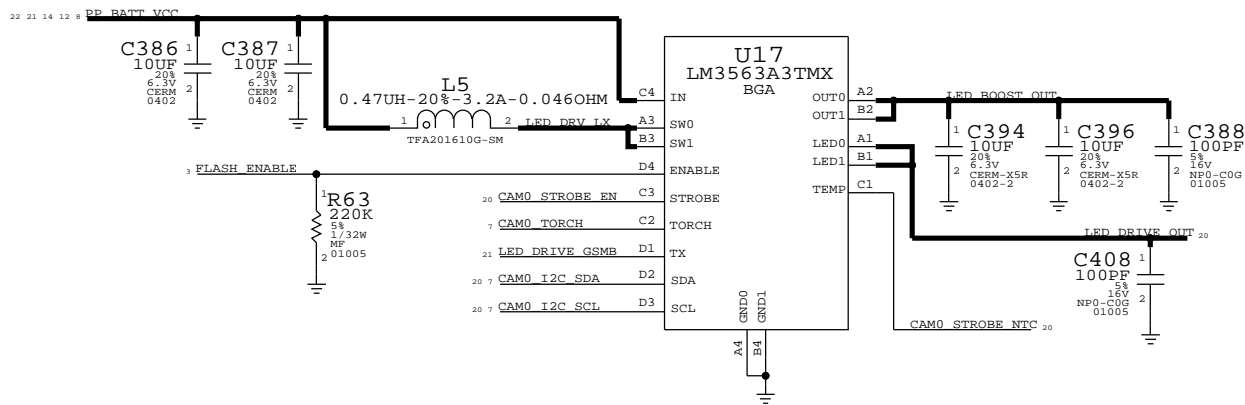
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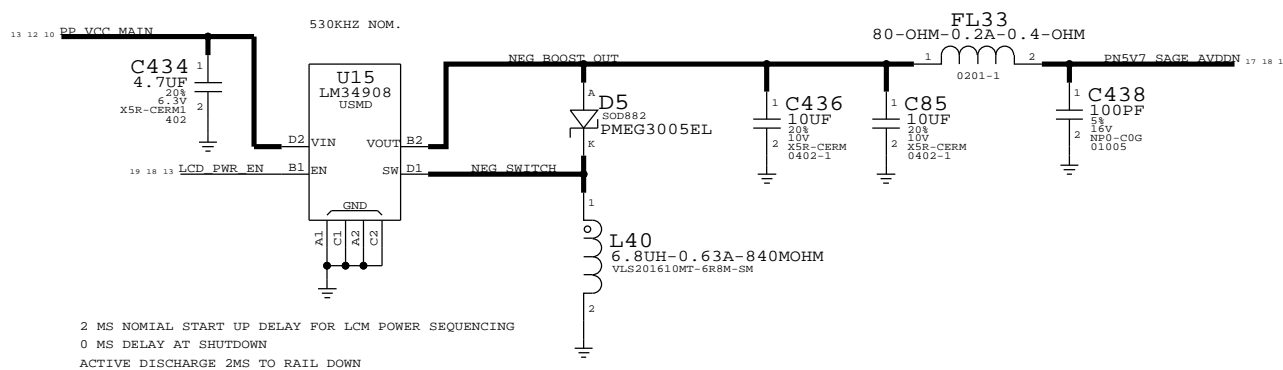
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LCM CONNECTOR		DRAWING NUMBER	051-9113
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LED DRIVER

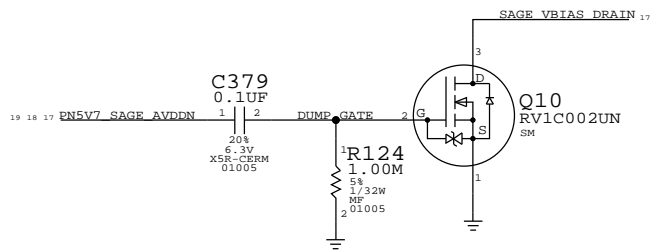
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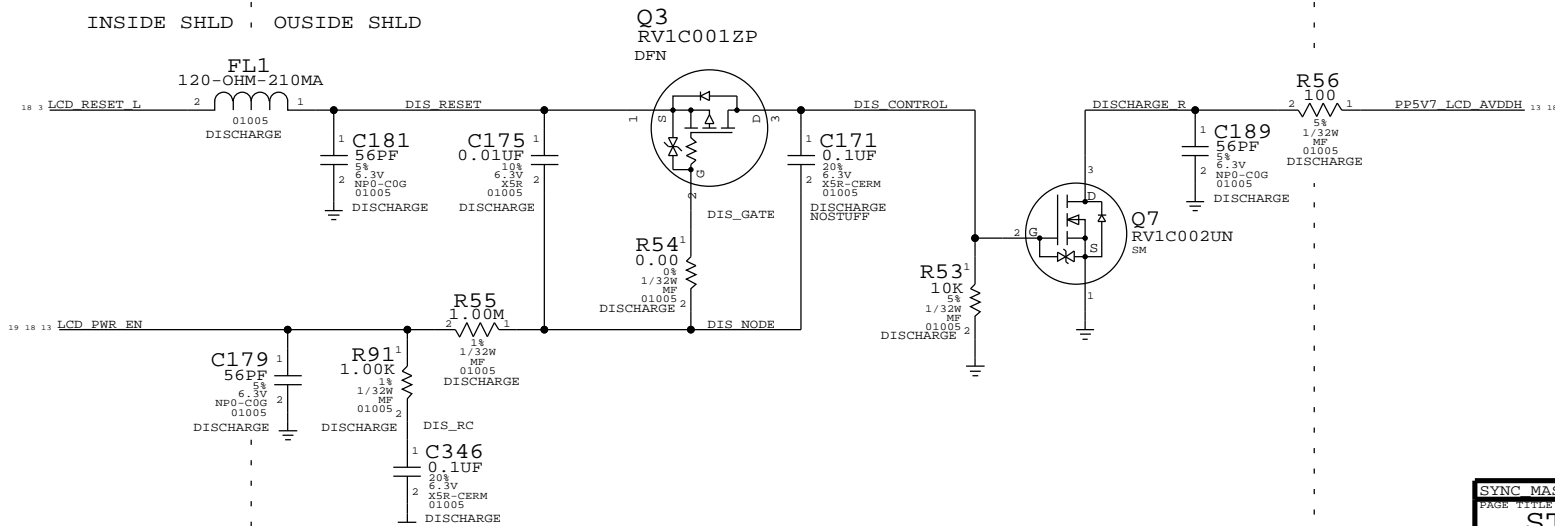
NEGATIVE BOOST SUPPLY



SAGE_VBIAS DISCHARGE



THIS CIRCUIT IS BEHIND THE SIM TRAY




SYNC MASTER=N/A		SYNC DATE=N/A	
PAGE TITLE		STROBE & NEGATIVE RAIL	
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SYMC MASTER-N/A		SYMC DATE-N/A	
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			REVISION 16.0.0
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RADIO BOM OPTIONS

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

HW_ID PA_ID BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
118S0685	1	PA_ID RES DIVIDER	R304_RF	Y	B4_17
118S0656	1	PA_ID RES DIVIDER	R304_RF	Y	B3_13
118S0719	1	PA_ID RES DIVIDER	R302_RF	Y	B4_17
118S0685	1	PA_ID RES DIVIDER	R302_RF	Y	B3_13

SPI NOR BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B4_17
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B3_13

B5/B5E BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3415	1	SKY77487 BAND 5/8 PAD	U1001_RF	Y	B4_17
353S3568	1	SKY77491 BAND5E/8 PAD	U1001_RF	Y	B3_13
155S0552	1	BAND5 TX SAW	FL1001_RF	Y	B4_17
155S0742	1	BAND5/BC10 TX SAW	FL1001_RF	Y	B3_13
152S1563	1	1.5NH, INDUCTOR - MURATA	L1001_RF	Y	B4_17
152S1662	1	1.5NH, INDUCTOR - TDK	L1001_RF	Y	B3_13
152S1577	1	15NH, INDUCTOR - MURATA	L1002_RF	Y	B4_17
152S1665	1	15NH, INDUCTOR - TDK	L1002_RF	Y	B3_13
152S1576	1	12NH, INDUCTOR - MURATA	L1003_RF	Y	B4_17
152S1664	1	12NH, INDUCTOR - TDK	L1003_RF	Y	B3_13
152S1570	1	4.7NH, INDUCTOR - MURATA	L1010_RF	Y	B4_17
152S1663	1	4.7NH, INDUCTOR - TDK	L1010_RF	Y	B3_13

B13/17 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1328	1	4.3NH INDUCTOR - 0201	C1111_RF	Y	B4_17
152S1353	1	3.6NH INDUCTOR - 0201	C1111_RF	Y	B3_13
131S0198	1	1.8PF CAPACITOR - 0201	L1103_RF	Y	B4_17
118S0724	1	0 OHM JUMPER - 0201	C1112_RF	Y	B4_17
131S0204	1	22PF CAPACITOR - 0201	C1112_RF	Y	B3_13
118S0724	1	0 OHM JUMPER - 0201	L1105_RF	Y	B4_17
152S1443	1	2.0NH INDUCTOR - 0201	L1105_RF	Y	B3_13
152S1320	1	7.5NH INDUCTOR - 0201	C1113_RF	Y	B4_17
131S0166	1	39PF CAPACITOR - 0201	C1113_RF	Y	B3_13
131S0176	1	2.4PF CAPACITOR - 0201	C1117_RF	Y	B4_17

DCDC BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B4_17
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B3_13
152S1564	1	2.4NH, INDUCTOR - MURATA	L1205_RF	Y	B4_17
152S1564	1	2.4NH, INDUCTOR - MURATA	L1205_RF	Y	B3_13

WIFI BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B4_17
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B3_13
339S0175	1	WIFI MODULE - USI	U1801_RF	Y	B4_17
339S0175	1	WIFI MODULE - USI	U1801_RF	Y	B3_13

SINGING CAP BOM OPTIONS
NEED TO COPY FROM AP TABLE
WHEN STAN FINISHES

B5/B5E BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
117S0002	1	0 OHM RESISTOR - 0201	C1023_RF	Y	B4_17
152S1343	1	12NH INDUCTOR - 0201	C1012_RF	Y	B4_17
131S0428	1	10PF CAPACITOR - 0201	L1004_RF	Y	B4_17
131S0457	1	100PF CAPACITOR - 0201	C1023_RF	Y	B3_13
131S0425	1	0.5PF CAPACITOR - 0201	C1012_RF	Y	B3_13
152S1336	1	8.2NH INDUCTOR - 0201	L1004_RF	Y	B3_13

B13/17 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S0620	1	BAND17 TX SAW	FL1101_RF	Y	B4_17
155S0619	1	BAND13 TX SAW	FL1101_RF	Y	B3_13
353S3567	1	BAND17 PAM - SKYWORKS	U1101_RF	Y	B4_17
353S3441	1	BAND13 PAM - AVAGO	U1101_RF	Y	B3_13
155S0709	1	BAND17 DUPLEXER - MURATA	U1102_RF	Y	B4_17
155S0738	1	BAND13 DUPLEXER - EPCOS	U1102_RF	Y	B3_13
152S1336	1	BAND17 INDUCTOR - 8.2NH	L1104_RF	Y	B4_17
152S1342	1	BAND13 INDUCTOR - 15NH	L1104_RF	Y	B3_13
152S1577	1	15NH, INDUCTOR - MURATA	L1102_RF	Y	B4_17
152S1576	1	12NH, INDUCTOR - MURATA	L1102_RF	Y	B3_13

B2 PAD BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3715	1	TQM666084 B2 TQS PAD	U1501_RF	Y	B4_17
353S3459	1	TQM666083 B2S TQS PAD	U1501_RF	Y	B3_13

DIVERISTY MODULE BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3516	1	B17 MURATA DIVERSITY MODULE	U1601_RF	Y	B4_17
353S3562	1	B13/BC10 DIVERSITY MODULE	U1601_RF	Y	B3_13

B3/DCS1800 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S0596	1	DCS1800 RX FIL	FL1301_RF	Y	B4_17
155S0729	1	BAND3 RX FIL	FL1301_RF	Y	B3_13
155S0695	1	THRU LINE	FL1302_RF	Y	B4_17
155S0722	1	BAND13 TX LPF	FL1302_RF	Y	B3_13
152S1656	1	3.0NH INDUCTOR	R1301_RF	Y	B3_13
152S1742	1	1.6NH INDUCTOR	R1302_RF	Y	B4_17
118S0652	1	49.90HM RES	R1303_RF	Y	B3_13
118S0652	1	49.90HM RES	R1305_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR	L1304_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1304_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR	L1305_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1305_RF	Y	B3_13
152S1569	1	3.9NH INDUCTOR	L1301_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR	L1301_RF	Y	B3_13

B3/B4 RX BOM OPTIONS


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1570	1	4.7NH INDUCTOR - 01005	C1414_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 01005	C1415_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 01005	C1420_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR - 01005	L1416_RF	Y	B4_17
152S1571	1	5.6NH INDUCTOR - 01005	C1414_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 01005	C1415_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 01005	C1420_RF	Y	B3_13
152S1571	1	5.6NH INDUCTOR - 01005	L1416_RF	Y	B3_13
131S0219	1	10PF CAPACITOR - 01005	L1420_RF	Y	B4_17
131S0219	1	10PF CAPACITOR - 01005	L1421_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR - 01005	L1420_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR - 01005	L1421_RF	Y	B3_13
152S1328	1	4.3NH INDUCTOR - 0201	R1402_RF	Y	B4_17
152S1688	1	3.5NH INDUCTOR - 0201	C1416_RF	Y	B4_17
152S1284	1	3.3NH INDUCTOR - 0201	R1402_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1416_RF	Y	B3_13

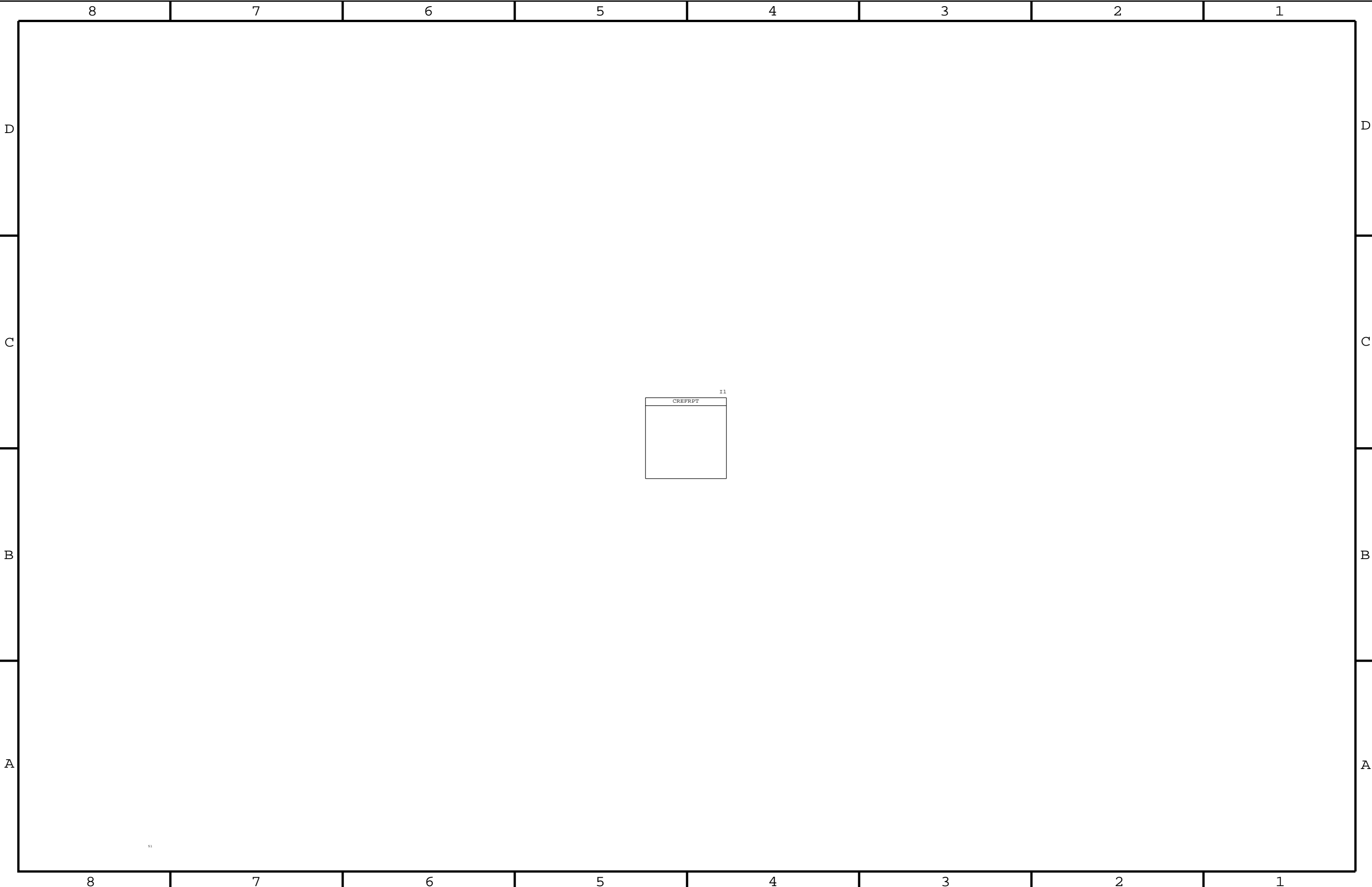
B3/B4 TX BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S0215	1	22PF CAPACITOR - 01005	L1417_RF	Y	B4_17
152S1569	1	3.9NH INDUCTOR - 01005	L1417_RF	Y	B3_13
131S0369	1	0.5PF CAPACITOR - 01005	L1408_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1425_RF	Y	B4_17
152S1221	1	2.7NH INDUCTOR - 0201	L1419_RF	Y	B4_17
131S0551	1	1.2PF CAPACITOR - 0201	L1415_RF	Y	B4_17
152S1284	1	3.3NH INDUCTOR - 0201	C1425_RF	Y	B3_13
152S1221	1	2.7NH INDUCTOR - 0201	L1419_RF	Y	B3_13
131S0551	1	1.2PF CAPACITOR - 0201	L1415_RF	Y	B3_13

B3/B4 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3255	1	B1/4 PAD - AVAGO	U1401_RF	Y	B4_17
353S3443	1	B1/3 PAD - AVAGO	U1401_RF	Y	B3_13
155S0590	1	B4 TX FIL	FL1402_RF	Y	B4_17
155S0712	1	B3 TX FIL	FL1402_RF	Y	B3_13

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87654321

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 APPD
DATE

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2012-07-02

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N41 RADIO_MLB SUBDESIGN

RADIO - 07/12/2012:SUBDESIGN

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17

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BOM OPTION TABLES

PART#

QTY

DESCRIPTION

REFERENCE DESIGNATOR(S)

CRITICAL

BOM OPTION

051-9119

1

N41_RADIO_MLB

SCH

Y

825-2029

1

EEE FOR 639-2482

EEEE_DNVM

Y

B4_17

825-2029

1

EEE FOR 639-3241

EEEE_DW3L

Y

B3_13

SCH # : 051-9119

BOM (B4_17) : 639-2482

BOM (B3_13) : 639-3241

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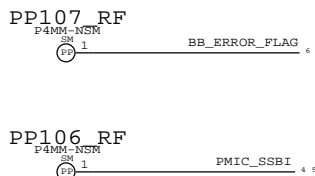
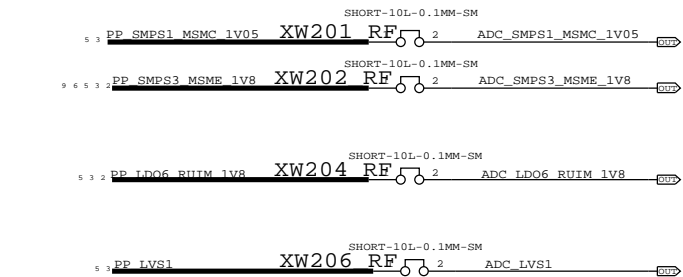
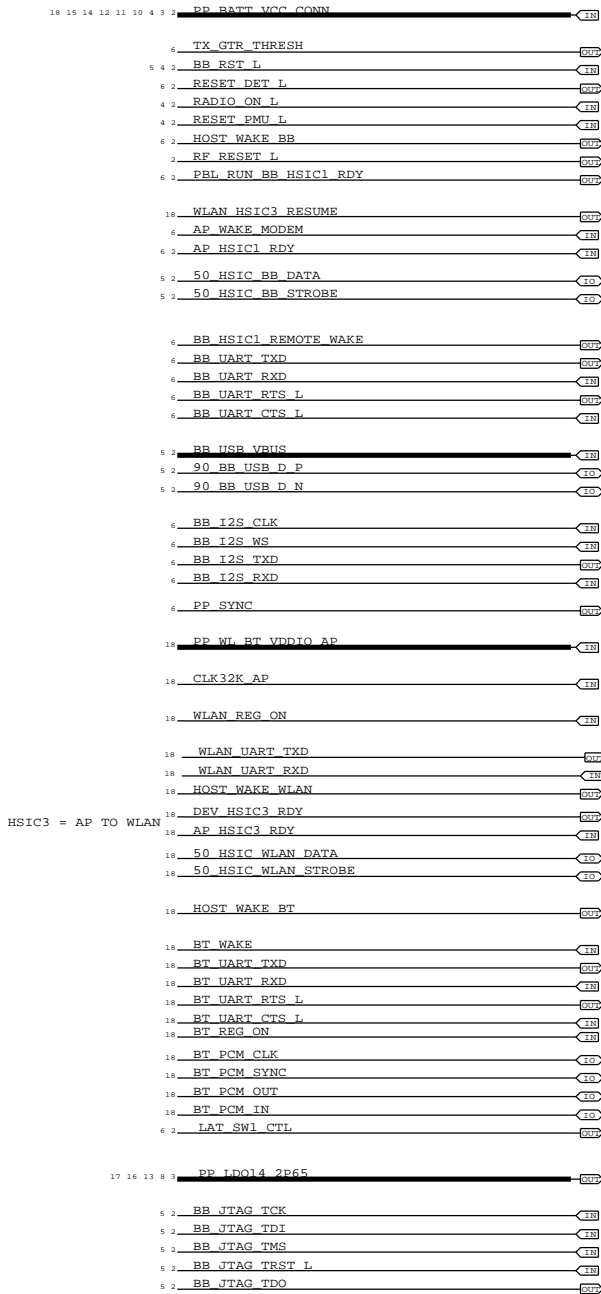
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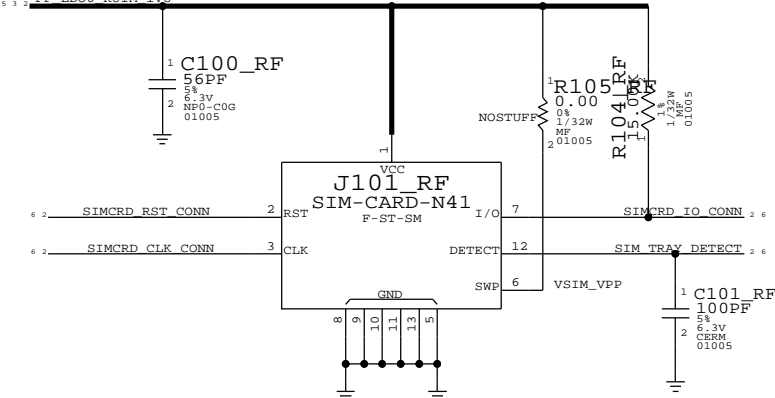
AP INTERFACE & DEBUG CONNECTOR

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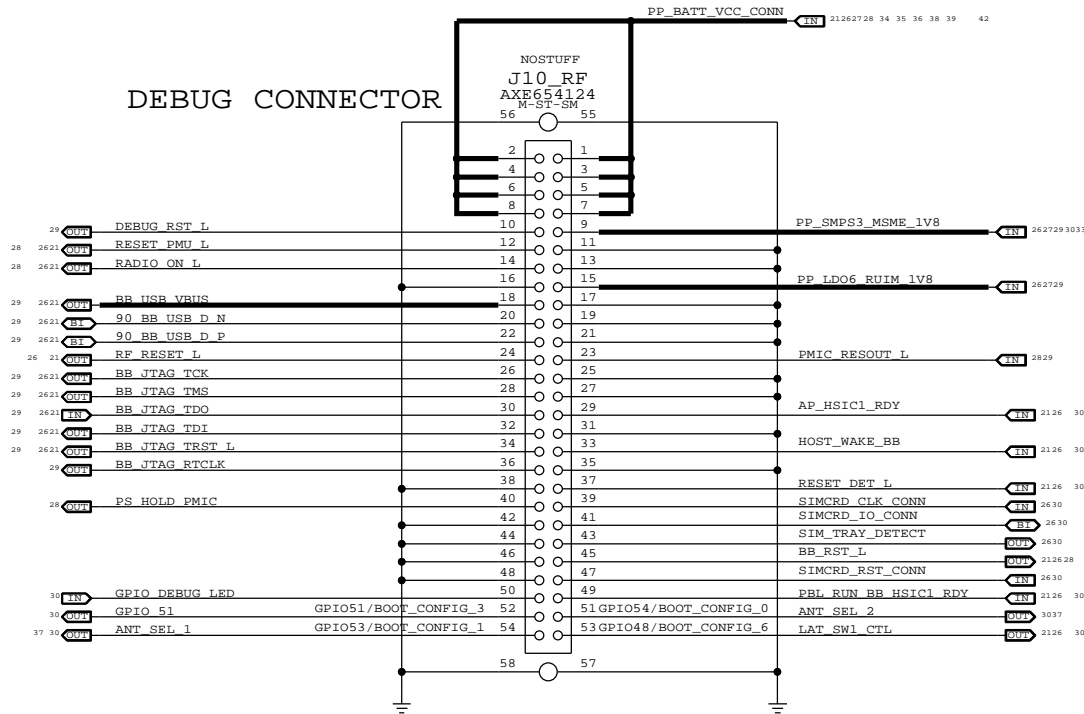
AP CONNECTIONS



SIM CARD CONNECTOR




DEBUG CONNECTOR



BOOT OPTIONS	BOOT_CONFIG SW REGISTER VALUE	GPIO/BOOT_CONFIG CONFIGURATION									
		47	48	49	50	51	52	53	54	55	
BOOT_DEFAULT_OPTION	0X00	X	0	0	0	0	0	0	0	0	X
BOOT_NAND_OPTION	0X01	X	1	0	0	0	0	0	1	1	X
BOOT_HSIC_OPTION	0X02	X	1	0	0	0	0	1	0	0	X
BOOT_USB_OPTION	0X03	X	1	0	0	0	0	1	1	1	X
ENABLE SAHARA PROTOCOL	0X08	X	1	0	0	1	0	X	X	X	X

R R105
C C101
XWXW206
DZDZ101
U U101

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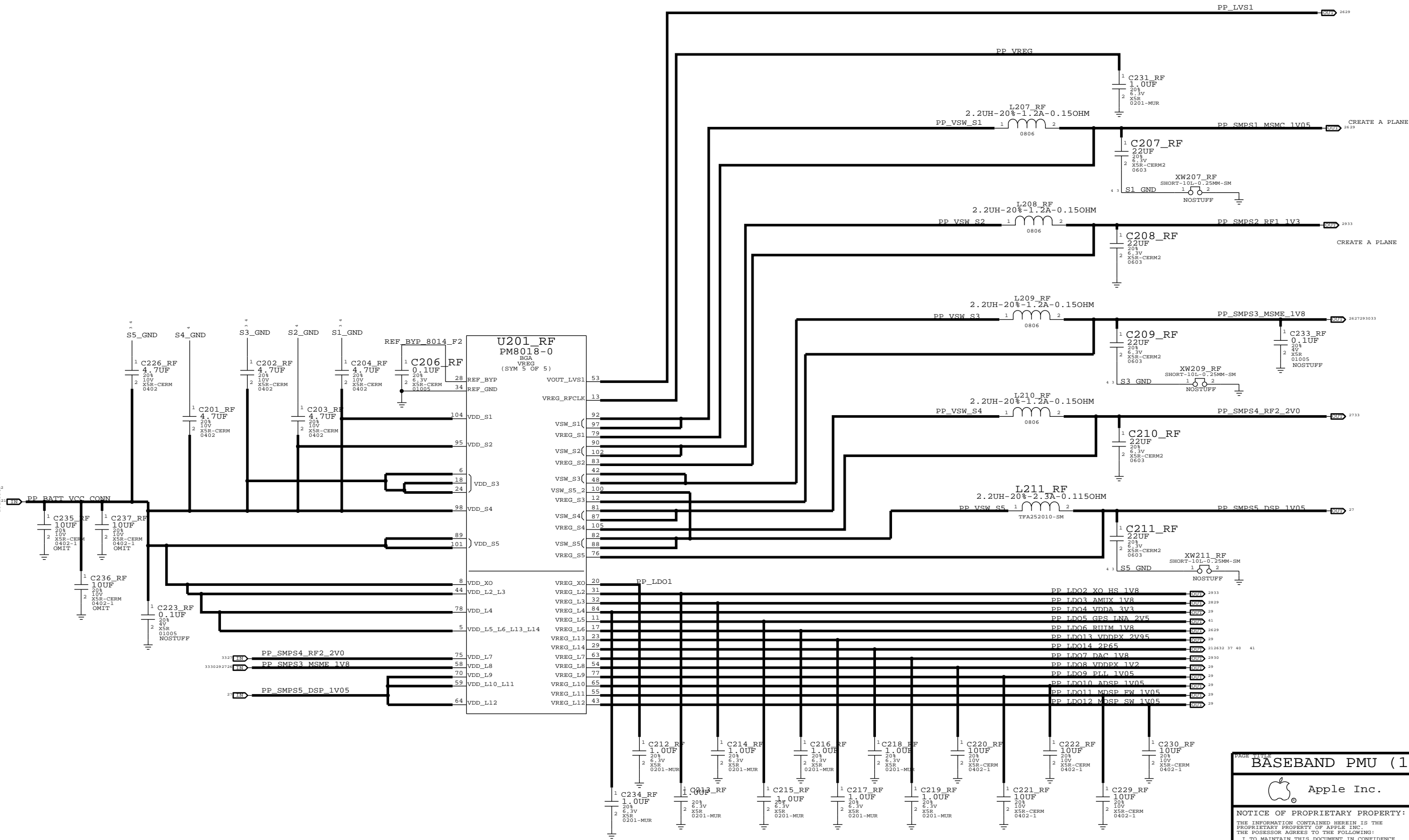
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R R207
C C237
L L211
U U201

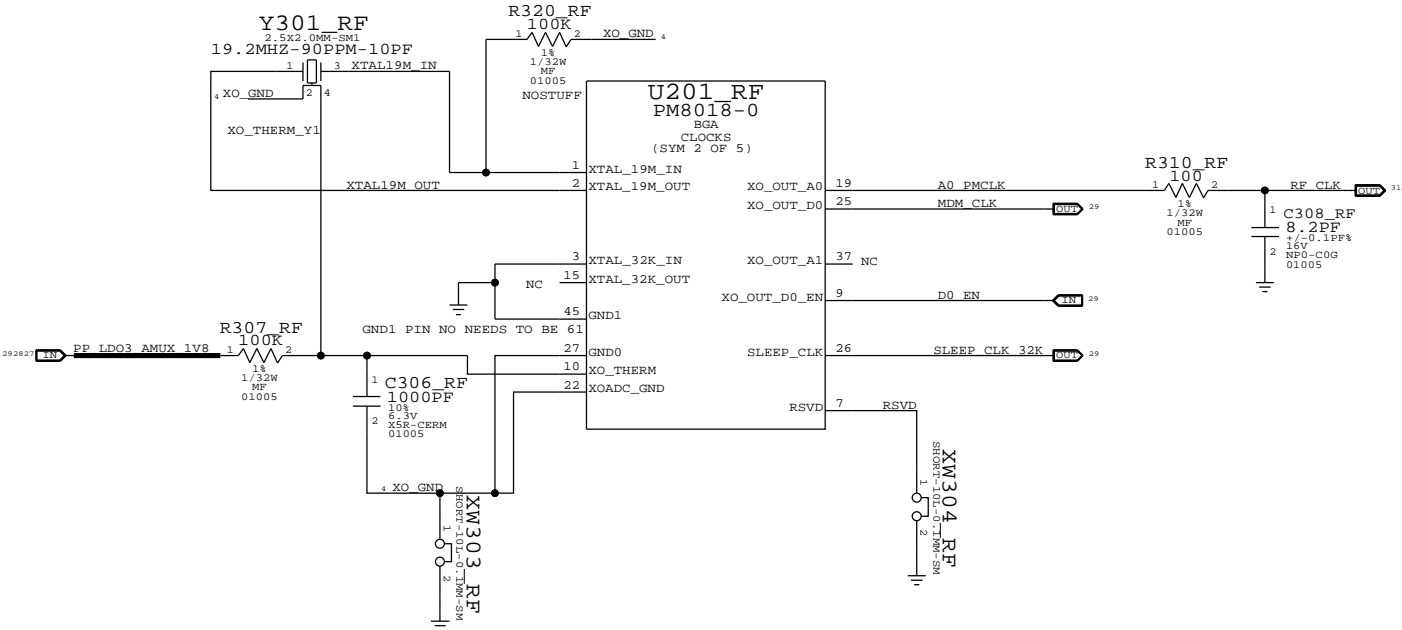
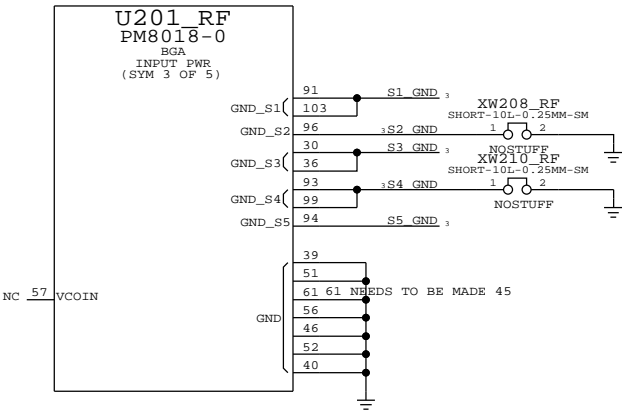
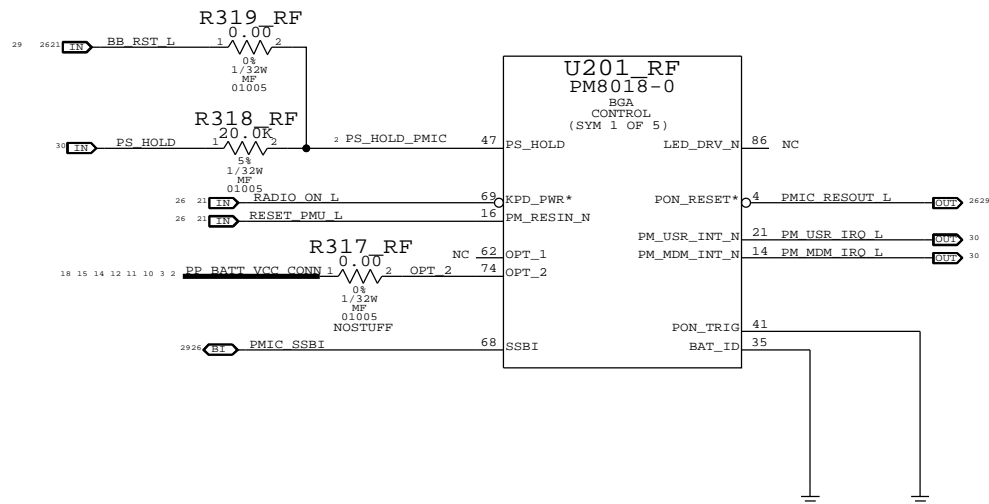
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BASEBAND PMU (2 OF 2)


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BOARD_ID	REVISION
0.25V : >0.2V && <0.4V	PROTO1
0.50V : >0.4V && <0.6V	PROTO2
0.70V : >0.6V && <0.8V	PROTO3
0.90V : >0.8V && <1.0V	EVT1
1.10V : >1.0V && <1.2V	EVT2
1.30V : >1.2V && <1.4V	EVT3/PVT

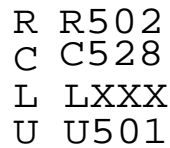
PA_ID	PA CONFIG
0.25V >0.2V && <0.4V	B4_17 MAIN
0.50V >0.4V && <0.6V	BUILD MATRIX
0.70V >0.6V && <0.8V	BUILD MATRIX
1.10V >1.0V && <1.2V	B3_13 MAIN
1.30V >1.2V && <1.4V	BUILD MATRIX
1.50V >1.4V && <1.6V	BUILD MATRIX




R R320
C C309
L LXXX
U U301
XW XW305

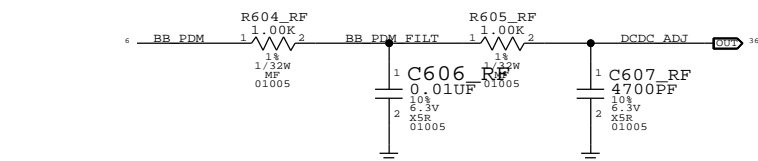
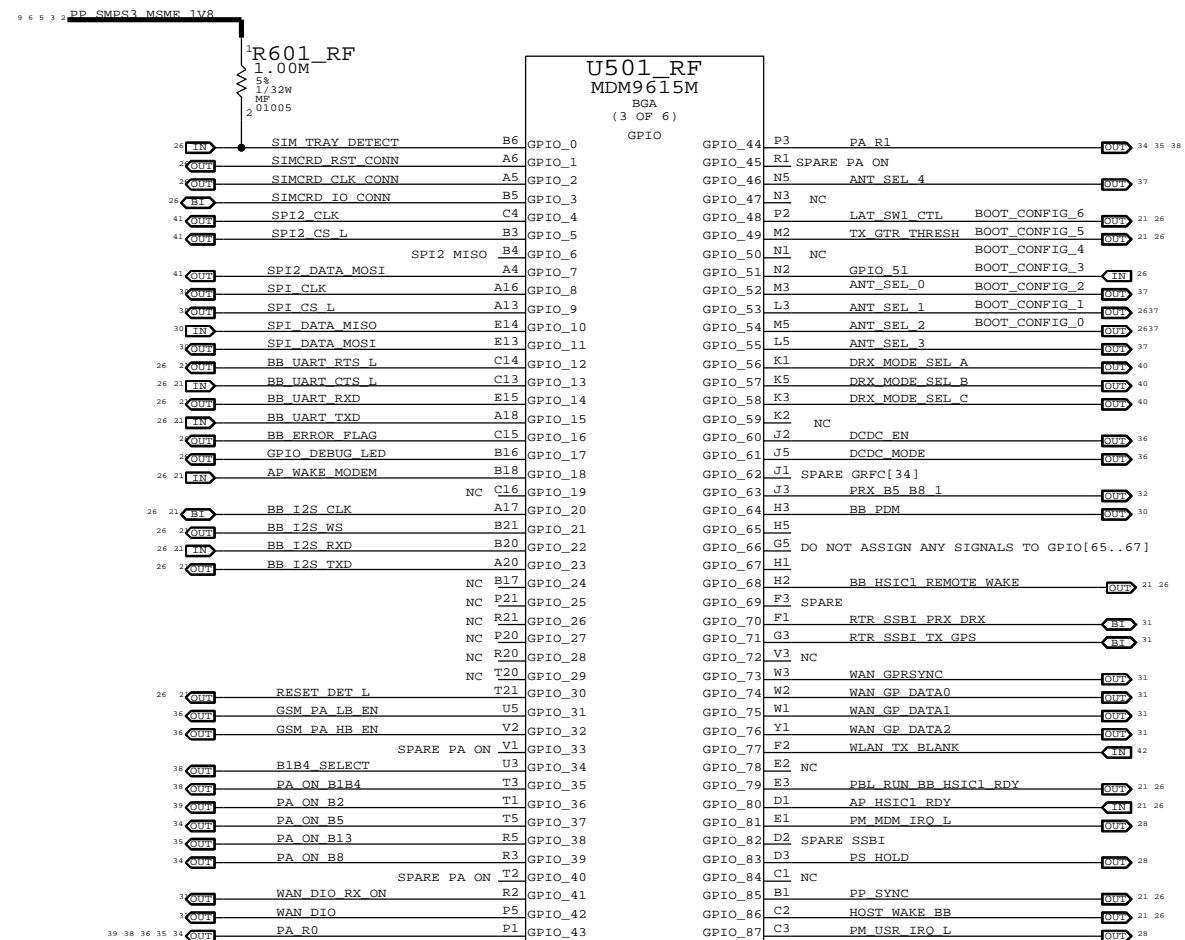
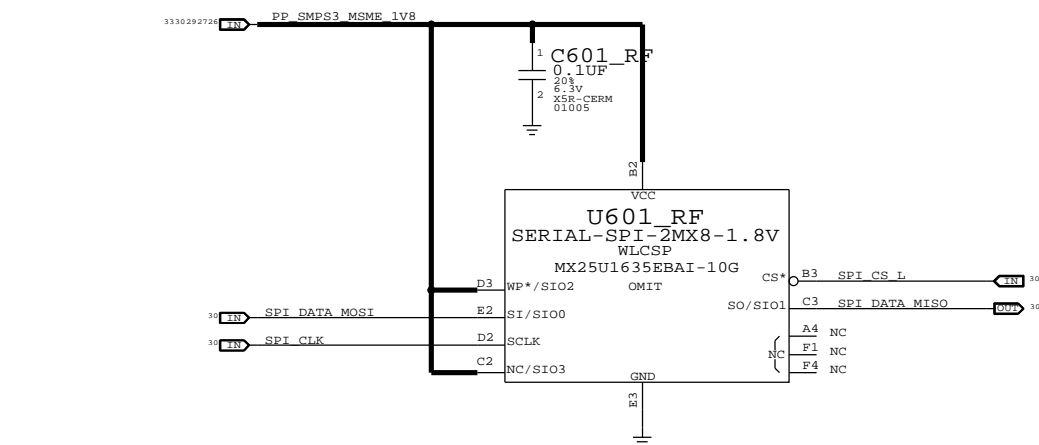
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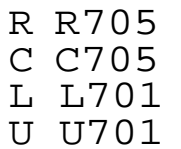
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R R608
C C609
L L601

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RF TRANSCEIVER SWITCHING NETWORKS (2 OF 3)

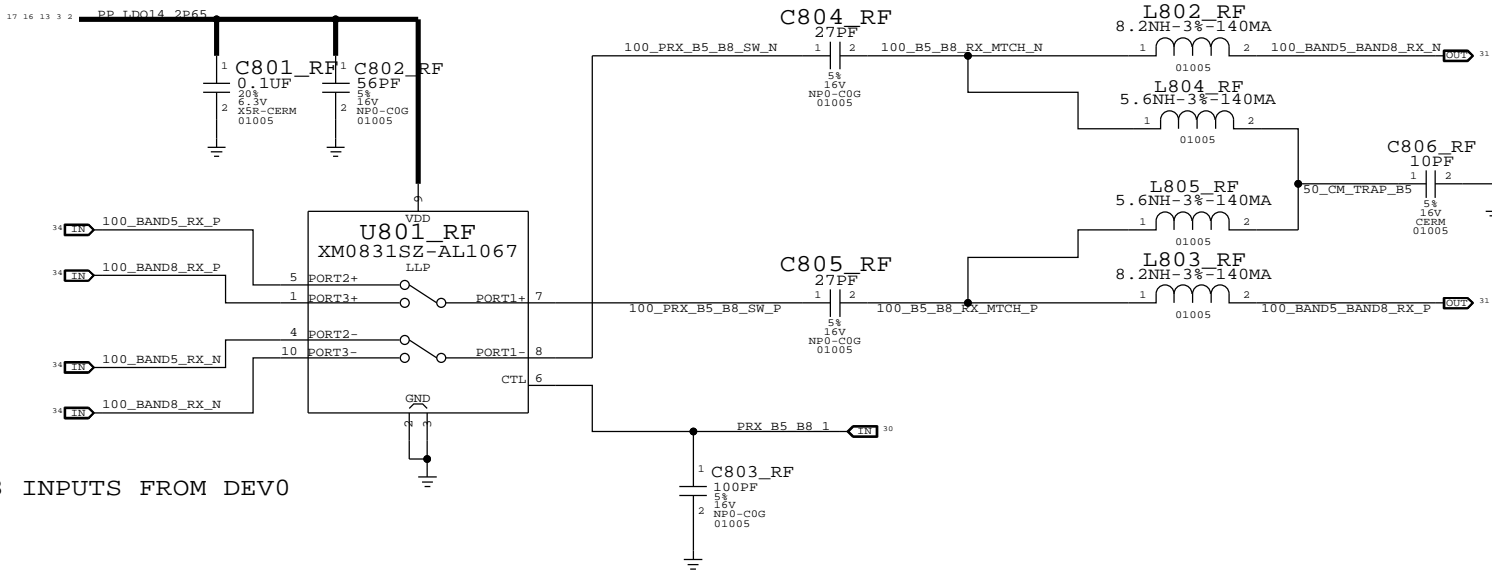
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BAND 5/BAND 8 PRX TRANSCEIVER SWITCH


XM0830SZ SWITCH LOGIC

PRX_B5_B8	ACTIVE BAND	PORT
=====	=====	=====
HIGH	8	PORT 1 TO PORT 3
LOW	5	PORT 1 TO PORT 2

SWAPPED BAND5 AND BAND8 INPUTS FROM DEV0



R RXXX
C C806
L L803
U U801

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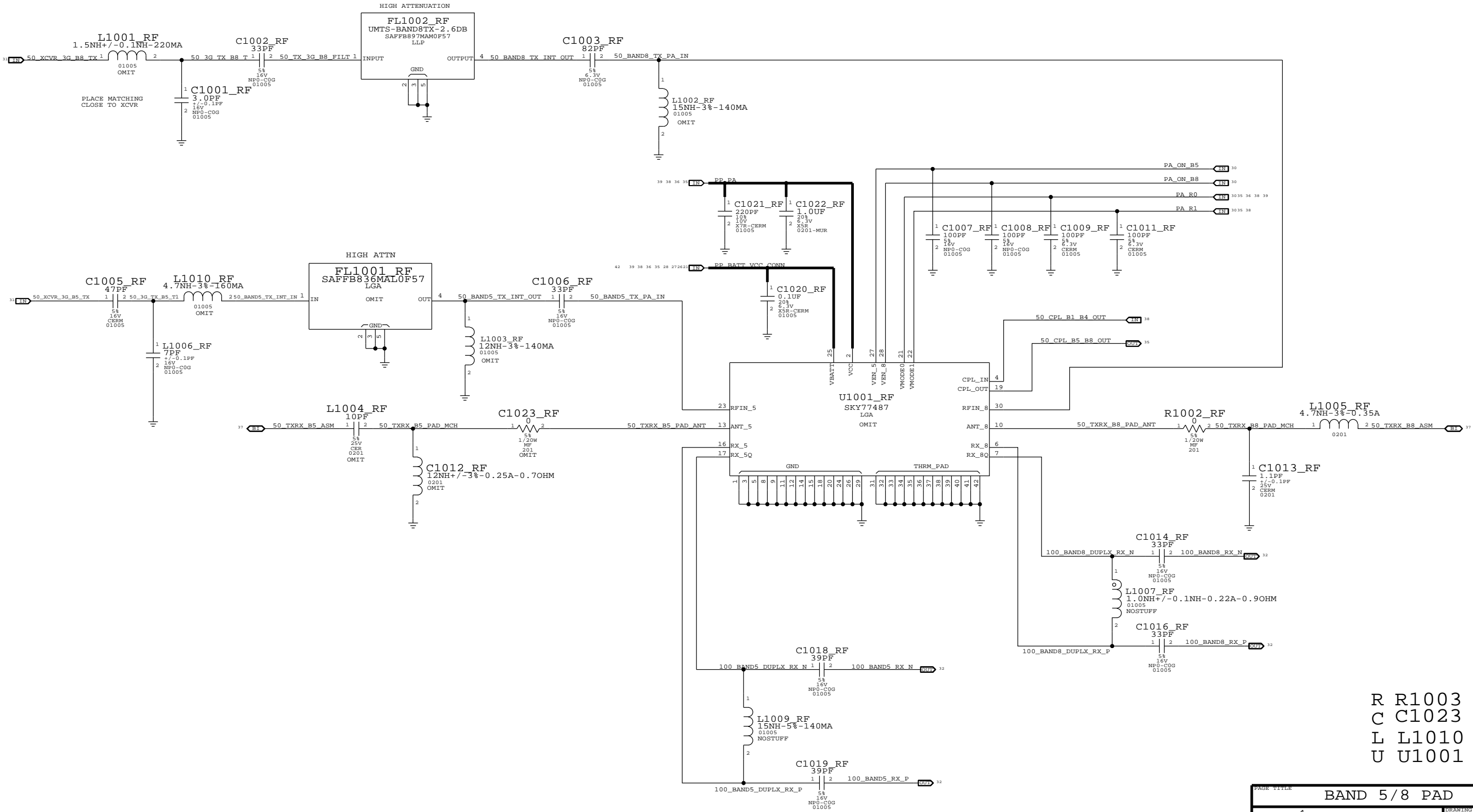
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BAND 5/8 PAD

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R R1003
C C1023
L L1010
U U1001

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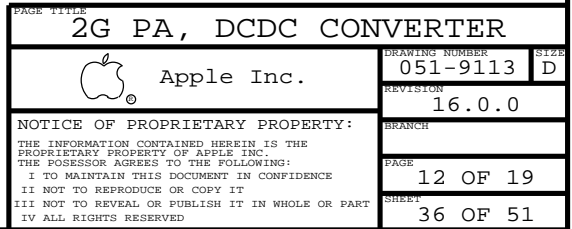
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FLFL1101
R  R1102
C  C1118
L  L1108
U  U1102
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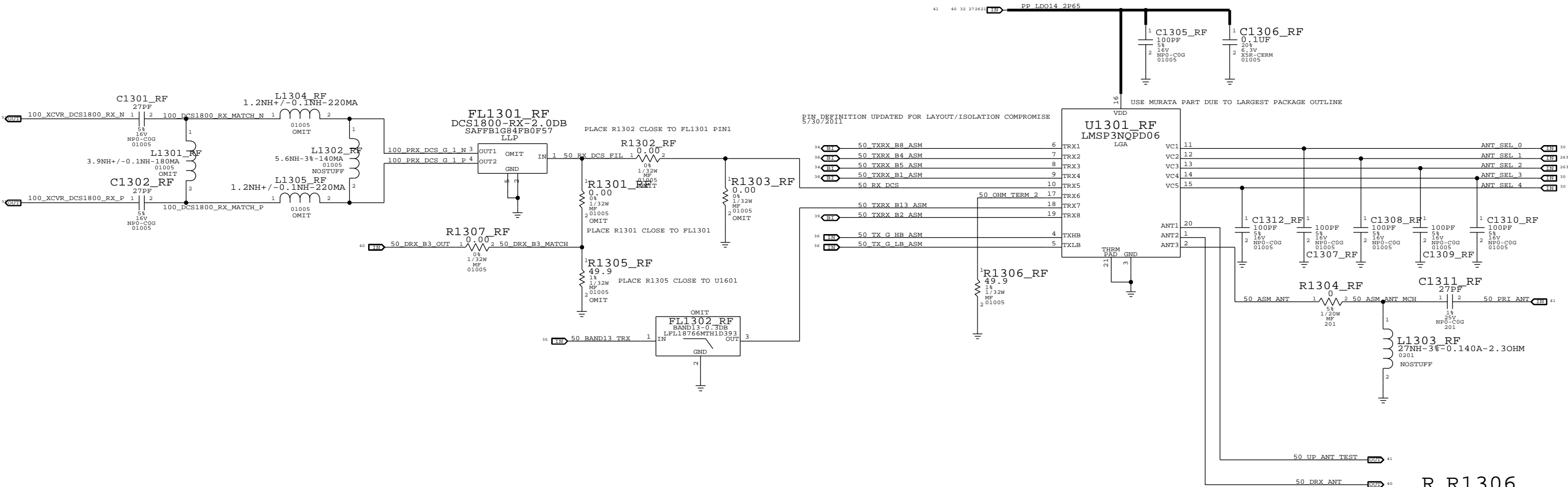
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R	R1209
C	C1220
L	L1207
U	U1202




ASM, DCS RX

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R R1306
C C1312
L 1305
U U1301
FL FL1302

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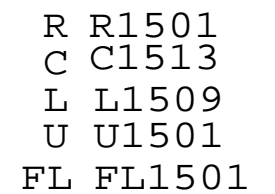
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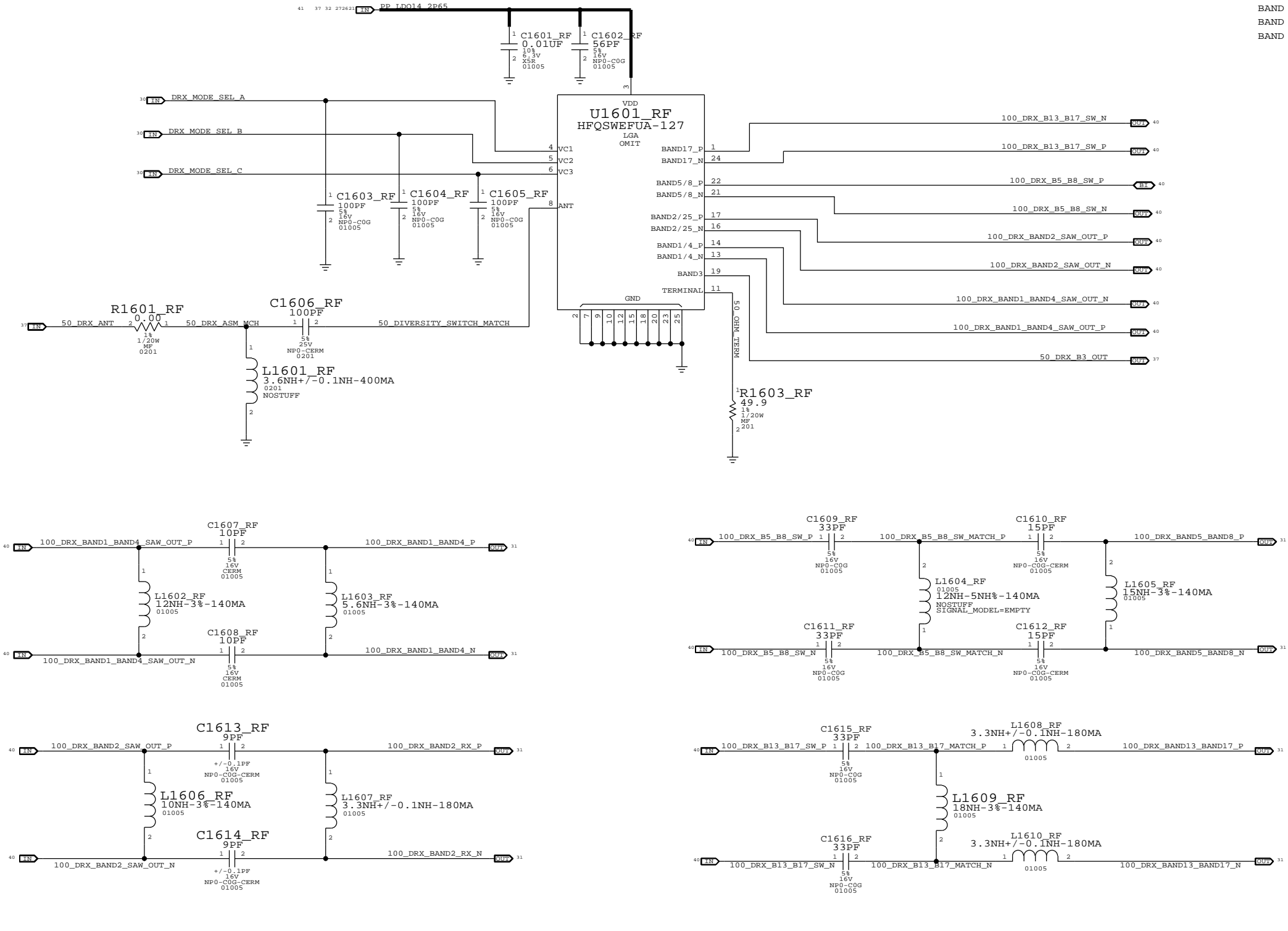
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RX DIVERSITY


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DIVERSITY MODULE LOGIC

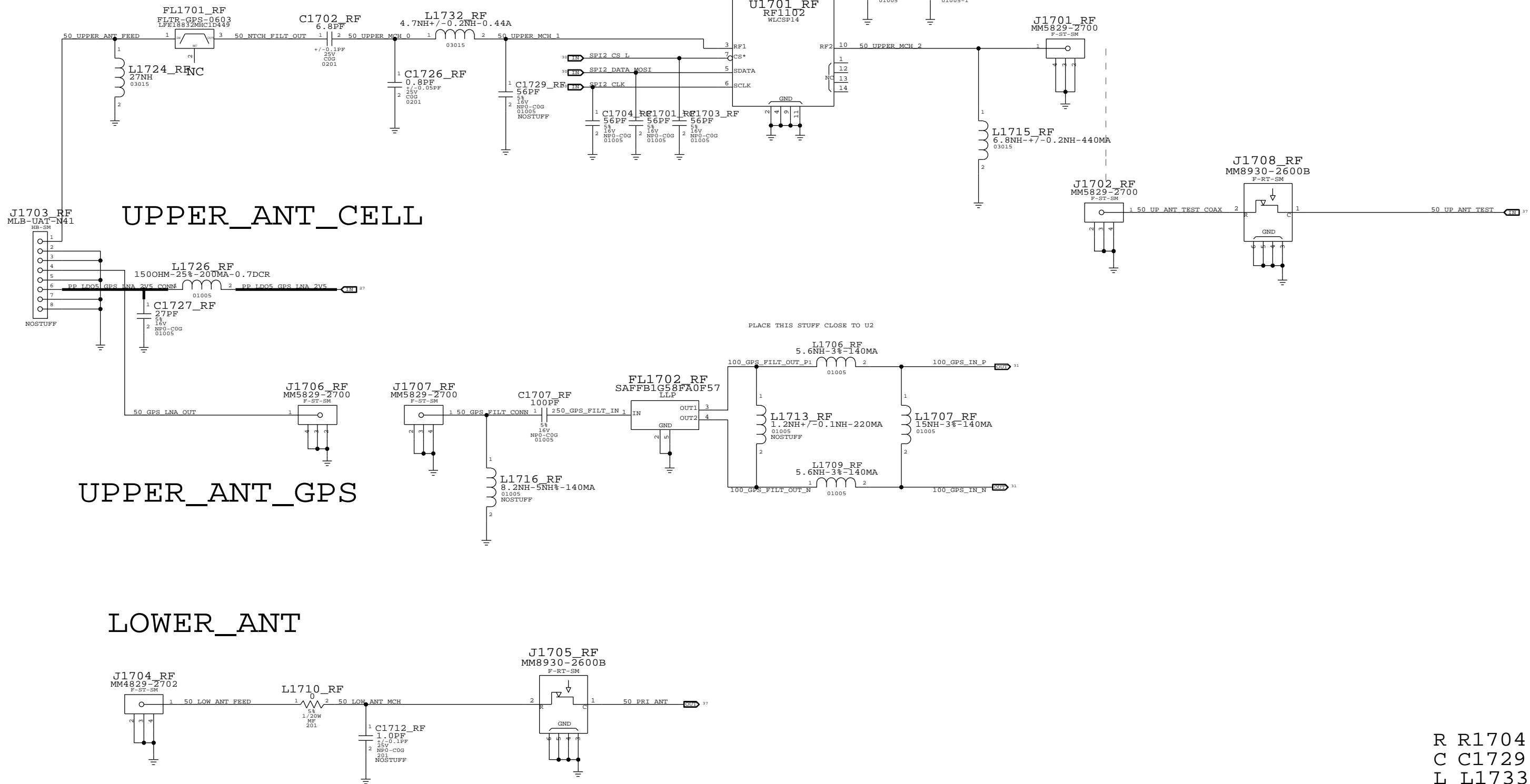
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BAND 1/4			
BAND 2			
BAND 5			
BAND 8			
BAND 13/17			




R R1603
C C1616
L L1610
U U1601

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GPS



R R1704
C C1729
L L1733
U U1703

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RADIO BOM OPTIONS

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HW_ID PA_ID BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
118S0685	1	PA_ID RES DIVIDER	R304_RF	Y	B4_17
118S0656	1	PA_ID RES DIVIDER	R304_RF	Y	B3_13
118S0719	1	PA_ID RES DIVIDER	R302_RF	Y	B4_17
118S0685	1	PA_ID RES DIVIDER	R302_RF	Y	B3_13

SPI NOR BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B4_17
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B3_13

B5/B5E BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3415	1	SKY77487 BAND 5/8 PAD	U1001_RF	Y	B4_17
353S3568	1	SKY77491 BAND5E/8 PAD	U1001_RF	Y	B3_13
155S0552	1	BAND5 TX SAW	FL1001_RF	Y	B4_17
155S0742	1	BAND5/BC10 TX SAW	FL1001_RF	Y	B3_13
152S1563	1	1.5NH, INDUCTOR - MURATA	L1001_RF	Y	B4_17
152S1662	1	1.5NH, INDUCTOR - TDK	L1001_RF	Y	B3_13
152S1577	1	15NH, INDUCTOR - MURATA	L1002_RF	Y	B4_17
152S1665	1	15NH, INDUCTOR - TDK	L1002_RF	Y	B3_13
152S1576	1	12NH, INDUCTOR - MURATA	L1003_RF	Y	B4_17
152S1664	1	12NH, INDUCTOR - TDK	L1003_RF	Y	B3_13
152S1570	1	4.7NH, INDUCTOR - MURATA	L1010_RF	Y	B4_17
152S1663	1	4.7NH, INDUCTOR - TDK	L1010_RF	Y	B3_13

B13/17 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1328	1	4.3NH INDUCTOR - 0201	C1111_RF	Y	B4_17
152S1353	1	3.6NH INDUCTOR - 0201	C1111_RF	Y	B3_13
131S0198	1	1.8PF CAPACITOR - 0201	L1103_RF	Y	B4_17
118S0724	1	0 OHM JUMPER - 0201	C1112_RF	Y	B4_17
131S0204	1	22PF CAPACITOR - 0201	C1112_RF	Y	B3_13
118S0724	1	0 OHM JUMPER - 0201	L1105_RF	Y	B4_17
152S1443	1	2.0NH INDUCTOR - 0201	L1105_RF	Y	B3_13
152S1320	1	7.5NH INDUCTOR - 0201	C1113_RF	Y	B4_17
131S0166	1	39PF CAPACITOR - 0201	C1113_RF	Y	B3_13
131S0176	1	2.4PF CAPACITOR - 0201	C1117_RF	Y	B4_17

DCDC BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B4_17
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B3_13
152S1564	1	2.4NH, INDUCTOR - MURATA	L1205_RF	Y	B4_17
152S1564	1	2.4NH, INDUCTOR - MURATA	L1205_RF	Y	B3_13

WIFI BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B4_17
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B3_13
339S0175	1	WIFI MODULE - USI	U1801_RF	Y	B4_17
339S0175	1	WIFI MODULE - USI	U1801_RF	Y	B3_13

SINGING CAP BOM OPTIONS
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B5/B5E BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
117S0002	1	0 OHM RESISTOR - 0201	C1023_RF	Y	B4_17
152S1343	1	12NH INDUCTOR - 0201	C1012_RF	Y	B4_17
131S0428	1	10PF CAPACITOR - 0201	L1004_RF	Y	B4_17
131S0457	1	100PF CAPACITOR - 0201	C1023_RF	Y	B3_13
131S0425	1	0.5PF CAPACITOR - 0201	C1012_RF	Y	B3_13
152S1336	1	8.2NH INDUCTOR - 0201	L1004_RF	Y	B3_13

B13/17 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S0620	1	BAND17 TX SAW	FL1101_RF	Y	B4_17
155S0619	1	BAND13 TX SAW	FL1101_RF	Y	B3_13
353S3567	1	BAND17 PAM - SKYWORKS	U1101_RF	Y	B4_17
353S3441	1	BAND13 PAM - AVAGO	U1101_RF	Y	B3_13
155S0709	1	BAND17 DUPLEXER - MURATA	U1102_RF	Y	B4_17
155S0738	1	BAND13 DUPLEXER - EPCOS	U1102_RF	Y	B3_13
152S1336	1	BAND17 INDUCTOR - 8.2NH	L1104_RF	Y	B4_17
152S1342	1	BAND13 INDUCTOR - 15NH	L1104_RF	Y	B3_13
152S1577	1	15NH, INDUCTOR - MURATA	L1102_RF	Y	B4_17
152S1576	1	12NH, INDUCTOR - MURATA	L1102_RF	Y	B3_13

B2 PAD BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3715	1	TQM666084 B2 TQS PAD	U1501_RF	Y	B4_17
353S3459	1	TQM666083 B25 TQS PAD	U1501_RF	Y	B3_13

DIVERISTY MODULE BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3516	1	B17 MURATA DIVERSITY MODULE	U1601_RF	Y	B4_17
353S3562	1	B13/BC10 DIVERSITY MODULE	U1601_RF	Y	B3_13

B3/DCS1800 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S0596	1	DCS1800 RX FIL	FL1301_RF	Y	B4_17
155S0729	1	BAND3 RX FIL	FL1301_RF	Y	B3_13
155S0695	1	THRU LINE	FL1302_RF	Y	B4_17
155S0722	1	BAND13 TX LPF	FL1302_RF	Y	B3_13
152S1656	1	3.0NH INDUCTOR	R1301_RF	Y	B3_13
152S1742	1	1.6NH INDUCTOR	R1302_RF	Y	B4_17
118S0652	1	49.9OHM RES	R1303_RF	Y	B3_13
118S0652	1	49.9OHM RES	R1305_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR	L1304_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1304_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR	L1305_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1305_RF	Y	B3_13
152S1569	1	3.9NH INDUCTOR	L1301_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR	L1301_RF	Y	B3_13

B3/B4 RX BOM OPTIONS


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1570	1	4.7NH INDUCTOR - 01005	C1414_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 01005	C1415_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 01005	C1420_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR - 01005	L1416_RF	Y	B4_17
152S1571	1	5.6NH INDUCTOR - 01005	C1414_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 01005	C1415_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 01005	C1420_RF	Y	B3_13
152S1571	1	5.6NH INDUCTOR - 01005	L1416_RF	Y	B3_13
131S0219	1	10PF CAPACITOR - 01005	L1420_RF	Y	B4_17
131S0219	1	10PF CAPACITOR - 01005	L1421_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR - 01005	L1420_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR - 01005	L1421_RF	Y	B3_13
152S1328	1	4.3NH INDUCTOR - 0201	R1402_RF	Y	B4_17
152S1688	1	3.5NH INDUCTOR - 0201	C1416_RF	Y	B4_17
152S1284	1	3.3NH INDUCTOR - 0201	R1402_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1416_RF	Y	B3_13

B3/B4 TX BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S0215	1	22PF CAPACITOR - 01005	L1417_RF	Y	B4_17
152S1569	1	3.9NH INDUCTOR - 01005	L1417_RF	Y	B3_13
131S0369	1	0.5PF CAPACITOR - 01005	L1408_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1425_RF	Y	B4_17
152S1221	1	2.7NH INDUCTOR - 0201	L1419_RF	Y	B4_17
131S0551	1	1.2PF CAPACITOR - 0201	L1415_RF	Y	B4_17
152S1284	1	3.3NH INDUCTOR - 0201	C1425_RF	Y	B3_13
152S1221	1	2.7NH INDUCTOR - 0201	L1419_RF	Y	B3_13
131S0551	1	1.2PF CAPACITOR - 0201	L1415_RF	Y	B3_13

B3/B4 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3255	1	B1/4 PAD - AVAGO	U1401_RF	Y	B4_17
353S3443	1	B1/3 PAD - AVAGO	U1401_RF	Y	B3_13
155S0590	1	B4 TX FIL	FL1402_RF	Y	B4_17
155S0712	1	B3 TX FIL	FL1402_RF	Y	B3_13

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D	CUMULUS_IN<4>	CUMULUS_IN<4> - @single_brd_lib.SINGLE_BRD	17C7	17D2	E_ACC2_CONN	E_ACC2_CONN - @single_brd_lib.SINGLE_BRD	16B4	22B4	HS4_CONTROL_CONN	HS4_CONTROL_CONN - @single_brd_lib.SINGLE_BRD	16C5	INT_MIC3_N	@single_brd_lib.SINGLE_BRD	INT_MIC3_N - @single_brd_lib.SINGLE_BRD	9B7	11B2	D						
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	CUMULUS_IN<13>	CUMULUS_IN<13> - @single_brd_lib.SINGLE_BRD	17C2	17C7	FM10_DQVREF	FM10_DQVREF - @single_brd_lib.SINGLE_BRD	6B3	6B6	12C_SCL_ALS	12C_SCL_ALS - @single_brd_lib.SINGLE_BRD	11C5		KEEPACT	KEEPACT - @single_brd_lib.SINGLE_BRD	3B7	13C2							
C	CUMULUS_IN<14>	CUMULUS_IN<14> - @single_brd_lib.SINGLE_BRD	17C2	17C7	FM10_I0<0>	FM10_I0<0> - @single_brd_lib.SINGLE_BRD	6B6	6C4	12C_SCL_COMP	12C_SCL_COMP - @single_brd_lib.SINGLE_BRD	14A5	14A7	14B6	L19_FILT	L19_FILT - @single_brd_lib.SINGLE_BRD	14D4		C					
	CUMULUS_PROX_RX	CUMULUS_PROX_RX - @single_brd_lib.SINGLE_BRD	17C7		FM10_I0<1>	FM10_I0<1> - @single_brd_lib.SINGLE_BRD	6C4	6C8	I2C_SDA_ALS	I2C_SDA_ALS - @single_brd_lib.SINGLE_BRD	11C5		L19_IREF	L19_IREF - @single_brd_lib.SINGLE_BRD	14C4								
	CUMULUS_VDDANA	CUMULUS_VDDANA - @single_brd_lib.SINGLE_BRD	17D7		FM10_I0<2>	FM10_I0<2> - @single_brd_lib.SINGLE_BRD	6C4	6C8	I2C_SDA_COMP	I2C_SDA_COMP - @single_brd_lib.SINGLE_BRD	14A5	14A7	14B6	L19_LDO_FILT	L19_LDO_FILT - @single_brd_lib.SINGLE_BRD	14D4							
	CUMULUS_VDDCORE	CUMULUS_VDDCORE - @single_brd_lib.SINGLE_BRD	17D7		FM10_I0<3>	FM10_I0<3> - @single_brd_lib.SINGLE_BRD	6C4	6C8	I2S0_DIN	I2S0_DIN - @single_brd_lib.SINGLE_BRD	3D4	9C2		L19_SES_N	L19_SES_N - @single_brd_lib.SINGLE_BRD	14D4							
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	CUMULUS_VSTM_OUT<2>	CUMULUS_VSTM_OUT<2> - @single_brd_lib.SINGLE_BRD	17C3	17C5	FM10_I0<6>	FM10_I0<6> - @single_brd_lib.SINGLE_BRD	6C4	6C8	I2S0_LRCLK	I2S0_LRCLK - @single_brd_lib.SINGLE_BRD	3D4	9C2		L19_VSENSE_N	L19_VSENSE_N - @single_brd_lib.SINGLE_BRD	14D4							
	CUMULUS_VSTM_OUT<3>	CUMULUS_VSTM_OUT<3> - @single_brd_lib.SINGLE_BRD	17C3	17C5	FM10_I0<7>	FM10_I0<7> - @single_brd_lib.SINGLE_BRD	6C4	6C8	I2S1_DIN	I2S1_DIN - @single_brd_lib.SINGLE_BRD	3D4	21C4		L19_VSENSE_P	L19_VSENSE_P - @single_brd_lib.SINGLE_BRD	14D4							
	CUMULUS_VSTM_OUT<4>	CUMULUS_VSTM_OUT<4> - @single_brd_lib.SINGLE_BRD	17C3	17C5	FM10_WE_L	FM10_WE_L - @single_brd_lib.SINGLE_BRD	6B7	6C3	BB_I2S_TXD	BB_I2S_TXD - @single_brd_lib.RADIO_MLB(i594_page 19)	26C8	30B4		L65_FILT+	L65_FILT+ - @single_brd_lib.SINGLE_BRD	10B4							
	CUMULUS_VSTM_OUT<5>	CUMULUS_VSTM_OUT<5> - @single_brd_lib.SINGLE_BRD	17C3	17C5	FM11_ALE	FM11_ALE - @single_brd_lib.SINGLE_BRD	6B6	6C3	I2S1_DOUT	I2S1_DOUT - @single_brd_lib.SINGLE_BRD	3D4	21C4		L65_VCCPFLT+	L65_VCCPFLT+ - @single_brd_lib.SINGLE_BRD	10C4							
B	CUMULUS_VSTM_OUT<6>	CUMULUS_VSTM_OUT<6> - @single_brd_lib.SINGLE_BRD	17C3	17C5	FM11_CEN0	FM11_CEN0 - @single_brd_lib.SINGLE_BRD	6C3	6C6	BB_I2S_RXD	BB_I2S_RXD - @single_brd_lib.RADIO_MLB(i594_page 19)	26C8	30B4		L65_VCCPFLT-	L65_VCCPFLT- - @single_brd_lib.SINGLE_BRD	10C4		B					
	CUMULUS_VSTM_OUT<7>	CUMULUS_VSTM_OUT<7> - @single_brd_lib.SINGLE_BRD	17C3	17C5	FM11_CLE	FM11_CLE - @single_brd_lib.SINGLE_BRD	6B6	6C3	I2S1_LRCLK	I2S1_LRCLK - @single_brd_lib.SINGLE_BRD	3D4	21C4		LAT_SW1_CTL	LAT_SW1_CTL - @single_brd_lib.SINGLE_BRD	16C5	21A4						
	CUMULUS_VSTM_OUT<8>	CUMULUS_VSTM_OUT<8> - @single_brd_lib.SINGLE_BRD	17C3	17C5	FM11_I0<0>	FM11_I0<0> - @single_brd_lib.SINGLE_BRD	6C5		I2S1_LRCLK	I2S1_LRCLK - @single_brd_lib.SINGLE_BRD	3D4	21C4		LCD_BL_CA	LCD_BL_CA - @single_brd_lib.SINGLE_BRD	26B8	26C1		30C2				
	CUMULUS_VSTM_OUT<9>	CUMULUS_VSTM_OUT<9> - @single_brd_lib.SINGLE_BRD	17C5		FM11_I0<1>	FM11_I0<1> - @single_brd_lib.SINGLE_BRD	6C5		I2S2_DIN	I2S2_DIN - @single_brd_lib.SINGLE_BRD	3D4	9B2	14C5	LCD_BL_CA_CONN	LCD_BL_CA_CONN - @single_brd_lib.SINGLE_BRD	13B1	18D1						
	CUMULUS_VSTM_OUT<10>	CUMULUS_VSTM_OUT<10> - @single_brd_lib.SINGLE_BRD	17C5		FM11_I0<2>	FM11_I0<2> - @single_brd_lib.SINGLE_BRD	6C5		I2S2_DOUT	I2S2_DOUT - @single_brd_lib.SINGLE_BRD	3D4	9C2	14C5	LCD_BL_CC1	LCD_BL_CC1 - @single_brd_lib.SINGLE_BRD	18C4	22D4						
	CUMULUS_VSTM_OUT<11>	CUMULUS_VSTM_OUT<11> - @single_brd_lib.SINGLE_BRD	17B3	17C5	FM11_I0<3>	FM11_I0<3> - @single_brd_lib.SINGLE_BRD	6C5		I2S2_LRCLK	I2S2_LRCLK - @single_brd_lib.SINGLE_BRD	3D4	9C2	14C5	LCD_BL_CC1_CONN	LCD_BL_CC1_CONN - @single_brd_lib.SINGLE_BRD	13A2	18D1						
	CUMULUS_VSTM_OUT<12>	CUMULUS_VSTM_OUT<12> - @single_brd_lib.SINGLE_BRD	17B3	17C5	FM11_I0<4>	FM11_I0<4> - @single_brd_lib.SINGLE_BRD	6C5		I2S3_DIN	I2S3_DIN - @single_brd_lib.SINGLE_BRD	3C4	21B4		LCD_BL_CC2	LCD_BL_CC2 - @single_brd_lib.SINGLE_BRD	18C4	22D4						
	CUMULUS_VSTM_OUT<13>	CUMULUS_VSTM_OUT<13> - @single_brd_lib.SINGLE_BRD	17C3	17C5	FM11_I0<5>	FM11_I0<5> - @single_brd_lib.SINGLE_BRD	6C5		I2S3_DOUT	I2S3_DOUT - @single_brd_lib.SINGLE_BRD	3C4	21B4		LCD_BL_CC2_CONN	LCD_BL_CC2_CONN - @single_brd_lib.SINGLE_BRD	13A2	18D1						
	CUMULUS_VSTM_OUT<14>	CUMULUS_VSTM_OUT<14> - @single_brd_lib.SINGLE_BRD	17C3	17C5	FM11_I0<6>	FM11_I0<6> - @single_brd_lib.SINGLE_BRD	6C5		BT_PCM_OUT	BT_PCM_OUT - @single_brd_lib.RADIO_MLB(i594_page 19)	26B8	42B3		LCD_DESENSE	LCD_DESENSE - @single_brd_lib.SINGLE_BRD	18C4	22D4						
	CUMULUS_VSTM_OUT<15>	CUMULUS_VSTM_OUT<15> - @single_brd_lib.SINGLE_BRD	17C3	17C5	FM11_I0<7>	FM11_I0<7> - @single_brd_lib.SINGLE_BRD	6C5		LCD_DESENSE	LCD_DESENSE - @single_brd_lib.SINGLE_BRD	3C4	21B4		LCD_DESENSE_CONN	LCD_DESENSE_CONN - @single_brd_lib.SINGLE_BRD	13A2							
A	CUMULUS_VSTM_OUT<16>	CUMULUS_VSTM_OUT<16> - @single_brd_lib.SINGLE_BRD	17C3	17C5	FM11_WE_L	FM11_WE_L - @single_brd_lib.SINGLE_BRD	6B6	6C3	LCD_DESENSE_CONN	LCD_DESENSE_CONN - @single_brd_lib.SINGLE_BRD	26B8	42B3		LCD_HIFA_BSYNC	LCD_HIFA_BSYNC - @single_brd_lib.SINGLE_BRD	18D4		A					
	CUMULUS_VSTM_OUT<17>	CUMULUS_VSTM_OUT<17> - @single_brd_lib.SINGLE_BRD	17B5	17C3	FORCE_DFU	FORCE_DFU - @single_brd_lib.SINGLE_BRD	3A7	22B8	LCD_HIFA_BSYNC	LCD_HIFA_BSYNC - @single_brd_lib.SINGLE_BRD	26B8	42B3		LCD_HIFA_BSYNC_BUFF	LCD_HIFA_BSYNC_BUFF - @single_brd_lib.SINGLE_BRD	3B7	17A1		17B2	18B1			
	CUMULUS_VSTM_OUT<18>	CUMULUS_VSTM_OUT<18> - @single_brd_lib.SINGLE_BRD	17B5	17C3	GCM_SEL	GCM_SEL - @single_brd_lib.SINGLE_BRD	17B2	17B5	LCD_HIFA_BSYNC_BUFF	LCD_HIFA_BSYNC_BUFF - @single_brd_lib.SINGLE_BRD	3C4	21B4		LCD_HIFA_BSYNC_CONN	LCD_HIFA_BSYNC_CONN - @single_brd_lib.SINGLE_BRD	17A3	17B5						
	CUMULUS_VSTM_OUT<19>	CUMULUS_VSTM_OUT<19> - @single_brd_lib.SINGLE_BRD	17B5	17C3	GRAPE_INT_L	GRAPE_INT_L - @single_brd_lib.SINGLE_BRD	3B7	17B8	LCD_HIFA_BSYNC_CONN	LCD_HIFA_BSYNC_CONN - @single_brd_lib.SINGLE_BRD	26B8	42B3		LCD_PANIC_L_CONN	LCD_PANIC_L_CONN - @single_brd_lib.SINGLE_BRD	18C4							
	DDR0_VREF_CA	DDR0_VREF_CA - @single_brd_lib.SINGLE_BRD	4A7	4D6	GRAPE_RESET_L	GRAPE_RESET_L - @single_brd_lib.SINGLE_BRD	3A7																

8			7			6			5			4			3			2			1			
D	NAND_VDDI	NAND_VDDI - @single_brd.lib.SINGLE_BRD	6D4	PP2V5_CAM0_AF_GROUND	PP2V5_CAM0_AF_GROUND - @single_brd.lib.SINGLE_BRD	12A3 20B5	SAGE_PANEL_IN<11>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_IN<11> -	17C3 18A8	UART1_CTS_L	UART1_CTS_L - @single_brd.lib.SINGLE_BRD	3B5 21C4	D	C	B	A	A	B	C	D	D	C	B	A
	NEG_BOOST_OUT	NEG_BOOST_OUT - @single_brd.lib.SINGLE_BRD	19D3	PP2V8_CAM0_CONN	PP2V8_CAM0_CONN - @single_brd.lib.SINGLE_BRD	20C5	SAGE_PANEL_IN<12>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_IN<12> -	17C3 18A6	UART1_RTS_L	UART1_RTS_L - @single_brd.lib.SINGLE_BRD	26C8 30C4												
	NEG_SWITCH	NEG_SWITCH - @single_brd.lib.SINGLE_BRD	19D3	PP2V8_CAM1_CONN	PP2V8_CAM1_CONN - @single_brd.lib.SINGLE_BRD	11C4	SAGE_PANEL_IN<13>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_IN<13> -	17C3 18A6	UART1_RTD_L	UART1_RTD_L - @single_brd.lib.SINGLE_BRD	3B5 21C4												
	NTC_CAM_N	NTC_CAM_N - @single_brd.lib.SINGLE_BRD	12A6	PP2V8_CAM_AVDD	PP2V8_CAM_AVDD - @single_brd.lib.SINGLE_BRD	11C2 12B5 20B7	SAGE_PANEL_IN<14>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_IN<14> -	17C3 18A6	UART1_RXD	UART1_RXD - @single_brd.lib.SINGLE_BRD	26C8 30C4												
	NTC_CAM_P	NTC_CAM_P - @single_brd.lib.SINGLE_BRD	12A6 12B7	PP3V0_ACC	PP3V0_ACC - @single_brd.lib.SINGLE_BRD	12B4 15C4	SAGE_PANEL_VSTM_OUT<0>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<0> -	17C1 18A6 18A8	UART1_TXD	UART1_TXD - @single_brd.lib.SINGLE_BRD	3B5 15B5 21C4												
	NTC_FOREHEAD_N	NTC_FOREHEAD_N - @single_brd.lib.SINGLE_BRD	12A8	PP3V0_ALS	PP3V0_ALS - @single_brd.lib.SINGLE_BRD	11C5	SAGE_PANEL_VSTM_OUT<1>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<1> -	17B1 18A8	UART2_RXD	UART2_RXD - @single_brd.lib.SINGLE_BRD	3B5 15B5												
	NTC_FOREHEAD_P	NTC_FOREHEAD_P - @single_brd.lib.SINGLE_BRD	12A7 12B7	PP3V0_COMP	PP3V0_COMP - @single_brd.lib.SINGLE_BRD	14A5 14A8 14B8	SAGE_PANEL_VSTM_OUT<2>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<2> -	17C1 18A8	UART2_TXD	UART2_TXD - @single_brd.lib.SINGLE_BRD	3B5 15B5												
	NTC_H5P_N	NTC_H5P_N - @single_brd.lib.SINGLE_BRD	12A5	PP3V0_IMU	PP3V0_IMU - @single_brd.lib.SINGLE_BRD	12B5 14A4 14B1	SAGE_PANEL_VSTM_OUT<3>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<3> -	17C1 18A8	UART3_CTS_L	UART3_CTS_L - @single_brd.lib.SINGLE_BRD	3B5 21B4												
	NTC_H5P_P	NTC_H5P_P - @single_brd.lib.SINGLE_BRD	12A5 12B7	PP3V0_IO	PP3V0_IO - @single_brd.lib.SINGLE_BRD	2D3 5B7 12B5	SAGE_PANEL_VSTM_OUT<4>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<4> -	17C1 18A8	UART3_RTS_L	UART3_RTS_L - @single_brd.lib.SINGLE_BRD	3B5 21B4												
	NTC_PA_N	NTC_PA_N - @single_brd.lib.SINGLE_BRD	12A4	PP3V0_NAND	PP3V0_NAND - @single_brd.lib.SINGLE_BRD	6D1 12B5	SAGE_PANEL_VSTM_OUT<5>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<5> -	17C1 18A8	UART3_RXD	UART3_RXD - @single_brd.lib.SINGLE_BRD	26B8 42C3												
C	NTC_PA_P	NTC_PA_P - @single_brd.lib.SINGLE_BRD	12A4 12B7	PP3V0_NAND_XW	PP3V0_NAND_XW - @single_brd.lib.SINGLE_BRD	6D3	SAGE_PANEL_VSTM_OUT<6>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<6> -	17C1 18A8	UART4_CTS_L	UART4_CTS_L - @single_brd.lib.SINGLE_BRD	3A5 21C4	C	B	A	A	B	C	D	D	C	B	A	
	OSC32I	OSC32I - @single_brd.lib.SINGLE_BRD	12B6	PP3V0_PROX	PP3V0_PROX - @single_brd.lib.SINGLE_BRD	11C5	SAGE_PANEL_VSTM_OUT<7>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<7> -	17C1 18A8	UART4_RXD	UART4_RXD - @single_brd.lib.SINGLE_BRD	26B8 42A4 42B4												
	OSC32O	OSC32O - @single_brd.lib.SINGLE_BRD	12A6	PP3V0_PROX_ALS	PP3V0_PROX_ALS - @single_brd.lib.SINGLE_BRD	11B8 11C8 12B5	SAGE_PANEL_VSTM_OUT<8>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<8> -	17C1 18A8	VBST_OUTH_STACK	VBST_OUTH_STACK - @single_brd.lib.SINGLE_BRD	17B4												
	OV_P_GATE	OV_P_GATE - @single_brd.lib.SINGLE_BRD	16B7	PP3V0_PROX_IR	PP3V0_PROX_IR - @single_brd.lib.SINGLE_BRD	11C2 12B5	SAGE_PANEL_VSTM_OUT<9>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<9> -	17C1 18A8	VBST_OUTL_STACK	VBST_OUTL_STACK - @single_brd.lib.SINGLE_BRD	17A4												
	OV_P_SW_EN_L	@single_brd.lib.SINGLE_BRD	15B4 16B8	PP3V0_USBMUX	PP3V0_USBMUX - @single_brd.lib.SINGLE_BRD	12B5 15C7	SAGE_PANEL_VSTM_OUT<10>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<10> -	17C1 18A8	VCMETER	VCMETER - @single_brd.lib.SINGLE_BRD	12C7												
	PBL_RUN_BB_HSIIC1_RDY	PBL_RUN_BB_HSIIC1_RDY - @single_brd.lib.RADIO_MLB(i594_page 19)	3A7 21D4	PP3V2_CODECC	PP3V2_CODECC - @single_brd.lib.SINGLE_BRD	10D3	SAGE_PANEL_VSTM_OUT<11>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<11> -	17B1 18A6	VDD_REF	VDD_REF - @single_brd.lib.SINGLE_BRD	13C5												
	PMU_ADC_IN7	PMU_ADC_IN7 - @single_brd.lib.SINGLE_BRD	13C3 13C6	PP3V3_VIB	PP3V3_VIB - @single_brd.lib.SINGLE_BRD	8C6	SAGE_PANEL_VSTM_OUT<12>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<12> -	17B1 18A6	VDD_RTC	VDD_RTC - @single_brd.lib.SINGLE_BRD	13C5												
	PMU_AMUX_AY	PMU_AMUX_AY - @single_brd.lib.SINGLE_BRD	13C6 13D5 22C8	PP5V0_TRISTAR	PP5V0_TRISTAR - @single_brd.lib.SINGLE_BRD	15C4	SAGE_PANEL_VSTM_OUT<13>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<13> -	17C1 18A6	VHP_FLYC	VHP_FLYC - @single_brd.lib.SINGLE_BRD	10C4												
	PMU_AMUX_AY_CTRL	PMU_AMUX_AY_CTRL - @single_brd.lib.SINGLE_BRD	3C5 13D7	PP5V0_USB_CONN	PP5V0_USB_CONN - @single_brd.lib.SINGLE_BRD	16C5 22D8	SAGE_PANEL_VSTM_OUT<14>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<14> -	17C1 18A6	VHP_FLYN	VHP_FLYN - @single_brd.lib.SINGLE_BRD	10C4												
	PMU_AMUX_AY_R	PMU_AMUX_AY_R - @single_brd.lib.SINGLE_BRD	13D6	PP5V0_USB_PROTECT	PP5V0_USB_PROTECT - @single_brd.lib.SINGLE_BRD	12C8 16B8	SAGE_PANEL_VSTM_OUT<15>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<15> -	17C1 18A6	VIB	VIB - @single_brd.lib.SINGLE_BRD	8B5												
B	PMU_AMUX_BY	PMU_AMUX_BY - @single_brd.lib.SINGLE_BRD	13B6 13D5 22C8	PP5V0_USB_RPROT	PP5V0_USB_RPROT - @single_brd.lib.SINGLE_BRD	15C2 16B8	SAGE_PANEL_VSTM_OUT<16>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<16> -	17C1 18A6	VIB_LDO_EN	VIB_LDO_EN - @single_brd.lib.SINGLE_BRD	8B5 8C7	B	A	A	B	C	D	D	C	B	A		
	PMU_AMUX_BY_CTRL	PMU_AMUX_BY_CTRL - @single_brd.lib.SINGLE_BRD	3B5 13D7	PP5V1_GRAPE_VDDH	PP5V1_GRAPE_VDDH - @single_brd.lib.SINGLE_BRD	13B3 17D7	SAGE_PANEL_VSTM_OUT<17>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<17> -	17C1 18A6	VIB_PWM	VIB_PWM - @single_brd.lib.SINGLE_BRD	3B5 8C7												
	PMU_AMUX_BY_R	PMU_AMUX_BY_R - @single_brd.lib.SINGLE_BRD	13D6	PP5V7_LCD_AVDDH	PP5V7_LCD_AVDDH - @single_brd.lib.SINGLE_BRD	13B3 18C1 19B2	SAGE_PANEL_VSTM_OUT<18>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<18> -	17C1 18A6	VIB_PWM_G	VIB_PWM_G - @single_brd.lib.SINGLE_BRD	8C7												
	PMU_DWI_CLK	PMU_DWI_CLK - @single_brd.lib.SINGLE_BRD	13B6	PP5V7_LCD_AVDDH_CONN	PP5V7_LCD_AVDDH_CONN - @single_brd.lib.SINGLE_BRD	18C4	SAGE_PANEL_VSTM_OUT<19>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<19> -	17C1 18A6	VIB_RETURN	VIB_RETURN - @single_brd.lib.SINGLE_BRD	8B5												
	PMU_DWI_DI	PMU_DWI_DI - @single_brd.lib.SINGLE_BRD	13B6	PP5V7_SAGE_AVDDH	PP5V7_SAGE_AVDDH - @single_brd.lib.SINGLE_BRD	13B1 17B5 17D4	SAGE_PANEL_VSTM_OUT<20>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<20> -	17C1 18A6	VOL_DWN_L	VOL_DWN_L - @single_brd.lib.SINGLE_BRD	3B7 8B7 13C6												
	PMU_DWI_DO	PMU_DWI_DO - @single_brd.lib.SINGLE_BRD	13B6	PPN_ZQ	PPN_ZQ - @single_brd.lib.SINGLE_BRD	6B3	SAGE_PANEL_VSTM_OUT<21>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<21> -	17C1 18A6	VOL_DWN_L_CONN	VOL_DWN_L_CONN - @single_brd.lib.SINGLE_BRD	8B5												
	PMU_IRQ_L	PMU_IRQ_L - @single_brd.lib.SINGLE_BRD	3B7 13B6	PP_BATT_VCC	PP_BATT_VCC - @single_brd.lib.SINGLE_BRD	8C7 12D8 14D7 19D7 21C5	SAGE_PANEL_VSTM_OUT<22>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<22> -	17C1 18A6	VOL_UP_L	VOL_UP_L - @single_brd.lib.SINGLE_BRD	3B7 8B7 13C6												
	PMU_RESET_IN	PMU_RESET_IN - @single_brd.lib.SINGLE_BRD	13B6	PP_BATT_VCC_CONN	PP_BATT_VCC_CONN - @single_brd.lib.SINGLE_BRD	26D1 26D8 27B8 28C8 34C5	SAGE_PANEL_VSTM_OUT<23>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<23> -	17C1 18A6	VOL_UP_L_CONN	VOL_UP_L_CONN - @single_brd.lib.SINGLE_BRD	8B5												
	PMN5V7_LCM_AVDDN_CONN	PMN5V7_LCM_AVDDN_CONN - @single_brd.lib.SINGLE_BRD	18C4	PP_L19_VBOOST	PP_L19_VBOOST - @single_brd.lib.SINGLE_BRD	35C5 36C5 36D8 38C5 39C5	SAGE_PANEL_VSTM_OUT<24>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<24> -	17C1 18A6	WLAN_HSIIC3_RESUME	WLAN_HSIIC3_RESUME - @single_brd.lib.SINGLE_BRD	26D8 42B5												
	PMN5V7_SAGE_AVDDN	PMN5V7_SAGE_AVDDN - @single_brd.lib.SINGLE_BRD	17A5 17D4 18D1 19B8 19D1	PP_LD014_2P65	PP_LD014_2P65 - @single_brd.lib.SINGLE_BRD	16C2 21A4	SAGE_PANEL_VSTM_OUT<25>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<25> -	17C1 18A6	WLAN_REG_ON	WLAN_REG_ON - @single_brd.lib.SINGLE_BRD	26C8 42A4 42A8 42C7												
A	PP1V0	PP1V0 - @single_brd.lib.SINGLE_BRD	2C7 2D3 7B4 7D5 12A4	PP_VCC_MAIN	PP_VCC_MAIN - @single_brd.lib.SINGLE_BRD	10D1 12C8 12D8 13B4 13C2	SAGE_PANEL_VSTM_OUT<26>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<26> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6	A	B	C	D	D	C	B	A	A	B	C	D
	PP1V0_SRAM	PP1V0_SRAM - @single_brd.lib.SINGLE_BRD	5C7 12A4	PROX_FILT	PROX_FILT - @single_brd.lib.SINGLE_BRD	13C3 19D4	SAGE_PANEL_VSTM_OUT<27>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<27> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V1_CPU0	PP1V1_CPU0 - @single_brd.lib.SINGLE_BRD	5D8 12D5	PROX_RX_EN_LV8	PROX_RX_EN_LV8 - @single_brd.lib.SINGLE_BRD	11C8 17B5	SAGE_PANEL_VSTM_OUT<28>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<28> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V1_CPU0_FET	PP1V1_CPU0_FET - @single_brd.lib.SINGLE_BRD	12D4	PROX_RX_EN_CONN	PROX_RX_EN_CONN - @single_brd.lib.SINGLE_BRD	11C5	SAGE_PANEL_VSTM_OUT<29>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<29> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V1_CPU1	PP1V1_CPU1 - @single_brd.lib.SINGLE_BRD	5C8 12D3	PROX_TX_EN_LV8_L	PROX_TX_EN_LV8_L - @single_brd.lib.SINGLE_BRD	17B1 17B7	SAGE_PANEL_VSTM_OUT<30>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<30> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V1_CPU1_FET	PP1V1_CPU1_FET - @single_brd.lib.SINGLE_BRD	12D2	PROX_TX_EN_BUFF	PROX_TX_EN_BUFF - @single_brd.lib.SINGLE_BRD	11B2 17B2	SAGE_PANEL_VSTM_OUT<31>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<31> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V1_CPUB	PP1V1_CPUB - @single_brd.lib.SINGLE_BRD	5D8 12D1	RADIO_ON_L	RADIO_ON_L - @single_brd.lib.SINGLE_BRD	3A7 21D4	SAGE_PANEL_VSTM_OUT<32>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<32> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V1_SOC	PP1V1_SOC - @single_brd.lib.SINGLE_BRD	5D4 12C2	RADIO_ON_L	RADIO_ON_L - @single_brd.lib.SINGLE_BRD	3A7 21D4	SAGE_PANEL_VSTM_OUT<33>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<33> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V2	PP1V2 - @single_brd.lib.SINGLE_BRD	2C6 4A6 4C7 4D3 12B5	RADIO_ON_L	RADIO_ON_L - @single_brd.lib.SINGLE_BRD	3A7 21D4	SAGE_PANEL_VSTM_OUT<34>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<34> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
A	PP1V2_CAM0_CONN	PP1V2_CAM0_CONN - @single_brd.lib.SINGLE_BRD	20B5	RADIO_ON_L	RADIO_ON_L - @single_brd.lib.SINGLE_BRD	3A7 21D4	SAGE_PANEL_VSTM_OUT<35>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<35> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6	A	B	C	D	D	C	B	A	A	B	C	D
	PP1V2_SDRAM	PP1V2_SDRAM - @single_brd.lib.SINGLE_BRD	4A8 4D7 4D8 12B7 12C1	RADIO_ON_L	RADIO_ON_L - @single_brd.lib.SINGLE_BRD	3A7 21D4	SAGE_PANEL_VSTM_OUT<36>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<36> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V7_VA_DAC	PP1V7_VA_DAC - @single_brd.lib.SINGLE_BRD	12B4 14D4	RADIO_ON_L	RADIO_ON_L - @single_brd.lib.SINGLE_BRD	3A7 21D4	SAGE_PANEL_VSTM_OUT<37>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<37> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V8	PP1V8 - @single_brd.lib.SINGLE_BRD	2B7 2C3 2D7 3C7 3C7 3D2	RCVR_CONN_N	RCVR_CONN_N - @single_brd.lib.SINGLE_BRD	11C5	SAGE_PANEL_VSTM_OUT<38>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<38> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V8	PP1V8 - @single_brd.lib.SINGLE_BRD	3D2 4B3 5A7 5B5 6B6 6B7	RCVR_CONN_P	RCVR_CONN_P - @single_brd.lib.SINGLE_BRD	11C5	SAGE_PANEL_VSTM_OUT<39>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<39> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V8	PP1V8 - @single_brd.lib.SINGLE_BRD	6C8 6D1 7B2 7D1 7D2 10D6	RCVR_N	RCVR_N - @single_brd.lib.SINGLE_BRD	9C4 11A8	SAGE_PANEL_VSTM_OUT<40>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<40> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V8	PP1V8 - @single_brd.lib.SINGLE_BRD	11C2 12B1 12B5 13A4 13D6	RCVR_P	RCVR_P - @single_brd.lib.SINGLE_BRD	9C4 11A8	SAGE_PANEL_VSTM_OUT<41>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<41> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V8	PP1V8 - @single_brd.lib.SINGLE_BRD	14B3 14B4 17D2 18B1 18C1	RCVR_TEST	RCVR_TEST - @single_brd.lib.SINGLE_BRD	10C6 11A8	SAGE_PANEL_VSTM_OUT<42>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<42> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
	PP1V8	PP1V8 - @single_brd.lib.SINGLE_BRD	20B7 20C7	RESET_IV8_L	RESET_IV8_L - @single_brd.lib.SINGLE_BRD	2B7 12B2 13B6 15B4 18B1	SAGE_PANEL_VSTM_OUT<43>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<43> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6												
A	PP1V8_ALWAYS	PP1V8_ALWAYS - @single_brd.lib.SINGLE_BRD	3A4 12A5	RESET_IV8_L	RESET_IV8_L - @single_brd.lib.SINGLE_BRD	2B7 12B2 13B6 15B4 18B1	SAGE_PANEL_VSTM_OUT<44>	@single_brd.lib.SINGLE_BRD SAGE_PANEL_VSTM_OUT<44> -	17C1 18A6	WLAN_REG_ON_R	WLAN_REG_ON_R - @single_brd.lib.SINGLE_BRD	13B6	A	B	C	D	D	C	B	A	A	B	C	D
	PP1V8_CAM0_CONN	PP1V8_CAM0_CONN - @single_brd.lib.SINGLE_BRD	20C5	RCVR_TEST	RC																			

8				7				6				5				4				3				2				1				
D	Base nets and synonyms for single_brd_lib.RADIO_MLB(@single_brd_lib.single_brd(sch_1)):page19_i594@radio_mlb_1 ib.radio_mlb(sch_1))				Base Signal				Synonyms				Location([Zone][dir])																			
	2G_VBATT_IN				2G_VBATT_IN -				36C4																							
	50_3G_TX_B1_T				@single_brd_lib.RADIO_MLB				38C8																							
	50_3G_TX_B2_T				@single_brd_lib.RADIO_MLB				39C8																							
	50_3G_TX_B5_T				@single_brd_lib.RADIO_MLB				34C8																							
	50_3G_TX_B8_T				@single_brd_lib.RADIO_MLB				34D7																							
	50_3G_TX_B13_PA_T				50_3G_TX_B13_PA_T -				35C6																							
	50_3G_TX_B13_T				@single_brd_lib.RADIO_MLB				35C8																							
	50_ASM_ANT				@single_brd_lib.RADIO_MLB				37B2																							
	50_ASM_ANT_MCH				@single_brd_lib.RADIO_MLB				37B2																							
C	50_B2_DUPLX_RX				@single_brd_lib.RADIO_MLB				39C4																							
	50_B2_RX_BAL				50_B2_RX_BAL -				39C3																							
	50_BAND1_TX_INT_OUT				@single_brd_lib.RADIO_MLB				38C6																							
	50_BAND1_TX_IN_IN				50_BAND1_TX_IN_IN -				38C7																							
	50_BAND1_TX_PA_IN				50_BAND1_TX_PA_IN -				38C6																							
	50_BAND2_TX_INT_IN				50_BAND2_TX_INT_IN -				39C7																							
	50_BAND4_TX_IN				50_BAND4_TX_IN -				38B7																							
	50_BAND4_TX_INT_OUT				@single_brd_lib.RADIO_MLB				38B6																							
	50_BAND4_TX_PA_IN				@single_brd_lib.RADIO_MLB				38B6																							
	50_BAND5_TX_INT_IN				@single_brd_lib.RADIO_MLB				34C7																							
B	50_BAND5_TX_INT_OUT				@single_brd_lib.RADIO_MLB				34C6																							
	50_BAND5_TX_PA_IN				@single_brd_lib.RADIO_MLB				34C5																							
	50_BAND8_TX_INT_OUT				@single_brd_lib.RADIO_MLB				34D6																							
	50_BAND8_TX_PA_IN				50_BAND8_TX_PA_IN -				34D5																							
	50_BAND13_DUPLX_ANT				50_BAND13_DUPLX_ANT -				35C2																							
	50_BAND13_DUPLX_TX				50_BAND13_DUPLX_TX -				35C3																							
	50_BAND13_PA_MATCH				50_BAND13_PA_MATCH -				35C4																							
	50_BAND13_PA_OUT				@single_brd_lib.RADIO_MLB				35C4																							
	50_BAND13_TRX				@single_brd_lib.RADIO_MLB				35C1				37B6																			
	50_BAND13_TRX_MATCH				@single_brd_lib.RADIO_MLB				35C2																							
A	50_BAND13_TX_INT_IN				50_BAND13_TX_INT_IN -				35C7																							
	50_BAND13_TX_INT_OUT				@single_brd_lib.RADIO_MLB				35C6																							
	50_BAND13_TX_PA_IN				50_BAND13_TX_PA_IN -				35C5																							
	50_CM_TRAP_B5				50_CM_TRAP_B5 -				32C3																							
	50_CPL_B1_B4_OUT				50_CPL_B1_B4_OUT -				34C3				38C3																			
	50_CPL_B1_B4_TERM				50_CPL_B1_B4_TERM -				38C4																							
	50_CPL_B5_B8_OUT				50_CPL_B5_B8_OUT -				34C3				35B5				39B5															
	50_CPL_B13_OUT				50_CPL_B13_OUT -				35B5				39B5																			
	50_CPL_PDET				50_CPL_PDET -				31D8				39C3																			
	50_DIVERSITY_SWITCH				50_DIVERSITY_SWITCH_MATCH -				40C6																							
	50_DRX_ANT				50_DRX_ANT -				37A2				40C7																			
	50_DRX_ASM_MCH				50_DRX_ASM_MCH -				40C6																							
	50_DRX_B3_MATCH				50_DRX_B3_MATCH -				37B6																							
	50_DRX_B3_OUT				50_DRX_B3_OUT -				37B6				40C2																			
	50_GPS_FILT_CONN				50_GPS_FILT_CONN -				41C6																							
	50_GPS_FILT_IN				50_GPS_FILT_IN -				41C5																							
	50_GPS_LNA_OUT				50_GPS_LNA_OUT -				41C8																							
	50_HSIC_BB_DATA				50_HSIC1_DATA -				2C6				21B4																			
	50_HSIC_BB_STROBE				50_HSIC1_STB -				2C6				21B4																			
	50_HSIC_BB_STROBE				50_HSIC_BB_STROBE -				26B3				26C8				29B3															
	50_HSIC_CAL				50_HSIC_CAL -				29B3																							
	50_HSIC_WLAN_DATA				50_HSIC3_DATA -				2B6				21B4																			
	50_HSIC_WLAN_STROBE				50_HSIC3_STB -				26B8				42B7																			
	50_LOW_ANT_FEED				50_LOW_ANT_FEED -				41A7																							
	50_LOW_ANT_MCH				50_LOW_ANT_MCH -				41A7																							
	50_NTCH_FILT_OUT				50_NTCH_FILT_OUT -				41D7																							
	50_OHM_TERM				50_OHM_TERM -				40C4																							
	50_OHM_TERM_2				50_OHM_TERM_2 -				37B3																							
	50_PDET_IN				50_PDET_IN -				31C7																							
	50_PDET_PAD				50_PDET_PAD -				31D7																							
	50_PRI_ANT				50_PRI_ANT -				37B1				41A5																			
	50_RX_DCS				50_RX_DCS -				37C4																							
	50_RX_DCS_FIL				50_RX_DCS_FIL -				37C5																							
	50_TXRX_B1_ASM				50_TXRX_B1_ASM -				37C4				38B3																			
	50_TXRX_B1_PAD_ANT				50_TXRX_B1_PAD_ANT -				38B5																							
	50_TXRX_B1_PAD_MCH				50_TXRX_B1_PAD_MCH -				38B5																							
	50_TXRX_B2_ASM				50_TXRX_B2_ASM -				37B4				39C1																			
	50_TXRX_B2_PAD_ANT				50_TXRX_B2_PAD_ANT -				39C4																							
	50_TXRX_B2_PAD_MCH				50_TXRX_B2_PAD_MCH -				39C3																							
	50_TXRX_B4_ASM				50_TXRX_B4_ASM -				37C4				38B4																			
	50_TXRX_B4_PAD_ANT				50_TXRX_B4_PAD_ANT -				38B5																							
	50_TXRX_B4_PAD_MCH				50_TXRX_B4_PAD_MCH -				38B5																							
	50_TXRX_B5_ASM				50_TXRX_B5_ASM -				34B7				37C4																			
	50_TXRX_B5_PAD_ANT				50_TXRX_B5_PAD_ANT -				34B5																							
	50_TXRX_B5_PAD_MCH				50_TXRX_B5_PAD_MCH -				34B6																							
	50_TXRX_B8_ASM				50_TXRX_B8_ASM -				34B1				37C4																			
	50_TXRX_B8_PAD_ANT				50_TXRX_B8_PAD_ANT -				34B3																							
	50_TXRX_B8_PAD_MCH				50_TXRX_B8_PAD_MCH -				34B2																							
	50_TXRX_B13_ASM				50_TXRX_B13_ASM -				37B4																							
	50_TX_3G_B8_FILT				50_TX_3G_B8_FILT -				34D7																							
	50_TX_B2				50_TX_B2 -				39C6																							
	50_TX_B4_MCH				50_TX_B4_MCH -				38B8																							
	50_TX_G_HB_ASM				50_TX_G_HB_ASM -				36B2				37B4																			
	50_TX_G_HB_MCH				50_TX_G_HB_MCH -				36C7																							
	50_TX_G_HB_PAIN				50_TX_G_HB_PAIN -				36C6																							
	50_TX_G_HB_PAMCH				50_TX_G_HB_PAMCH -				36B3																							
	50_TX_G_HB_PAOUT				50_TX_G_HB_PAOUT -				36B4																							
	50_TX_G_LB_ASM				50_TX_G_LB_ASM -				36B2				37B4																			
	50_TX_G_LB_MCH				50_TX_G_LB_MCH -				36B7																							
	50_TX_G_LB_PAIN				50_TX_G_LB_PAIN -				36B6																							
	50_TX_G_LB_PAMCH				50_TX_G_LB_PAMCH -				36B3																							
	50_TX_G_LB_PAOUT				50_TX_G_LB_PAOUT -				36B4																							
	50_TX_PCS_1				50_TX_PCS_1 -				39C5																							
	50_TX_PCS_2				50_TX_PCS_2 -				39C5																							
	50_UPPER_ANT_FFEED				50_UPPER_ANT_FFEED -				41D8																							
	50_UPPER_MCH_0				50_UPPER_MCH_0 -				41D7																							
	50_UPPER_MCH_1				50_UPPER_MCH_1 -				41D6																							
	50_UPPER_MCH_2				50_UPPER_MCH_2 -				41D4																							
	50_UP_ANT_TEST				50_UP_ANT_TEST -				37A2				41C1																			
	50_UP_ANT_TEST_COAX				50_UP_ANT_TEST_COAX -				41C3																							
	50_WIFI_ANT_FD				50_WIFI_ANT_FD -				42D5																							
	50_WIFI_ANT_FD_1				50_WIFI_ANT_FD_1 -				42D5																							
	50_WIFI_ANT_FD_2				50_WIFI_ANT_FD_2 -				42D4																							
	50_WLAN_A				50_WLAN_A -				42C4																							
	50_WLAN_A_DIPLX				50_WLAN_A_DIPLX -				42C2																							
	50_WLAN_G				50_WLAN_G -				42C4																							
	50_WLAN_G_1				50_WLAN_G_1 -				42C2																							
	50_XCVR_2G_PA_HB_TX				50_XCVR_2G_PA_HB_TX -				31C7				36C8																			
	50_XCVR_2G_PA_LB_TX				50_XCVR_2G_PA_LB_TX -				31C7				36B8																			
	50_XCVR_3G_B1_TX				50_XCVR_3G_B1_TX -				31C7				38C8																			
	50_XCVR_3G_B2_TX				50_XCVR_3G_B2_TX -				31C7				39C8																			
	50_XCVR_3G_B4_TX				50_XCVR_3G_B4_TX -				31C7				38B8																			
	50_XCVR_3G_B5_TX				50_XCVR_3G_B5_TX -				31C7				34C8																			
	50_XCVR_3G_B8_TX				50_XCVR_3G_B8_TX -				31C7				34D8																			
	50_XCVR_3G_B13_TX				50_XCVR_3G_B13_TX -				31C7				35C8																			
	90_BB_USB_D_N				90_BB_USB_D_N -				15B5				21C4																			
	90_BB_USB_D_P				90_BB_USB_D_P -				26C3				26C8				29A5															
	90_BB_USB_D_N				90_BB_USB_D_N -				15C5				21C4																			
	90_BB_USB_D_P				90_BB_USB_D_P -				26C3				26C8				29A5															
	100_B4_DUPLX_N				100_B4_DUPLX_N -				38B3																							
	100_B4_DUPLX_P				100_B4_DUPLX_P -				38B3																							
	100_B5_B8_RX_MTCH_N				100_B5_B8_RX_MTCH_N -				32C4																							
	100_B5_B8_RX_MTCH_P				100_B5_B8_RX_MTCH_P -				32B4																							
	100_BAND1_DUPLX_MATC				100_BAND1_DUPLX_MATC -				38C2																							
	100_BAND1_DUPLX_MATC_H_RX_N				100_BAND1_DUPLX_MATC_H_RX_N -				38C2																							
	100_BAND1_DUPLX_MATC_H_RX_P				100_BAND1_DUPLX_MATC_H_RX_P -				38C3																							
	100_BAND1_DUPLX_RX_N				100_BAND1_DUPLX_RX_N -				38C3																							
	100_BAND1_DUPLX_RX_P				100_BAND1_DUPLX_RX_P -				38C3																							
	100_BAND1_RX_N				100_BAND1_RX_N -				31B7				38C1																			
	100_BAND1_RX_P				100_BAND1_RX_P -				31B7				38C1																			
	100_BAND2_RX_N				100_BAND2_RX_N -				31B7				39B1																			
	100_BAND2_RX_P				100_BAND2_RX_P -				31B7				39C1																			
	100_BAND4_DUPLX_MATC				100_BAND4_DUPLX_MATC -				38B3																							
	100_BAND4_DUPLX_MATC_H_RX_N				100_BAND4_DUPLX_MATC_H_RX_N -				38B2																							
	100_BAND4_DUPLX_MATC_H_RX_P				100_BAND4_DUPLX_MATC_H_RX_P -				38B2																							
	100_BAND4_DUPLX_RX_N				100_BAND4_DUPLX_RX_N -				38B4																							
	100_BAND4_DUPLX_RX_P				100_BAND4_DUPLX_RX_P -				31C7				38B1																			
	100_BAND4_RX_N				100_BAND4_RX_N -				31C7				38B1																			
	100_BAND4_RX_P				100_BAND4_RX_P -				31C7				38B1																			
	100_BAND5_BAND8_RX_N				100_BAND5_BAND8_RX_N -				31C7				32C3																			
	100_BAND5_BAND8_RX_P				100_BAND5_BAND8_RX_P -				31C7				32B3																			
	100_BAND5_DUPLX_RX_N				100_BAND5_DUPLX_RX_N -				34A5																							
	100_BAND5_DUPLX_RX_P				100_BAND5_DUPL																											

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8			7			6			5			4			3			2			1		
Title: Cref Part Report Design: single_brd Date: Jul 2 13:25:05 2012			BS1 PCB_STANDOFF single_brd[21B7] BS2 PCB_STANDOFF single_brd[21B7] BS3 PCB_STANDOFF single_brd[21B7] BS4 PCB_STANDOFF single_brd[21B7] BS5 PCB_STANDOFF single_brd[21B7] C1 CAP_01005 single_brd[2A6] C2 CAP_0201 single_brd[2C6] C3 CAP_0204 single_brd[6D3] C4 CAP_01005 single_brd[7D5] C5 CAP_01005 single_brd[7D5] C6 CAP_01005 single_brd[7D3] C7 CAP_01005 single_brd[7D3] C8 CAP_01005 single_brd[7B4] C9 CAP_01005 single_brd[21C6] C10 CAP_201 single_brd[12D5] C11 CAP_0201 single_brd[14A1] C12 CAP_01005 single_brd[16B6] C13 CAP_01005 single_brd[16B6] C14 CAP_01005 single_brd[16B5] C15 CAP_01005 single_brd[16B5] C16 CAP_01005 single_brd[12D8] C17 CAP_01005 single_brd[18D3] C18 CAP_01005 single_brd[18D3] C19 CAP_01005 single_brd[18D3] C20 CAP_01005 single_brd[2D6] C21 CAP_01005 single_brd[2D6] C22 CAP_01005 single_brd[2D6] C23 CAP_0201 single_brd[2C7] C24 CAP_01005 single_brd[2D6] C25 CAP_0201 single_brd[2C6] C26 CAP_01005 single_brd[9C6] C27 CAP_0201-MUR single_brd[11B4] C28 CAP_0201 single_brd[2C6] C29 CAP_0201-MUR single_brd[14D3] C30 CAP_0610 single_brd[5A7] C31 CAP_201 single_brd[12A5] C32 CAP_01005 single_brd[2D4] C33 CAP_0402 single_brd[12D8] C34 CAP_01005 single_brd[2D4] C35 CAP_01005 single_brd[2D4] C36 CAP_01005 single_brd[2C2] C37 CAP_01005 single_brd[2B2] C38 CAP_0201-MUR single_brd[15C7] C39 CAP_01005 single_brd[15C5] C40 CAP_0610 single_brd[4B7] C41 CAP_01005 single_brd[4D7] C42 CAP_0402-2 single_brd[4B7] C43 CAP_0204 single_brd[4B7] C44 CAP_01005 single_brd[11C2] C45 CAP_01005 single_brd[8B4] C46 CAP_0402 single_brd[12D7] C47 CAP_0402 single_brd[12C3] C48 CAP_0204 single_brd[4B7] C49 CAP_0204 single_brd[4C7] C50 CAP_0201-MUR single_brd[6C4] C51 CAP_01005 single_brd[10C2] C52 CAP_0402-2 single_brd[4C7] C53 CAP_0204 single_brd[4C7] C54 CAP_0610 single_brd[4B7] C55 CAP_01005 single_brd[9B7] C56 CAP_01005 single_brd[11B6] C57 CAP_0610 single_brd[4C6] C58 CAP_0402 single_brd[12D1] C59 CAP_0204 single_brd[4C6] C60 CAP_0204 single_brd[4B6] C61 CAP_01005 single_brd[9B7] C62 CAP_01005 single_brd[11C6] C63 CAP_01005 single_brd[11C6] C64 CAP_01005 single_brd[9B7] C65 CAP_01005 single_brd[9B6] C66 CAP_0402 single_brd[12C2] C67 CAP_01005 single_brd[11B4] C68 CAP_0610 single_brd[5D6] C69 CAP_0402 single_brd[12C2] C70 CAP_0402 single_brd[12C2] C71 CAP_0402-2 single_brd[5A7] C72 CAP_0204 single_brd[5C7] C73 CAP_01005 single_brd[11B2] C74 CAP_0610 single_brd[5C7] C75 CAP_0610 single_brd[5C7] C76 CAP_0402-2 single_brd[12C2] C77 CAP_0402-2 single_brd[12C1] C78 CAP_01005 single_brd[16A3] C79 CAP_01005 single_brd[17C8] C80 CAP_0610 single_brd[5C7] C81 CAP_0204 single_brd[5C6] C82 CAP_01005 single_brd[2D07] C83 CAP_0204 single_brd[5D6] C84 CAP_01005 single_brd[2D07] C85 CAP_0402-1 single_brd[19D2] C86 CAP_0402-2 single_brd[5A6] C87 CAP_0204 single_brd[5C7] C88 CAP_01005 single_brd[18B3] C89 CAP_0204 single_brd[5C7] C90 CAP_01005 single_brd[18B3] C91 CAP_0204 single_brd[5C6] C92 CAP_0402-2 single_brd[5B6] C93 CAP_01005 single_brd[18C3] C94 CAP_01005 single_brd[18C3] C95 CAP_0201 single_brd[4B3] C96 CAP_0402 single_brd[13B4] C97 CAP_0204 single_brd[5D6] C98 CAP_0204 single_brd[5C6] C99 CAP_01005 single_brd[16A6] C100 CAP_0204 single_brd[5C6] C100_RF CAP_01005 radio_mlb[26A6]single_brd[21] C101 CAP_01005 single_brd[8C5] C101_RF CAP_01005 radio_mlb[26A5]single_brd[21] C102 CAP_01005 single_brd[16A5] C103 CAP_0610 single_brd[5C7] C104 CAP_0201 single_brd[5B6] C105 CAP_01005 single_brd[10B7] C106 CAP_01005 single_brd[4A8] C107 CAP_0402-2 single_brd[5A6] C108 CAP_01005 single_brd[4A8] C109 CAP_0402-2 single_brd[12C1] C110 CAP_0204 single_brd[5C6] C111 CAP_01005 single_brd[4A7] C112 CAP_0204 single_brd[5C6]			C113 CAP_01005 single_brd[4A7] C114 CAP_01005 single_brd[4A6] C115 CAP_0204 single_brd[5C6] C116 CAP_0201 single_brd[5B6] C117 CAP_01005 single_brd[4A6] C118 CAP_01005 single_brd[4A5] C119 CAP_0402-2 single_brd[5A5] C120 CAP_01005 single_brd[4A5] C121 CAP_0204 single_brd[5D6] C122 CAP_0610 single_brd[5C6] C123 CAP_0402-4 single_brd[13B2] C124 CAP_0204 single_brd[5C6] C125 CAP_0402 single_brd[13A1] C126 CAP_0402-2 single_brd[5C7] C127 CAP_0201 single_brd[16B6] C128 CAP_0201 single_brd[5B6] C129 CAP_0402 single_brd[18C2] C130 CAP_01005 single_brd[17C7] C131 CAP_0402 single_brd[13A2] C132 CAP_01005 single_brd[13B2] C133 CAP_0610 single_brd[5C7] C134 CAP_0204 single_brd[5C6] C135 CAP_0402-1 single_brd[13B1] C136 CAP_01005 single_brd[6C5] C137 CAP_201 single_brd[17B4] C138 CAP_01005 single_brd[10C2] C140 CAP_0402 single_brd[12C3] C141 CAP_0402-2 single_brd[5D3] C142 CAP_0402-2 single_brd[5D3] C143 CAP_01005 single_brd[10B2] C144 CAP_01005 single_brd[6C5] C145 CAP_0402 single_brd[12D3] C146 CAP_0201 single_brd[17B4] C147 CAP_01005 single_brd[17B4] C148 CAP_0201 single_brd[17A6] C149 CAP_0402-1 single_brd[17D4] C150 CAP_01005 single_brd[17B4] C151 CAP_0204 single_brd[5C3] C152 CAP_0610 single_brd[5D3] C153 CAP_0204 single_brd[5D3] C154 CAP_P_0603-LLP single_brd[17A4] C155 CAP_0201 single_brd[17A4] C156 CAP_0402-1 single_brd[17D3] C157 CAP_0201 single_brd[17B3] C158 CAP_0204 single_brd[5C3] C159 CAP_01005 single_brd[12A8] C160 CAP_0610 single_brd[5D3] C161 CAP_0204 single_brd[5D3] C162 CAP_0402-1 single_brd[17D3] C163 CAP_201 single_brd[17D2] C164 CAP_0402 single_brd[17A7] C165 CAP_01005 single_brd[17D2] C166 CAP_0204 single_brd[5C3] C167 CAP_01005 single_brd[12A7] C168 CAP_01005 single_brd[12A5] C169 CAP_0204 single_brd[5D3] C170 CAP_P_0402 single_brd[17B4] C171 CAP_01005 single_brd[19B4] C172 CAP_01005 single_brd[5C3] C173 CAP_01005 single_brd[5C3] C174 CAP_0204 single_brd[5C3] C175 CAP_01005 single_brd[19B4] C176 CAP_01005 single_brd[16B7] C177 CAP_0204 single_brd[5D3] C178 CAP_0201-MUR single_brd[6C4] C179 CAP_01005 single_brd[19A5] C179_RF CAP_0402-1 radio_mlb[33C7]single_brd[21] C180 CAP_0204 single_brd[6D4] C181 CAP_01005 single_brd[19B5] C182 CAP_0402-2 single_brd[6D3] C183 CAP_0402-2 single_brd[6D3] C184 CAP_0402-2 single_brd[6D3] C185 CAP_0204 single_brd[6D3] C186 CAP_0204 single_brd[6D3] C187 CAP_0402-2 single_brd[6D2] C188 CAP_0204 single_brd[6D2] C189 CAP_01005 single_brd[19B3] C190 CAP_402 single_brd[7D4] C190_RF CAP_0402 radio_mlb[33B5]single_brd[21] C191 CAP_01005 single_brd[7D2] C192 CAP_01005 single_brd[11D6] C193 CAP_603 single_brd[11C2] C194 CAP_0201-MUR single_brd[11C7] C195 CAP_0402 single_brd[11C2] C196 CAP_01005 single_brd[11C6] C197 CAP_01005 single_brd[8B7] C198 CAP_01005 single_brd[11D5] C199 CAP_01005 single_brd[11B6] C200 CAP_01005 single_brd[11C3] C201 CAP_01005 single_brd[11C6] C201_RF CAP_0402 radio_mlb[27B7]single_brd[21] C202 CAP_01005 single_brd[11C6] C202_RF CAP_0402 radio_mlb[27C7]single_brd[21] C203 CAP_0402 single_brd[10B2] C203_RF CAP_0402 radio_mlb[27B7]single_brd[21] C204 CAP_0402-2 single_brd[12C7] C204_RF CAP_0402 radio_mlb[27C7]single_brd[21] C205 CAP_01005 single_brd[12D5] C206 CAP_01005 single_brd[12C3] C206_RF CAP_01005 radio_mlb[27C6]single_brd[21] C207 CAP_01005 single_brd[7B3] C207_RF CAP_0603 radio_mlb[27C3]single_brd[21] C208 CAP_01005 single_brd[12B5] C208_RF CAP_0603 radio_mlb[27C3]single_brd[21] C209 CAP_0402-2 single_brd[6D2] C209_RF CAP_0603 radio_mlb[27C3]single_brd[21] C210 CAP_01005 single_brd[11B6] C210_RF CAP_0603 radio_mlb[27B3]single_brd[21] C211 CAP_01005 single_brd[11B6] C211_RF CAP_0603 radio_mlb[27B3]single_brd[21] C212 CAP_01005 single_brd[11B6] C212_RF CAP_0201-MUR radio_mlb[27A5]single_brd[21] C213 CAP_01005 single_brd[13A2] C213_RF CAP_0201-MUR radio_mlb[27A5]single_brd[21] C214 CAP_01005 single_brd[13A2] C214_RF CAP_0201-MUR radio_mlb[27A5]single_brd[21] C215 CAP_0201-MUR single_brd[16C3] C215_RF CAP_0201-MUR radio_mlb[27A4]single_brd[21] C216 CAP_0201-MUR single_brd[8B4] C216_RF CAP_0201-MUR radio_mlb[27A4]single_brd[21] C217 CAP_0402 single_brd[17A6] C217_RF CAP_0201-MUR radio_mlb[27A4]single_brd[21] C218 CAP_402 single_brd[9C6] C218_RF CAP_0201-MUR radio_mlb[27A4]single_brd[21]			C219 CAP_402 single_brd[9C6] C219_RF CAP_0201-MUR radio_mlb[27A4]single_brd[21] C220 CAP_01005 single_brd[10C7] C220_RF CAP_0402-1 radio_mlb[27A3]single_brd[21] C221 CAP_01005 single_brd[10C7] C221_RF CAP_0402-1 radio_mlb[27A3]single_brd[21] C222 CAP_01005 single_brd[9C7] C222_RF CAP_0402-1 radio_mlb[27A3]single_brd[21] C223 CAP_01005 single_brd[9C7] C223_RF CAP_01005 radio_mlb[27B8]single_brd[21] C224 CAP_01005 single_brd[9C7] C225 CAP_01005 single_brd[9C7] C226 CAP_01005 single_brd[10C6] C226_RF CAP_0402 radio_mlb[27C8]single_brd[21] C227 CAP_01005 single_brd[9C7] C228 CAP_01005 single_brd[9C7] C229 CAP_01005 single_brd[10C6] C229_RF CAP_0402-1 radio_mlb[27A3]single_brd[21] C230 CAP_01005 single_brd[9C7] C230_RF CAP_0402-1 radio_mlb[27A2]single_brd[21] C231 CAP_01005 single_brd[9C6] C231_RF CAP_0201-MUR radio_mlb[27D3]single_brd[21] C232 CAP_402 single_brd[10C4] C233 CAP_402 single_brd[10C4] C233_RF CAP_01005 radio_mlb[27C2]single_brd[21] C234 CAP_402 single_brd[10B8] C234_RF CAP_0201-MUR radio_mlb[27A5]single_brd[21] C235 CAP_01005 single_brd[10B2] C235_RF CAP_0402-1 radio_mlb[27B8]single_brd[21] C236 CAP_01005 single_brd[10B2] C236_RF CAP_0402-1 radio_mlb[27B8]single_brd[21] C237 CAP_402 single_brd[10B6] C237_RF CAP_0402-1 radio_mlb[27B8]single_brd[21] C238 CAP_402 single_brd[10B6] C239 CAP_0402 single_brd[17A6] C240 CAP_01005 single_brd[16B3] C241 CAP_01005 single_brd[8B3] C242 CAP_01005 single_brd[16D7] C243 CAP_01005 single_brd[18D3] C244 CAP_01005 single_brd[8B4] C245 CAP_01005 single_brd[10D4] C246 CAP_0201 single_brd[17A7] C247 CAP_0402 single_brd[12D7] C248 CAP_0201-MUR single_brd[20A6] C249 CAP_0201-MUR single_brd[20B7] C250 CAP_0402 single_brd[12D6] C251 CAP_0402 single_brd[12D6] C252 CAP_0402 single_brd[13B4] C253 CAP_01005 single_brd[11A4] C254 CAP_0402 single_brd[13A1] C255 CAP_0201-1 single_brd[16B7] C256 CAP_0402 single_brd[11C3] C258 CAP_01005 single_brd[18B3] C259 CAP_01005 single_brd[7C3] C260 CAP_0402 single_brd[12B8] C261 CAP_0402 single_brd[12B8] C262 CAP_0402 single_brd[13B3] C263 CAP_0402 single_brd[12B8] C264 CAP_0402 single_brd[12B8] C265 CAP_01005 single_brd[12B8] C266 CAP_0201-MUR single_brd[12C8] C267 CAP_0402 single_brd[12B8] C268 CAP_0402 single_brd[12B8] C269 CAP_0402 single_brd[12C7] C270 CAP_0402 single_brd[12B7] C271 CAP_0402 single_brd[12B7] C272 CAP_0402 single_brd[12C7] C273 CAP_01005 single_brd[21D6] C274 CAP_01005 single_brd[7C2] C275 CAP_01005 single_brd[21C6] C276 CAP_01005 single_brd[12A7] C277 CAP_01005 single_brd[12B7] C278 CAP_402 single_brd[12B7] C279 CAP_01005 single_brd[21D6] C280 CAP_01005 single_brd[7C2] C281 CAP_0402-2 single_brd[12C7] C282 CAP_402 single_brd[12B7] C283 CAP_01005 single_brd[12A6] C284 CAP_01005 single_brd[7C2] C285 CAP_01005 single_brd[12A5] C286 CAP_01005 single_brd[20C5] C287 CAP_01005 single_brd[20C6] C288 CAP_0402 single_brd[11C2] C289 CAP_0402-2 single_brd[8C5] C290 CAP_0402 single_brd[12D4] C291 CAP_0402 single_brd[12C3] C292 CAP_0402 single_brd[12D4] C293 CAP_0402 single_brd[12C2] C294 CAP_0402 single_brd[12D4] C295 CAP_0402 single_brd[12D2] C296 CAP_0402 single_brd[12D4] C297 CAP_0402 single_brd[12D7] C298 CAP_0201-MUR single_brd[14A8] C299 CAP_402 single_brd[12B4] C300 CAP_01005 single_brd[14A7] C301 CAP_0402 single_brd[12D1] C302 CAP_0402 single_brd[6C2] C303 CAP_0402 single_brd[12D2] C304 CAP_0402 single_brd[15C3] C305 CAP_0402 single_brd[12D2] C306 CAP_402 single_brd[12B4] C306_RF CAP_01005 radio_mlb[28B4]single_brd[21] C307 CAP_0402-2 single_brd[6C2] C308 CAP_0402 single_brd[12C3] C308_RF CAP_01005 radio_mlb[28B2]single_brd[21] C309 CAP_01005 single_brd[14C4] C310 CAP_0402 single_brd[12D2] C311 CAP_01005 single_brd[8B7] C312 CAP_0402 single_brd[12D4] C313 CAP_01005 single_brd[8B7] C314 CAP_01005 single_brd[8B6] C315 CAP_0402-2 single_brd[12C1] C316 CAP_0402-2 single_brd[12C2] C317 CAP_201 single_brd[13D4] C318 CAP_0201-MUR single_brd[13C4] C319 CAP_201 single_brd[13C4] C320 CAP_0402-4 single_brd[13B4] C321 CAP_0402-4 single_brd[13B4] C322 CAP_01005 single_brd[12A4] C323 CAP_01005 single_brd[13C4] C324 CAP_0402-1 single_brd[13B4] C325 CAP_0402 single_brd[12D6] C326 CAP_01005 single_brd[9C6] C327 CAP_0402-1 single_brd[13B3]			C328 CAP_0201-MUR single_brd[13B3] C329 CAP_0402-2 single_brd[12C1] C330 CAP_0402-2 single_brd[12C1] C331 CAP_0603-1 single_brd[14D6] C332 CAP_0402 single_brd[14D7] C333 CAP_0402 single_brd[14D7] C334 CAP_0201-MUR single_brd[14B8] C335 CAP_0402 single_brd[14D7] C336 CAP_01005 single_brd[14B8] C337 CAP_0201-1 single_brd[14D6] C338 CAP_0201-MUR single_brd[15B4] C339 CAP_201 single_brd[14D4] C340 CAP_402 single_brd[14D3] C341 CAP_0201-MUR single_brd[14D3] C342 CAP_0201 single_brd[14D5] C343 CAP_0201 single_brd[17D2] C344 CAP_01005 single_brd[14B2] C345 CAP_01005 single_brd[14B2] C346 CAP_01005 single_brd[19A5] C347 CAP_0201-MUR single_brd[14B1] C348 CAP_0603-1 single_brd[14D5] C349 CAP_201 single_brd[12A4] C350 CAP_0402 single_brd[18C2] C351 CAP_0402 single_brd[18C1] C352 CAP_01005 single_brd[16C2] C353 CAP_0402 single_brd[18C1] C354 CAP_01005 single_brd[10C6] C355 CAP_01005 single_brd[16C3] C356 CAP_01005 single_brd[10C6] C357 CAP_0402 single_brd[12C8] C358 CAP_0402 single_brd[12C8] C359 CAP_01005 single_brd[16C3] C360 CAP_01005 single_brd[14C3] C361 CAP_01005 single_brd[14D2] C362 CAP_01005 single_brd[16A3] C363 CAP_0402 single_brd[14C2] C364 CAP_01005 single_brd[21C8] C365 CAP_01005 single_brd[21C8] C366 CAP_01005 single_brd[21C8] C367 CAP_01005 single_brd[21C7] C368 CAP_01005 single_brd[14D6] C369 CAP_0402 single_brd[17D7] C370 CAP_402 single_brd[17D7] C371 CAP_402 single_brd[17D6] C372 CAP_0201-MUR single_brd[17D6] C373 CAP_0402 single_brd[14A6] C374 CAP_01005 single_brd[8C6] C375 CAP_0402 single_brd[12D7] C376 CAP_0201 single_brd[17A3] C377 CAP_0201 single_brd[17D1] C378 CAP_01005 single_brd[16C3] C379 CAP_01005 single_brd[19B7] C380 CAP_01005 single_brd[15C6] C381 CAP_01005 single_brd[15C5] C382 CAP_01005 single_brd[15C4] C383 CAP_0402 single_brd[12D7] C384 CAP_0402 single_brd[12D6] C385 CAP_0201 single_brd[12C7] C386 CAP_0402 single_brd[19D7] C387 CAP_0402 single_brd[19D7] C388 CAP_01005 single_brd[19D5] C389 CAP_0201-MUR single_brd[20B6] C390 CAP_0201-MUR single_brd[20B7] C391 CAP_0201-MUR single_brd[20A6] C392 CAP_01005 single_brd[20B5] C393 CAP_01005 single_brd[20A5] C394 CAP_0402-2 single_brd[19D5] C395 CAP_01005 single_brd[

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