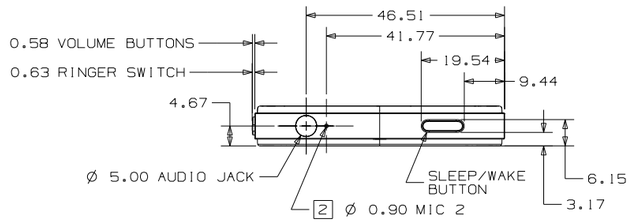
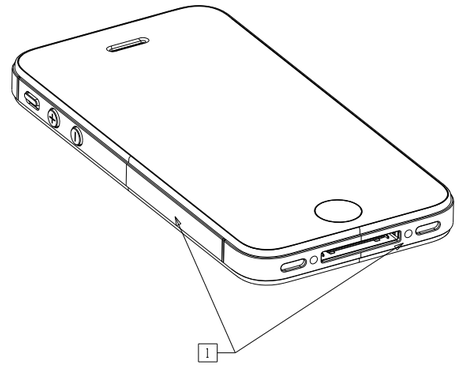
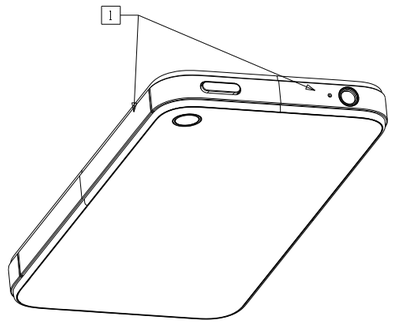
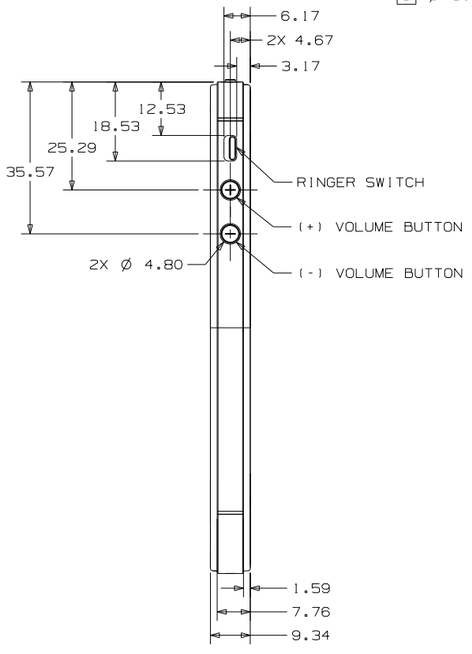
NOTES:

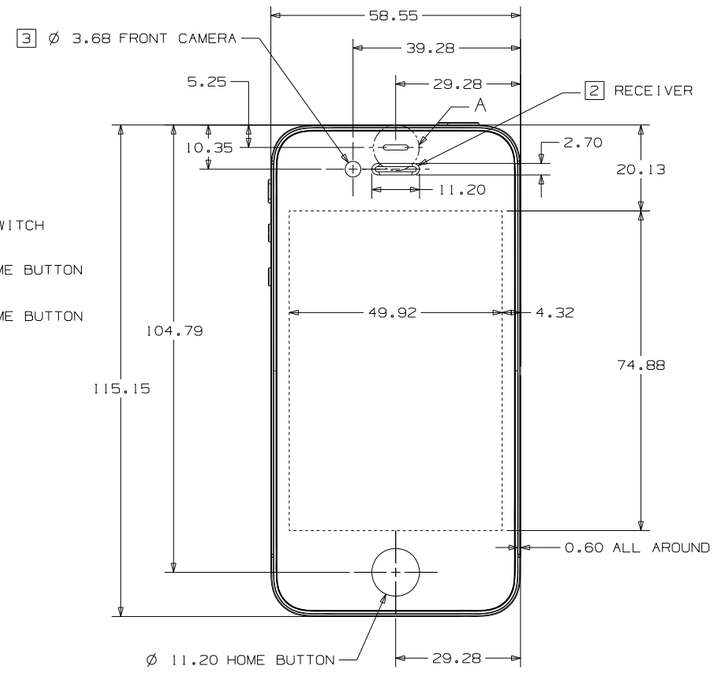
1. NO METAL CONTACT WITH iPhone 4 METAL BAND.
2. DO NOT OBSTRUCT THE ACOUSTIC OPENINGS: MIC 1, MIC 2, RECEIVER, AND SPEAKER.
3. DO NOT OBSTRUCT THE IMAGING FEATURES: FRONT CAMERA, 5MP REAR CAMERA, LED FLASH.
4. DO NOT OBSTRUCT THE ALS/PROXIMITY SENSOR.

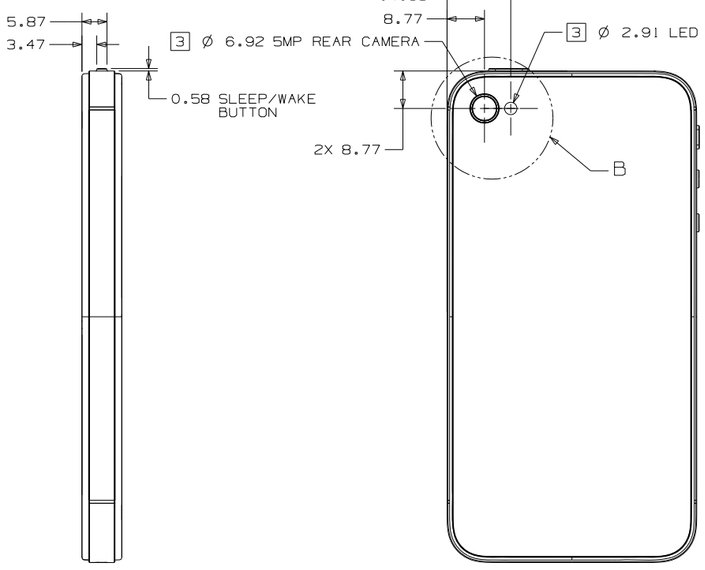


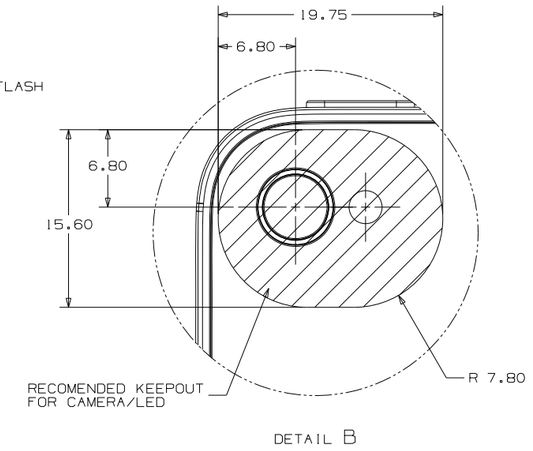




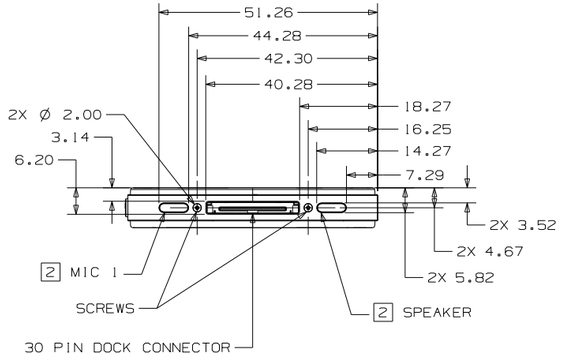


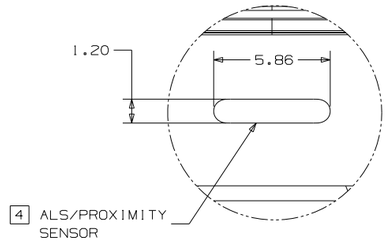






DETAIL B





DETAIL A

METRIC	Apple Inc.
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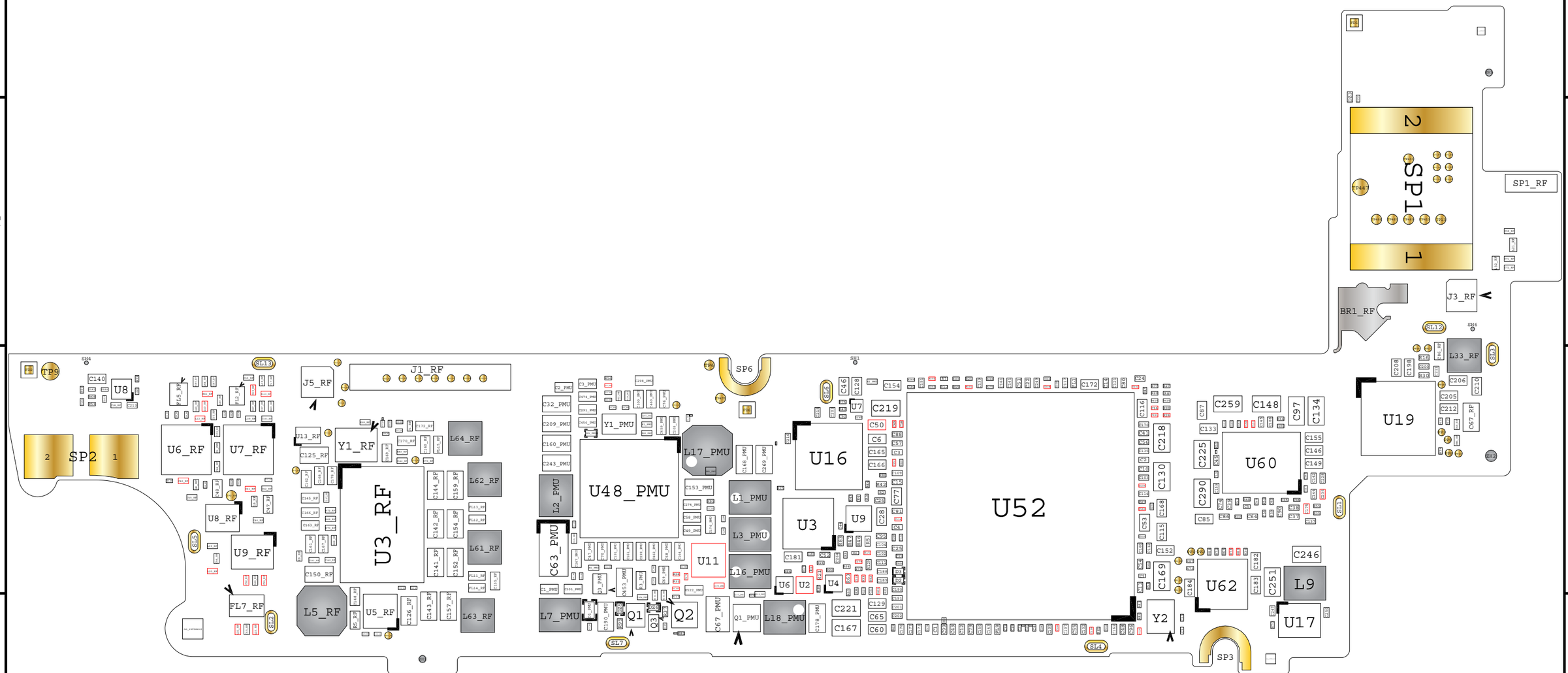
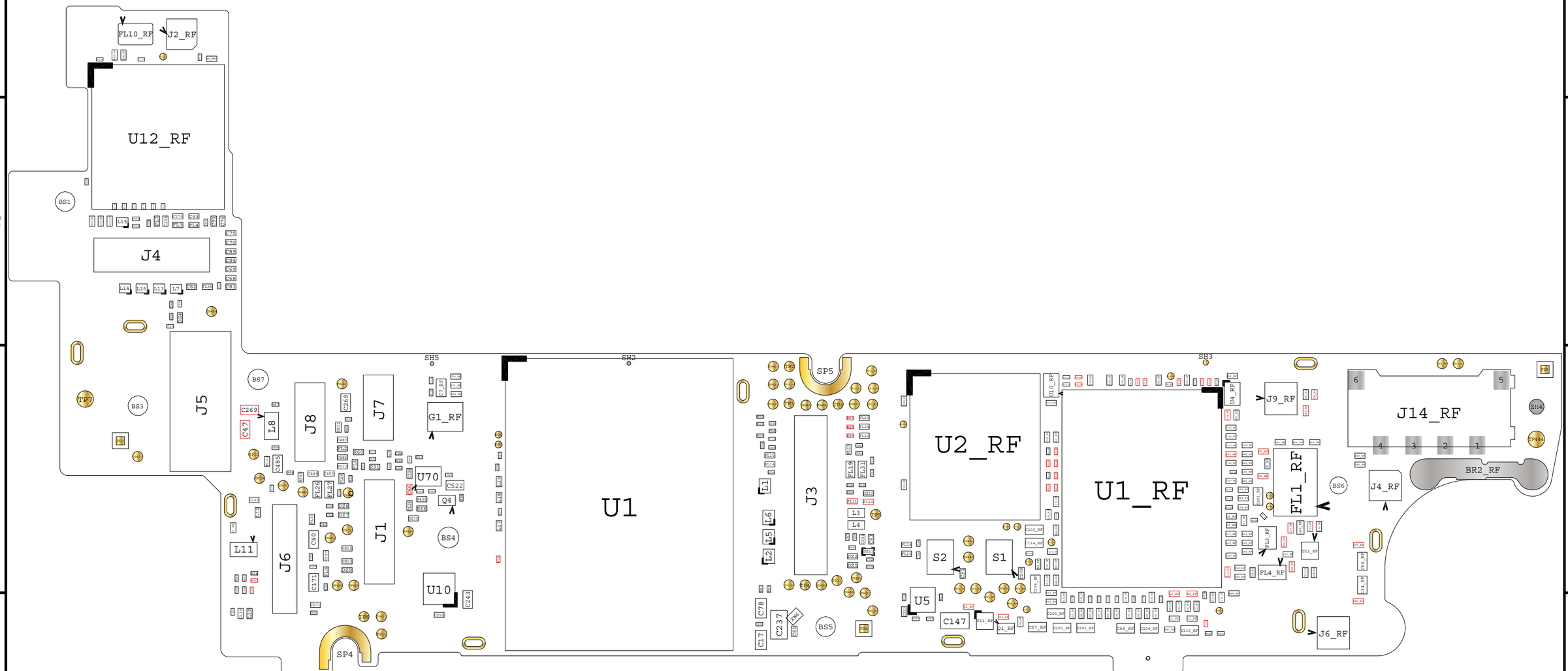
DESIGNER / DATE	
DIMENSIONS ARE IN MILLIMETERS TOLERANCES X.X ±0.4 X.XX ±0.20 X.XXX ±0.100 ANGLES ±0.5° DO NOT SCALE DRAWINGS	TITLE: iPhone 4 (CDMA model) Dimensional Drawing
THIRD ANGLE PROJECTION / SIZE D	DRAWING NUMBER / REV. 1
	SCALE / SHT 1 OF 1

NX GENERATED



MLB Placement Drawing	
PCB REV	820-2766-C
PCB SIDE	TOP
REMAKE BY	Filip Pusca
SUPPORT	www.witesomtesla.com



MLB Placement Drawing	
PCB REV	820-2766-C
PCB SIDE	BOTTOM
REMAKE BY	Filip Pusca
SUPPORT	www.witesomtesla.com

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
			2010-12-22

N92 SINGLE_BRD(MLB) REV C

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-8296	1	N92_SCHEMATIC_TOP	SCH	Y	?
820-2766	1	N92_SINGLE_BOARD	PCB	Y	?

N92 EEE BOM LABELS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
825-2029	1	EEE FOR 639-0558 (32G+SEMCO)	EEE_DC47	Y	SEM_FLASH_32GB
825-2029	1	EEE FOR 639-0559 (16G+SEMCO)	EEE_DC48	Y	SEM_FLASH_16GB
825-2029	1	EEE FOR 639-1195 (64G+SEMCO)	EEE_DD7Y	Y	SEM_FLASH_64GB
825-2029	1	EEE FOR 639-1200 (64G+MURATA)	EEE_DD90	Y	MUR_FLASH_64GB
825-2029	1	EEE FOR 639-1201 (32G+MURATA)	EEE_DD91	Y	MUR_FLASH_32GB
825-2029	1	EEE FOR 639-1202 (16G+MURATA)	EEE_DD92	Y	MUR_FLASH_16GB

BOM - 639-0558(32GB+SEMCO)
BOM - 639-0559(16GB+SEMCO)
BOM - 639-1195(64GB+SEMCO)
BOM - 639-1200(64GB+MURATA)
BOM - 639-1201(32GB+MURATA)
BOM - 639-1202(16GB+MURATA)

RADIO SUB-DESIGN ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
157S0068	157S0072	?	FL4_RF	PCS RX BALUN
197S0381	197S0361	?	G1_RF	WIFI/BT TCXO

RF COAX CONNECTOR BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
518S0750	1	IPEX RF COAXIAL CONNECTOR	J3_RF	Y	RF_COAX_ALL
518S0750	1	IPEX RF COAXIAL CONNECTOR	J5_RF	Y	RF_COAX_ALL

POWER INDUCTOR ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
152S1172	152S0928	?	L2_PMU	IND ALTERNATE
152S1173	152S0979	?	L9	IND ALTERNATE
152S1051	152S0927	?	L7_PMU	IND ALTERNATE

WIFI BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S0145	1	SEMCO MODULE	U12_RF	Y	SEMCO
339S0111	1	MURATA MODULE	U12_RF	Y	MURATA

PMU BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
338S0867	1	PMU-A4	U48_PMU	Y	PMU_A4
338S0876	1	PMU-A5	U48_PMU	Y	PMU_A5

BB MEMORY BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
341T0324	1	BASEBAND MEMORY SUB-ASSEMBLY	U2_RF	Y	BB_MEMORY_ALL

H3 BOM OPTION

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S0123	1	APPLICATION PROCESSOR WITH ELPIDA DDR	U52	Y	H3_ALL

RADIO RESET BUFFER BOM OPTION

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
311S0545	1	BUFFER FOR RADIO RESET	U11_RF	Y	RADIO_BUFFER_ALL

RADIO RESET BUFFER ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
311S0546	311S0545	?	U11_RF	TI ALTERNATE

VIDEO BUFFER ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
353S2684	353S2493	?	U9	INTERSIL ALTERNATE

PMU CRYSTAL ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0329	197S0299	?	Y1_PMU	ITTI CRYSTAL
197S0369	197S0299	?	Y1_PMU	TXC CRYSTAL

LCD BL DRIVER ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
376S0769	376S0768	?	Q1_PMU	LCD BL FET DRIVER

POWER INDUCTORS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
607-6809	1	POWER INDUCTORS	L1_PMU	Y	PMU_INDUCTORS
607-6809	1	POWER INDUCTORS	L3_PMU	Y	PMU_INDUCTORS
607-6809	1	POWER INDUCTORS	L16_PMU	Y	PMU_INDUCTORS
607-6809	1	POWER INDUCTORS	L18_PMU	Y	PMU_INDUCTORS

POWER INDUCTOR ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
607-6810	607-6809	?	L1_PMU	DIRECTIONAL ALTERNATES
607-6810	607-6809	?	L3_PMU	DIRECTIONAL ALTERNATES
607-6810	607-6809	?	L16_PMU	DIRECTIONAL ALTERNATES
607-6810	607-6809	?	L18_PMU	DIRECTIONAL ALTERNATES

DDR ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
339S0126	339S0123	?	U52	HYNIX 46NM
339S0136	339S0123	?	U52	SEC 54NM

CHOKE ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S0623	155S0310	?	L1	90 OHM CMC
155S0623	155S0310	?	L2	90 OHM CMC

32K ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0392	197S0299	?	Y1_PMU	32K ALTERNATE

THERMISTOR ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
107S0146	107S0117	?	R4_PMU	THERMISTOR ALTERNATE
107S0146	107S0117	?	R7_PMU	THERMISTOR ALTERNATE
107S0146	107S0117	?	R5_PMU	THERMISTOR ALTERNATE
107S0146	107S0117	?	R2_PMU	THERMISTOR ALTERNATE
107S0150	107S0117	?	R4_PMU	THERMISTOR ALTERNATE
107S0150	107S0117	?	R7_PMU	THERMISTOR ALTERNATE
107S0150	107S0117	?	R5_PMU	THERMISTOR ALTERNATE
107S0150	107S0117	?	R2_PMU	THERMISTOR ALTERNATE

10UF CAP ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S0678	138S0679	?	C17	10UF CAP ALTNERATE
138S0678	138S0679	?	C78	10UF CAP ALTNERATE

90-OHM CMC ATERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S0460	155S0583	?	L7	90-OHM CMC ALT
155S0460	155S0583	?	L13	90-OHM CMC ALT
155S0460	155S0583	?	L14	90-OHM CMC ALT
155S0460	155S0583	?	L15	90-OHM CMC ALT
155S0460	155S0583	?	L16	90-OHM CMC ALT

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DRAWING TITLE: TABLE OF CONTENTS

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REVISION: A.6.0
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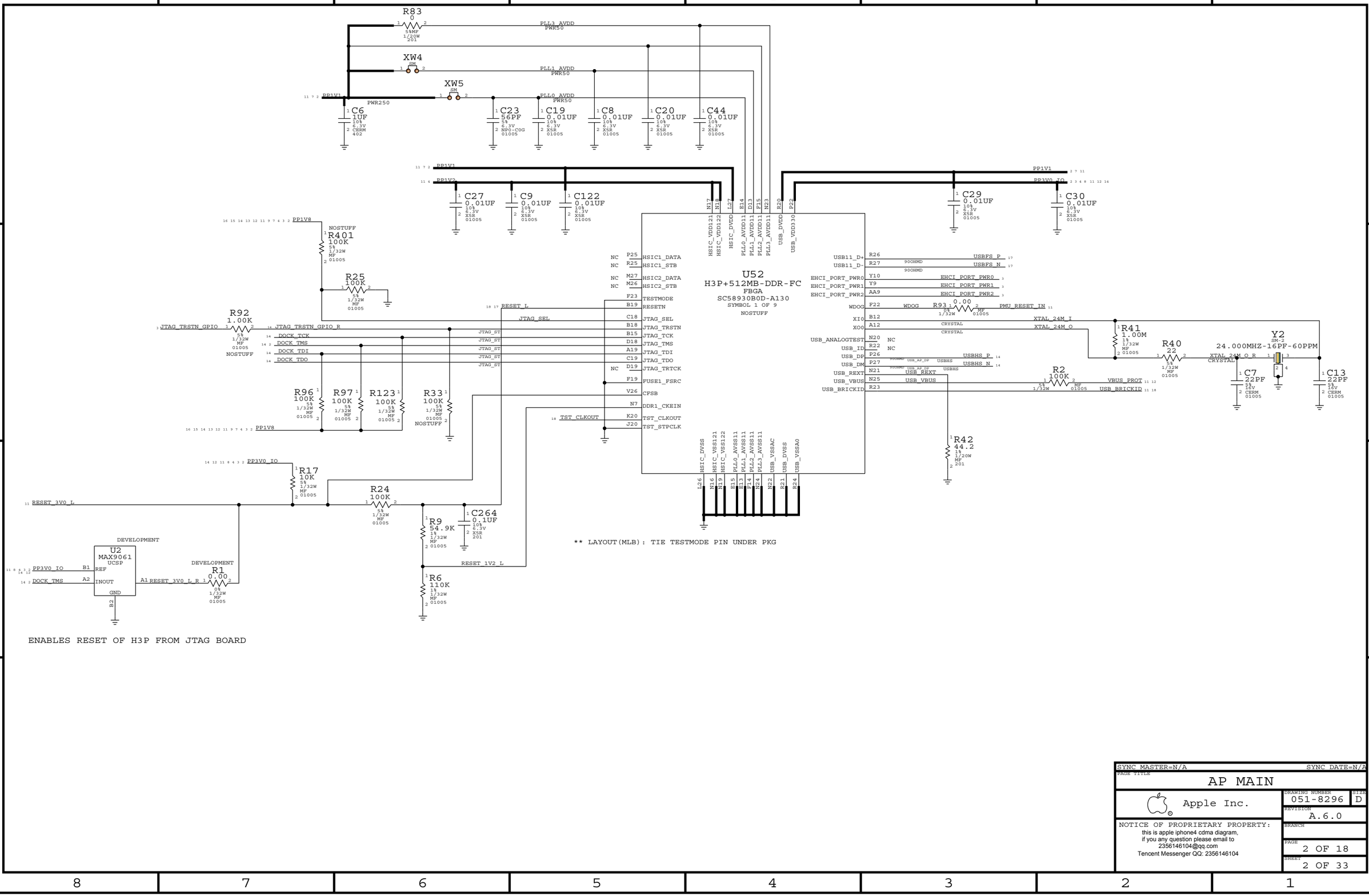
SHEET: 1 OF 33



ENABLES RESET OF H3P FROM JTAG BOARD

** LAYOUT(MLB): TIE TESTMODE PIN UNDER PKG

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PAGE TITLE: AP MAIN

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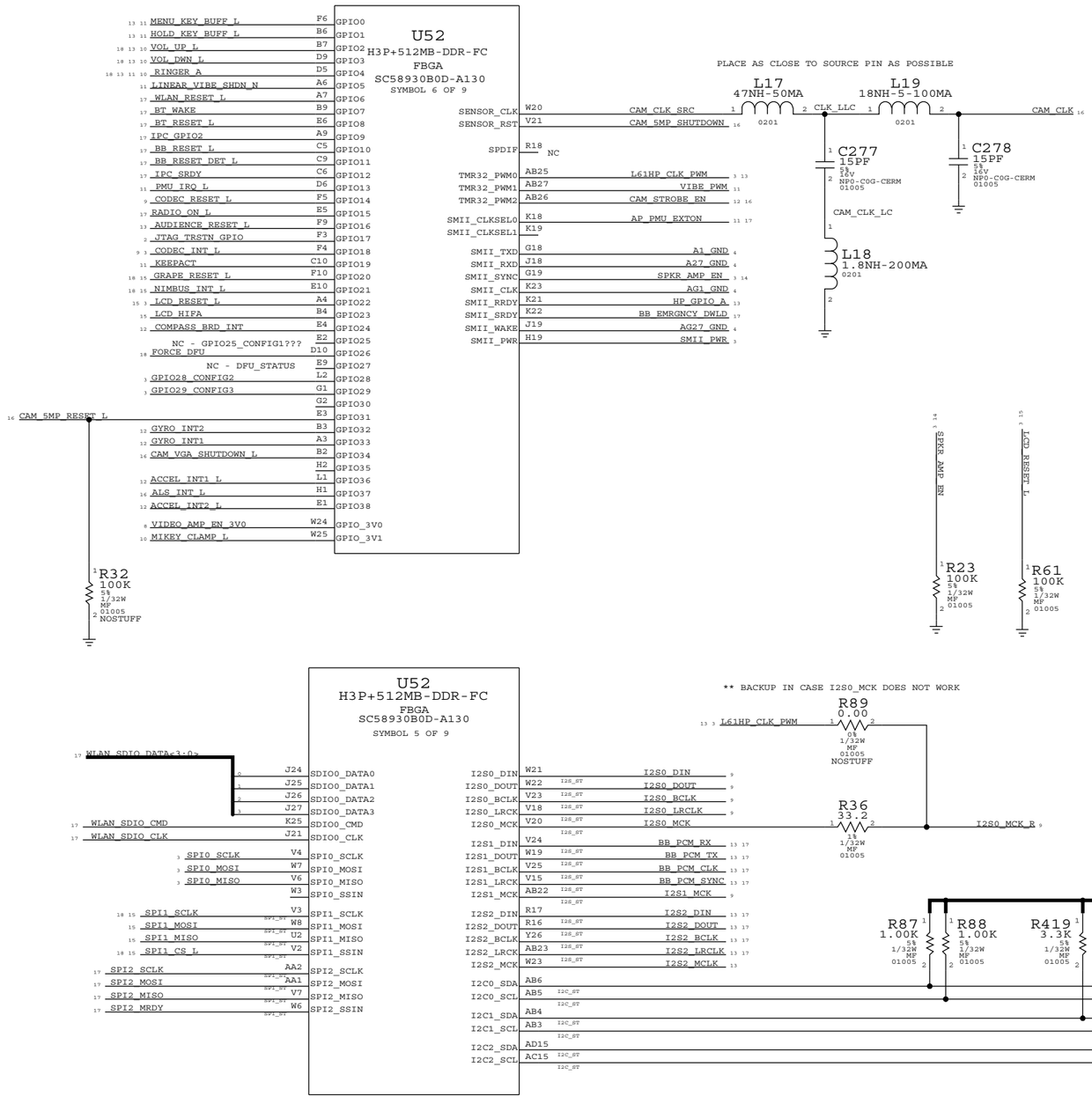

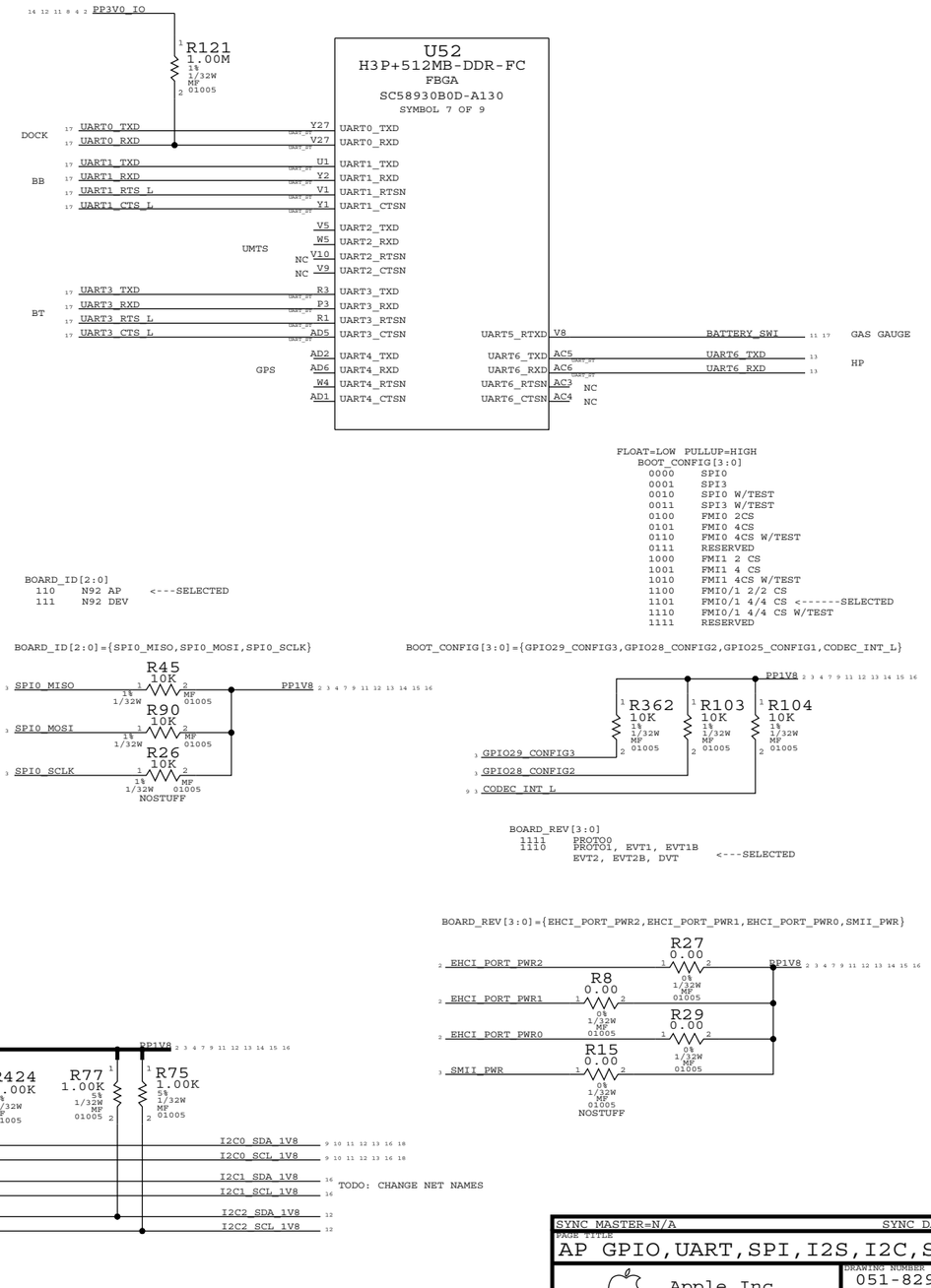

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	REVISION A.6.0
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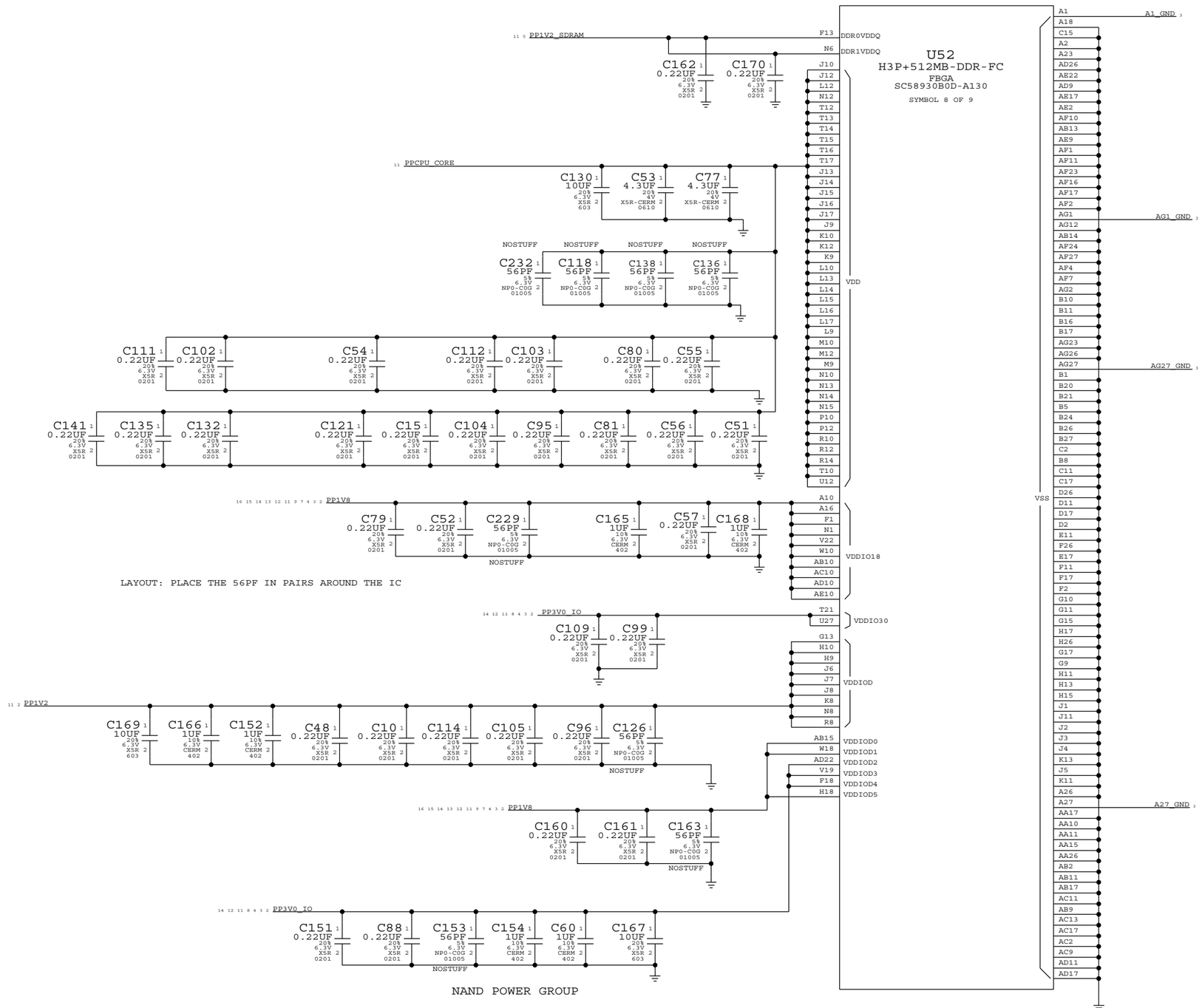

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PAGE TITLE

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PLACE THE 56PF IN PAIRS AROUND THE IC

17 13 11 10 PP1V8_SDRAM

C218 1 10UF 20% 6.3V X5R 2 603
C65 1 1UF 10% 6.3V CERM 2 402
C46 1 1UF 10% 6.3V CERM 2 402
C115 1 1UF 10% 6.3V CERM 2 402
C222 1 0.01UF 10% 6.3V X5R 2 01005
C240 1 0.01UF 10% 6.3V X5R 2 01005

C238 1 56PF 5% 6.3V NP0-C0G 2 01005 NOSTUFF
C14 1 0.22UF 20% 6.3V X5R 2 0201
C11 1 0.22UF 20% 6.3V X5R 2 0201
C3 1 0.22UF 20% 6.3V X5R 2 0201
C43 1 0.22UF 20% 6.3V X5R 2 0201
C41 1 0.22UF 20% 6.3V X5R 2 0201

13 4 PP1V2_SDRAM

C219 1 10UF 20% 6.3V X5R 2 603
C221 1 10UF 20% 6.3V X5R 2 603
C129 1 1UF 10% 6.3V CERM 2 402
C128 1 1UF 10% 6.3V CERM 2 402
C116 1 1UF 10% 6.3V CERM 2 402
C239 1 0.01UF 10% 6.3V X5R 2 01005
C242 1 0.01UF 10% 6.3V X5R 2 01005

C231 1 56PF 5% 6.3V NP0-C0G 2 01005 NOSTUFF
C18 1 56PF 5% 6.3V NP0-C0G 2 01005 NOSTUFF
C16 1 56PF 5% 6.3V NP0-C0G 2 01005 NOSTUFF
C107 1 0.22UF 20% 6.3V X5R 2 0201
C12 1 0.22UF 20% 6.3V X5R 2 0201
C4 1 0.22UF 20% 6.3V X5R 2 0201
C2 1 0.22UF 20% 6.3V X5R 2 0201
C1 1 0.22UF 20% 6.3V X5R 2 0201

U52
H3P+512MB-DDR-FC
FBGA
SC58930B0D-A130
SYMBOL 9 OF 9

VDD_MEM: A11, A21, AE1, AG11, AG16, AG24, D1, D27, H27, M1, P1, T27, W27, AG10, F27, AB1

VDDQ: A17, A24, A5, AC1, AD27, AG4, AG7, C1, K1, K27, W1, N27, T1, A20, A8, AA27

VSS: K14, K15, K16, K17, K2, K26, K3, K4, K5, K6, K7, L11, M11, M13, M14, M15, M16, M17, M2, N11, N2, N26, N3, N4, N5, N9, P11, P13, P14, P15, P16, P17, P2, P23, P24, P4, P5, P6, P9, R11, R13, R15, R2, R4, R5, R6, R7, R9, T11, T2, T26, U11, U13, U14, U15, U16, U17, U19, U22, U26, W17, W2, W26, W9

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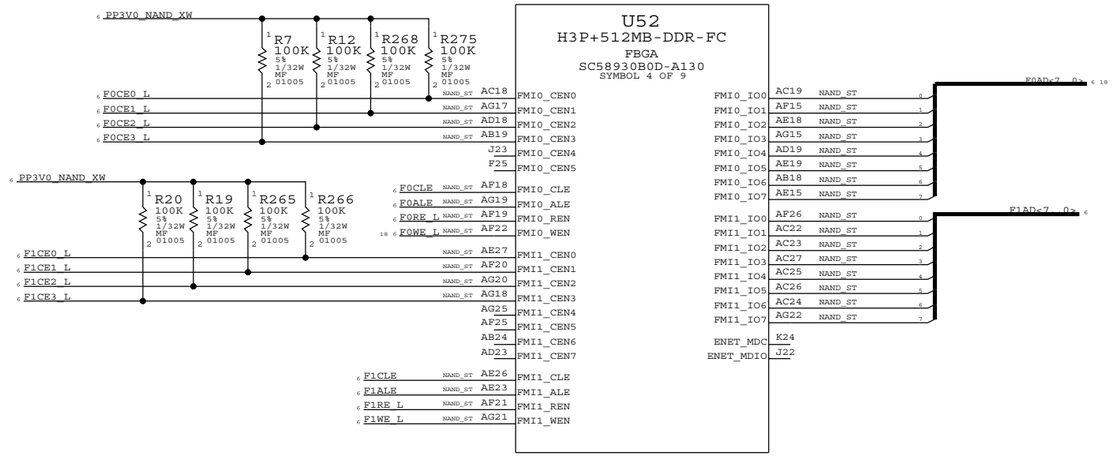

NAND BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
607-7990	1	SUBBOM 16G RAW	SUB1	Y	FLASH_16GB
607-7989	1	SUBBOM 32G RAW	SUB1	Y	FLASH_32GB
607-7998	1	SUBBOM 64G RAW LDO	SUB1	Y	FLASH_64GB

NAND ALTERNATE SUBBOMS

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
607-7995	607-7990	NOSTUFF	SUB1	16G PPN LDO ALT
607-7997	607-7989	NOSTUFF	SUB1	32G PPN LDO ALT
607-7996	607-7998	NOSTUFF	SUB1	64G PPN LDO ALT
607-7992	607-7990		SUB1	16G PPN ALT
607-7993	607-7989		SUB1	32G PPN ALT
607-7994	607-7998	NOSTUFF	SUB1	64G PPN ALT
607-7999	607-7990	NOSTUFF	SUB1	16G RAW LDO ALT
607-8000	607-7989	NOSTUFF	SUB1	32G RAW LDO ALT
607-7991	607-7998	NOSTUFF	SUB1	64G RAW ALT

===NOTES===
-ALL SUB-BOMS THAT ARE NOT USED ARE DESIGNATED WITH BOMOPTION "NOSTUFF"

-TO ADD ADDITIONAL NAND DEVICES OR TO CHANGE A NAND CONFIG USE THE "NAND BOM" SUBDESIGN TO MANAGE THE 607- APNS LISTED ABOVE

-THIS TABLE SHOULD NOT BE MODIFIED OTHER THAN TO ADD/REMOVE THE "NOSTUFF" PROPERTY.

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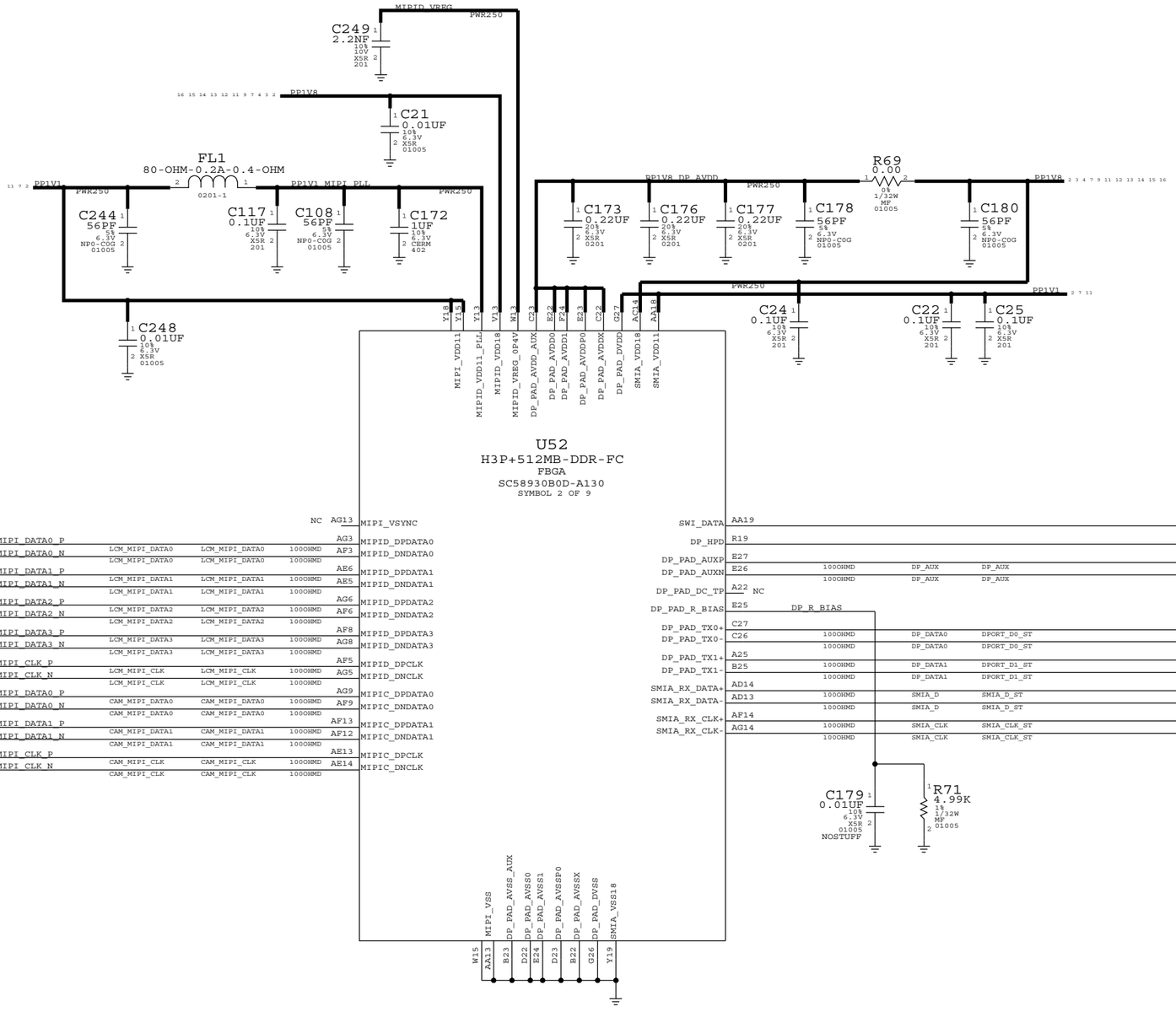

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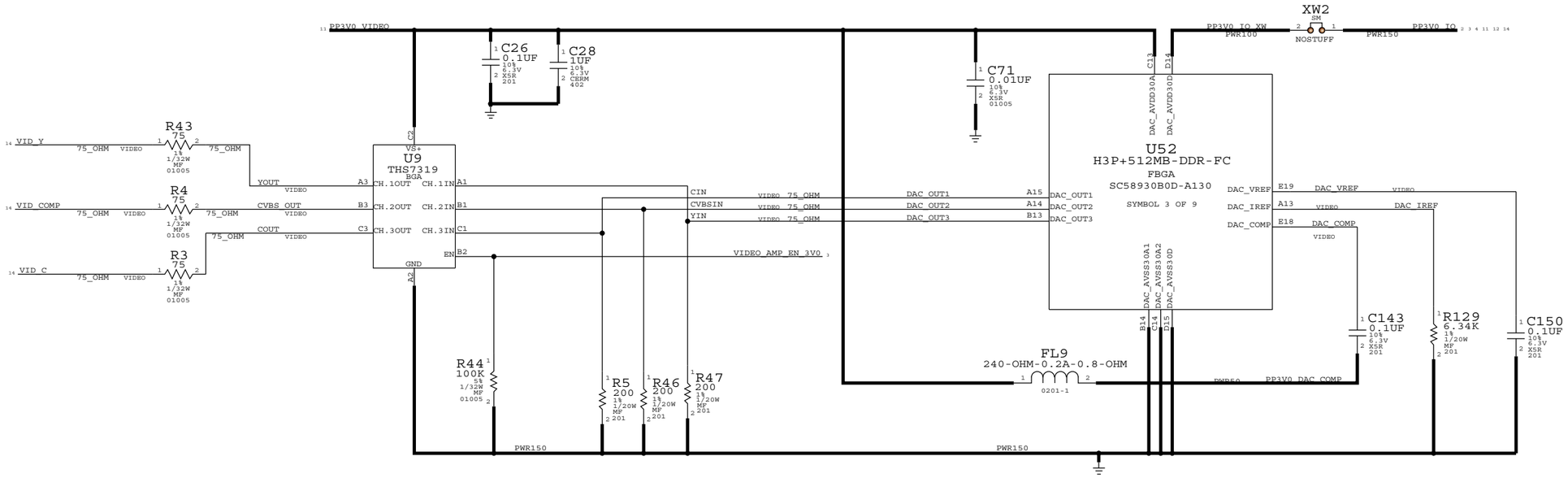

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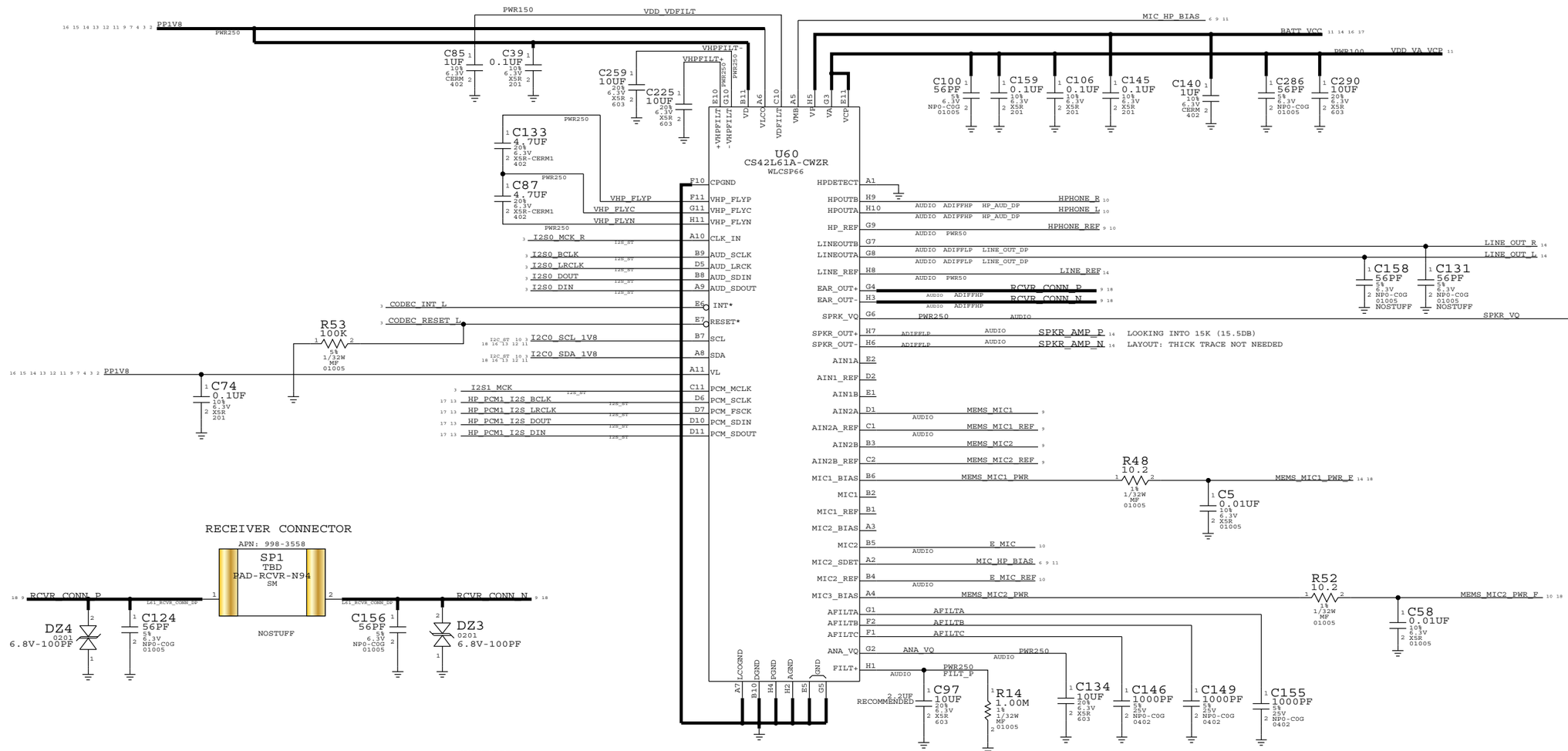
L61 AUDIO INTERFACE

I2C ADDRESS: 1001010X



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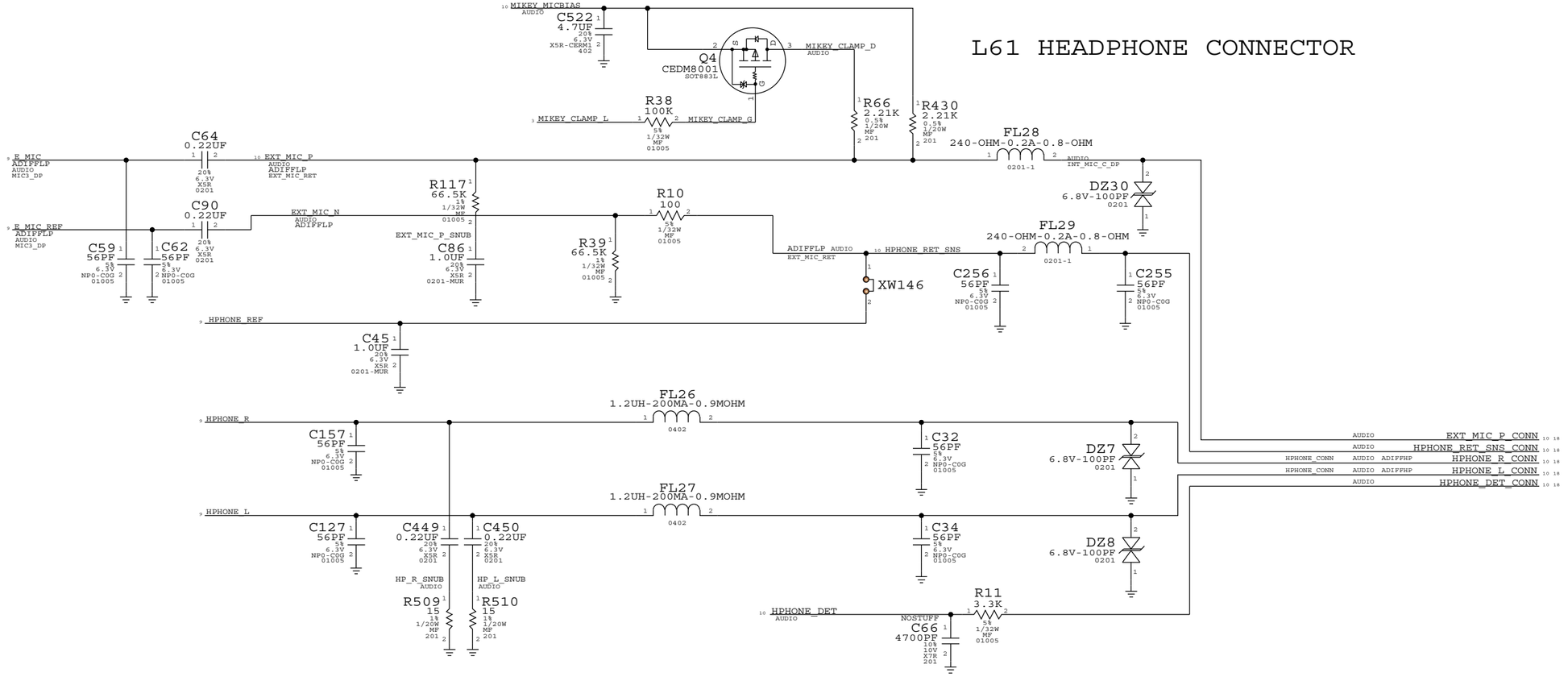
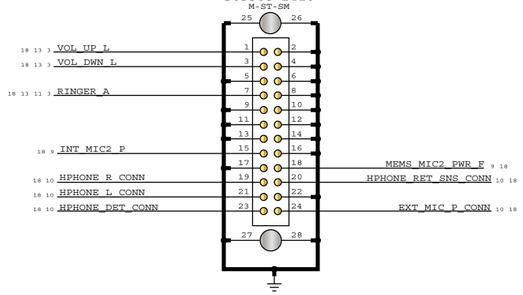
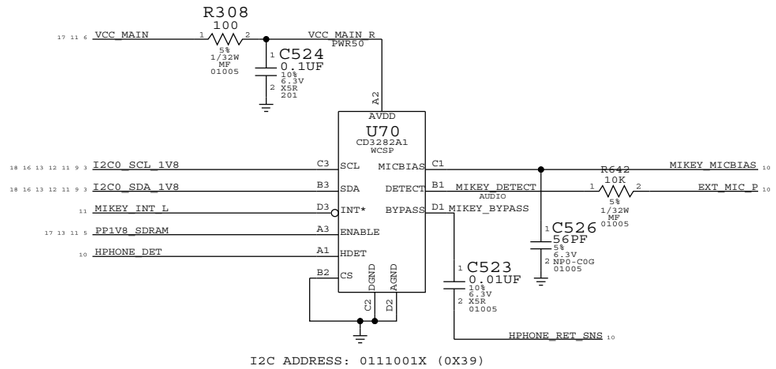
L61 HEADPHONE CONNECTOR



BUTTON FLEX CONNECTOR

PART_NUMBER=516S0843





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SYNC_MASTER=N/A SYNC_DATE=N/A

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HEADPHONE FILTERS, MIKEY

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PMU

I10

BATTSNS
BATT_VCC
VDD_BUCK_1_2
VDD_LCM
VDD_LDO4_7
VDD_LDO_1_6
VDD_LDO_3_5_8
VDD_LDO_10
VDD_LDO_11
VDD_VIB
VBUS_PROT
VBUS_PROT_SNS
VBUS_OV
USB_PWR_RPROT
FW_PWR_SNS
HOLD_KEY_BUFF_L
MENU_KEY_BUFF_L
RINGER_A
ACC_DETECT_L
ACC_IDENTIFY
PMU_IRQ_L
NTC
I2C0_SDA_1V8
I2C0_SCL_1V8
SWI_BLCTRL_XW
ADC_IN7
KEEPACT
USB_BRICKID
RESET_3V0_L
PMU_RESET_IN

XW8
SM
SWI_BLCTRL

VCC_MAIN
PP1V35
PP1V8_VBUCK2
PP1V8
PP1V8_GRAPE
PP3V0_IO
PP1V7_VA_VCP
PP3V0_VIDEO
PP3V0_OPTICAL
PP3V0_NAND
PP3V3_ACC
PP3V0_LCD
MIC_HP_BIAS
PP1V2_PLL
PP3V0_CAM
PP2V8_CAM
PP1V1_CPU
PP1V2_HIPARK
PP1V8_ALWAYS
LCD_BOOST_OUT
LCD_BOOST_CTRL
VLCM1
VIB_PWM_EN
LED_PWR_IN
LCD_BL_CA
WLED1
BT_HOST_WAKE
AP_PMU_EXTON
BATTERY_SWI
BB_PMU_ON_L
CLK_32K_PMU
DOCK_BB_USB_SEL
CLK_32K_WIFI
MIKEY_INT_L
WLAN_HOST_WAKE
WL_BT_REG_ON

PWRGD_GT
MAKE_BASE=TRUE

VCC_MAIN
PPCPU_CORE
PP1V8_SDRAM
PP1V8
PP1V8_GRAPE
PP3V0_IO
VDD_VA_VCP
PP3V0_VIDEO
PP3V0_OPTICAL
PP3V0_NAND
PP3V3_ACC
PP3V0_LMU
MIC_HP_BIAS
PP1V2
PP3V0_CAM
PP2V85_CAM
PP1V1
PP1V2_HP
PP1V8_ALWAYS
LCD_5V7_AVDDH
LCD_BOOST_CTRL
VLCM1
VCC_MAIN
LCD_BL_CA
LCD_BL_CC
BT_HOST_WAKE
AP_PMU_EXTON
BATTERY_SWI
RESET_PMU_L
CLK_32K_PMU
DOCK_BB_EN
CLK_32K_WIFI
MIKEY_INT_L
WLAN_HOST_WAKE
WL_BT_REG_ON

ASHLEY_PMU

LOCATED ON PP 29 - 30

NOTE: THIS DELAYS STARTUP OF PP1V2_SDRAM BY 0.1MS

PP1V8_SDRAM
R76 10K 1% 1/32W MF 01005
SDRAM_CE_RC
C185 0.01UF 10% 6.3V X5R 01005
U7 RP106Z121D WLCSP4
VDD
CE
VOUT
GND
PP1V2_SDRAM
PWR250

LINEAR VIBE DRIVE

VIBE_PWM
VIBE_RC
C164 0.01UF 10% 6.3V X5R 01005
R50 255K 1% 1/32W MF 01005
R51 523K 1% 1/32W MF 01005
VIBE_IN_N
VIBE_MID
LINEAR_VIBE_SHDN_N
C187 0.01UF 10% 6.3V X5R 01005
C213 1.0UF 20% 6.3V X5R 0201-MUR
R79 100K 5% 1/32W MF 01005
R68 232K 1% 1/32W MF 01005
VIBE_RC2
C217 470PF 10% 10V X5R 01005
BATT_VCC
U8 LM4995 TM
-IN
+IN
BYP
SHDN*
VO1
VO2
LINEAR_VIBE_P
LINEAR_VIBE_N
NOSTUFF
SP2 3.00MMX2.73MM-NSP SMT-PAD
PWR100
C220 56PF 5% 6.3V NP0-C0G 01005
C223 56PF 5% 6.3V NP0-C0G 01005

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DRAWING NUMBER: 051-8296
SIZE: D
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PAGE: 11 OF 18
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ACCELEROMETER

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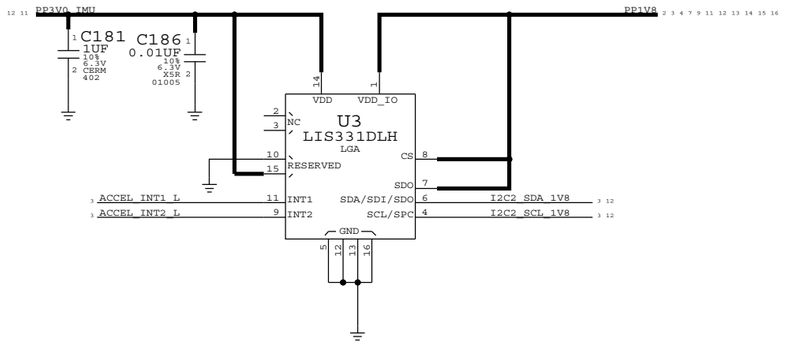
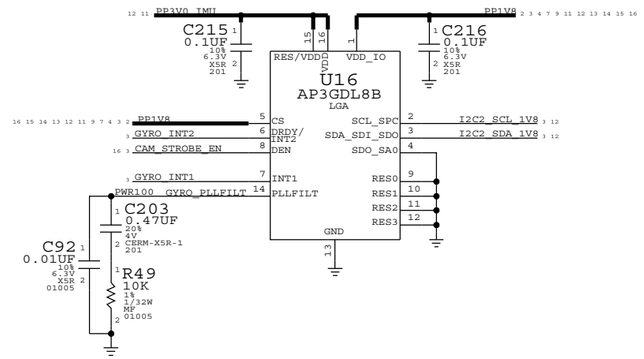


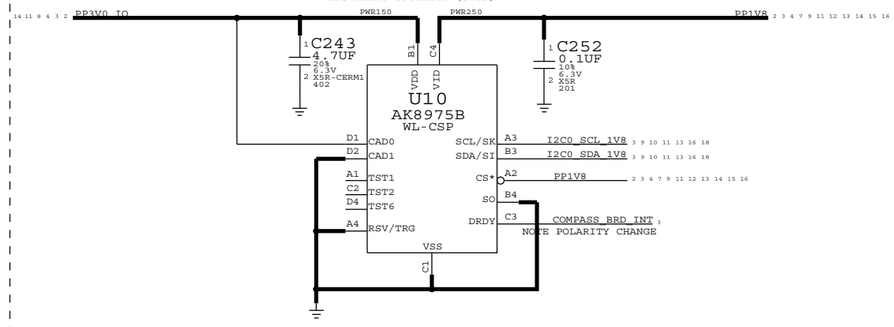
GYRO



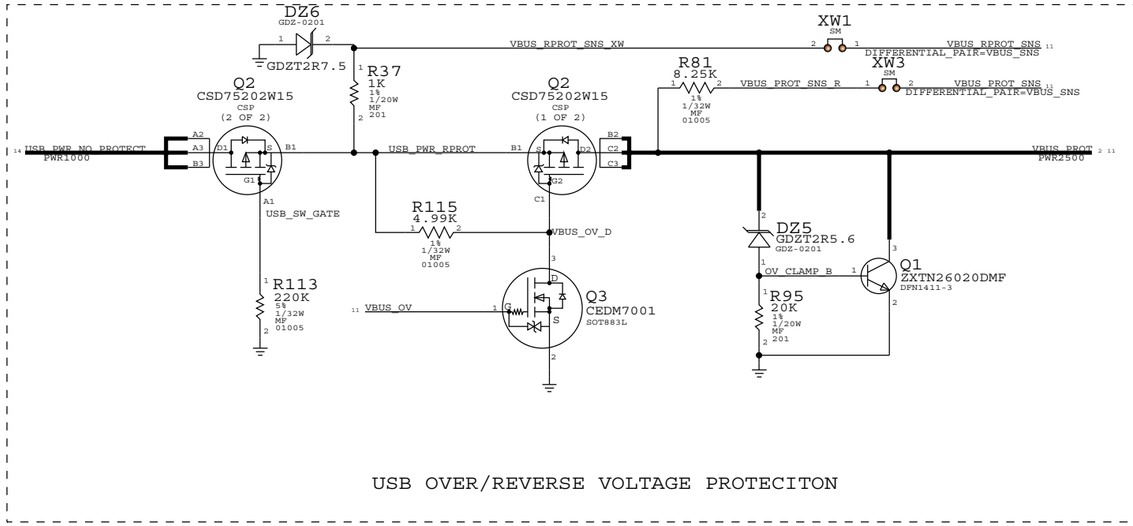
COMPASS 1

NOTE I2C ADDRESS CHANGE

I2C ADDR: 0001110X (0X0D)



USB OVER/REVERSE VOLTAGE PROTECITON



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PAGE TITLE
SIM,ACCEL,VIBE, GYRO, COMPASS

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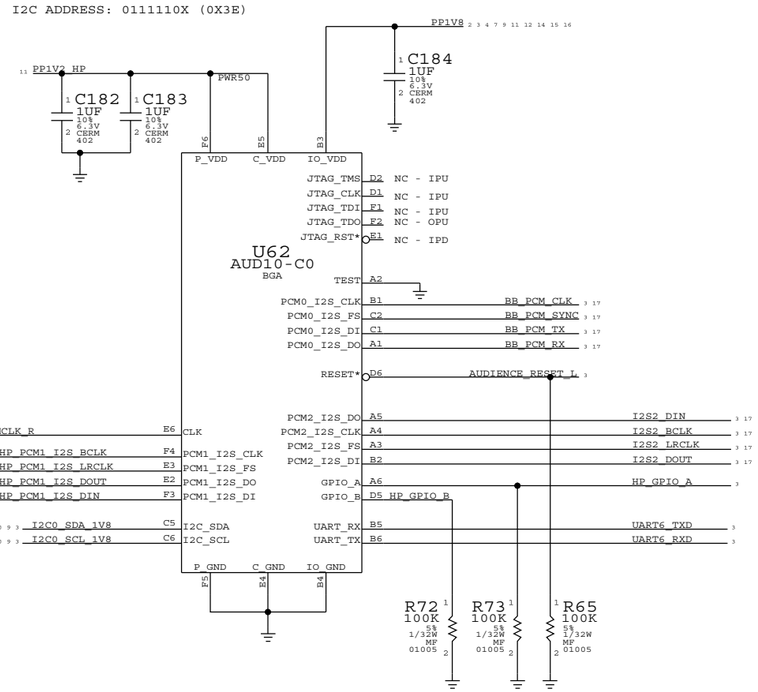
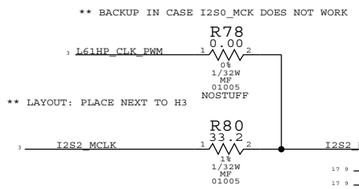
I2C ADDRESS: 0111110X (0X3E)

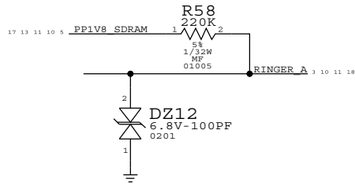


** BACKUP IN CASE I2S0_MCK DOES NOT WORK

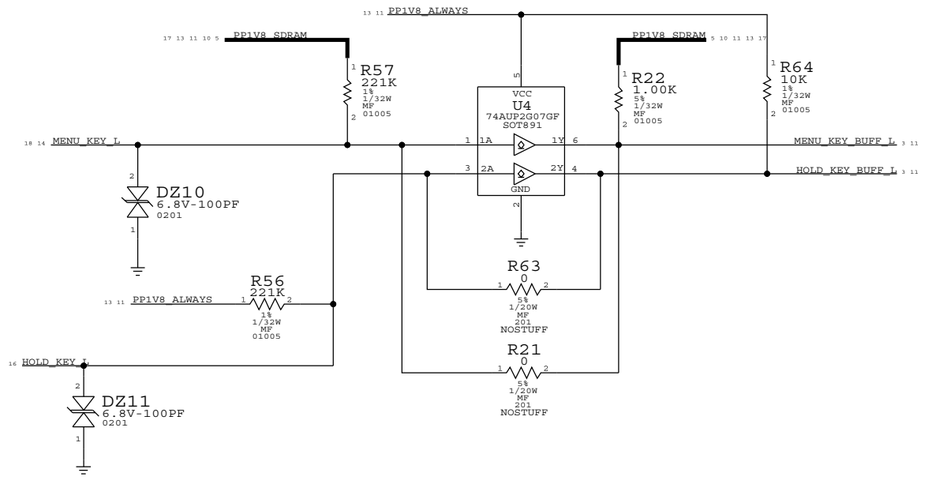


VOLUME SWITCHES

RINGER A/B SWITCH



POWER/HOLD KEY
MENU KEY



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PAGE TITLE
HIGHLAND PARK, SWITCHES

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DOCK CONNECTOR

SPKR PREAMP

R82 100K 5% 1/32W MF 01005
R84 100K 5% 1/32W MF 01005
C188 0.1UF 10% 6.3V X5R 201
C189 0.1UF 10% 6.3V X5R 201
C190 0.1UF 10% 6.3V X5R 201
C191 0.1UF 10% 6.3V X5R 201
C201 0.1UF 10% 6.3V X5R 201
C202 0.1UF 10% 6.3V X5R 201
D2 SM-201 RB521ZS-30
D3 SM-201 RB521ZS-30
L1 90-OHM DLP0NS
L2 90-OHM DLP0NS
L5 12-OHM-100MA-8.5GHZ TCM0806-4SM
L6 12-OHM-100MA-8.5GHZ TCM0806-4SM
J3 AA03-P042VA2 M-ST-SM
DZ1 0201 6.8V-100PF
DZ2 0201 6.8V-100PF
R516 47.0K 5% 1/32W MF 01005
DZ31 GDZT2R5.1B GDZ-0201
U6 74LVC1G07GF SOT891
R54 220K 5% 1/32W MF 01005
FL10 240-OHM-0.2A-0.8-OHM 0201-1 DEVELOPMENT
FL11 240-OHM-0.2A-0.8-OHM 0201-1 DEVELOPMENT
FL31 220-OHM-0.7A-0.28-OHM 0402
FL19 220-OHM-0.7A-0.28-OHM 0402
C262 56PF 5% 6.3V NP0-C0G 01005
C263 56PF 5% 6.3V NP0-C0G 01005
FL34 120-OHM-210MA 01005
C254 56PF 5% 6.3V NP0-C0G 01005
FL8 120-OHM-210MA 01005
C224 56PF 5% 6.3V NP0-C0G 01005
R118 0.00 0% 1/32W MF 01005
C227 56PF 5% 6.3V NP0-C0G 01005
C196 56PF 5% 6.3V NP0-C0G 01005
C195 56PF 5% 6.3V NP0-C0G 01005
L3 FERR-120-OHM-1.5A 0402B
L4 FERR-120-OHM-1.5A 0402B
C67 100PF 5% 16V NP0-C0G 01005
C226 100PF 5% 16V NP0-C0G 01005
C241 100PF 5% 25V CERM 201
C63 100PF 5% 25V CERM 201
C147 10UF 20% 6.3V X5R 603
U5 MAX9718 UCSP
C253 56PF 5% 6.3V NP0-C0G 01005
C257 56PF 5% 6.3V NP0-C0G 01005
R13 698K 1% 1/32W MF 01005
C233 0.1UF 10% 6.3V X5R 201
C73 220PF 10% 10V X7R-CERM 01005
C72 220PF 10% 10V X7R-CERM 01005
FL14 240-OHM-0.2A-0.8-OHM 0201-1
FL15 240-OHM-0.2A-0.8-OHM 0201-1
C207 56PF 5% 6.3V NP0-C0G 01005
C214 56PF 5% 6.3V NP0-C0G 01005
FL22 80-OHM-0.2A-0.4-OHM 0201-1
FL23 80-OHM-0.2A-0.4-OHM 0201-1
FL24 80-OHM-0.2A-0.4-OHM 0201-1
FL25 240-OHM-0.2A-0.8-OHM 0201-1
C260 56PF 5% 6.3V NP0-C0G 01005
C261 56PF 5% 6.3V NP0-C0G 01005
R99 0.00 0% 1/32W MF 01005 NOSTUFF
R85 0.00 0% 1/32W MF 01005 NOSTUFF
R86 0.00 0% 1/32W MF 01005 NOSTUFF

** WAS 47PF USB_POWR_SNUB1
** WAS 47PF USB_PWR_SNUB2
** DUAL STACK FOR DOUBLE ** FAULT PROTECTION ** VALUES MAY NEED TO CHANGE

SYNC_MASTER=N/A SYNC_DATE=N/A
PAGE TITLE: DOCK
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NIMBUS

U19
F761586GZCKR
BGA

GRAPE_ST 15 NIMBUS_PANEL_IN<0> B4 IN[0]
GRAPE_ST 15 NIMBUS_PANEL_IN<1> A3 IN[1]
GRAPE_ST 15 NIMBUS_PANEL_IN<2> B3 IN[2]
GRAPE_ST 15 NIMBUS_PANEL_IN<3> A2 IN[3]
GRAPE_ST 15 NIMBUS_PANEL_IN<4> A1 IN[4]
GRAPE_ST 15 NIMBUS_PANEL_IN<5> B2 IN[5]
GRAPE_ST 15 NIMBUS_PANEL_IN<6> B1 IN[6]
GRAPE_ST 15 NIMBUS_PANEL_IN<7> C2 IN[7]
GRAPE_ST 15 NIMBUS_PANEL_IN<8> C1 IN[8]
GRAPE_ST 15 NIMBUS_PANEL_IN<9> C3 IN[9]
NC A4 IR_IN
18 15 GRAPE_LDO_IN PWR250 A6 LDO_IN
C205 4.7UF 20% 6.3V X5R-CERM1 402
CPY0 PWR250 B7 CPY0
CPX0 PWR250 B8 CPX0
C206 4.7UF 20% 6.3V X5R-CERM1 402
CPY1 PWR250 A7 CPY1
CPX1 PWR250 A8 CPX1
R16 0.1 1% 1/20W MF 201
18 11 PP1V8_GRAPE
C198 4.7UF 20% 6.3V X5R-CERM1 402
C200 0.47UF 20% 4V CERM-X5R-1 201
C5 BOOT_CFG[0]
C4 BOOT_CFG[1]
D4 JTAG_TMS
D5 JTAG_TDI
D2 JTAG_TCK
E4 JTAG_TDO
D6 JTAG_RTCK/TM[0]
D3 TM1
18 3 GRAPE_RESET_L E3 RESET*
18 11 CLK_32K_PMU E8 CLK_IN

VSTM[0] E2 NIMBUS_VSTM_OUT<0> 15 GRAPE_ST
VSTM[1] E1 NIMBUS_VSTM_OUT<1> 15 GRAPE_ST
VSTM[2] F2 NIMBUS_VSTM_OUT<2> 15 GRAPE_ST
VSTM[3] F1 NIMBUS_VSTM_OUT<3> 15 GRAPE_ST
VSTM[4] F3 NIMBUS_VSTM_OUT<4> 15 GRAPE_ST
VSTM[5] G1 NIMBUS_VSTM_OUT<5> 15 GRAPE_ST
VSTM[6] G2 NIMBUS_VSTM_OUT<6> 15 GRAPE_ST
VSTM[7] H1 NIMBUS_VSTM_OUT<7> 15 GRAPE_ST
VSTM[8] H2 NIMBUS_VSTM_OUT<8> 15 GRAPE_ST
VSTM[9] G3 NIMBUS_VSTM_OUT<9> 15 GRAPE_ST
VSTM[10] H3 NIMBUS_VSTM_OUT<10> 15 GRAPE_ST
VSTM[11] G4 NIMBUS_VSTM_OUT<11> 15 GRAPE_ST
VSTM[12] H4 NIMBUS_VSTM_OUT<12> 15 GRAPE_ST
VSTM[13] G5 NIMBUS_VSTM_OUT<13> 15 GRAPE_ST
VSTM[14] H5 NIMBUS_VSTM_OUT<14> 15 GRAPE_ST
INT*/GPIO[0] H6 NIMBUS_INT_L 3 18
GO/GPIO[1] E7
I2C/GPIO[2] F7
I2C/GPIO[3] F8
SYNC_GPIO[4] F6
IR_DRV_GPIO[5] C6
A_CS*/GPIO[6] F4 GRAPE_ST NIMBUS_PANEL_CONFIG 15
A_SCLLK_GPIO[7] E6 NIMBUS_PRODUCT_CONFIG, NC=IPHONE
A_SDO_GPIO[8] F5
A_SDI_GPIO[9] E5
H_CS* G7 SPI1_CS_L 3 18 SPI_ST
H_SCLK G8 SPI1_SCLK 3 18 SPI_ST
H_SDI H7 SPI1_MOSI 3 SPI_ST
H_SDO H8 SPI_ST SPI1_MISO_R R74 10.2 1% 1/32W MF 01005 SPI_ST SPI1_MISO 3
3.3V_OUT D7 NC

A5 GND
D1 GND
D8 GND
G6 GND
B5 VDD_ANA
B6 VDD_CORE
C7 VDD_IO
C8 VDD_H

VDD_ANA PWR500
C208 4.7UF 20% 6.3V X5R-CERM1 402
PWR500 VDD_H
C212 4.7UF 20% 6.3V X5R-CERM1 402
R119 1.00M 1% 1/32W MF 01005 ADC_IN7 11 18
R120 510K 5% 1/32W MF 01005
VDD_CORE PWR250 C210 4.7UF 20% 6.3V X5R-CERM1 402
C211 0.47UF 20% 4V CERM-X5R-1 201
PWR250 R30 10 1% 1/20W MF 201 GRAPE_LDO_IN 15 18

GRAPE CONNECTOR
NIMBUS CONNECTOR

J5
AA03-S030VA1
F-ST-SM

(POUR GND ON UPPER &LOWER LAYER)
(GUARDED BY GND ON SAME LAYER)

15 NIMBUS_VSTM_OUT<0> 1
15 NIMBUS_VSTM_OUT<3> 3
15 NIMBUS_VSTM_OUT<2> 5
15 NIMBUS_VSTM_OUT<5> 7
15 NIMBUS_VSTM_OUT<4> 9
15 NIMBUS_VSTM_OUT<6> 11
15 NIMBUS_VSTM_OUT<9> 13
15 NIMBUS_VSTM_OUT<7> 15
15 NIMBUS_VSTM_OUT<8> 17
15 NIMBUS_VSTM_OUT<10> 19
15 NIMBUS_VSTM_OUT<11> 21
15 NIMBUS_VSTM_OUT<12> 25
15 NIMBUS_VSTM_OUT<13> 27
15 NIMBUS_VSTM_OUT<14> 29
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
NIMBUS_PANEL_IN<0> 15
NIMBUS_PANEL_IN<1> 15
NIMBUS_PANEL_IN<2> 15
NIMBUS_PANEL_IN<3> 15
NIMBUS_PANEL_IN<4> 15
NIMBUS_PANEL_IN<5> 15
NIMBUS_PANEL_IN<6> 15
NIMBUS_PANEL_IN<7> 15
NIMBUS_PANEL_IN<8> 15
NIMBUS_PANEL_IN<9> 15
NIMBUS_VSTM_OUT<1> 15
NIMBUS_PANEL_CONFIG 15

LCD CONNECTOR

J4
AXE426124
M-ST-SM

LCD_BL_CA_F
LCD_BL_CC_F
LCD_5V7_B2B_AVDDH 15 18
PP1V8_LCM_CONN
LCD_BOOST_CTRL 11 18
LCD_HIFA 9
* STSTB
LCD_PIFA 18
LCM_MIPI_DATA0_C_P 7
LCM_MIPI_DATA0_C_N 7
LCM_MIPI_DATA1_C_P 7
LCM_MIPI_DATA1_C_N 7
LCM_MIPI_CLK_C_P 7
LCM_MIPI_CLK_C_N 7
LCM_MIPI_DATA2_C_P 7
LCM_MIPI_DATA2_C_N 7
LCM_MIPI_DATA3_C_P 7
LCM_MIPI_DATA3_C_N 7
LCD_RESET_B2B_L 1 9 LCD_RESET_L

FL4 240-OHM-0.2A-0.8-OHM 0201-1 LCD_BL_CA 11
FL3 240-OHM-0.2A-0.8-OHM 0201-1 LCD_BL_CC 11
FL7 80-OHM-0.2A-0.4-OHM 0201-1 PP1V8 2 3 4 7 9 11 12 13 14 16
C204 0.1UF 10% 6.3V X5R 201
C245 56PF 5% 6.3V NPO-COG 01005
FL35 120-OHM-210MA 01005
C266 56PF 5% 6.3V NPO-COG 01005
C273 100PF 5% 25V CERM 201
C93 100PF 5% 25V CERM 201
C405 56PF 5% 6.3V NPO-COG 01005
C33 56PF 5% 6.3V NPO-COG 01005
C258 56PF 5% 6.3V NPO-COG 01005
C265 56PF 5% 6.3V NPO-COG 01005

** THESE 10 CAPS ARE TO REPLACE 1 4.7 UF CAP IN ORDER TO REDUCE HEIGHT IN THE FORHEAD AREA

18 15 LCD_5V7_B2B_AVDDH PWR250
C68 1.0UF 20% 6.3V X5R 0201-MUR
C70 1.0UF 20% 6.3V X5R 0201-MUR
C76 1.0UF 20% 6.3V X5R 0201-MUR
C83 1.0UF 20% 6.3V X5R 0201-MUR
C89 1.0UF 20% 6.3V X5R 0201-MUR
C69 1.0UF 20% 6.3V X5R 0201-MUR
C75 1.0UF 20% 6.3V X5R 0201-MUR
C84 1.0UF 20% 6.3V X5R 0201-MUR
C91 1.0UF 20% 6.3V X5R 0201-MUR
FL36 80-OHM-0.2A-0.4-OHM 0201-1 LCD_5V7_AVDDH 11
C267 56PF 5% 6.3V NPO-COG 01005
C82 1.0UF 20% 6.3V X5R 0201-MUR

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PAGE TITLE
NIMBUS, GRAPE, LCD CONN.

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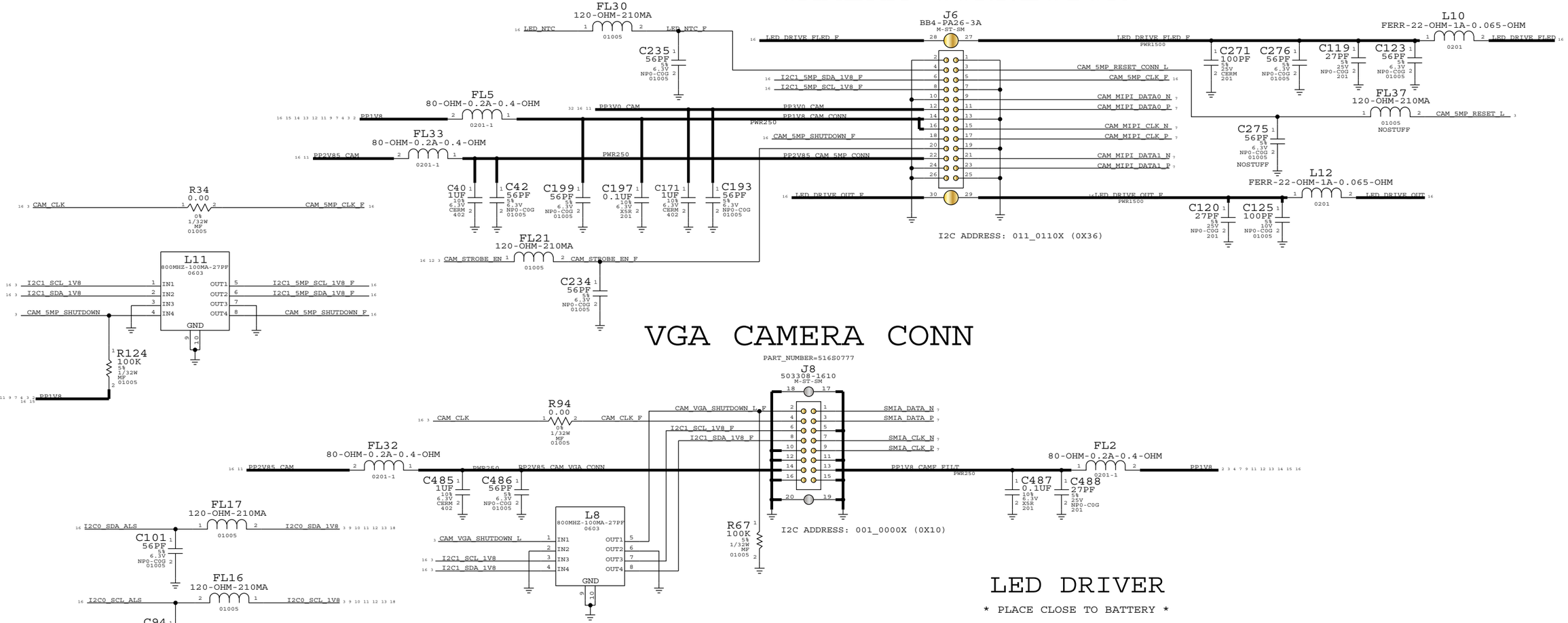
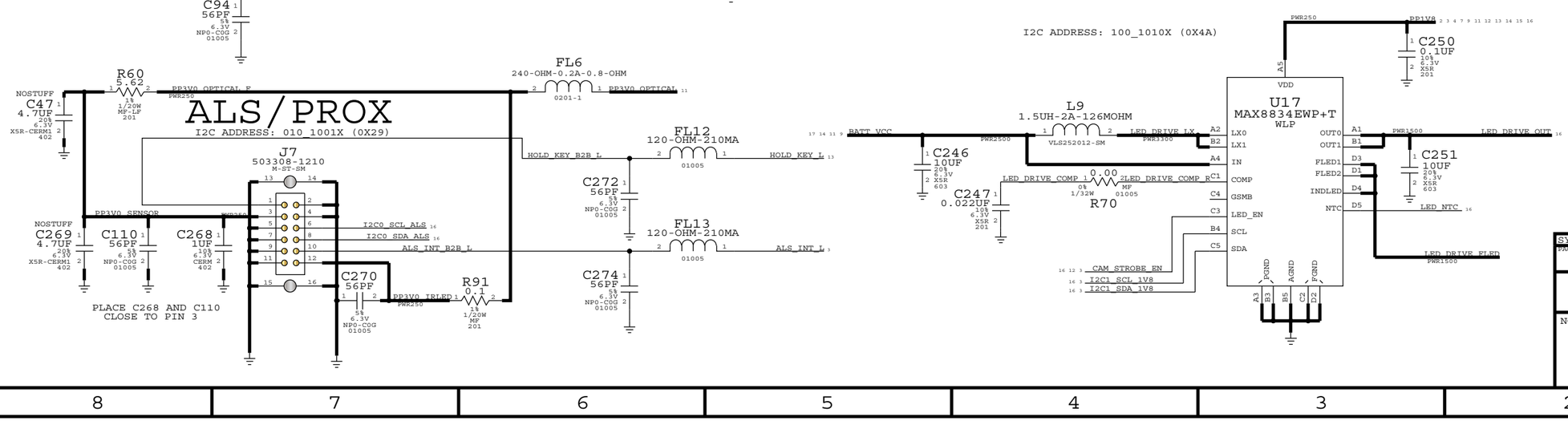
5MP CAMERA CONNECTOR



VGA CAMERA CONN

LED DRIVER

* PLACE CLOSE TO BATTERY *



ALS/PROX

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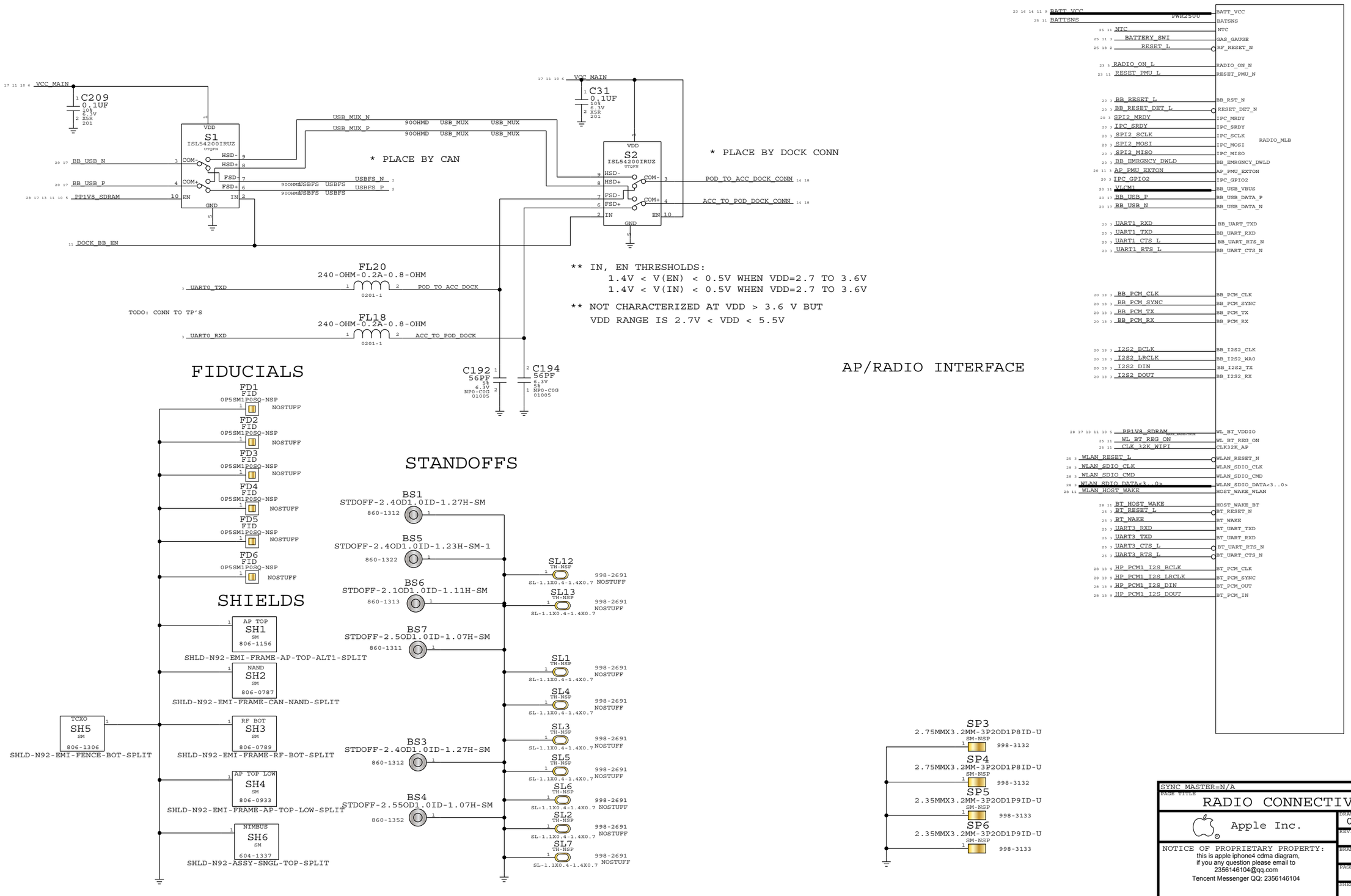
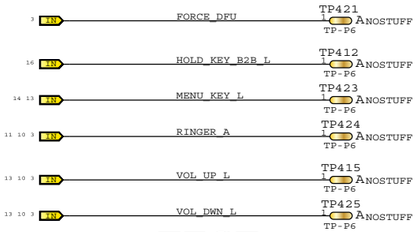

LOCATED ON PP 19 - 28
I351 RF
C209 0.1UF 10% 6.3V X5R 201
C31 0.1UF 10% 6.3V X5R 201
VCC_MAIN
S1 ISL54200IRUZ UTQFN
S2 ISL54200IRUZ UTQFN
VDD
GND
BB_USB_N
BB_USB_P
PP1V8_SDRAM
DOCK_BB_EN
USB_MUX_N
USB_MUX_P
USBFS_N
USBFS_P
90OHMD USB_MUX USB_MUX
* PLACE BY CAN
* PLACE BY DOCK CONN
POD_TO_ACC_DOCK_CONN
ACC_TO_POD_DOCK_CONN
** IN, EN THRESHOLDS:
1.4V < V(EN) < 0.5V WHEN VDD=2.7 TO 3.6V
1.4V < V(IN) < 0.5V WHEN VDD=2.7 TO 3.6V
** NOT CHARACTERIZED AT VDD > 3.6 V BUT
VDD RANGE IS 2.7V < VDD < 5.5V
FL20 240-OHM-0.2A-0.8-OHM 0201-1
FL18 240-OHM-0.2A-0.8-OHM 0201-1
UART0_TXD
UART0_RXD
POD_TO_ACC_DOCK
ACC_TO_POD_DOCK
TODO: CONN TO TP'S
C192 56PF 5% 6.3V NP0-C0G 01005
C194 56PF 5% 6.3V NP0-C0G 01005
AP/RADIO INTERFACE
FIDUCIALS
FD1 FID 0P5SM1P0SQ-NSP NOSTUFF
FD2 FID 0P5SM1P0SQ-NSP NOSTUFF
FD3 FID 0P5SM1P0SQ-NSP NOSTUFF
FD4 FID 0P5SM1P0SQ-NSP NOSTUFF
FD5 FID 0P5SM1P0SQ-NSP NOSTUFF
FD6 FID 0P5SM1P0SQ-NSP NOSTUFF
STANDOFFS
BS1 STDOFF-2.4OD1.0ID-1.27H-SM 860-1312
BS5 STDOFF-2.4OD1.0ID-1.23H-SM-1 860-1322
BS6 STDOFF-2.1OD1.0ID-1.11H-SM 860-1313
BS7 STDOFF-2.5OD1.0ID-1.07H-SM 860-1311
BS3 STDOFF-2.4OD1.0ID-1.27H-SM 860-1312
BS4 STDOFF-2.55OD1.0ID-1.07H-SM 860-1352
SL12 SL1 SL4 SL3 SL5 SL6 SL2 SL7 TH-NSP SL-1.1X0.4-1.4X0.7 998-2691 NOSTUFF
SHIELDS
SH1 AP TOP SM 806-1156 SHLD-N92-EMI-FRAME-AP-TOP-ALT1-SPLIT
SH2 NAND SM 806-0787 SHLD-N92-EMI-FRAME-CAN-NAND-SPLIT
SH5 TCXO SM 806-1306 SHLD-N92-EMI-FENCE-BOT-SPLIT
SH3 RF BOT SM 806-0789 SHLD-N92-EMI-FRAME-RF-BOT-SPLIT
SH4 AP TOP LOW SM 806-0933 SHLD-N92-EMI-FRAME-AP-TOP-LOW-SPLIT
SH6 NIMBUS SM 604-1337 SHLD-N92-ASSY-SNGL-TOP-SPLIT
SP3 SP4 SP5 SP6 2.75MMX3.2MM-3P2OD1P8ID-U 2.35MMX3.2MM-3P2OD1P9ID-U SM-NSP 998-3132 998-3133
BATT_VCC BATTSNS NTC BATTERY_SWI RESET_L RADIO_ON_L RESET_PMU_L
BB_RESET_L BB_RESET_DET_L SPI2_MRDY IPC_SRDY SPI2_SCLK SPI2_MOSI SPI2_MISO BB_EMRGNCY_DWLD AP_PMU_EXTON IPC_GPIO2 VLCM1 BB_USB_P BB_USB_N
UART1_RXD UART1_TXD UART1_CTS_L UART1_RTS_L
BB_PCM_CLK BB_PCM_SYNC BB_PCM_TX BB_PCM_RX
I2S2_BCLK I2S2_LRCLK I2S2_DIN I2S2_DOUT
WL_BT_REG_ON CLK_32K_WIFI WLAN_RESET_L WLAN_SDIO_CLK WLAN_SDIO_CMD WLAN_SDIO_DATA<3..0> WLAN_HOST_WAKE
BT_HOST_WAKE BT_RESET_L BT_WAKE UART3_RXD UART3_TXD UART3_CTS_L UART3_RTS_L
HP_PCM1_I2S_BCLK HP_PCM1_I2S_LRCLK HP_PCM1_I2S_DIN HP_PCM1_I2S_DOUT
RADIO_MLB
BATT_VCC BATTSNS NTC GAS_GAUGE RF_RESET_N RADIO_ON_N RESET_PMU_N BB_RST_N RESET_DET_N IPC_MRDY IPC_SRDY IPC_SCLK IPC_MOSI IPC_MISO BB_EMRGNCY_DWLD AP_PMU_EXTON IPC_GPIO2 BB_USB_VBUS BB_USB_DATA_P BB_USB_DATA_N
BB_UART_TXD BB_UART_RXD BB_UART_RTS_N BB_UART_CTS_N
BB_PCM_CLK BB_PCM_SYNC BB_PCM_TX BB_PCM_RX
BB_I2S2_CLK BB_I2S2_WA0 BB_I2S2_TX BB_I2S2_RX
WL_BT_VDDIO WL_BT_REG_ON CLK32K_AP WLAN_RESET_N WLAN_SDIO_CLK WLAN_SDIO_CMD WLAN_SDIO_DATA<3..0> HOST_WAKE_WLAN
HOST_WAKE_BT BT_RESET_N BT_WAKE BT_UART_TXD BT_UART_RXD BT_UART_RTS_N BT_UART_CTS_N
BT_PCM_CLK BT_PCM_SYNC BT_PCM_OUT BT_PCM_IN
SYNC_MASTER=N/A
SYNC_DATE=N/A
PAGE TITLE
RADIO CONNECTIVITY
Apple Inc.
DRAWING NUMBER 051-8296
SIZE D
REVISION A.6.0
BRANCH
PAGE 17 OF 18
SHEET 17 OF 33
NOTICE OF PROPRIETARY PROPERTY:
this is apple iphone4 cdma diagram,
if you any question please email to
2356146104@qq.com
Tencent Messenger QQ: 2356146104

TEST POINTS

GPIO

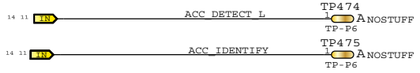


TODO: CONN TO TP'S

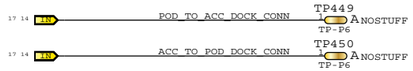
TEST

RESET

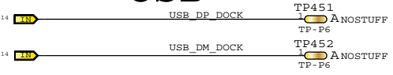
ACCESSORY DETECT



UART

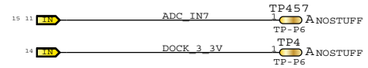


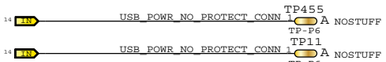
USB



SIGNAL GND(SENSE)

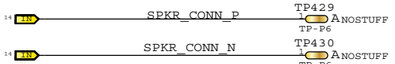
POWER



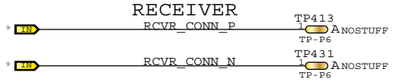


AUDIO

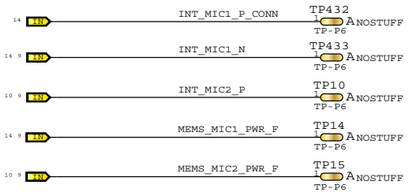
SPEAKER



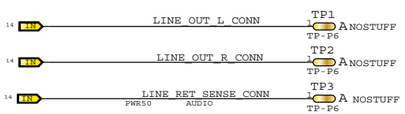
RECEIVER



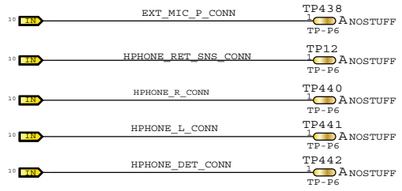
MIC



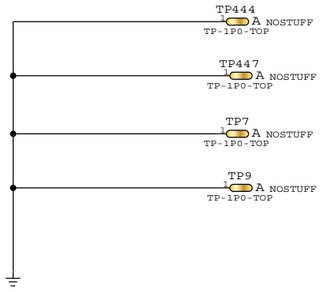
LINE OUT



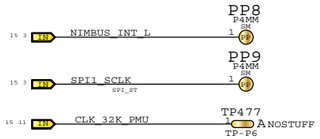
HEADPHONE



POWER GND

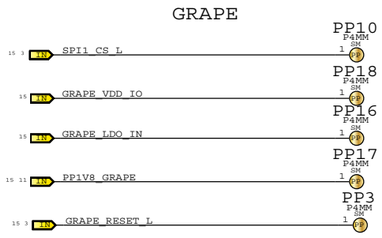


GRAPE

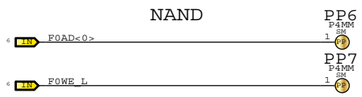


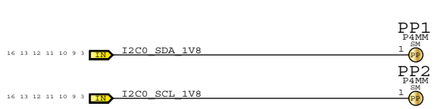
PROBE POINTS

GRAPE

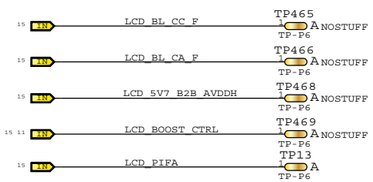


NAND





LCM



SYNC_MASTER=N/A SYNC_DATE=N/A

PAGE TITLE: TEST POINTS

Apple Inc.

DRAWING NUMBER: 051-8296 SIZE: D

REVISION: A.6.0

BRANCH:

PAGE: 18 OF 18

SHEET: 18 OF 33

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
			2010-12-22

N92 RADIO_MLB (PHOENIX)
RADIO_MLB - 12/17/10:SUBDESIGN

DRAWING TITLE: N92 RADIO_MLB (PHOENIX)

Apple Inc.

DRAWING NUMBER: 051-8296 SIZE: D

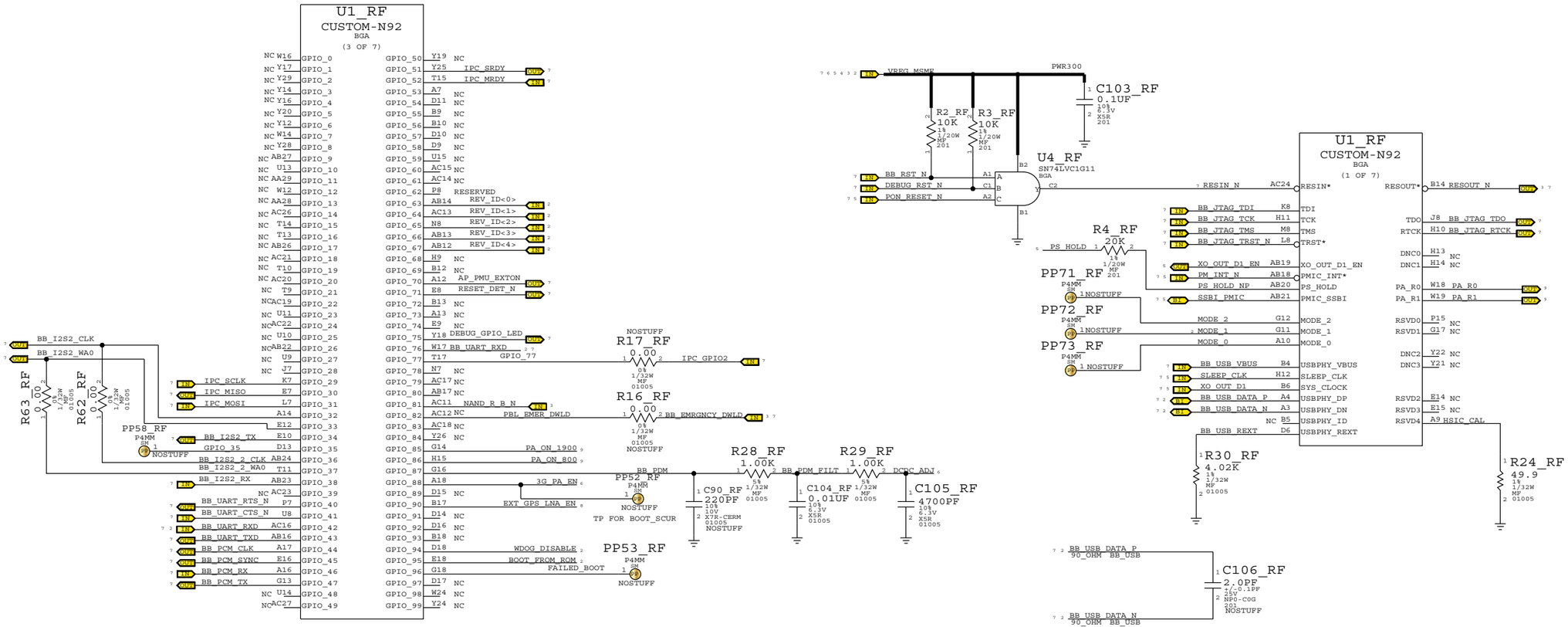
REVISION: A.6.0

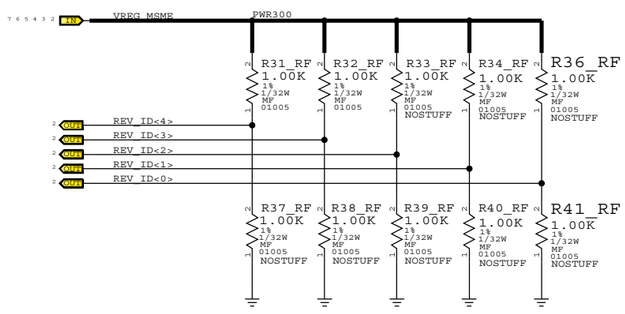
BRANCH:

PAGE: 1 OF 13

SHEET: 19 OF 33

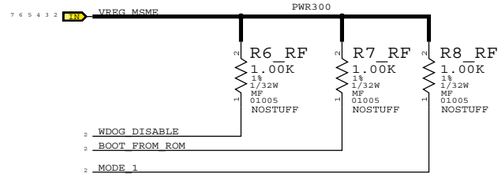
BASEBAND





REV_ID<4>	HB PA SELECT
0	TQM
1	SKY
NST	ANAD
REV_ID<3>	LB PA SELECT
0	TQM
1	SKY
NST	ANAD

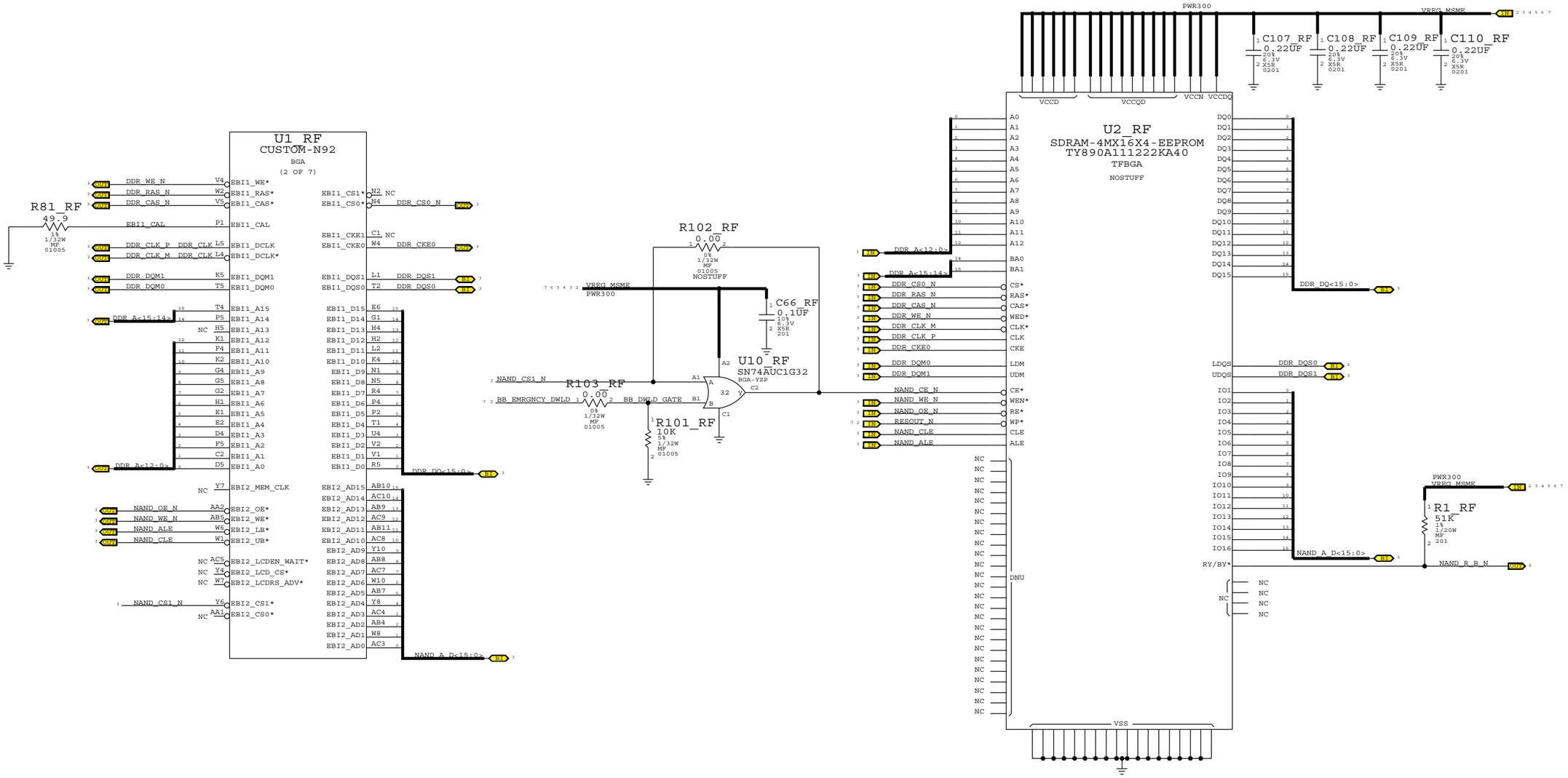
REV_ID<2..0>			
0	0	0	DEV 1
0	0	1	DEV 2
0	1	0	DEV 3
NST	0	0	DEV 4
NST	0	1	DEV 4B
NST	1	0	DEV 5
NST	1	1	RESERVED
0	1	1	PROTO0
1	0	0	PROTO1
1	0	1	EVT1
1	1	0	EVT2
1	1	1	EVT3
1	1	NST	DVT
NST	NST	NST	PVT/MP (REV. B)
NST	NST	0	RESERVED



	MODE_1
NST	NATIVE MODE
1	ETM MODE

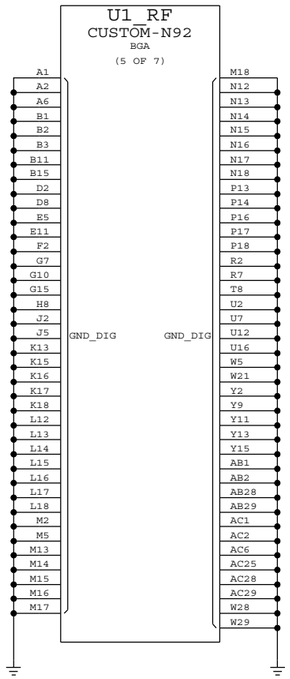
PAGE 2

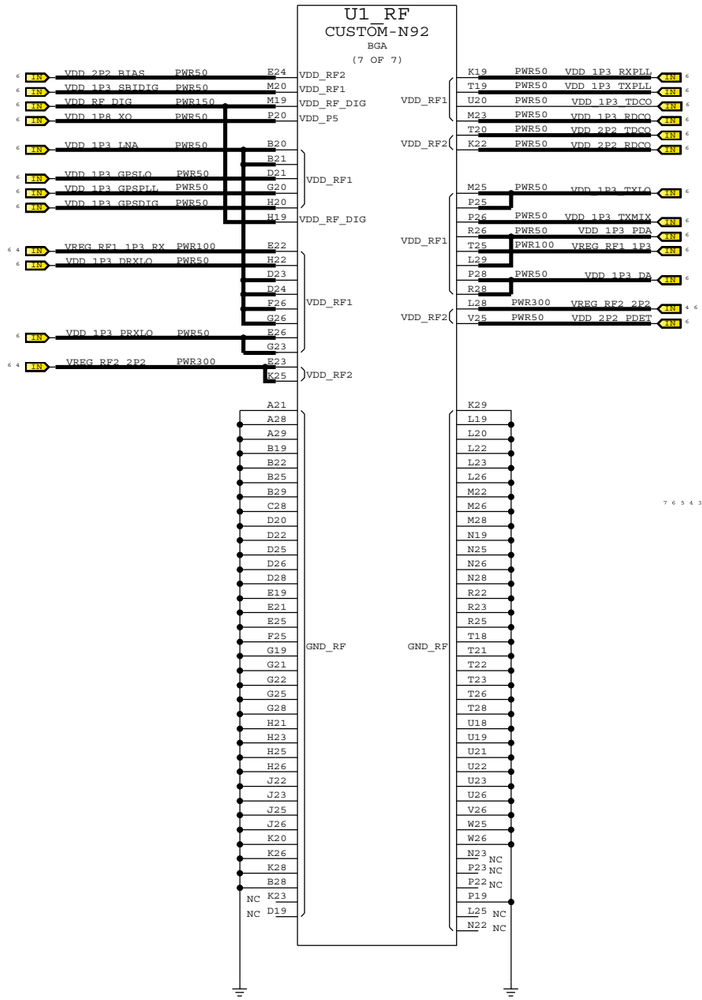
BASEBAND MEMORY

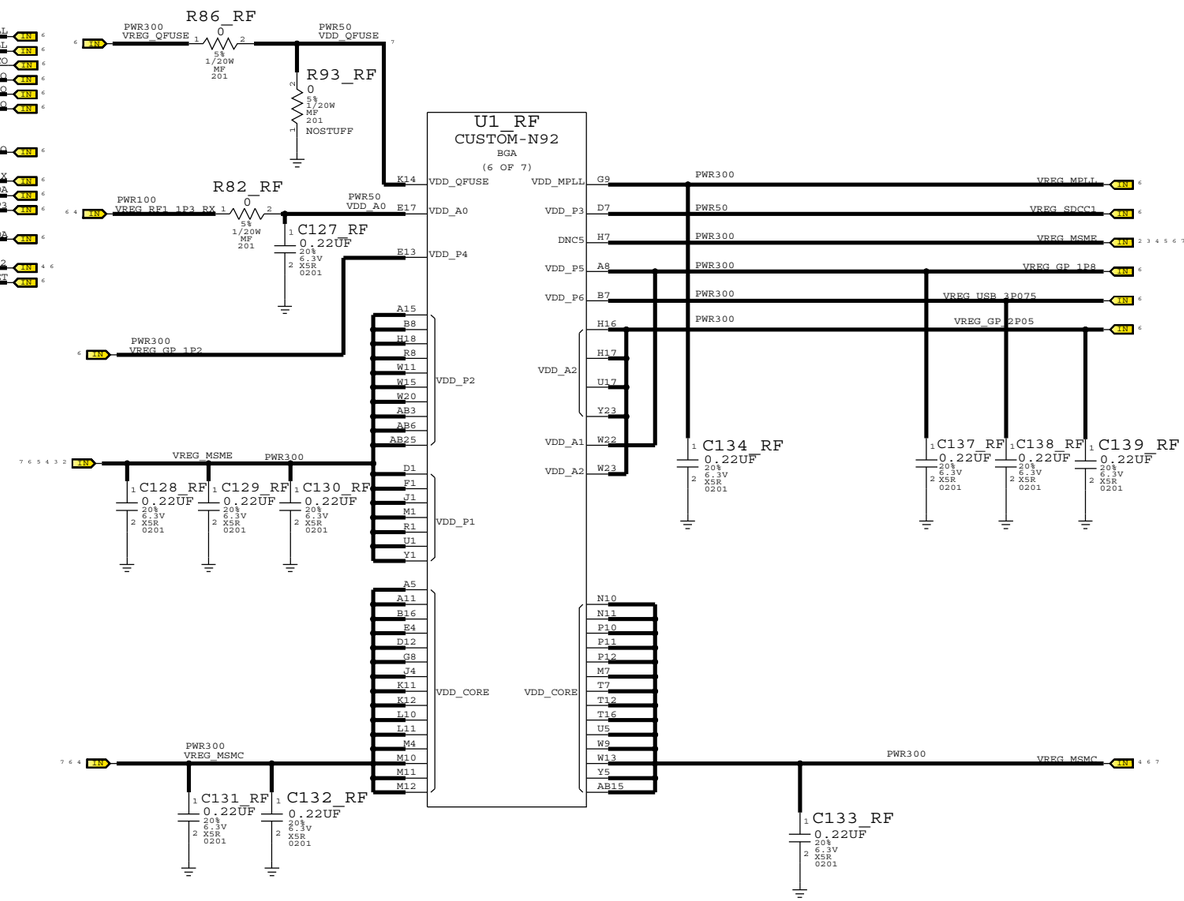


PAGE 3

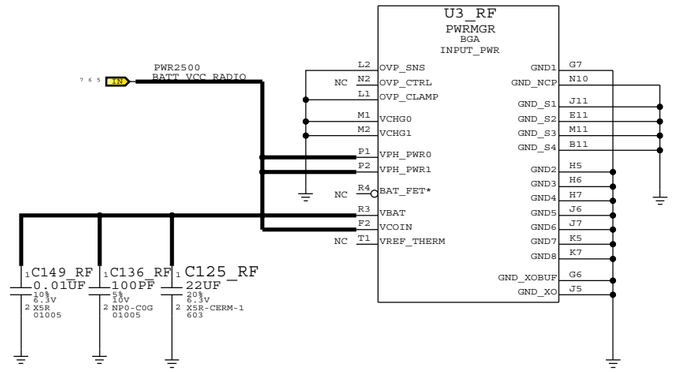
BASEBAND POWER

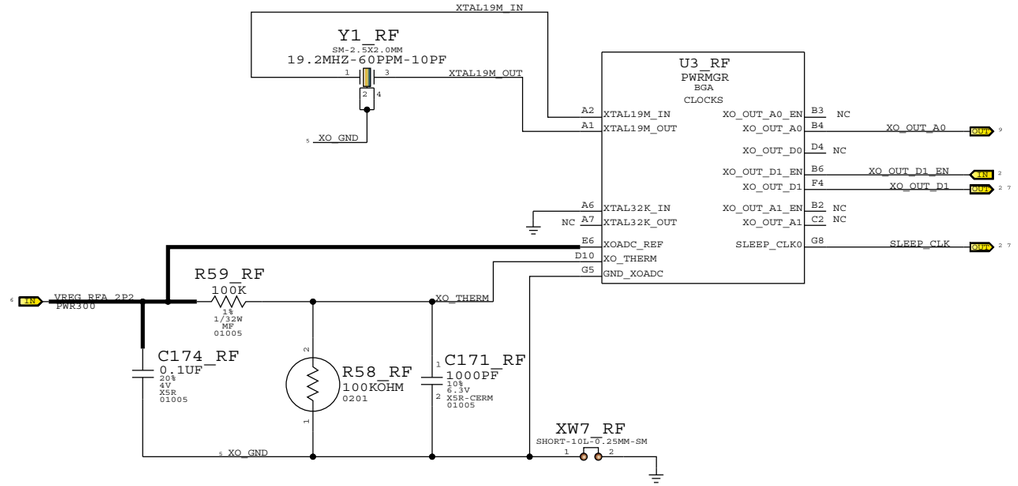


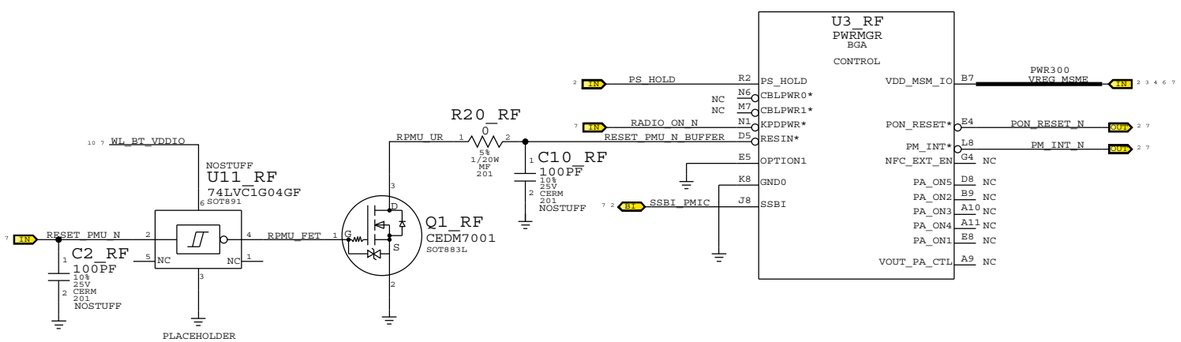


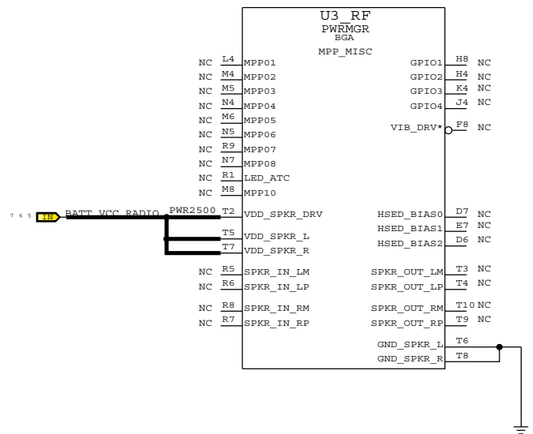


POWER1: CONTROL



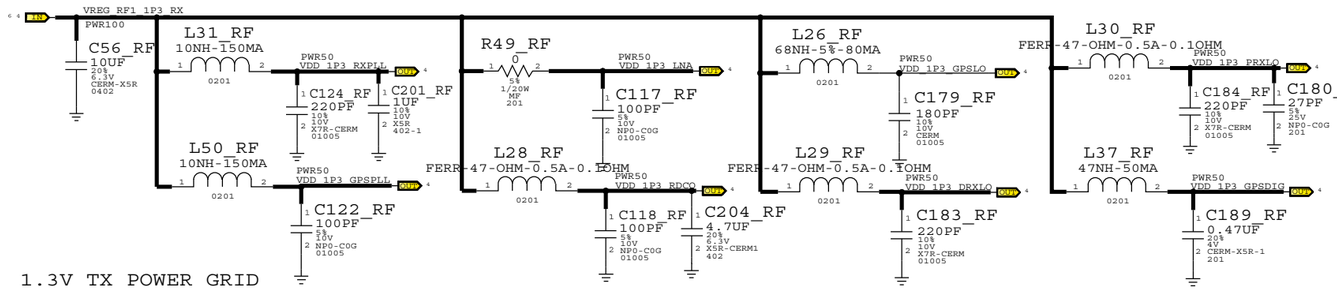




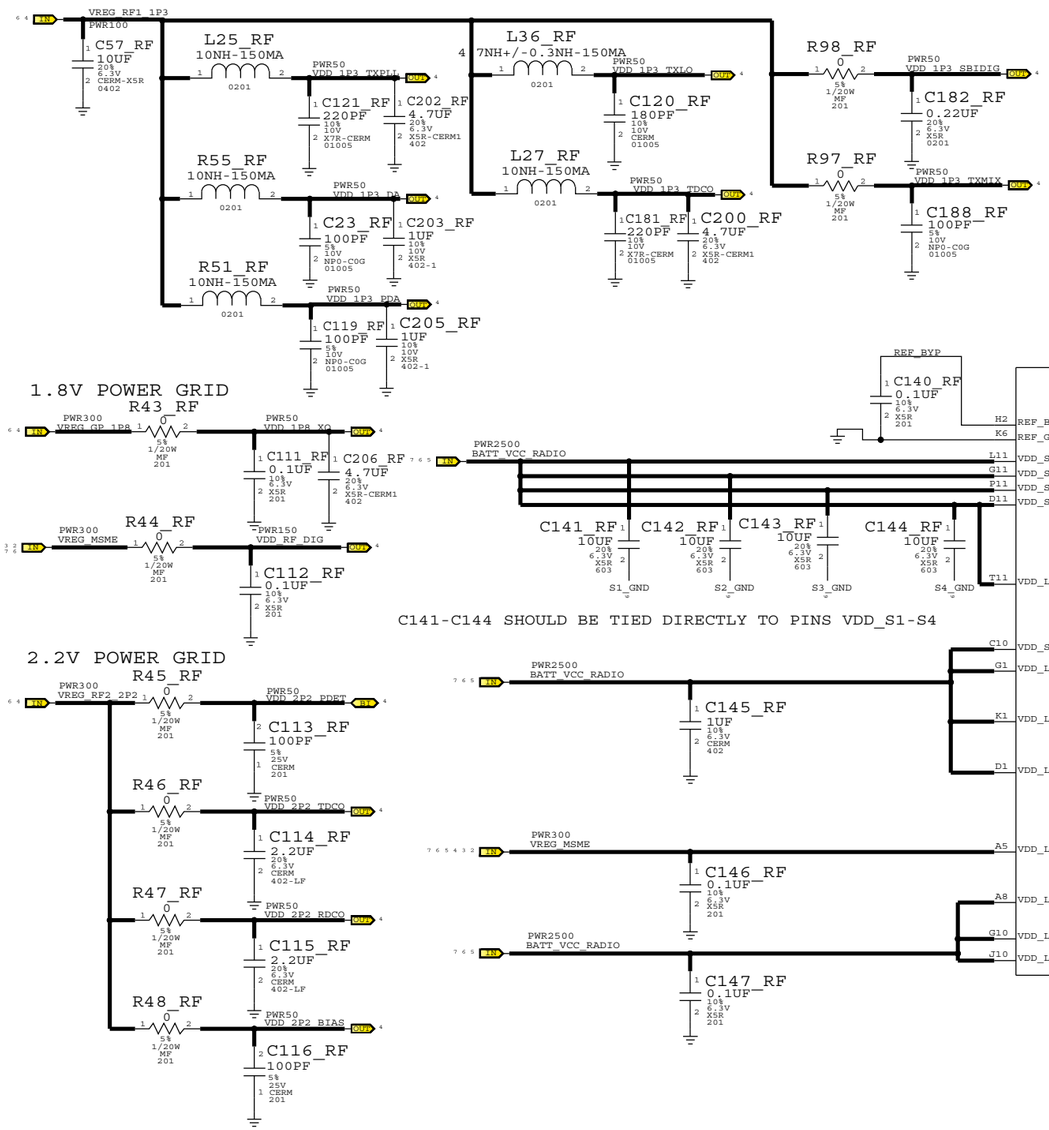


POWER2: DIGITAL, ANALOG, RF

1.3V RX POWER GRID

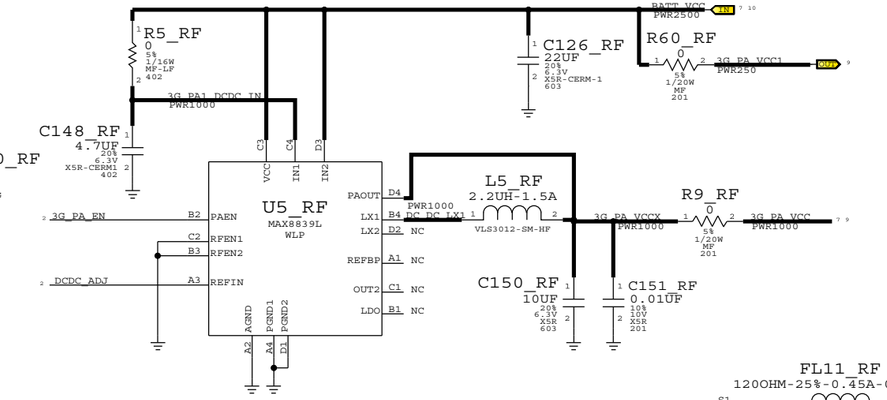


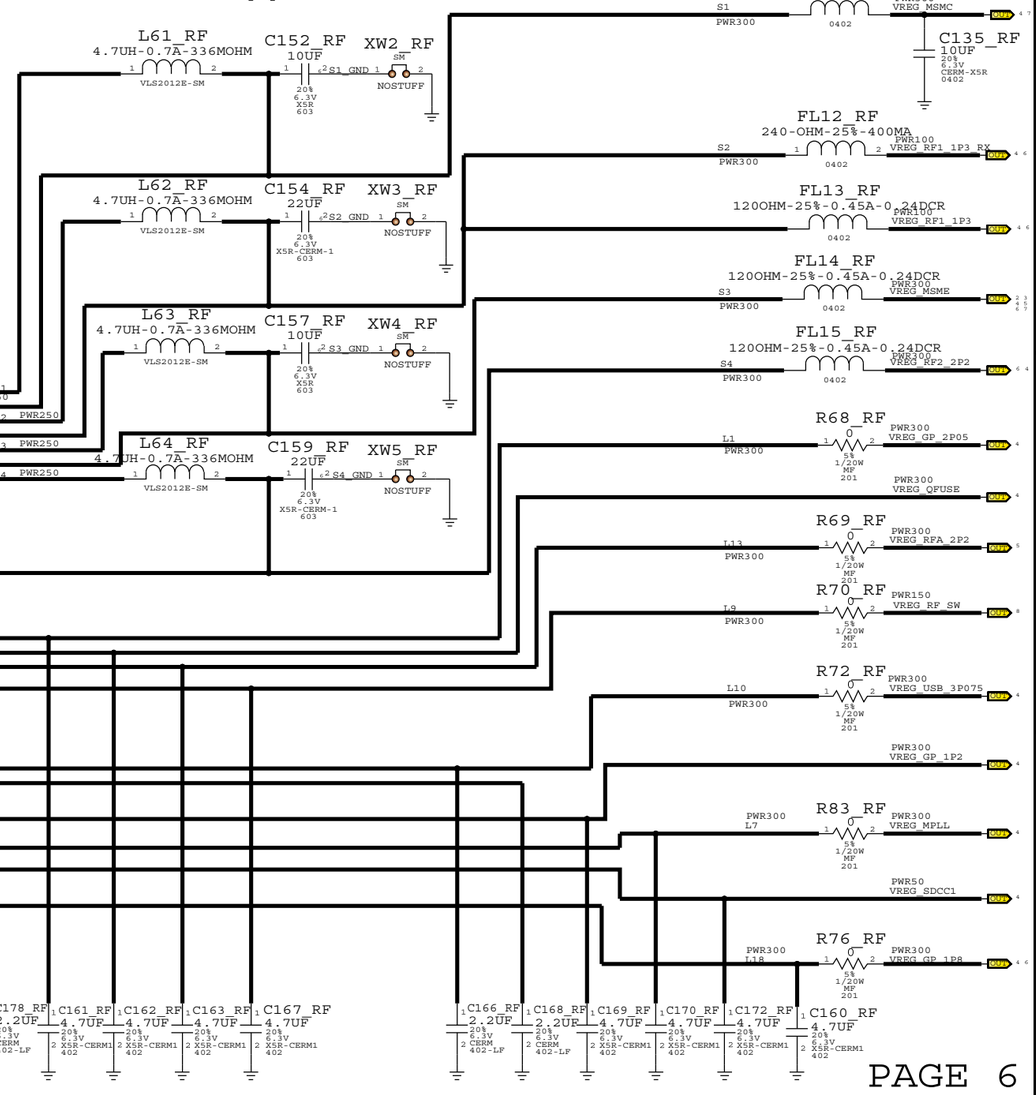
1.3V TX POWER GRID



1.8V POWER GRID

2.2V POWER GRID





SYSTEM CONNECTORS

AP CONNECTIONS

BATT_VCC
BATSNS
NTC
GAS_GAUGE
RF_RESET_N

RADIO_ON_N
RESET_PMU_N

BB_RST_N
RESET_DET_N
IPC_MRDY
IPC_SRDY
IPC_SCLK
IPC_MOSI
IPC_MISO
BB_EMRGNCY_DWLD
AP_PMU_EXTON
IPC_GPIO2
BB_USB_VBUS
BB_USB_DATA_P
BB_USB_DATA_N

BB_UART_TXD
BB_UART_RXD
BB_UART_RTS_N
BB_UART_CTS_N

BB_PCM_CLK
BB_PCM_SYNC
BB_PCM_TX
BB_PCM_RX

BB_I2S2_CLK
BB_I2S2_WA0
BB_I2S2_TX
BB_I2S2_RX

WL_BT_VDDIO
WL_BT_REG_ON
CLK32K_AP_2X

WLAN_RESET_N
WLAN_SDIO_CLK
WLAN_SDIO_CMD
WLAN_SDIO_DATA<3..0>
HOST_WAKE_WLAN

HOST_WAKE_BT
BT_RESET_N
BT_WAKE
BT_UART_TXD
BT_UART_RXD
BT_UART_RTS_N
BT_UART_CTS_N

BT_PCM_CLK
BT_PCM_SYNC
BT_PCM_OUT
BT_PCM_IN

J14_RF
WB22453-1401-7
F-ST-SM
NTC_CONN
GAS_GAUGE_CONN

FL6_RF
240-OHM-0.2A-0.8-OHM
0201-1

FL9_RF
600-OHM-25%-0.15A
0201

C18_RF 100PF 5% 25V CERM 201
C81_RF 100PF 5% 25V CERM 201
C82_RF 100PF 5% 25V CERM 201
C83_RF 27PF 5% 25V NPO-COG 201

NOSTUFF
XW1_RF
SM
BATSNS
PWR2500
BATT_VCC

WLAN

PP14_RF P4MM SM — WLAN_CLK_REQ — NOSTUFF
PP7_RF P4MM SM — WLAN_TRST_N — NOSTUFF
PP8_RF P4MM SM — WLAN_TCK — NOSTUFF
PP9_RF P4MM SM — WLAN_TMS — NOSTUFF
PP10_RF P4MM SM — WLAN_TDO — NOSTUFF
PP11_RF P4MM SM — WLAN_TDI — NOSTUFF
PP12_RF P4MM SM — WL_BT_REG_ON — NOSTUFF
PP13_RF P4MM SM — CLK32K_AP — NOSTUFF

DIGITAL AUDIO

PP1_RF P4MM SM — BB_PCM_CLK — NOSTUFF
PP2_RF P4MM SM — BB_PCM_SYNC — NOSTUFF
PP3_RF P4MM SM — BB_PCM_TX — NOSTUFF
PP4_RF P4MM SM — BB_PCM_RX — NOSTUFF

PMIC

PP15_RF P4MM SM — SLEEP_CLK — NOSTUFF
PP16_RF P4MM SM — PM_INT_N — NOSTUFF
PP17_RF P4MM SM — SSBI_PMIC — NOSTUFF
PP18_RF P4MM SM — XO_OUT_D1 — NOSTUFF

TP33_RF A TP-P6 NOSTUFF — BATT_VCC
TP34_RF A TP-P6 NOSTUFF
TP1_RF A TP-P6 NOSTUFF — NTC_CONN

PP24_RF P4MM SM — RESET_DET_N — NOSTUFF
PP25_RF P4MM SM — BB_USB_DATA_P — NOSTUFF
PP26_RF P4MM SM — RESOUT_N — NOSTUFF

TP2_RF A TP-P6 NOSTUFF — 3G_PA_VCC
TP3_RF A TP-P6 NOSTUFF — VREG_MSME
TP4_RF A TP-P6 NOSTUFF — VREG_MSMC
TP5_RF A TP-P6 NOSTUFF — PWR50 VDD_QFUSE

GAS GAUGE

TP10_RF A TP-P6 NOSTUFF — GAS_GAUGE_CONN

U13_RF FPF1039 CSP
BATT_VCC → A2, B2 (VIN); VOUT → A1, B1 → BATT_VCC_RADIO
RESET_PMU_N — R19_RF 470K 5% 1/32W MF 01005 — RESET_PMU_N_FET
C1_RF 1.0UF 20% 6.3V X5R 0201-MUR
C2 ON
GND
C1

DEBUG CONNECTOR

BATT_VCC

NOSTUFF
J1_RF
AXE640124
M-ST-SM

BB_EMRGNCY_DWLD			BT_WAKE
DEBUG_RST_N			BT_RESET_N
RESET_PMU_N			WL_BT_REG_ON
RADIO_ON_N			BT_UART_TXD
			BT_UART_RXD
BB_USB_VBUS			BT_UART_RTS_N
BB_USB_DATA_P			BT_UART_CTS_N
BB_USB_DATA_N			WLAN_RESET_N
RF_RESET_N			BB_JTAG_TCK
			BB_JTAG_TMS
			BB_JTAG_TDO
			BB_JTAG_TDI
			BB_JTAG_TRST_N
			BB_JTAG_RTCK
			BB_UART_TXD
			BB_UART_RXD
			BB_UART_RTS_N
DEBUG_GPIO_LED			BB_UART_CTS_N

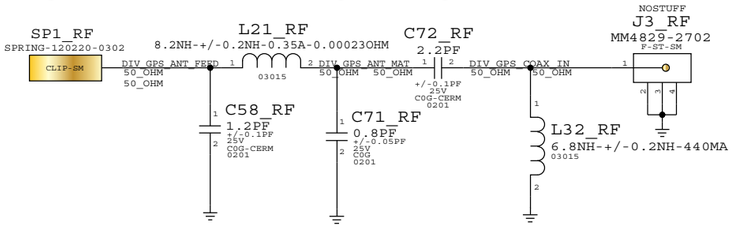
CONTROL

TP8_RF A TP-P6 NOSTUFF — RADIO_ON_N
TP22_RF A TP-P6 NOSTUFF — BB_RST_N
TP7_RF A TP-P6 NOSTUFF — RESET_PMU_N
PP30_RF P4MM SM NOSTUFF — BB_USB_DATA_N
TP11_RF A TP-P6 NOSTUFF — BB_UART_TXD
TP12_RF A TP-P6 NOSTUFF — BB_UART_RXD
TP13_RF A TP-P6 NOSTUFF — BB_UART_CTS_N
TP14_RF A TP-P6 NOSTUFF — BB_UART_RTS_N
PP31_RF P4MM SM NOSTUFF — RESIN_N

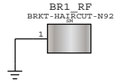
PP40_RF P4MM SM — BB_JTAG_TCK — NOSTUFF
PP41_RF P4MM SM — BB_JTAG_TMS — NOSTUFF
PP42_RF P4MM SM — BB_JTAG_TDO — NOSTUFF
PP43_RF P4MM SM — BB_JTAG_TDI — NOSTUFF
PP44_RF P4MM SM — BB_JTAG_TRST_N — NOSTUFF
PP45_RF P4MM SM — BB_JTAG_RTCK — NOSTUFF
PP46_RF P4MM SM — BB_USB_VBUS — NOSTUFF
PP47_RF P4MM SM — PON_RESET_N — NOSTUFF

RX DIVERSITY & GPS LNA

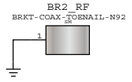
UPPER ANTENNA SPRING

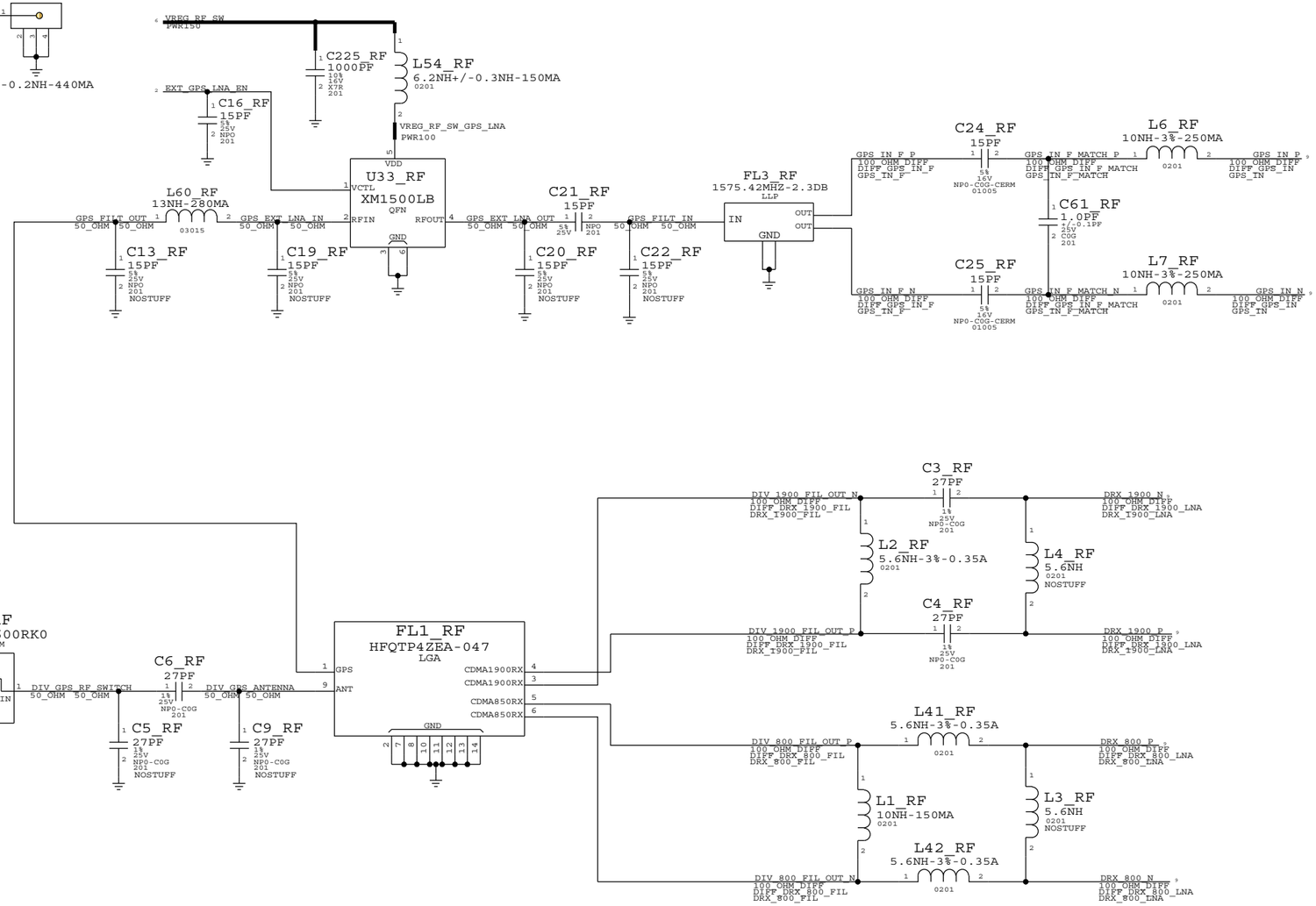


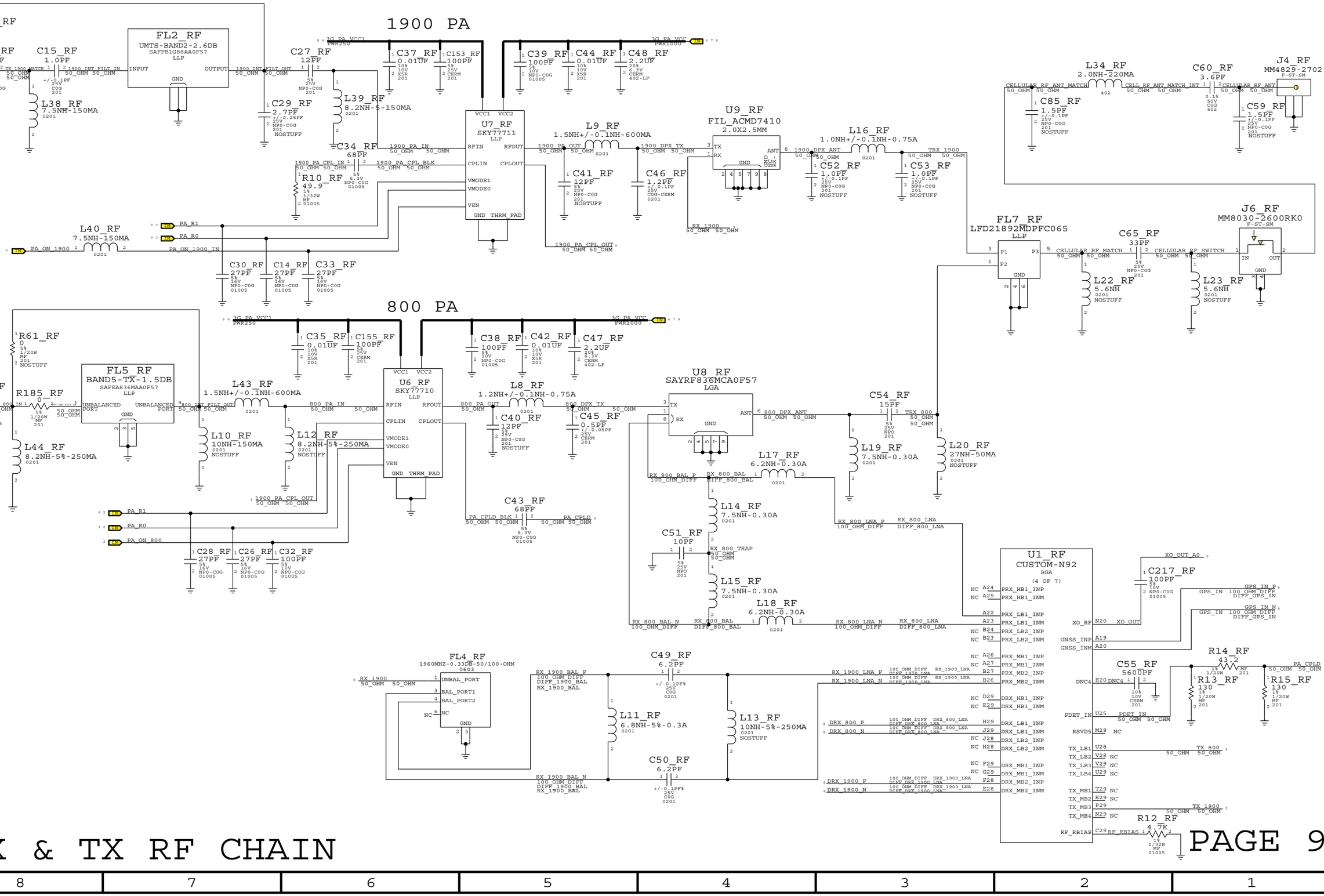
UPPER COAX CABLE STRAIN RELIEF



LOWER COAX CABLE STRAIN RELIEF

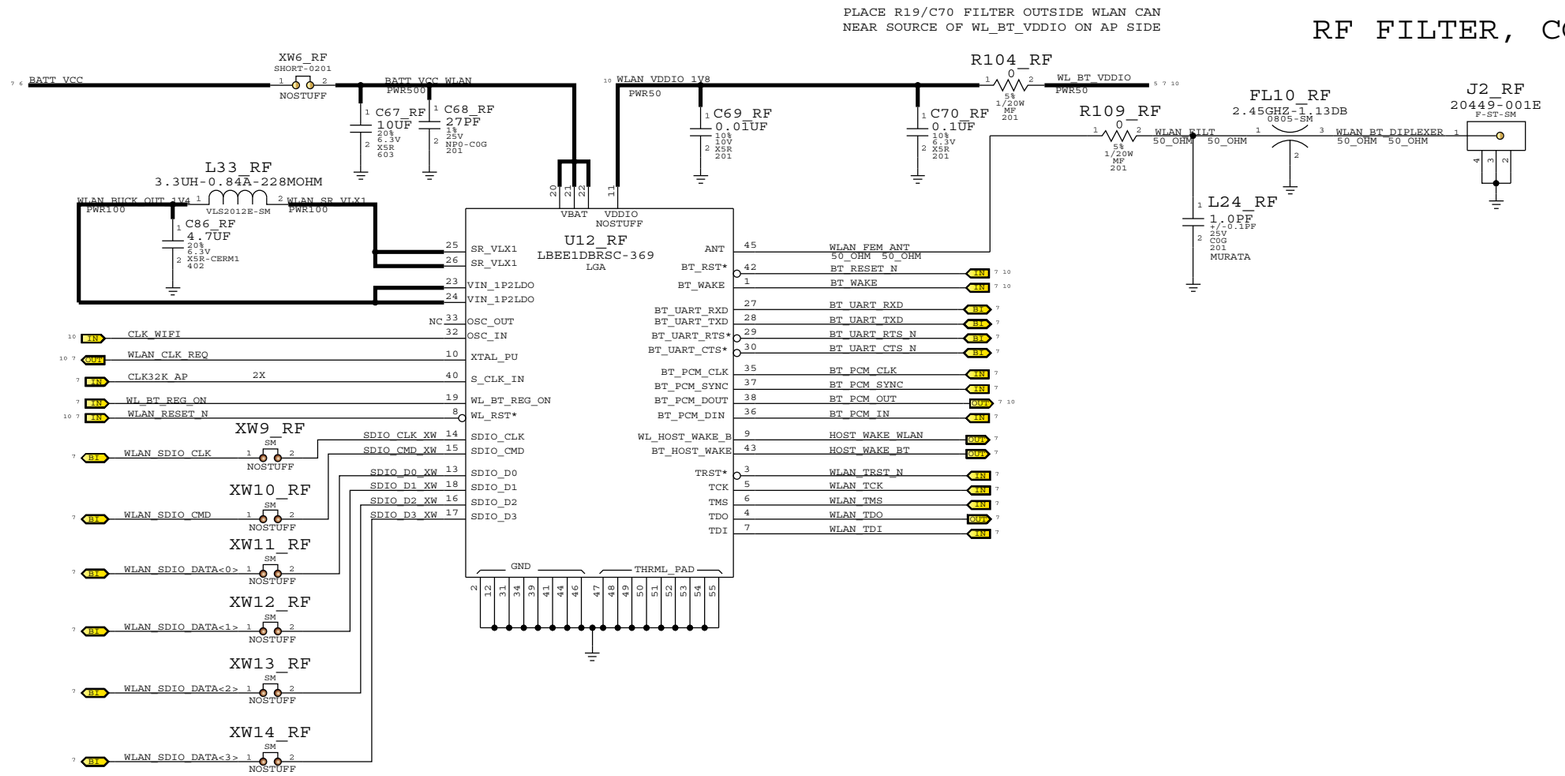




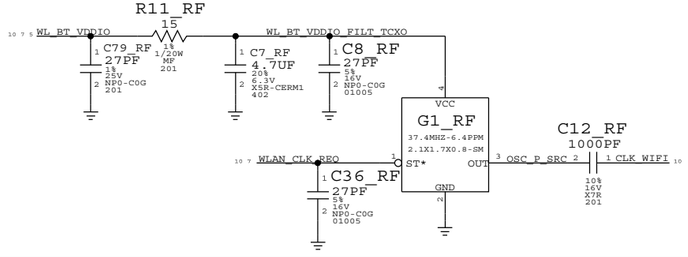

1900 PA
800 PA
R110_RF
C17_RF
C15_RF
FL2_RF
UMTS-BAND2-2.6DB
C27_RF
C37_RF
C153_RF
C39_RF
C44_RF
C48_RF
L38_RF
7.5NH-150MA
C29_RF
L39_RF
8.2NH-5%-150MA
C34_RF
U7_RF
SKY77711
L9_RF
1.5NH+/-0.1NH-600MA
U9_RF
FIL_ACMD7410
2.0X2.5MM
L16_RF
1.0NH+/-0.1NH-0.75A
L34_RF
2.0NH-220MA
C60_RF
J4_RF
MM4829-2702
C85_RF
C59_RF
C52_RF
C53_RF
C41_RF
C46_RF
R10_RF
L40_RF
7.5NH-150MA
C30_RF
C14_RF
C33_RF
FL7_RF
LFD21892MDPFC065
C65_RF
J6_RF
MM8030-2600RK0
L22_RF
L23_RF
R61_RF
FL5_RF
BAND5-TX-1.5DB
SAFEA836MAA0F57
C187_RF
R185_RF
L43_RF
1.5NH+/-0.1NH-600MA
U6_RF
SKY77710
C35_RF
C155_RF
C38_RF
C42_RF
C47_RF
L8_RF
1.2NH+/-0.1NH-0.75A
U8_RF
SAYRF836MCA0F57
C54_RF
L44_RF
8.2NH-5%-250MA
L10_RF
10NH-150MA
L12_RF
8.2NH-5%-250MA
C40_RF
C45_RF
L19_RF
7.5NH-0.30A
L20_RF
27NH-50MA
L17_RF
6.2NH-0.30A
L14_RF
7.5NH-0.30A
C51_RF
10PF
L15_RF
7.5NH-0.30A
L18_RF
6.2NH-0.30A
C43_RF
68PF
C28_RF
C26_RF
C32_RF
FL4_RF
1960MHZ-0.33DB-50/100-OHM
C49_RF
6.2PF
C50_RF
6.2PF
L11_RF
6.8NH-5%-0.3A
L13_RF
10NH-5%-250MA
U1_RF
CUSTOM-N92
BGA
(4 OF 7)
C217_RF
100PF
C55_RF
5600PF
R14_RF
43.2
R13_RF
130
R15_RF
130
R12_RF
4.7K
RX & TX RF CHAIN
PAGE 9

WLAN/BLUETOOTH RADIO

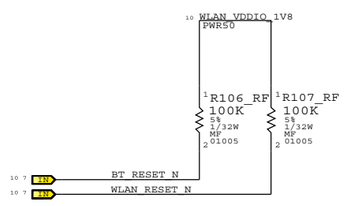
RF FILTER, CONNECTOR, ANTENNA MATCH AND FEED



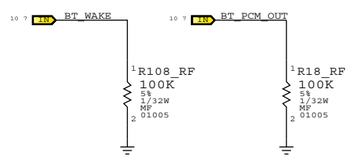
REFERENCE OSCILLATOR TCXO



PULL UP RESISTORS



PULL DOWN RESISTORS



Title: Basenet Report
Design: radio_mlb
Date: Dec 17 16:28:43 2010

Base nets and synonyms for radio_mlb_lib.RADIO_MLB(@radio_mlb_lib.radio_mlb(sch_1))

Base Signal	Synonyms	Location([Zone][dir])
3G_PA1_DCDC_IN	3G_PA1_DCDC_IN - @radio_mlb_lib.RADIO_MLB	6D3
3G_PA_EN	3G_PA_EN - @radio_mlb_lib.RADIO_MLB	2B6 6D4
3G_PA_VCC	3G_PA_VCC - @radio_mlb_lib.RADIO_MLB	6D1 7B4 9C4 9D4
3G_PA_VCC1	3G_PA_VCC1 - @radio_mlb_lib.RADIO_MLB	6D1 9C7 9D6
3G_PA_VCCX	3G_PA_VCCX - @radio_mlb_lib.RADIO_MLB	6D2
800_DPX_ANT	800_DPX_ANT - @radio_mlb_lib.RADIO_MLB	9C4
800_DPX_TX	800_DPX_TX - @radio_mlb_lib.RADIO_MLB	9C5
800_INT_FILT_IN	800_INT_FILT_IN - @radio_mlb_lib.RADIO_MLB	9C8
800_INT_FILT_OUT	800_INT_FILT_OUT - @radio_mlb_lib.RADIO_MLB	9C7
800_PA_IN	800_PA_IN - @radio_mlb_lib.RADIO_MLB	9C6
800_PA_OUT	800_PA_OUT - @radio_mlb_lib.RADIO_MLB	9C5
1900_DPX_ANT	1900_DPX_ANT - @radio_mlb_lib.RADIO_MLB	9D4
1900_DPX_TX	1900_DPX_TX - @radio_mlb_lib.RADIO_MLB	9D4
1900_INT_FILT_IN	1900_INT_FILT_IN - @radio_mlb_lib.RADIO_MLB	9D8
1900_INT_FILT_OUT	1900_INT_FILT_OUT - @radio_mlb_lib.RADIO_MLB	9D7
1900_PA_CPL_BLK	1900_PA_CPL_BLK - @radio_mlb_lib.RADIO_MLB	9D6
1900_PA_CPL_IN	1900_PA_CPL_IN - @radio_mlb_lib.RADIO_MLB	9D6
1900_PA_CPL_OUT	1900_PA_CPL_OUT - @radio_mlb_lib.RADIO_MLB	9B7 9C5
1900_PA_IN	1900_PA_IN - @radio_mlb_lib.RADIO_MLB	9D6
1900_PA_OUT	1900_PA_OUT - @radio_mlb_lib.RADIO_MLB	9D5
AP_PMU_EXTON	AP_PMU_EXTON - @radio_mlb_lib.RADIO_MLB	2C6 7C8
BATSNS	BATSNS - @radio_mlb_lib.RADIO_MLB	7A5 7D8
BATT_VCC	BATT_VCC - @radio_mlb_lib.RADIO_MLB	6D2 7A5 7B5 7D2 7D3 7D8 10D8
BATT_VCC_RADIO	BATT_VCC_RADIO - @radio_mlb_lib.RADIO_MLB	5B4 5C8 6A7 6B7 6B7 7D2
BATT_VCC_WLAN	BATT_VCC_WLAN - @radio_mlb_lib.RADIO_MLB	10D7
BB_DWLD_GATE	BB_DWLD_GATE - @radio_mlb_lib.RADIO_MLB	3C5
BB_EMRGNCY_DWLD	BB_EMRGNCY_DWLD - @radio_mlb_lib.RADIO_MLB	2C5 3C6 7C4 7C8
BB_I2S2_2_CLK	BB_I2S2_2_CLK - @radio_mlb_lib.RADIO_MLB	2B8
BB_I2S2_2_WA0	BB_I2S2_2_WA0 - @radio_mlb_lib.RADIO_MLB	2B8
BB_I2S2_CLK	BB_I2S2_CLK - @radio_mlb_lib.RADIO_MLB	2C8 7C8
BB_I2S2_RX	BB_I2S2_RX - @radio_mlb_lib.RADIO_MLB	2B8 7C8
BB_I2S2_TX	BB_I2S2_TX - @radio_mlb_lib.RADIO_MLB	2C8 7C8
BB_I2S2_WA0	BB_I2S2_WA0 - @radio_mlb_lib.RADIO_MLB	2C8 7C8
BB_JTAG_RTCK	BB_JTAG_RTCK - @radio_mlb_lib.RADIO_MLB	2C2 7A1 7C2
BB_JTAG_TCK	BB_JTAG_TCK - @radio_mlb_lib.RADIO_MLB	2C3 7B1 7C2
BB_JTAG_TDI	BB_JTAG_TDI - @radio_mlb_lib.RADIO_MLB	2C3 7B1 7C2
BB_JTAG_TDO	BB_JTAG_TDO - @radio_mlb_lib.RADIO_MLB	2C2 7B1 7C2
BB_JTAG_TMS	BB_JTAG_TMS - @radio_mlb_lib.RADIO_MLB	2C3 7B1 7C2
BB_JTAG_TRST_N	BB_JTAG_TRST_N - @radio_mlb_lib.RADIO_MLB	2C3 7B1 7C2
BB_PCM_CLK	BB_PCM_CLK - @radio_mlb_lib.RADIO_MLB	2B8 7C5 7C8
BB_PCM_RX	BB_PCM_RX - @radio_mlb_lib.RADIO_MLB	2B8 7B5 7C8
BB_PCM_SYNC	BB_PCM_SYNC - @radio_mlb_lib.RADIO_MLB	2B8 7C5 7C8
BB_PCM_TX	BB_PCM_TX - @radio_mlb_lib.RADIO_MLB	2B8 7C5 7C8
BB_PDM	BB_PDM - @radio_mlb_lib.RADIO_MLB	2B6
BB_PDM_FILT	BB_PDM_FILT - @radio_mlb_lib.RADIO_MLB	2B5
BB_RST_N	BB_RST_N - @radio_mlb_lib.RADIO_MLB	2C5 7B2 7D8
BB_UART_CTS_N	BB_UART_CTS_N - @radio_mlb_lib.RADIO_MLB	2B8 7A2 7C2 7C8
BB_UART_RTS_N	BB_UART_RTS_N - @radio_mlb_lib.RADIO_MLB	2B8 7A2 7C2 7C8
BB_UART_RXD	BB_UART_RXD - @radio_mlb_lib.RADIO_MLB	2B8 2C6 7A2 7C2 7C8
BB_UART_TXD	BB_UART_TXD - @radio_mlb_lib.RADIO_MLB	2B8 7B2 7C2 7C8
BB_USB_DATA_N	BB_USB_DATA_N - @radio_mlb_lib.RADIO_MLB	2B4 2C3 7B2 7C4 7C8
BB_USB_DATA_P	BB_USB_DATA_P - @radio_mlb_lib.RADIO_MLB	2B4 2C3 7B4 7C4 7C8
BB_USB_REXT	BB_USB_REXT - @radio_mlb_lib.RADIO_MLB	2C3
BB_USB_VBUS	BB_USB_VBUS - @radio_mlb_lib.RADIO_MLB	2C3 7A1 7C4 7C8
BOOT_FROM_ROM	BOOT_FROM_ROM - @radio_mlb_lib.RADIO_MLB	2A5 2B6
BT_PCM_CLK	BT_PCM_CLK - @radio_mlb_lib.RADIO_MLB	7B8 10C5
BT_PCM_IN	BT_PCM_IN - @radio_mlb_lib.RADIO_MLB	7B8 10C5
BT_PCM_OUT	BT_PCM_OUT - @radio_mlb_lib.RADIO_MLB	7B8 10A3 10C5
BT_PCM_SYNC	BT_PCM_SYNC - @radio_mlb_lib.RADIO_MLB	7B8 10C5
BT_RESET_N	BT_RESET_N - @radio_mlb_lib.RADIO_MLB	7B8 7C2 10A5 10C5
BT_UART_CTS_N	BT_UART_CTS_N - @radio_mlb_lib.RADIO_MLB	7B8 7C2 10C5
BT_UART_RTS_N	BT_UART_RTS_N - @radio_mlb_lib.RADIO_MLB	7B8 7C2 10C5
BT_UART_RXD	BT_UART_RXD - @radio_mlb_lib.RADIO_MLB	7B8 7C2 10C5
BT_UART_TXD	BT_UART_TXD - @radio_mlb_lib.RADIO_MLB	7B8 7C2 10C5
BT_WAKE	BT_WAKE - @radio_mlb_lib.RADIO_MLB	7B8 7C2 10A4 10C5
CELLULAR_RF_ANT	CELLULAR_RF_ANT - @radio_mlb_lib.RADIO_MLB	9D1
CELLULAR_RF_ANT_MATCH	CELLULAR_RF_ANT_MATCH - @radio_mlb_lib.RADIO_MLB	9D2
CELLULAR_RF_MATCH	CELLULAR_RF_MATCH - @radio_mlb_lib.RADIO_MLB	9C2
CELLULAR_RF_SWITCH	CELLULAR_RF_SWITCH - @radio_mlb_lib.RADIO_MLB	9C2
CELL_RF_ANT_MATCH_IN	CELL_RF_ANT_MATCH_INT - @radio_mlb_lib.RADIO_MLB	9D2
CLK32K_AP	CLK32K_AP - @radio_mlb_lib.RADIO_MLB	7B8 7C5 10C8
CLK_WIFI	CLK_WIFI - @radio_mlb_lib.RADIO_MLB	10A6 10C8
DCDC_ADJ	DCDC_ADJ - @radio_mlb_lib.RADIO_MLB	2B4 6D4
DC_DC_LX1	DC_DC_LX1 - @radio_mlb_lib.RADIO_MLB	6D3
DDR_A<12..0>	DDR_A<12..0> - @radio_mlb_lib.RADIO_MLB	3B8 3C4
DDR_A<15..14>	DDR_A<15..14> - @radio_mlb_lib.RADIO_MLB	3C4 3C8
DDR_CAS_N	DDR_CAS_N - @radio_mlb_lib.RADIO_MLB	3C4 3C8
DDR_CKE0	DDR_CKE0 - @radio_mlb_lib.RADIO_MLB	3C4 3C6
DDR_CLK_M	DDR_CLK_M - @radio_mlb_lib.RADIO_MLB	3C4 3C8
DDR_CLK_P	DDR_CLK_P - @radio_mlb_lib.RADIO_MLB	3C4 3C8
DDR_CS0_N	DDR_CS0_N - @radio_mlb_lib.RADIO_MLB	3C4 3C6
DDR_DQ<15..0>	DDR_DQ<15..0> - @radio_mlb_lib.RADIO_MLB	3B6 3C2
DDR_DQM0	DDR_DQM0 - @radio_mlb_lib.RADIO_MLB	3C4 3C8
DDR_DQM1	DDR_DQM1 - @radio_mlb_lib.RADIO_MLB	3C4 3C8
DDR_DQS0	DDR_DQS0 - @radio_mlb_lib.RADIO_MLB	3C2 3C6
DDR_DQS1	DDR_DQS1 - @radio_mlb_lib.RADIO_MLB	3C2 3C6
DDR_RAS_N	DDR_RAS_N - @radio_mlb_lib.RADIO_MLB	3C4 3C8
DDR_WE_N	DDR_WE_N - @radio_mlb_lib.RADIO_MLB	3C4 3C8
DEBUG_GPIO_LED	DEBUG_GPIO_LED - @radio_mlb_lib.RADIO_MLB	2C6 7C4
DEBUG_RST_N	DEBUG_RST_N - @radio_mlb_lib.RADIO_MLB	2C5 7C4
DIV_800_FIL_OUT_N	DIV_800_FIL_OUT_N - @radio_mlb_lib.RADIO_MLB	8A4
DIV_800_FIL_OUT_P	DIV_800_FIL_OUT_P - @radio_mlb_lib.RADIO_MLB	8A4
DIV_1900_FIL_OUT_N	DIV_1900_FIL_OUT_N - @radio_mlb_lib.RADIO_MLB	8B4
DIV_1900_FIL_OUT_P	DIV_1900_FIL_OUT_P - @radio_mlb_lib.RADIO_MLB	8B4
DIV_GPS_ANTENNA	DIV_GPS_ANTENNA - @radio_mlb_lib.RADIO_MLB	8B6
DIV_GPS_ANT_FEED	DIV_GPS_ANT_FEED - @radio_mlb_lib.RADIO_MLB	8D8
DIV_GPS_ANT_MAT	DIV_GPS_ANT_MAT - @radio_mlb_lib.RADIO_MLB	8D7
DIV_GPS_ANT_MATCH	DIV_GPS_ANT_MATCH - @radio_mlb_lib.RADIO_MLB	8B7
DIV_GPS_COAX_IN	DIV_GPS_COAX_IN - @radio_mlb_lib.RADIO_MLB	8D7
DIV_GPS_COAX_OUT	DIV_GPS_COAX_OUT - @radio_mlb_lib.RADIO_MLB	8B8
DIV_GPS_RF_SWITCH	DIV_GPS_RF_SWITCH - @radio_mlb_lib.RADIO_MLB	8B6
DNC4	DNC4 - @radio_mlb_lib.RADIO_MLB	9A2
DRX_800_N	DRX_800_N - @radio_mlb_lib.RADIO_MLB	8A2 9A3
DRX_800_P	DRX_800_P - @radio_mlb_lib.RADIO_MLB	8A2 9A3
DRX_1900_N	DRX_1900_N - @radio_mlb_lib.RADIO_MLB	8B2 9A3
DRX_1900_P	DRX_1900_P - @radio_mlb_lib.RADIO_MLB	8B2 9A3
EBI1_CAL	EBI1_CAL - @radio_mlb_lib.RADIO_MLB	3C8
EXT_GPS_LNA_EN	EXT_GPS_LNA_EN - @radio_mlb_lib.RADIO_MLB	2B6 8C6
FAILED_BOOT	FAILED_BOOT - @radio_mlb_lib.RADIO_MLB	2B6
GAS_GAUGE	GAS_GAUGE - @radio_mlb_lib.RADIO_MLB	7A6 7D8
GAS_GAUGE_CONN	GAS_GAUGE_CONN - @radio_mlb_lib.RADIO_MLB	7A4 7A8
GPIO_35	GPIO_35 - @radio_mlb_lib.RADIO_MLB	2B7
GPIO_77	GPIO_77 - @radio_mlb_lib.RADIO_MLB	2C6
GPS_EXT_LNA_IN	GPS_EXT_LNA_IN - @radio_mlb_lib.RADIO_MLB	8C5
GPS_EXT_LNA_OUT	GPS_EXT_LNA_OUT - @radio_mlb_lib.RADIO_MLB	8C5
GPS_FILT_IN	GPS_FILT_IN - @radio_mlb_lib.RADIO_MLB	8C4
GPS_FILT_OUT	GPS_FILT_OUT - @radio_mlb_lib.RADIO_MLB	8C6
GPS_IN_F_MATCH_N	GPS_IN_F_MATCH_N - @radio_mlb_lib.RADIO_MLB	8C3
GPS_IN_F_MATCH_P	GPS_IN_F_MATCH_P - @radio_mlb_lib.RADIO_MLB	8C3
GPS_IN_F_N	GPS_IN_F_N - @radio_mlb_lib.RADIO_MLB	8C3
GPS_IN_F_P	GPS_IN_F_P - @radio_mlb_lib.RADIO_MLB	8C3
GPS_IN_N	GPS_IN_N - @radio_mlb_lib.RADIO_MLB	8C1 9B1
GPS_IN_P	GPS_IN_P - @radio_mlb_lib.RADIO_MLB	8C1 9B1
HOST_WAKE_BT	HOST_WAKE_BT - @radio_mlb_lib.RADIO_MLB	7B8 10C5
HOST_WAKE_WLAN	HOST_WAKE_WLAN - @radio_mlb_lib.RADIO_MLB	7B8 10C5
HSIC_CAL	HSIC_CAL - @radio_mlb_lib.RADIO_MLB	2C2
IPC_GPIO2	IPC_GPIO2 - @radio_mlb_lib.RADIO_MLB	2C5 7C8
IPC_MISO	IPC_MISO - @radio_mlb_lib.RADIO_MLB	2C8 7D8
IPC_MOSI	IPC_MOSI - @radio_mlb_lib.RADIO_MLB	2C8 7D8
IPC_MRDY	IPC_MRDY - @radio_mlb_lib.RADIO_MLB	2D6 7D8
IPC_SCLK	IPC_SCLK - @radio_mlb_lib.RADIO_MLB	2C8 7D8
IPC_SRDY	IPC_SRDY - @radio_mlb_lib.RADIO_MLB	2D6 7D8
L1	L1 - @radio_mlb_lib.RADIO_MLB	6B2
L7	L7 - @radio_mlb_lib.RADIO_MLB	6A2
L9	L9 - @radio_mlb_lib.RADIO_MLB	6B2
L10	L10 - @radio_mlb_lib.RADIO_MLB	6B2
L13	L13 - @radio_mlb_lib.RADIO_MLB	6B2
L16	L16 - @radio_mlb_lib.RADIO_MLB	6A4
L17	L17 - @radio_mlb_lib.RADIO_MLB	6A4
L18	L18 - @radio_mlb_lib.RADIO_MLB	6A2
MODE_0	MODE_0 - @radio_mlb_lib.RADIO_MLB	2C3
MODE_1	MODE_1 - @radio_mlb_lib.RADIO_MLB	2A5 2C3
MODE_2	MODE_2 - @radio_mlb_lib.RADIO_MLB	2C3
NAND_ALE	NAND_ALE - @radio_mlb_lib.RADIO_MLB	3B4 3B8
NAND_A_D<15..0>	NAND_A_D<15..0> - @radio_mlb_lib.RADIO_MLB	3B2 3B6
NAND_CE_N	NAND_CE_N - @radio_mlb_lib.RADIO_MLB	3C4
NAND_CLE	NAND_CLE - @radio_mlb_lib.RADIO_MLB	3B4 3B8
NAND_CS1_N	NAND_CS1_N - @radio_mlb_lib.RADIO_MLB	3B8 3C6
NAND_OE_N	NAND_OE_N - @radio_mlb_lib.RADIO_MLB	3B4 3B8
NAND_R_B_N	NAND_R_B_N - @radio_mlb_lib.RADIO_MLB	2C6 3B1
NAND_WE_N	NAND_WE_N - @radio_mlb_lib.RADIO_MLB	3B8 3C4
NTC	NTC - @radio_mlb_lib.RADIO_MLB	7A6 7D8
NTC_CONN	NTC_CONN - @radio_mlb_lib.RADIO_MLB	7A5 7A8
OSC_P_SRC	OSC_P_SRC - @radio_mlb_lib.RADIO_MLB	10A7
PA_CPLD	PA_CPLD - @radio_mlb_lib.RADIO_MLB	9A1 9B5
PA_CPLD_BLK	PA_CPLD_BLK - @radio_mlb_lib.RADIO_MLB	9B5
PA_ON_800	PA_ON_800 - @radio_mlb_lib.RADIO_MLB	2B6 9B7
PA_ON_1900	PA_ON_1900 - @radio_mlb_lib.RADIO_MLB	2B6 9C8
PA_ON_1900_IN	PA_ON_1900_IN - @radio_mlb_lib.RADIO_MLB	9C7
PA_R0	PA_R0 - @radio_mlb_lib.RADIO_MLB	2C2 9B7 9C7
PA_R1	PA_R1 - @radio_mlb_lib.RADIO_MLB	2C2 9B7 9C7
PBL_EMER_DWLD	PBL_EMER_DWLD - @radio_mlb_lib.RADIO_MLB	2C6
PDET_IN	PDET_IN - @radio_mlb_lib.RADIO_MLB	9A2
PM_INT_N	PM_INT_N - @radio_mlb_lib.RADIO_MLB	2C3 5B4 7B5
PON_RESET_N	PON_RESET_N - @radio_mlb_lib.RADIO_MLB	2C5 5B4 7A1
PS_HOLD	PS_HOLD - @radio_mlb_lib.RADIO_MLB	2C4 5B6
PS_HOLD_NP	PS_HOLD_NP - @radio_mlb_lib.RADIO_MLB	2C3
RADIO_ON_N	RADIO_ON_N - @radio_mlb_lib.RADIO_MLB	5B6 7B2 7C4 7D8
REF_BYP	REF_BYP - @radio_mlb_lib.RADIO_MLB	6C5
RESET_DET_N	RESET_DET_N - @radio_mlb_lib.RADIO_MLB	2C6 7B4 7D8
RESET_PMU_N	RESET_PMU_N - @radio_mlb_lib.RADIO_MLB	5A8 7B2 7C4 7D3 7D8
RESET_PMU_N_BUFFER	RESET_PMU_N_BUFFER - @radio_mlb_lib.RADIO_MLB	5B6
RESET_PMU_N_FET	RESET_PMU_N_FET - @radio_mlb_lib.RADIO_MLB	7D3
RESIN_N	RESIN_N - @radio_mlb_lib.RADIO_MLB	2C3 7A2
RESOUT_N	RESOUT_N - @radio_mlb_lib.RADIO_MLB	2C2 3B4 7B4
REV_ID<0>	REV_ID<0> - @radio_mlb_lib.RADIO_MLB	2A8 2C6
REV_ID<1>	REV_ID<1> - @radio_mlb_lib.RADIO_MLB	2A8 2C6
REV_ID<2>	REV_ID<2> - @radio_mlb_lib.RADIO_MLB	2A8 2C6
REV_ID<3>	REV_ID<3> - @radio_mlb_lib.RADIO_MLB	2A8 2C6
REV_ID<4>	REV_ID<4> - @radio_mlb_lib.RADIO_MLB	2A8 2C6
RF_RBIAS	RF_RBIAS - @radio_mlb_lib.RADIO_MLB	9A2
RF_RESET_N	RF_RESET_N - @radio_mlb_lib.RADIO_MLB	7C4 7D8
RPMU_FET	RPMU_FET - @radio_mlb_lib.RADIO_MLB	5A7
RPMU_UR	RPMU_UR - @radio_mlb_lib.RADIO_MLB	5B7
RX_800_BAL_N	RX_800_BAL_N - @radio_mlb_lib.RADIO_MLB	9B5
RX_800_BAL_P	RX_800_BAL_P - @radio_mlb_lib.RADIO_MLB	9B4
RX_800_LNA_N	RX_800_LNA_N - @radio_mlb_lib.RADIO_MLB	9B3
RX_800_LNA_P	RX_800_LNA_P - @radio_mlb_lib.RADIO_MLB	9B3
RX_800_TRAP	RX_800_TRAP - @radio_mlb_lib.RADIO_MLB	9B4
RX_1900	RX_1900 - @radio_mlb_lib.RADIO_MLB	9A6 9C4
RX_1900_BAL_N	RX_1900_BAL_N - @radio_mlb_lib.RADIO_MLB	9A5
RX_1900_BAL_P	RX_1900_BAL_P - @radio_mlb_lib.RADIO_MLB	9A5
RX_1900_LNA_N	RX_1900_LNA_N - @radio_mlb_lib.RADIO_MLB	9A3
RX_1900_LNA_P	RX_1900_LNA_P - @radio_mlb_lib.RADIO_MLB	9A3
S1	S1 - @radio_mlb_lib.RADIO_MLB	6C2
S1_GND	S1_GND - @radio_mlb_lib.RADIO_MLB	6B6 6C3
S2	S2 - @radio_mlb_lib.RADIO_MLB	6C2
S2_GND	S2_GND - @radio_mlb_lib.RADIO_MLB	6B6 6C3
S3	S3 - @radio_mlb_lib.RADIO_MLB	6C2
S3_GND	S3_GND - @radio_mlb_lib.RADIO_MLB	6B6 6C3
S4	S4 - @radio_mlb_lib.RADIO_MLB	6B2
S4_GND	S4_GND - @radio_mlb_lib.RADIO_MLB	6B3 6B5
SDIO_CLK_XW	SDIO_CLK_XW - @radio_mlb_lib.RADIO_MLB	10C7
SDIO_CMD_XW	SDIO_CMD_XW - @radio_mlb_lib.RADIO_MLB	10C7
SDIO_D0_XW	SDIO_D0_XW - @radio_mlb_lib.RADIO_MLB	10C7
SDIO_D1_XW	SDIO_D1_XW - @radio_mlb_lib.RADIO_MLB	10C7
SDIO_D2_XW	SDIO_D2_XW - @radio_mlb_lib.RADIO_MLB	10C7
SDIO_D3_XW	SDIO_D3_XW - @radio_mlb_lib.RADIO_MLB	10C7
SLEEP_CLK	SLEEP_CLK - @radio_mlb_lib.RADIO_MLB	2C3 5C2 7B5
SSBI_PMIC	SSBI_PMIC - @radio_mlb_lib.RADIO_MLB	2C3 5B6 7B5
TRX_800	TRX_800 - @radio_mlb_lib.RADIO_MLB	9C3
TRX_1900	TRX_1900 - @radio_mlb_lib.RADIO_MLB	9D3
TX_800	TX_800 - @radio_mlb_lib.RADIO_MLB	9A1 9C8
TX_800_IN	TX_800_IN - @radio_mlb_lib.RADIO_MLB	9C8
TX_1900	TX_1900 - @radio_mlb_lib.RADIO_MLB	9A1 9D8
TX_1900_MATCH	TX_1900_MATCH - @radio_mlb_lib.RADIO_MLB	9D8
VDD_1P3_DA	VDD_1P3_DA - @radio_mlb_lib.RADIO_MLB	4C4 6C7
VDD_1P3_DRXLO	VDD_1P3_DRXLO - @radio_mlb_lib.RADIO_MLB	4C7 6D5
VDD_1P3_GPSDIG	VDD_1P3_GPSDIG - @radio_mlb_lib.RADIO_MLB	4C7 6D4
VDD_1P3_GPSLO	VDD_1P3_GPSLO - @radio_mlb_lib.RADIO_MLB	4C7 6D5
VDD_1P3_GPSPLL	VDD_1P3_GPSPLL - @radio_mlb_lib.RADIO_MLB	4C7 6D7
VDD_1P3_LNA	VDD_1P3_LNA - @radio_mlb_lib.RADIO_MLB	4C7 6D6
VDD_1P3_PDA	VDD_1P3_PDA - @radio_mlb_lib.RADIO_MLB	4C4 6C7
VDD_1P3_PRXLO	VDD_1P3_PRXLO - @radio_mlb_lib.RADIO_MLB	4C7 6D4
VDD_1P3_RDCO	VDD_1P3_RDCO - @radio_mlb_lib.RADIO_MLB	4C4 6D6
VDD_1P3_RXPLL	VDD_1P3_RXPLL - @radio_mlb_lib.RADIO_MLB	4C4 6D7
VDD_1P3_SBIDIG	VDD_1P3_SBIDIG - @radio_mlb_lib.RADIO_MLB	4C7 6C5
VDD_1P3_TDCO	VDD_1P3_TDCO - @radio_mlb_lib.RADIO_MLB	4C4 6C6
VDD_1P3_TXLO	VDD_1P3_TXLO - @radio_mlb_lib.RADIO_MLB	4C4 6C6
VDD_1P3_TXMIX	VDD_1P3_TXMIX - @radio_mlb_lib.RADIO_MLB	4C4 6C5
VDD_1P3_TXPLL	VDD_1P3_TXPLL - @radio_mlb_lib.RADIO_MLB	4C4 6C7
VDD_1P8_XO	VDD_1P8_XO - @radio_mlb_lib.RADIO_MLB	4C7 6B7
VDD_2P2_BIAS	VDD_2P2_BIAS - @radio_mlb_lib.RADIO_MLB	4C7 6A7
VDD_2P2_PDET	VDD_2P2_PDET - @radio_mlb_lib.RADIO_MLB	4C4 6B7
VDD_2P2_RDCO	VDD_2P2_RDCO - @radio_mlb_lib.RADIO_MLB	4C4 6A7
VDD_2P2_TDCO	VDD_2P2_TDCO - @radio_mlb_lib.RADIO_MLB	4C4 6A7
VDD_A0	VDD_A0 - @radio_mlb_lib.RADIO_MLB	4C3
VDD_QFUSE	VDD_QFUSE - @radio_mlb_lib.RADIO_MLB	4C4 7A4
VDD_RF_DIG	VDD_RF_DIG - @radio_mlb_lib.RADIO_MLB	4C7 6B7
VREG_GP_1P2	VREG_GP_1P2 - @radio_mlb_lib.RADIO_MLB	4C4 6A1
VREG_GP_1P8	VREG_GP_1P8 - @radio_mlb_lib.RADIO_MLB	4C1 6A1 6B8
VREG_GP_2P05	VREG_GP_2P05 - @radio_mlb_lib.RADIO_MLB	4C1 6B1
VREG_MPLL	VREG_MPLL - @radio_mlb_lib.RADIO_MLB	4C1 6A1
VREG_MSMC	VREG_MSMC - @radio_mlb_lib.RADIO_MLB	4B1 4B4 6C1 7A4
VREG_MSME	VREG_MSME - @radio_mlb_lib.RADIO_MLB	2A5 2A8 2D5 3B1 3C5 3D1 4B4 4C1 5B4 6A7 6B8 6C1 7A4
VREG_QFUSE	VREG_QFUSE - @radio_mlb_lib.RADIO_MLB	4C4 6B1
VREG_RF1_1P3	VREG_RF1_1P3 - @radio_mlb_lib.RADIO_MLB	4C4 6C1 6C8
VREG_RF1_1P3_RX	VREG_RF1_1P3_RX - @radio_mlb_lib.RADIO_MLB	4C4 4C7 6C1 6D8
VREG_RF2_2P2	VREG_RF2_2P2 - @radio_mlb_lib.RADIO_MLB	4C4 4C7 6B1 6B8
VREG_RFA_2P2	VREG_RFA_2P2 - @radio_mlb_lib.RADIO_MLB	5C5 6B1
VREG_RF_SW	VREG_RF_SW - @radio_mlb_lib.RADIO_MLB	6B1 8D6
VREG_RF_SW_GPS_LNA	VREG_RF_SW_GPS_LNA - @radio_mlb_lib.RADIO_MLB	8C5
VREG_SDCC1	VREG_SDCC1 - @radio_mlb_lib.RADIO_MLB	4C1 6A1
VREG_USB_3P075	VREG_USB_3P075 - @radio_mlb_lib.RADIO_MLB	4C1 6B1
VSW_S1	VSW_S1 - @radio_mlb_lib.RADIO_MLB	6B4
VSW_S2	VSW_S2 - @radio_mlb_lib.RADIO_MLB	6B4
VSW_S3	VSW_S3 - @radio_mlb_lib.RADIO_MLB	6B4
VSW_S4	VSW_S4 - @radio_mlb_lib.RADIO_MLB	6B4
WDOG_DISABLE	WDOG_DISABLE - @radio_mlb_lib.RADIO_MLB	2A5 2B6
WLAN_BT_DIPLEXER	WLAN_BT_DIPLEXER - @radio_mlb_lib.RADIO_MLB	10D4
WLAN_BUCK_OUT_1V4	WLAN_BUCK_OUT_1V4 - @radio_mlb_lib.RADIO_MLB	10C8
WLAN_CLK_REQ	WLAN_CLK_REQ - @radio_mlb_lib.RADIO_MLB	7D5 10A7 10C8
WLAN_FEM_ANT	WLAN_FEM_ANT - @radio_mlb_lib.RADIO_MLB	10C5
WLAN_FILT	WLAN_FILT - @radio_mlb_lib.RADIO_MLB	10D4
WLAN_RESET_N	WLAN_RESET_N - @radio_mlb_lib.RADIO_MLB	7B8 7C2 10A5 10C8
WLAN_SDIO_CLK	WLAN_SDIO_CLK - @radio_mlb_lib.RADIO_MLB	7B8 10C8
WLAN_SDIO_CMD	WLAN_SDIO_CMD - @radio_mlb_lib.RADIO_MLB	7B8 10C8
WLAN_SDIO_DATA<0>	WLAN_SDIO_DATA<0> - @radio_mlb_lib.RADIO_MLB	10B8
WLAN_SDIO_DATA<3..0>	WLAN_SDIO_DATA<3..0> - @radio_mlb_lib.RADIO_MLB	7B8
WLAN_SDIO_DATA<1>	WLAN_SDIO_DATA<1> - @radio_mlb_lib.RADIO_MLB	10B8
WLAN_SDIO_DATA<2>	WLAN_SDIO_DATA<2> - @radio_mlb_lib.RADIO_MLB	10B8
WLAN_SDIO_DATA<3>	WLAN_SDIO_DATA<3> - @radio_mlb_lib.RADIO_MLB	10B8
WLAN_SR_VLX1	WLAN_SR_VLX1 - @radio_mlb_lib.RADIO_MLB	10C7
WLAN_TCK	WLAN_TCK - @radio_mlb_lib.RADIO_MLB	7D5 10C5
WLAN_TDI	WLAN_TDI - @radio_mlb_lib.RADIO_MLB	7D5 10B5
WLAN_TDO	WLAN_TDO - @radio_mlb_lib.RADIO_MLB	7D5 10C5
WLAN_TMS	WLAN_TMS - @radio_mlb_lib.RADIO_MLB	7D5 10C5
WLAN_TRST_N	WLAN_TRST_N - @radio_mlb_lib.RADIO_MLB	7D5 10C5
WLAN_VDDIO_1V8	WLAN_VDDIO_1V8 - @radio_mlb_lib.RADIO_MLB	10A5 10D6
WL_BT_REG_ON	WL_BT_REG_ON - @radio_mlb_lib.RADIO_MLB	7B8 7C2 7C5 10C8
WL_BT_VDDIO	WL_BT_VDDIO -	5B8 7B8 10A8 10D4

	@radio_mlb_lib.RADIO_MLB	
WL_BT_VDDIO_FILT_TCX	WL_BT_VDDIO_FILT_TCXO -	10A7
O	@radio_mlb_lib.RADIO_MLB	
XO_GND	XO_GND - @radio_mlb_lib.RADIO_MLB	5C4 5C5
XO_OUT	XO_OUT - @radio_mlb_lib.RADIO_MLB	9B2
XO_OUT_A0	XO_OUT_A0 -	5C2 9B1
	@radio_mlb_lib.RADIO_MLB	
XO_OUT_D1	XO_OUT_D1 -	2C3 5C2 7B5
	@radio_mlb_lib.RADIO_MLB	
XO_OUT_D1_EN	XO_OUT_D1_EN -	2C3 5C2
	@radio_mlb_lib.RADIO_MLB	
XO_THERM	XO_THERM - @radio_mlb_lib.RADIO_MLB	5C4
XTAL19M_IN	XTAL19M_IN -	5D4
	@radio_mlb_lib.RADIO_MLB	
XTAL19M_OUT	XTAL19M_OUT -	5D4
	@radio_mlb_lib.RADIO_MLB	

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BR1	BRACKET_1P_SM	radio_mlb[8C8]
BR2	BRACKET_1P_SM	radio_mlb[8B8]
C1	CAP_0201-MUR	radio_mlb[7D3]
C2	CAP_201	radio_mlb[5A8]
C3	CAP_201	radio_mlb[8B3]
C4	CAP_201	radio_mlb[8B3]
C5	CAP_201	radio_mlb[8A6]
C6	CAP_201	radio_mlb[8B6]
C7	CAP_402	radio_mlb[10A8]
C8	CAP_01005	radio_mlb[10A7]
C9	CAP_201	radio_mlb[8A5]
C10	CAP_201	radio_mlb[5B6]
C12	CAP_201	radio_mlb[10A6]
C13	CAP_201	radio_mlb[8C6]
C14	CAP_01005	radio_mlb[9C7]
C15	CAP_201	radio_mlb[9D8]
C16	CAP_201	radio_mlb[8C6]
C17	CAP_201	radio_mlb[9D8]
C18	CAP_201	radio_mlb[7A7]
C19	CAP_201	radio_mlb[8C5]
C20	CAP_201	radio_mlb[8C4]
C21	CAP_201	radio_mlb[8C4]
C22	CAP_201	radio_mlb[8C4]
C23	CAP_01005	radio_mlb[6C7]
C24	CAP_01005	radio_mlb[8C3]
C25	CAP_01005	radio_mlb[8C3]
C26	CAP_01005	radio_mlb[9B7]
C27	CAP_201	radio_mlb[9D6]
C28	CAP_01005	radio_mlb[9B7]
C29	CAP_201	radio_mlb[9D7]
C30	CAP_01005	radio_mlb[9C7]
C32	CAP_01005	radio_mlb[9B7]
C33	CAP_01005	radio_mlb[9C6]
C34	CAP_01005	radio_mlb[9D6]
C35	CAP_201	radio_mlb[9C6]
C36	CAP_01005	radio_mlb[10A7]
C37	CAP_201	radio_mlb[9D6]
C38	CAP_01005	radio_mlb[9C5]
C39	CAP_01005	radio_mlb[9D5]
C40	CAP_201	radio_mlb[9C5]
C41	CAP_201	radio_mlb[9D5]
C42	CAP_201	radio_mlb[9C5]
C43	CAP_01005	radio_mlb[9B5]
C44	CAP_201	radio_mlb[9D5]
C45	CAP_201	radio_mlb[9C5]
C46	CAP_0201	radio_mlb[9D4]
C47	CAP_402-LF	radio_mlb[9C5]
C48	CAP_402-LF	radio_mlb[9D5]
C49	CAP_0201	radio_mlb[9A4]
C50	CAP_0201	radio_mlb[9A4]
C51	CAP_201	radio_mlb[9B4]
C52	CAP_201	radio_mlb[9D4]
C53	CAP_201	radio_mlb[9D3]
C54	CAP_201	radio_mlb[9C3]
C55	CAP_201	radio_mlb[9A2]
C56	CAP_0402	radio_mlb[6D8]
C57	CAP_0402	radio_mlb[6C8]
C58	CAP_0201	radio_mlb[8C8]
C59	CAP_201	radio_mlb[9D1]
C60	CAP_402	radio_mlb[9D1]
C61	CAP_201	radio_mlb[8C2]
C65	CAP_201	radio_mlb[9C2]
C66	CAP_201	radio_mlb[3C5]
C67	CAP_603	radio_mlb[10D7]
C68	CAP_201	radio_mlb[10D7]
C69	CAP_201	radio_mlb[10D6]
C70	CAP_201	radio_mlb[10D5]
C71	CAP_0201	radio_mlb[8C7]
C72	CAP_0201	radio_mlb[8D7]
C79	CAP_201	radio_mlb[10A8]
C81	CAP_201	radio_mlb[7A7]
C82	CAP_201	radio_mlb[7A7]
C83	CAP_201	radio_mlb[7A7]
C85	CAP_201	radio_mlb[9D2]
C86	CAP_402	radio_mlb[10C7]
C87	CAP_201	radio_mlb[8B7]
C88	CAP_201	radio_mlb[8A7]
C89	CAP_201	radio_mlb[8A7]
C90	CAP_01005	radio_mlb[2B5]
C103	CAP_201	radio_mlb[2D4]
C104	CAP_01005	radio_mlb[2B5]
C105	CAP_01005	radio_mlb[2B5]
C106	CAP_201	radio_mlb[2B3]
C107	CAP_0201	radio_mlb[3D2]
C108	CAP_0201	radio_mlb[3D2]
C109	CAP_0201	radio_mlb[3D2]
C110	CAP_0201	radio_mlb[3D2]
C111	CAP_201	radio_mlb[6B7]
C112	CAP_201	radio_mlb[6B7]
C113	CAP_201	radio_mlb[6B7]
C114	CAP_402-LF	radio_mlb[6A7]
C115	CAP_402-LF	radio_mlb[6A7]
C116	CAP_201	radio_mlb[6A7]
C117	CAP_01005	radio_mlb[6D6]
C118	CAP_01005	radio_mlb[6D6]
C119	CAP_01005	radio_mlb[6C7]
C120	CAP_01005	radio_mlb[6C6]
C121	CAP_01005	radio_mlb[6C7]
C122	CAP_01005	radio_mlb[6D7]
C124	CAP_01005	radio_mlb[6D7]
C125	CAP_603	radio_mlb[5C8]
C126	CAP_603	radio_mlb[6D2]
C127	CAP_0201	radio_mlb[4C4]
C128	CAP_0201	radio_mlb[4B4]
C129	CAP_0201	radio_mlb[4B4]
C130	CAP_0201	radio_mlb[4B4]
C131	CAP_0201	radio_mlb[4A4]
C132	CAP_0201	radio_mlb[4A4]
C133	CAP_0201	radio_mlb[4A2]
C134	CAP_0201	radio_mlb[4B2]
C135	CAP_0402	radio_mlb[6C1]
C136	CAP_01005	radio_mlb[5C8]
C137	CAP_0201	radio_mlb[4B1]
C138	CAP_0201	radio_mlb[4B1]
C139	CAP_0201	radio_mlb[4B1]
C140	CAP_201	radio_mlb[6B5]
C141	CAP_603	radio_mlb[6B6]
C142	CAP_603	radio_mlb[6B6]
C143	CAP_603	radio_mlb[6B6]
C144	CAP_603	radio_mlb[6B5]
C145	CAP_402	radio_mlb[6B6]
C146	CAP_201	radio_mlb[6A6]
C147	CAP_201	radio_mlb[6A6]
C148	CAP_402	radio_mlb[6D4]
C149	CAP_01005	radio_mlb[5C8]
C150	CAP_603	radio_mlb[6D2]
C151	CAP_201	radio_mlb[6D2]
C152	CAP_603	radio_mlb[6C3]
C153	CAP_201	radio_mlb[9D6]
C154	CAP_603	radio_mlb[6C3]
C155	CAP_201	radio_mlb[9C6]
C157	CAP_603	radio_mlb[6C3]
C159	CAP_603	radio_mlb[6B3]
C160	CAP_402	radio_mlb[6A1]
C161	CAP_402	radio_mlb[6A4]
C162	CAP_402	radio_mlb[6A4]
C163	CAP_402	radio_mlb[6A3]
C166	CAP_402-LF	radio_mlb[6A2]
C167	CAP_402	radio_mlb[6A3]
C168	CAP_402-LF	radio_mlb[6A2]
C169	CAP_402	radio_mlb[6A2]
C170	CAP_402	radio_mlb[6A2]
C171	CAP_01005	radio_mlb[5C4]
C172	CAP_402	radio_mlb[6A2]
C174	CAP_01005	radio_mlb[5C5]
C178	CAP_402-LF	radio_mlb[6A4]
C179	CAP_01005	radio_mlb[6D5]
C180	CAP_201	radio_mlb[6D4]
C181	CAP_01005	radio_mlb[6C6]
C182	CAP_0201	radio_mlb[6C5]
C183	CAP_01005	radio_mlb[6D5]
C184	CAP_01005	radio_mlb[6D4]
C187	CAP_201	radio_mlb[9C8]
C188	CAP_01005	radio_mlb[6C5]
C189	CAP_201	radio_mlb[6D4]
C200	CAP_402	radio_mlb[6C6]
C201	CAP_402-1	radio_mlb[6D7]
C202	CAP_402	radio_mlb[6C7]
C203	CAP_402-1	radio_mlb[6C7]
C204	CAP_402	radio_mlb[6D6]
C205	CAP_402-1	radio_mlb[6C7]
C206	CAP_402	radio_mlb[6B7]
C217	CAP_01005	radio_mlb[9B2]
C225	CAP_201	radio_mlb[8C5]
FL1	MOD_HFQTP4ZEA047_LGA	radio_mlb[8B5]
FL2	FILTER_SAFFB1G88AA0F57_LLP	radio_mlb[9D7]
FL3	FILTER_SAFEB1G57FM_LLP	radio_mlb[8C4]
FL4	FIL_LDM18_0603	radio_mlb[9A6]
FL5	FILTER_SAFEA836MAA0F57_LLP	radio_mlb[9C8]
FL6	FILTER_2P_0201-1	radio_mlb[7A7]
FL7	FILTER_6P1_LLP	radio_mlb[9C2]
FL9	FILTER_2P_0201	radio_mlb[7A7]
FL10	FILTER_3P1_0805-SM	radio_mlb[10D4]
FL11	FILTER_2P_0402	radio_mlb[6C1]
FL12	FILTER_2P_0402	radio_mlb[6C1]
FL13	FILTER_2P_0402	radio_mlb[6C1]
FL14	FILTER_2P_0402	radio_mlb[6C1]
FL15	FILTER_2P_0402	radio_mlb[6B1]
G1	OSC_4PIN_ST_2.1X1.7X0.8-SM	radio_mlb[10A7]
J1	CON_M40ST_D4MT_SM1_M-ST-SM	radio_mlb[7C3]
J2	CON_F1ST_COAX_S3MT_SM_F-SM	radio_mlb[10D3]
J3	CON_F1ST_COAX_S3MT_SM_F-ST-SM	radio_mlb[8D6]
J4	CON_F1ST_COAX_S3MT_SM_F-ST-SM	radio_mlb[9D1]
J5	CON_F1ST_COAX_S3MT_SM_F-ST-SM	radio_mlb[8B8]
J6	CON_F2ST_COAX_2MT_SM_2_F-ST-SM	radio_mlb[9C1]
J9	CON_F2ST_COAX_2MT_SM_2_F-ST-SM	radio_mlb[8B6]
J14	CON_F4ST_S2MT_SM_F-S T-SM	radio_mlb[7A8]
L1	IND_0201	radio_mlb[8A3]
L2	IND_0201	radio_mlb[8B3]
L3	IND_0201	radio_mlb[8A2]
L4	IND_0201	radio_mlb[8B2]
L5	IND_VLS3012-SM-HF	radio_mlb[6D2]
L6	IND_0201	radio_mlb[8C2]
L7	IND_0201	radio_mlb[8C2]
L8	IND_0201	radio_mlb[9C5]
L9	IND_0201	radio_mlb[9D5]
L10	IND_0201	radio_mlb[9B7]
L11	IND_0201	radio_mlb[9A5]
L12	IND_0201	radio_mlb[9B6]
L13	IND_0201	radio_mlb[9A4]
L14	IND_0201	radio_mlb[9B4]
L15	IND_0201	radio_mlb[9B4]
L16	IND_0201	radio_mlb[9D3]
L17	IND_0201	radio_mlb[9B4]
L18	IND_0201	radio_mlb[9B4]
L19	IND_0201	radio_mlb[9B3]
L20	IND_0201	radio_mlb[9B3]
L21	IND_03015	radio_mlb[8D7]
L22	IND_0201	radio_mlb[9C2]
L23	IND_0201	radio_mlb[9C1]
L24	CAP_201	radio_mlb[10C4]
L25	IND_0201	radio_mlb[6C8]
L26	IND_0201	radio_mlb[6D6]
L27	IND_0201	radio_mlb[6C7]
L28	IND_0201	radio_mlb[6D7]
L29	IND_0201	radio_mlb[6D6]
L30	IND_0201	radio_mlb[6D5]
L31	IND_0201	radio_mlb[6D8]
L32	IND_03015	radio_mlb[8C7]
L33	IND_VLS2012E-SM	radio_mlb[10C7]
L34	IND_402	radio_mlb[9D2]
L36	IND_0201	radio_mlb[6C7]
L37	IND_0201	radio_mlb[6D5]
L38	IND_0201	radio_mlb[9D8]
L39	IND_0201	radio_mlb[9D6]
L40	IND_0201	radio_mlb[9C7]
L41	IND_0201	radio_mlb[8A3]
L42	IND_0201	radio_mlb[8A3]
L43	IND_0201	radio_mlb[9C7]
L44	IND_0201	radio_mlb[9B8]
L50	IND_0201	radio_mlb[6D8]
L54	IND_0201	radio_mlb[8C5]
L60	IND_03015	radio_mlb[8C6]
L61	IND_VLS2012E-SM	radio_mlb[6C3]
L62	IND_VLS2012E-SM	radio_mlb[6C3]
L63	IND_VLS2012E-SM	radio_mlb[6C3]
L64	IND_VLS2012E-SM	radio_mlb[6B3]
PP1	PROBEPOINT_SM	radio_mlb[7C5]
PP2	PROBEPOINT_SM	radio_mlb[7C5]
PP3	PROBEPOINT_SM	radio_mlb[7C5]
PP4	PROBEPOINT_SM	radio_mlb[7B5]
PP7	PROBEPOINT_SM	radio_mlb[7D5]
PP8	PROBEPOINT_SM	radio_mlb[7D5]
PP9	PROBEPOINT_SM	radio_mlb[7D5]
PP10	PROBEPOINT_SM	radio_mlb[7D5]
PP11	PROBEPOINT_SM	radio_mlb[7D5]
PP12	PROBEPOINT_SM	radio_mlb[7C5]
PP13	PROBEPOINT_SM	radio_mlb[7C5]
PP14	PROBEPOINT_SM	radio_mlb[7D5]
PP15	PROBEPOINT_SM	radio_mlb[7B5]
PP16	PROBEPOINT_SM	radio_mlb[7B5]
PP17	PROBEPOINT_SM	radio_mlb[7B5]
PP18	PROBEPOINT_SM	radio_mlb[7B5]
PP24	PROBEPOINT_SM	radio_mlb[7B4]
PP25	PROBEPOINT_SM	radio_mlb[7B4]
PP26	PROBEPOINT_SM	radio_mlb[7B4]
PP30	PROBEPOINT_SM	radio_mlb[7B3]
PP31	PROBEPOINT_SM	radio_mlb[7A3]
PP40	PROBEPOINT_SM	radio_mlb[7B2]
PP41	PROBEPOINT_SM	radio_mlb[7B2]
PP42	PROBEPOINT_SM	radio_mlb[7B2]
PP43	PROBEPOINT_SM	radio_mlb[7B2]
PP44	PROBEPOINT_SM	radio_mlb[7B2]
PP45	PROBEPOINT_SM	radio_mlb[7A2]
PP46	PROBEPOINT_SM	radio_mlb[7A2]
PP47	PROBEPOINT_SM	radio_mlb[7A2]
PP52	PROBEPOINT_SM	radio_mlb[2B6]
PP53	PROBEPOINT_SM	radio_mlb[2B6]
PP58	PROBEPOINT_SM	radio_mlb[2B8]
PP71	PROBEPOINT_SM	radio_mlb[2C4]
PP72	PROBEPOINT_SM	radio_mlb[2C4]
PP73	PROBEPOINT_SM	radio_mlb[2C4]
Q1	TRA_MOSFET_NCHN_3P_SOT883L	radio_mlb[5B7]
R1	RES_201	radio_mlb[3B2]
R2	RES_201	radio_mlb[2D4]
R3	RES_201	radio_mlb[2D4]
R4	RES_201	radio_mlb[2C4]
R5	RES_402	radio_mlb[6D4]
R6	RES_01005	radio_mlb[2A4]
R7	RES_01005	radio_mlb[2A4]
R8	RES_01005	radio_mlb[2A4]
R9	RES_201	radio_mlb[6D2]
R10	RES_01005	radio_mlb[9D6]
R11	RES_201	radio_mlb[10A8]
R12	RES_01005	radio_mlb[9A2]
R13	RES_201	radio_mlb[9A1]
R14	RES_201	radio_mlb[9A1]
R15	RES_201	radio_mlb[9A1]
R16	RES_01005	radio_mlb[2C6]
R17	RES_01005	radio_mlb[2C6]
R18	RES_01005	radio_mlb[10A3]
R19	RES_01005	radio_mlb[7D3]
R20	RES_201	radio_mlb[5B7]
R24	RES_01005	radio_mlb[2B2]
R28	RES_01005	radio_mlb[2B5]
R29	RES_01005	radio_mlb[2B5]
R30	RES_01005	radio_mlb[2B3]
R31	RES_01005	radio_mlb[2A7]
R32	RES_01005	radio_mlb[2A7]
R33	RES_01005	radio_mlb[2A7]
R34	RES_01005	radio_mlb[2A7]
R36	RES_01005	radio_mlb[2A7]
R37	RES_01005	radio_mlb[2A7]
R38	RES_01005	radio_mlb[2A7]
R39	RES_01005	radio_mlb[2A7]
R40	RES_01005	radio_mlb[2A7]
R41	RES_01005	radio_mlb[2A7]
R43	RES_201	radio_mlb[6B8]
R44	RES_201	radio_mlb[6B8]
R45	RES_201	radio_mlb[6B8]
R46	RES_201	radio_mlb[6A8]
R47	RES_201	radio_mlb[6A8]
R48	RES_201	radio_mlb[6A8]
R49	RES_201	radio_mlb[6D7]
R51	IND_0201	radio_mlb[6C8]
R55	IND_0201	radio_mlb[6C8]
R58	THERMISTER_0201	radio_mlb[5C4]
R59	RES_01005	radio_mlb[5C5]
R60	RES_201	radio_mlb[6D2]
R61	RES_201	radio_mlb[9C8]
R62	RES_01005	radio_mlb[2C8]
R63	RES_01005	radio_mlb[2C8]
R68	RES_201	radio_mlb[6B1]
R69	RES_201	radio_mlb[6B1]
R70	RES_201	radio_mlb[6B1]
R72	RES_201	radio_mlb[6B1]
R76	RES_201	radio_mlb[6A1]
R81	RES_01005	radio_mlb[3C8]
R82	RES_201	radio_mlb[4C4]
R83	RES_201	radio_mlb[6A1]
R86	RES_201	radio_mlb[4C4]
R93	RES_201	radio_mlb[4C4]
R97	RES_201	radio_mlb[6C6]
R98	RES_201	radio_mlb[6C6]
R101	RES_01005	radio_mlb[3B5]
R102	RES_01005	radio_mlb[3C5]
R103	RES_01005	radio_mlb[3C5]
R104	RES_201	radio_mlb[10D5]
R106	RES_01005	radio_mlb[10A5]
R107	RES_01005	radio_mlb[10A5]
R108	RES_01005	radio_mlb[10A3]
R109	RES_201	radio_mlb[10D4]
R110	RES_201	radio_mlb[9D8]
R185	RES_201	radio_mlb[9C8]
SP1	SPRING_CLIP_1P_CLIP-SM	radio_mlb[8D8]
TP1	TP_TP-P6	radio_mlb[7A5]
TP2	TP_TP-P6	radio_mlb[7B4]
TP3	TP_TP-P6	radio_mlb[7A4]
TP4	TP_TP-P6	radio_mlb[7A4]
TP5	TP_TP-P6	radio_mlb[7A4]
TP7	TP_TP-P6	radio_mlb[7B3]
TP8	TP_TP-P6	radio_mlb[7B3]
TP10	TP_TP-P6	radio_mlb[7A4]
TP11	TP_TP-P6	radio_mlb[7B3]
TP12	TP_TP-P6	radio_mlb[7A3]
TP13	TP_TP-P6	radio_mlb[7A3]
TP14	TP_TP-P6	radio_mlb[7A3]
TP22	TP_TP-P6	radio_mlb[7B3]
TP33	TP_TP-P6	radio_mlb[7B5]
TP34	TP_TP-P6	radio_mlb[7B5]
U1	BGA486_CUSTOM_N92_BGA	radio_mlb[2D7 2D3]
U1	BGA486_CUSTOM_N92_BGA	radio_mlb[3D7]
U1	BGA486_CUSTOM_N92_BGA	radio_mlb[4C3 4D6 4C7]
U1	BGA486_CUSTOM_N92_BGA	radio_mlb[9B2]
U2	SDRAM_EEPROM_4MX16X4_130BGA_TFBGA	radio_mlb[3D4]
U3	PWRMGR_EU_BGA136_BGA	radio_mlb[5B3 5D3 5B6 5D7]
U3	PWRMGR_EU_BGA136_BGA	radio_mlb[6C5]
U4	SN74LVC1G11_BGA	radio_mlb[2C4]
U5	MAX8839L_WLP	radio_mlb[6D3]
U6	AMP_SKY77710_LLP	radio_mlb[9C6]
U7	AMP_SKY77711_LLP	radio_mlb[9D5]
U8	FIL_SAYRF836MCA0F57_LGA	radio_mlb[9C4]
U9	FIL_ACMD7410_2.0X2.5MM	radio_mlb[9D4]
U10	SN74AUC1G32_BGA-YZP	radio_mlb[3C5]
U11	74LVC1G04_SOT891	radio_mlb[5B8]
U12	MOD_WIFI_BT_UNO_LGA5_LGA	radio_mlb[10C7]
U13	FPF1039_CSP	radio_mlb[7D2]
U33	XM1500LB_QFN	radio_mlb[8C5]
XW1	SHORT10L25_WITH_ALTS_SM	radio_mlb[7A6]
XW2	SHORT_SM	radio_mlb[6C3]
XW3	SHORT_SM	radio_mlb[6C3]
XW4	SHORT_SM	radio_mlb[6C3]
XW5	SHORT_SM	radio_mlb[6B3]
XW6	SHORT_SHORT-0201	radio_mlb[10D7]
XW7	SHORT10LP25_WITH_ALTS_SHORT-10L-0.25MM-SM	radio_mlb[5C3]
XW9	SHORT_SM	radio_mlb[10C7]
XW10	SHORT_SM	radio_mlb[10C7]
XW11	SHORT_SM	radio_mlb[10B7]
XW12	SHORT_SM	radio_mlb[10B7]
XW13	SHORT_SM	radio_mlb[10B7]
XW14	SHORT_SM	radio_mlb[10B7]
Y1	CRYSTAL_4PIN_SM-2.5X2.0MM	radio_mlb[5D4]

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
			2010-12-22

I BLEW UP 2 ASHLEYS, CYA IN CASE THE N88 AMANDA BUG IS BACK

LAYOUT: PLACE XW1 AND XW2 REMOTELY BY AP

U48_PMU
D1815A3-110-00
UFBG
(2 OF 2)

L1_PMU 5.6UH-1.15A-462MOHM VLS252012-SM NOSTUFF
L3_PMU 5.6UH-1.15A-462MOHM VLS252012-SM NOSTUFF
L16_PMU 5.6UH-1.15A-462MOHM VLS252012-SM NOSTUFF
L2_PMU 3.3UH-1.4A-272MOHM VLS252012-SM
L17_PMU 2.2UH-1.5A-98MOHM VLS3012-SM
XW1_PMU
XW2_PMU NOSTUFF
L7_PMU 2.2UH-1.8A-155MOHM VLS252012-SM
L18_PMU 5.6UH-1.15A-462MOHM VLS252012-SM NOSTUFF

Q1_PMU FDFME3N311ZT UMLP
Q3_PMU NTK3134NTXXH SOT723
D1_PMU PMEG2005AEL SOD882

R8_PMU 0.00 0% 1/32W MF 01005
R522_PMU 470K 1% 1/16W MF-LF 402
R225_PMU 25.5K 1% 1/20W MF 201
R519_PMU 0.1 1% 1/20W MF 201
R6_PMU 0.1 1% 1/20W MF 201

C168_PMU 10UF 20% 6.3V X5R 603
C269_PMU 10UF 20% 6.3V X5R 603
C459_PMU 1UF 10% 6.3V CERM 402
C460_PMU 1UF 10% 6.3V CERM 402
C49_PMU 4.7UF 20% 6.3V X5R-CERM1 402
C161_PMU 4.7UF 20% 6.3V X5R-CERM1 402
C462_PMU 1UF 10% 6.3V CERM 402
C70_PMU 1UF 10% 6.3V CERM 402
C69_PMU 4.7UF 20% 6.3V X5R-CERM1 402
C164_PMU 1UF 10% 6.3V CERM 402
C47_PMU 1UF 10% 6.3V CERM 402
C68_PMU 1UF 10% 6.3V CERM 402
C203_PMU 1UF 10% 6.3V CERM 402
C267_PMU 1UF 10% 6.3V CERM 402
C191_PMU 1UF 10% 6.3V CERM 402
C274_PMU 1UF 10% 6.3V CERM 402
C76_PMU 1UF 10% 6.3V CERM 402
C32_PMU 4.7UF 10% 6.3V X5R-CERM 603
C209_PMU 4.7UF 10% 6.3V X5R-CERM 603
C1_PMU 1UF 10% 6.3V CERM 402
C190_PMU 10UF 20% 10V X5R 603
C272_PMU 56PF 5% 6.3V NPO-C0G 01005
C178_PMU 10UF 20% 6.3V X5R 603
C67_PMU 2.2UF 10% 25V X5R-CERM 805
C177_PMU 39PF 5% 25V NPO-C0G 201
C179_PMU 100PF 5% 25V CERM 201 NOSTUFF
C42_PMU 0.01UF 10% 6.3V X5R 01005

C243_PMU 10UF 20% 6.3V X5R 603
C453_PMU 10UF 20% 6.3V X5R 603
C58_PMU 1UF 10% 6.3V CERM 402

C474_PMU 1UF 10% 6.3V CERM 402
C298_PMU 1UF 10% 6.3V CERM 402
C291_PMU 1UF 10% 6.3V CERM 402
C299_PMU 1UF 10% 6.3V CERM 402
C301_PMU 1UF 10% 6.3V CERM 402
C300_PMU 1UF 10% 6.3V CERM 402
C63_PMU 47UF 20% 6.3V TANT-POLY CASE-A4

C2_PMU 4.7UF 20% 6.3V X5R-CERM1 402
C3_PMU 4.7UF 20% 6.3V X5R-CERM1 402
C265_PMU 82PF 5% 25V CERM 0201
C266_PMU 18PF 1% 16V CERM 01005
C160_PMU 10UF 20% 6.3V X5R 603
C176_PMU 1UF 10% 6.3V CERM 402
C153_PMU 10UF 20% 6.3V X5R 603

C22_PMU 1UF 10% 6.3V CERM 402

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	BRANCH
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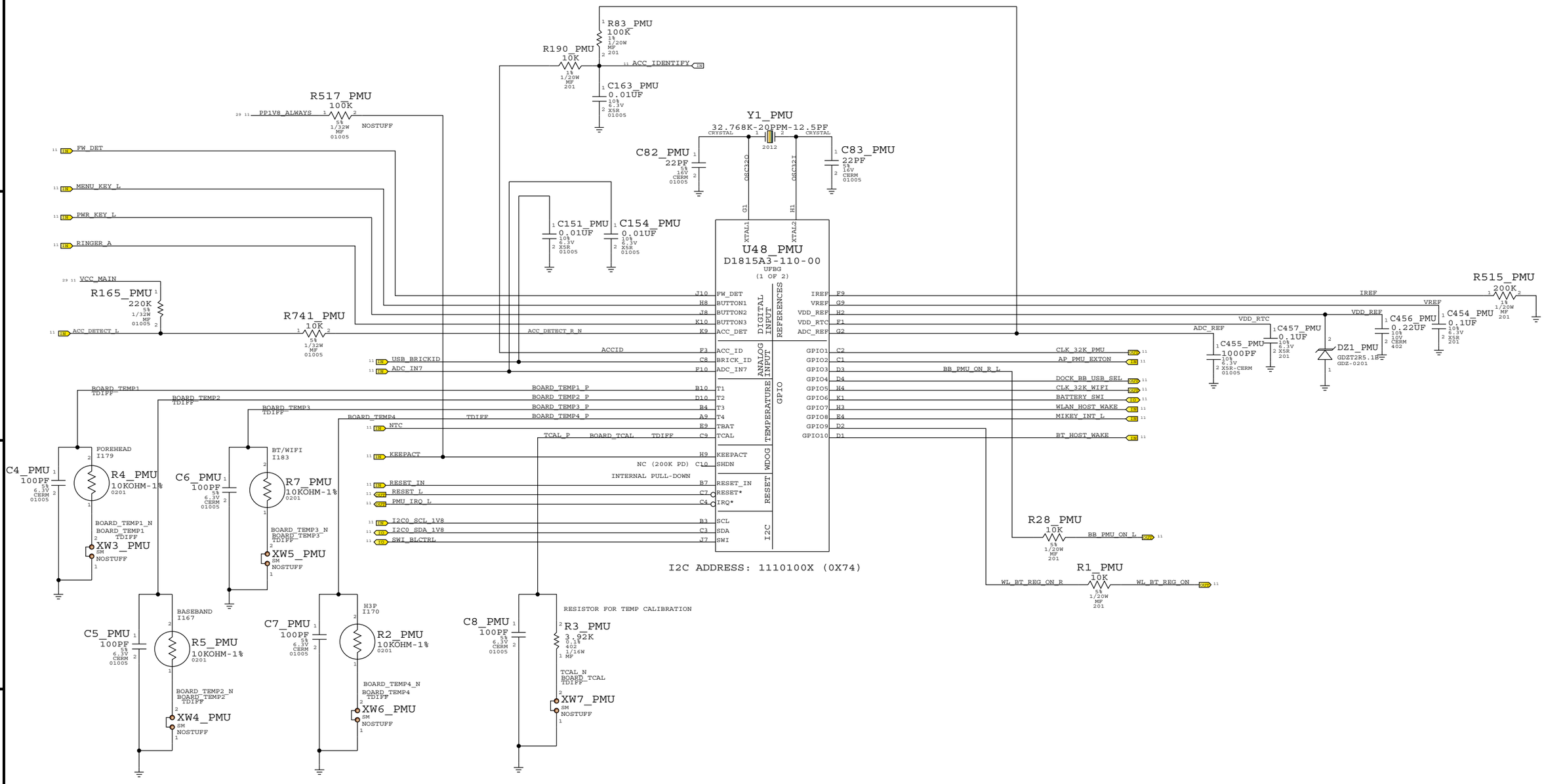

FILTER CAPS AND XW LINKS SHOULD BE PLACED NEAR PMU

SYNC_MASTER=N/A SYNC_DATE=N/A

PAGE TITLE

ASHLEY PMU

Apple Inc.

DRAWING NUMBER 051-8296 SIZE D

REVISION A.6.0

BRANCH

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