

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.

SYNC MASTER=N/A

SYNC DATE=N/A

PAGE TITLE

NAND & NOR

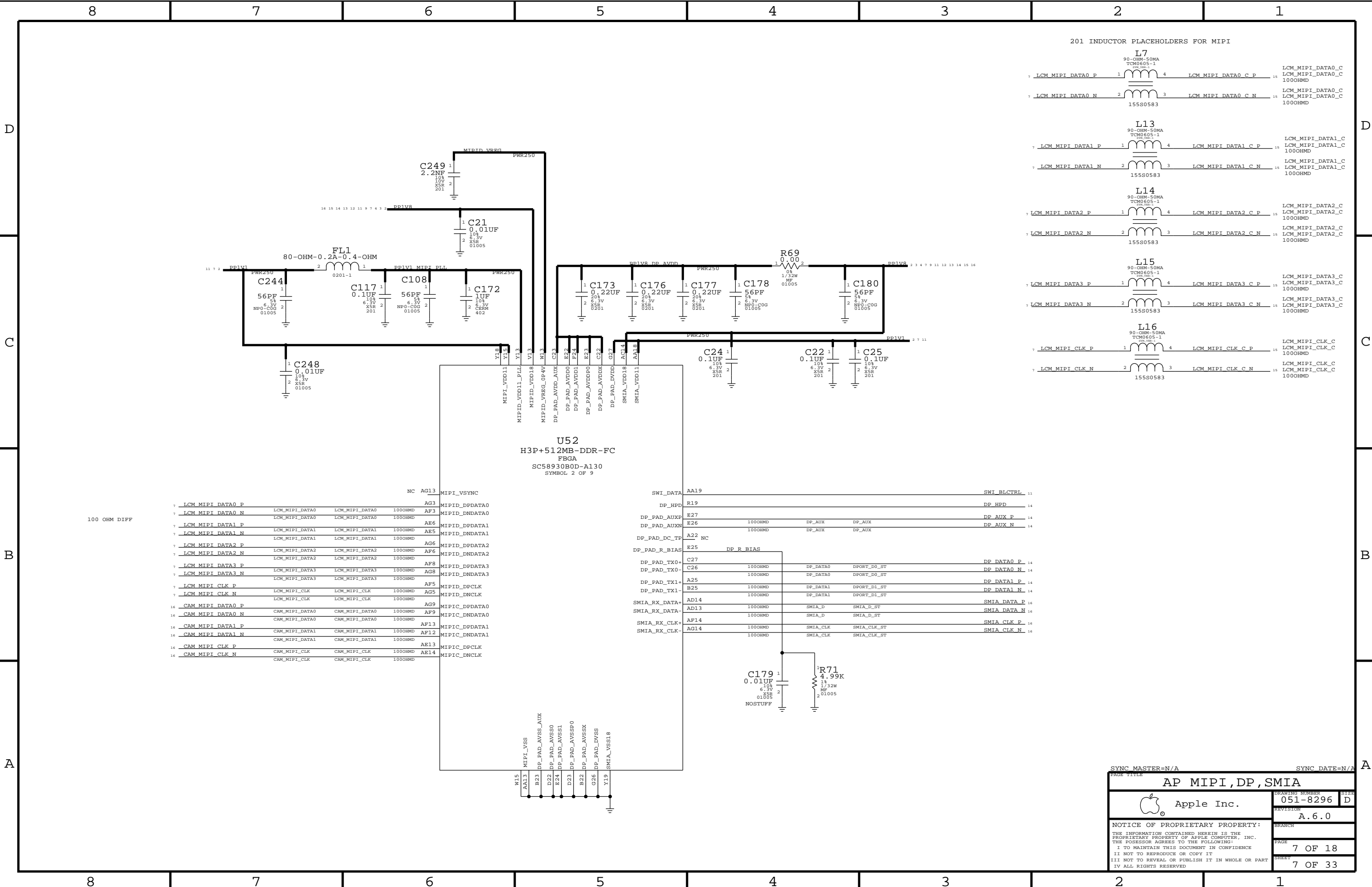
Apple Inc.

DRAWING NUMBER
051-8296

REVISION
A.6.0

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BRANCH
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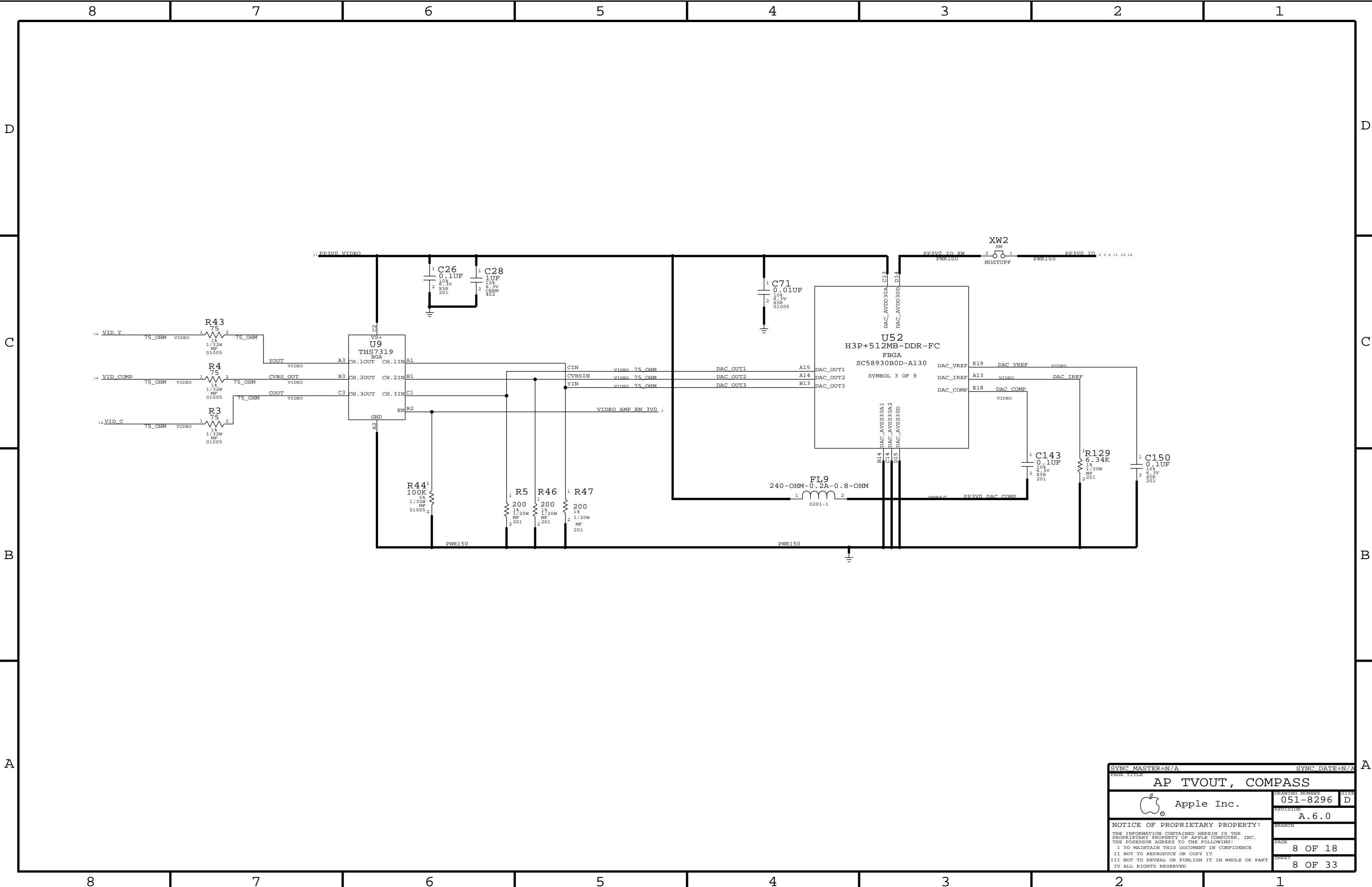
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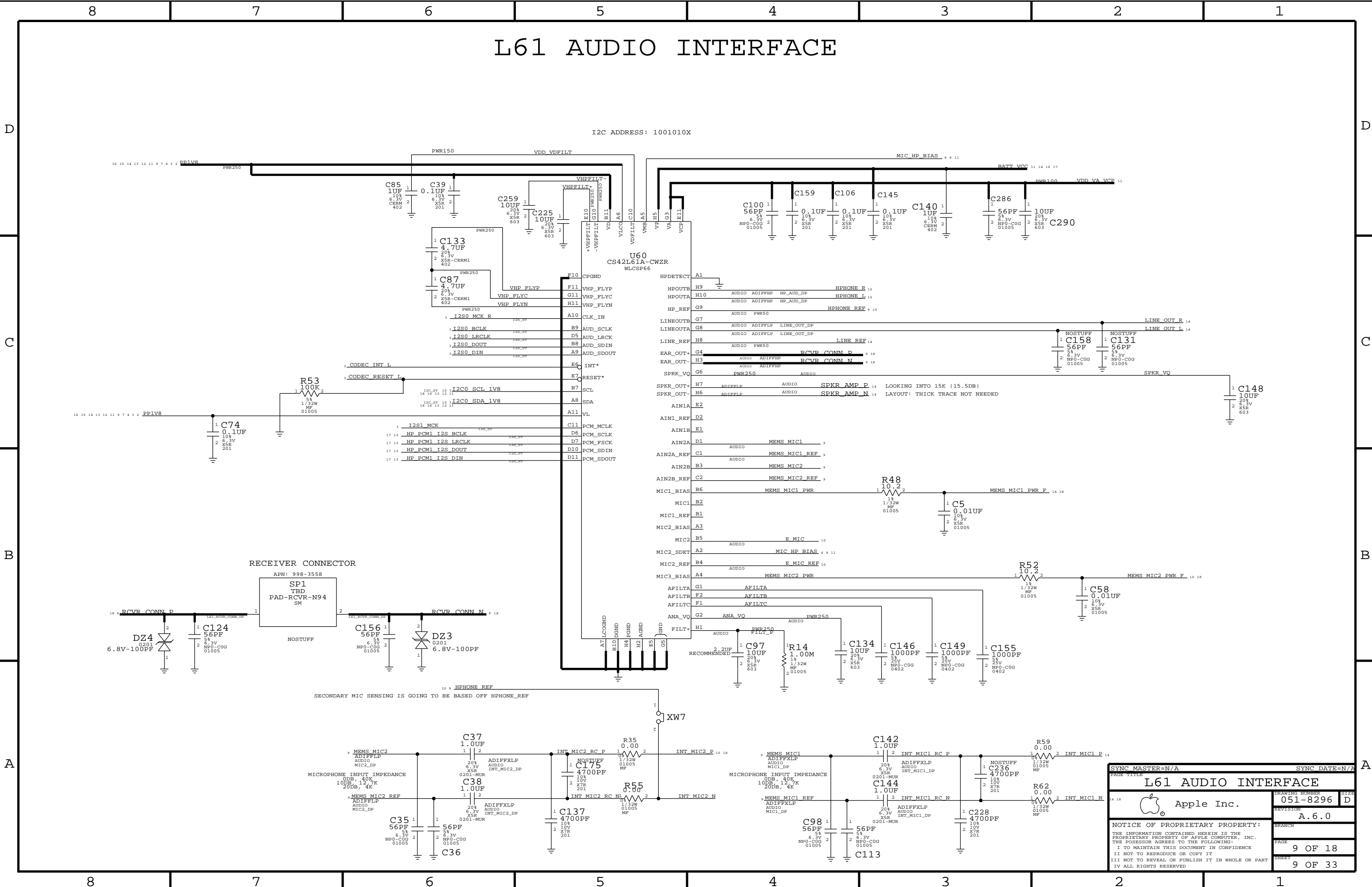
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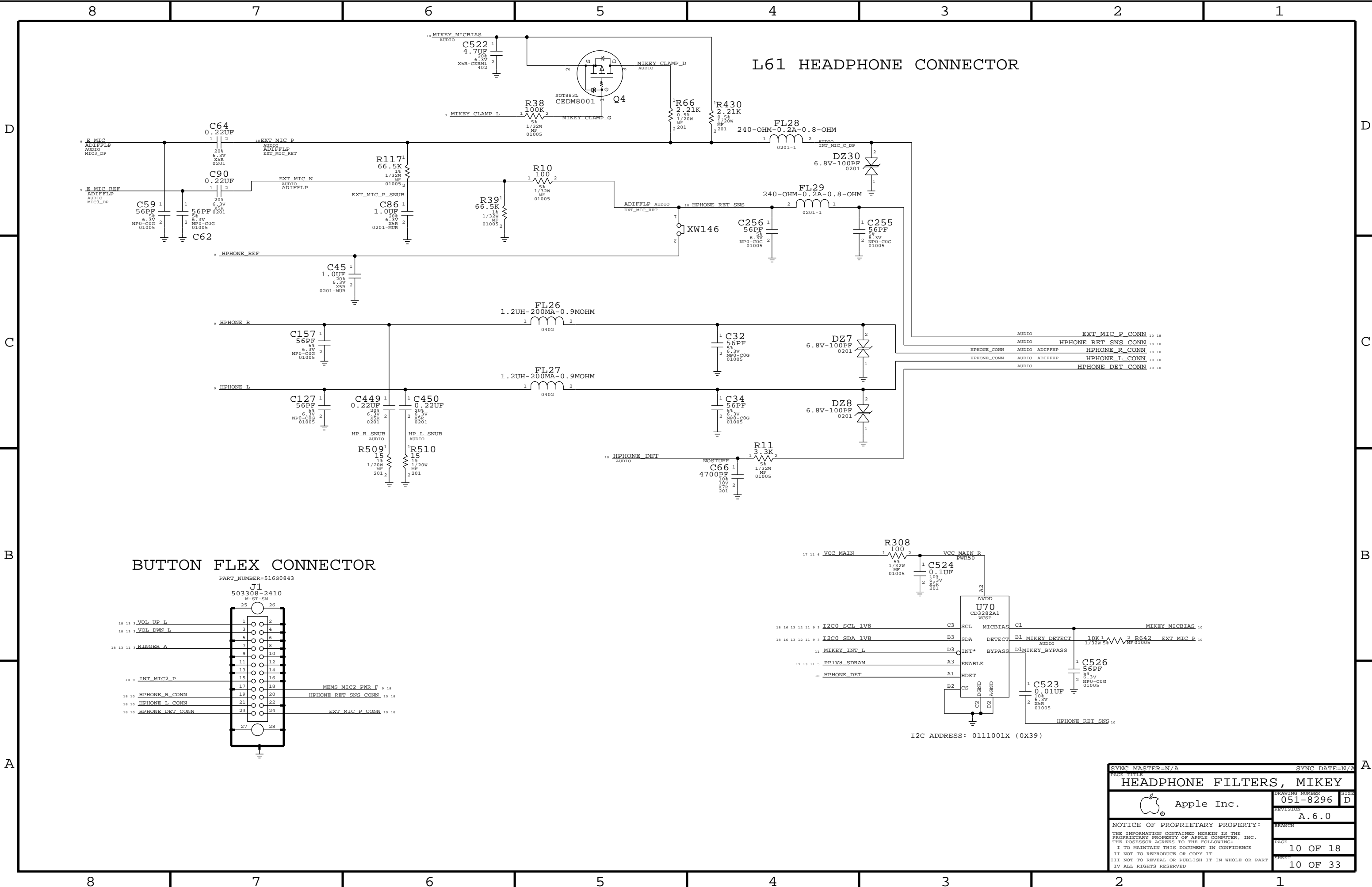
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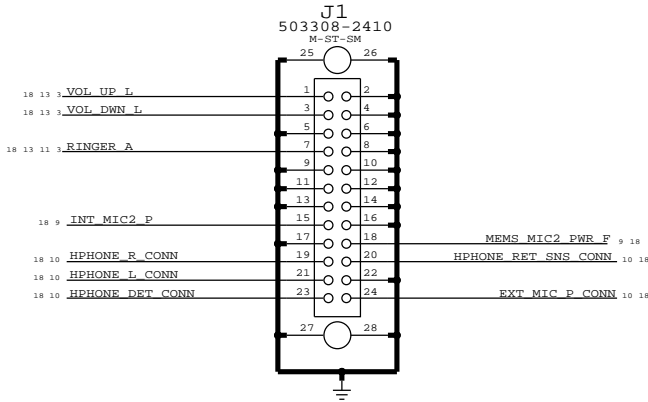
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AP TVOUT, COMPASS			
 Apple Inc.		DRAWING NUMBER	SIZE
		051-8296	D
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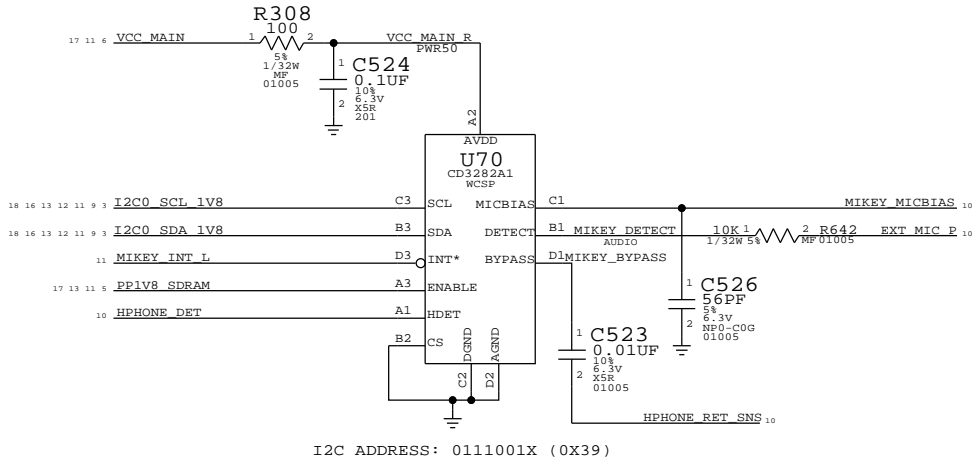


BUTTON FLEX CONNECTOR


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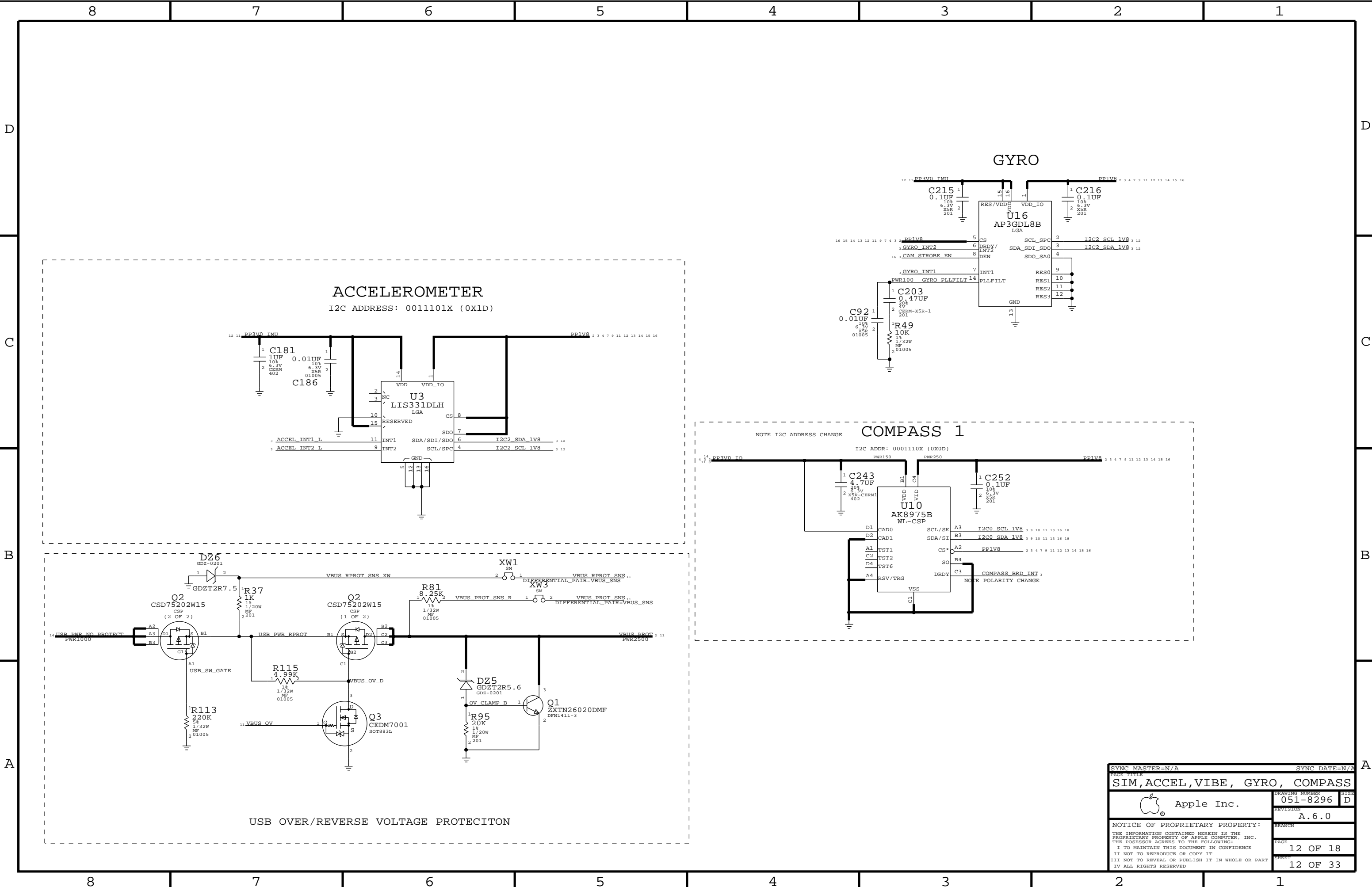


L61 HEADPHONE CONNECTOR



I2C ADDRESS: 0111001X (0X39)

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PAGE TITLE			
HEADPHONE FILTERS, MIKEY			
 Apple Inc.		DRAWING NUMBER	051-8296
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ACCELEROMETER

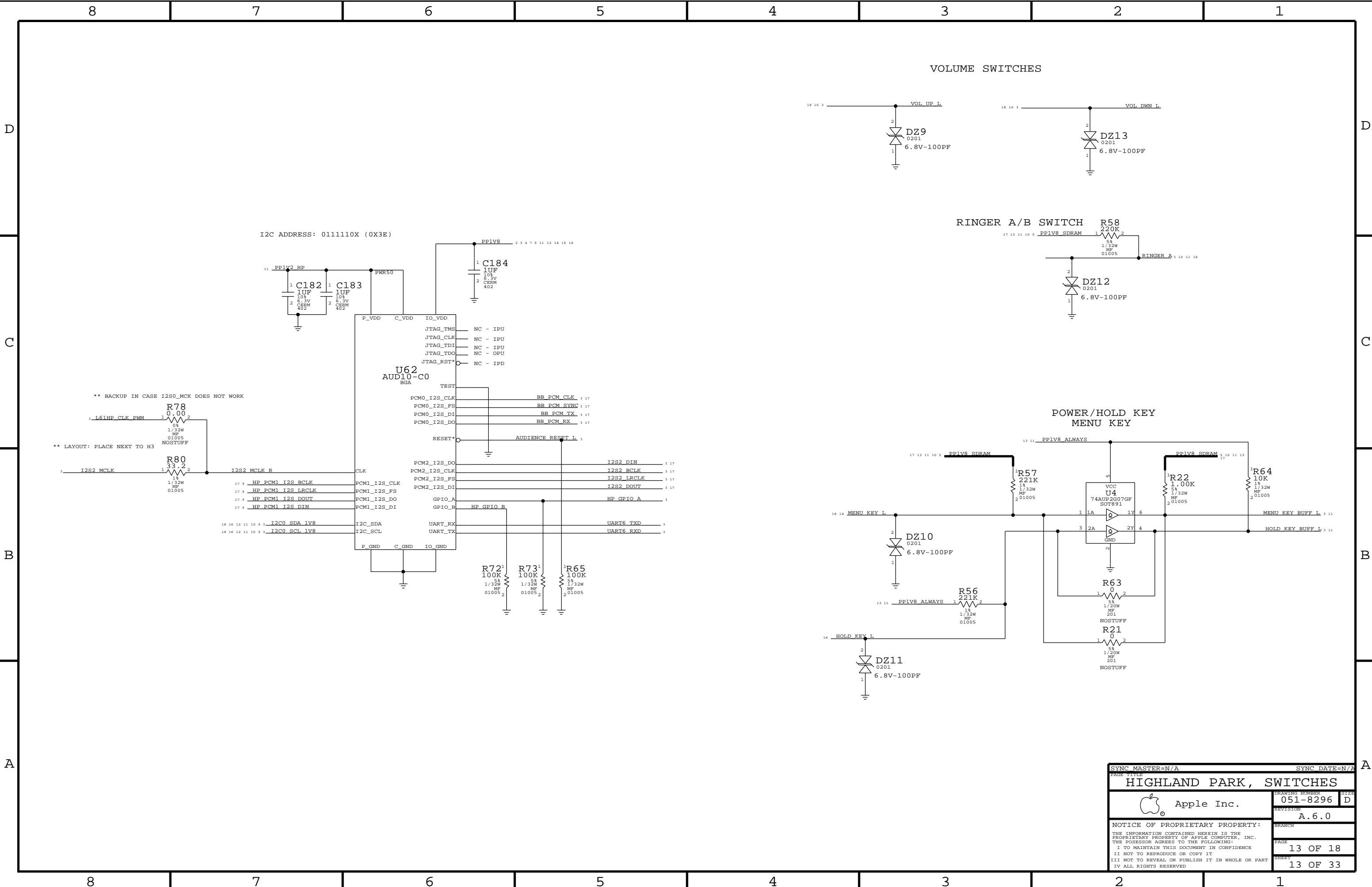
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GYRO

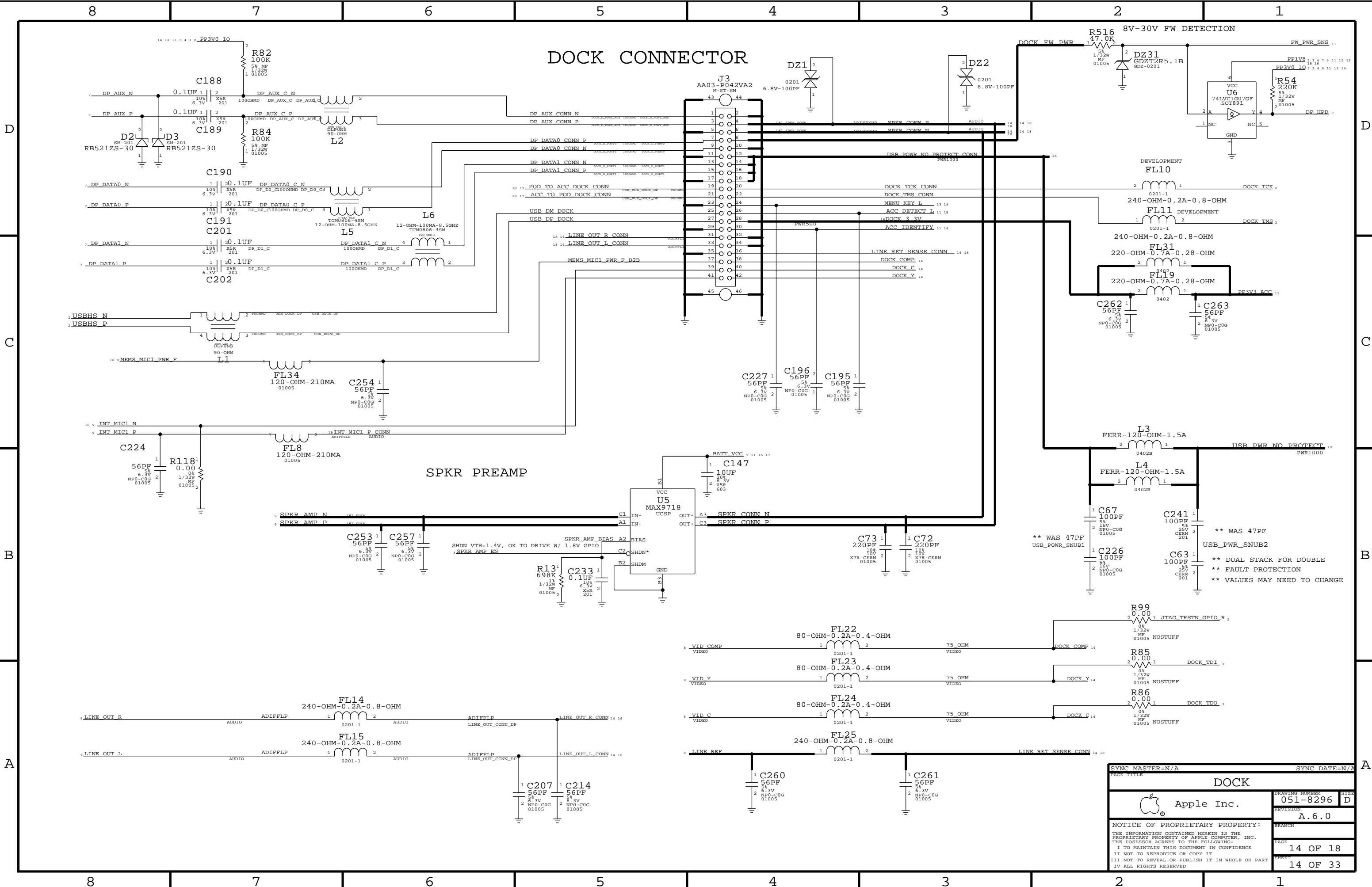
COMPASS 1

USB OVER/REVERSE VOLTAGE PROTECITON

SYNC MASTER=N/A		SYNC DATE=N/A	
PAGE TITLE			
SIM,ACCEL,VIBE, GYRO, COMPASS			
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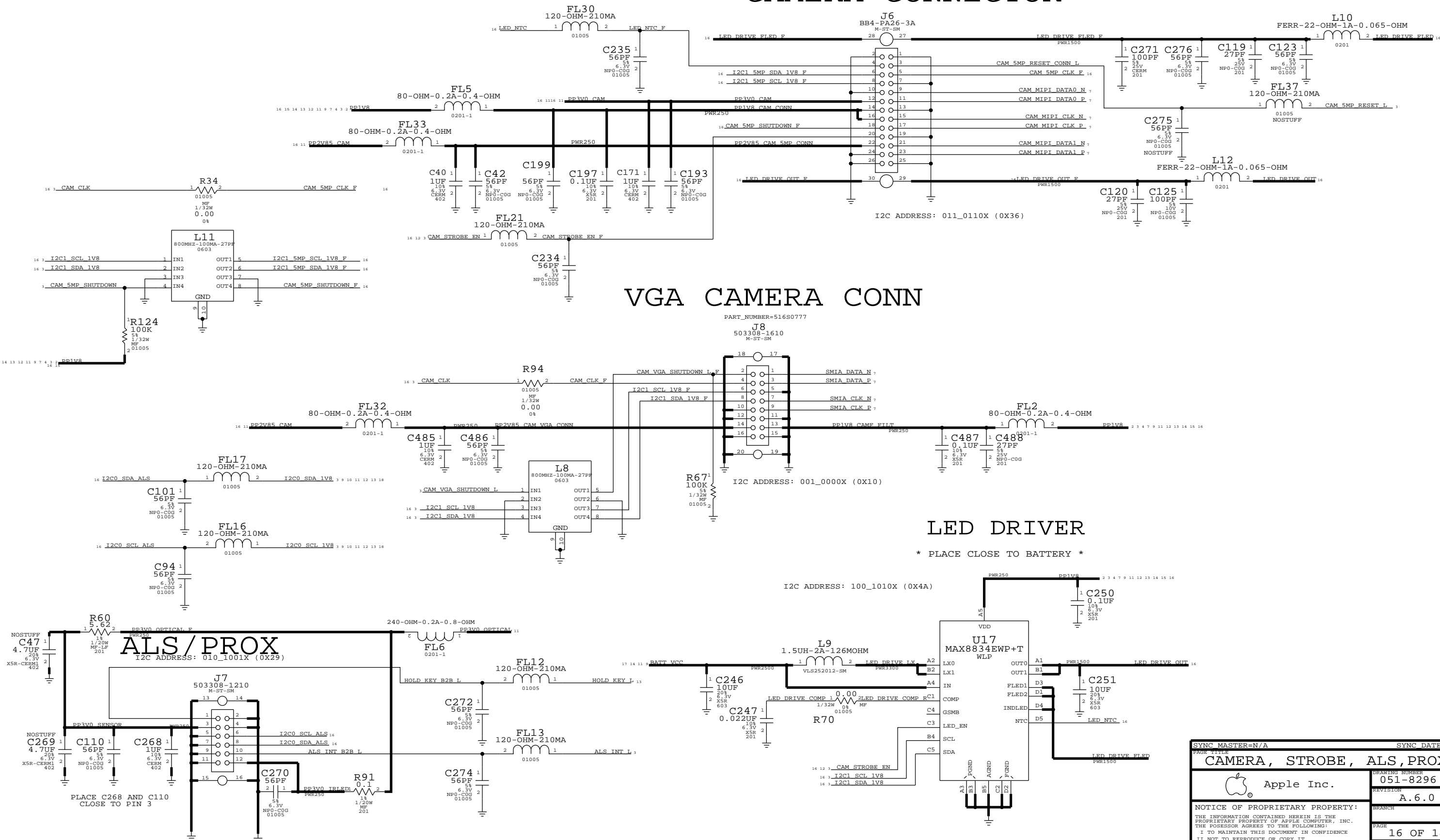
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5MP CAMERA CONNECTOR

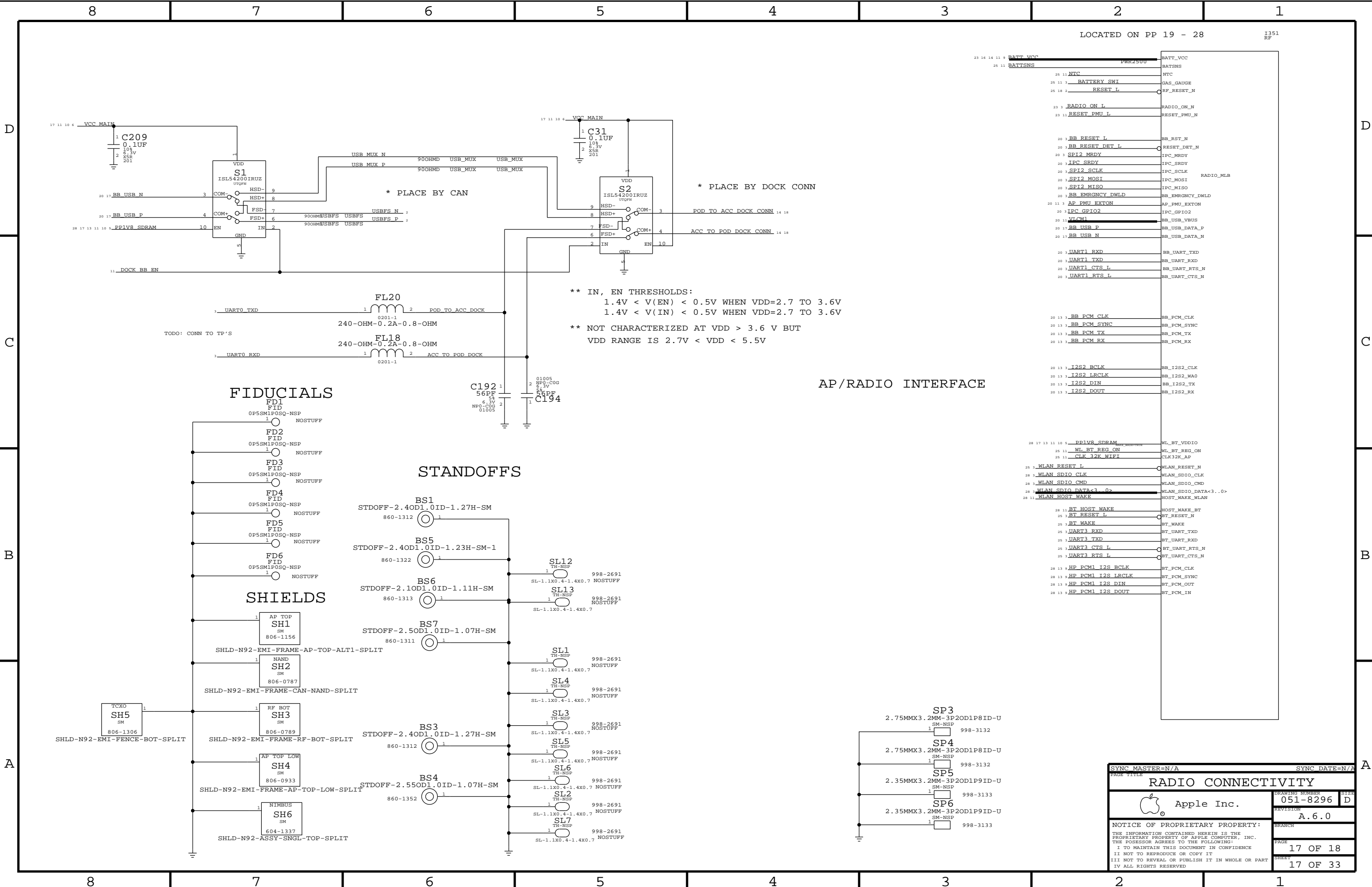
VGA CAMERA CONN

LED DRIVER

ALS/PROX



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CAMERA, STROBE, ALS, PROX		051-8296	
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LOCATED ON PP 19 - 28

23 16 14 11 9	BATT_VCC	PWR2500	BATT_VCC
25 11	BATTSNS		BATSNS
	NTC		NTC
25 11 9	BATTERY SWI		GAS_GAUGE
25 18 2	RESET L		RF_RESET_N
23 3	RADIO_ON L		RADIO_ON_N
23 11	RESET_PMU L		RESET_PMU_N
20 3	BB RESET L		BB_RST_N
20 3	BB RESET DET L		RESET_DET_N
20 3	SPI2 MRDY		IPC_MRDY
20 3	IPC_SRDY		IPC_SRDY
20 3	SPI2 SCLK		IPC_SCLK
20 3	SPI2 MOSI		IPC_MOSI
20 3	SPI2 MISO		IPC_MISO
20 3	BB EMRGNCY_DWLD		BB_EMRGNCY_DWLD
20 11 3	AP_PMU_EXTON		AP_PMU_EXTON
20 3	IPC_GPIO2		IPC_GPIO2
20 11	VL0M1		BB_USB_VBUS
20 17	BB USB P		BB_USB_DATA_P
20 17	BB USB N		BB_USB_DATA_N
20 3	UART1_RXD		BB_UART_TXD
20 3	UART1_TXD		BB_UART_RXD
20 3	UART1_CTS L		BB_UART_RTS_N
20 3	UART1_RTS L		BB_UART_CTS_N
20 13	BB_PCM_CLK		BB_PCM_CLK
20 13	BB_PCM_SYNC		BB_PCM_SYNC
20 13	BB_PCM_TX		BB_PCM_TX
20 13	BB_PCM_RX		BB_PCM_RX
20 13	I2S2_BCLK		BB_I2S2_CLK
20 13	I2S2_LRCLK		BB_I2S2_MA0
20 13	I2S2_DIN		BB_I2S2_TX
20 13	I2S2_DOUT		BB_I2S2_RX

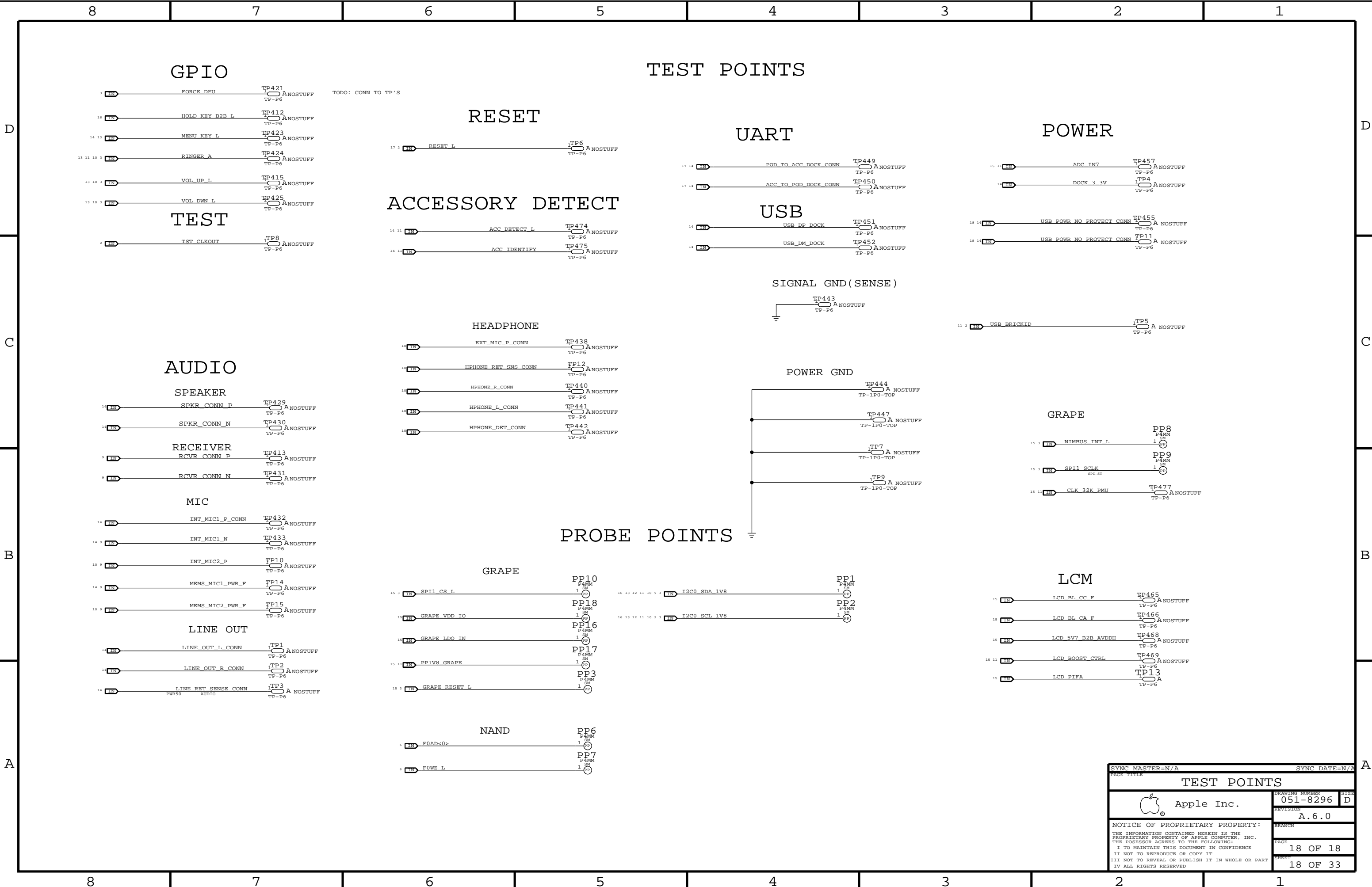
** IN, EN THRESHOLDS:
1.4V < V(EN) < 0.5V WHEN VDD=2.7 TO 3.6V
1.4V < V(IN) < 0.5V WHEN VDD=2.7 TO 3.6V

** NOT CHARACTERIZED AT VDD > 3.6 V BUT
VDD RANGE IS 2.7V < VDD < 5.5V

AP/RADIO INTERFACE

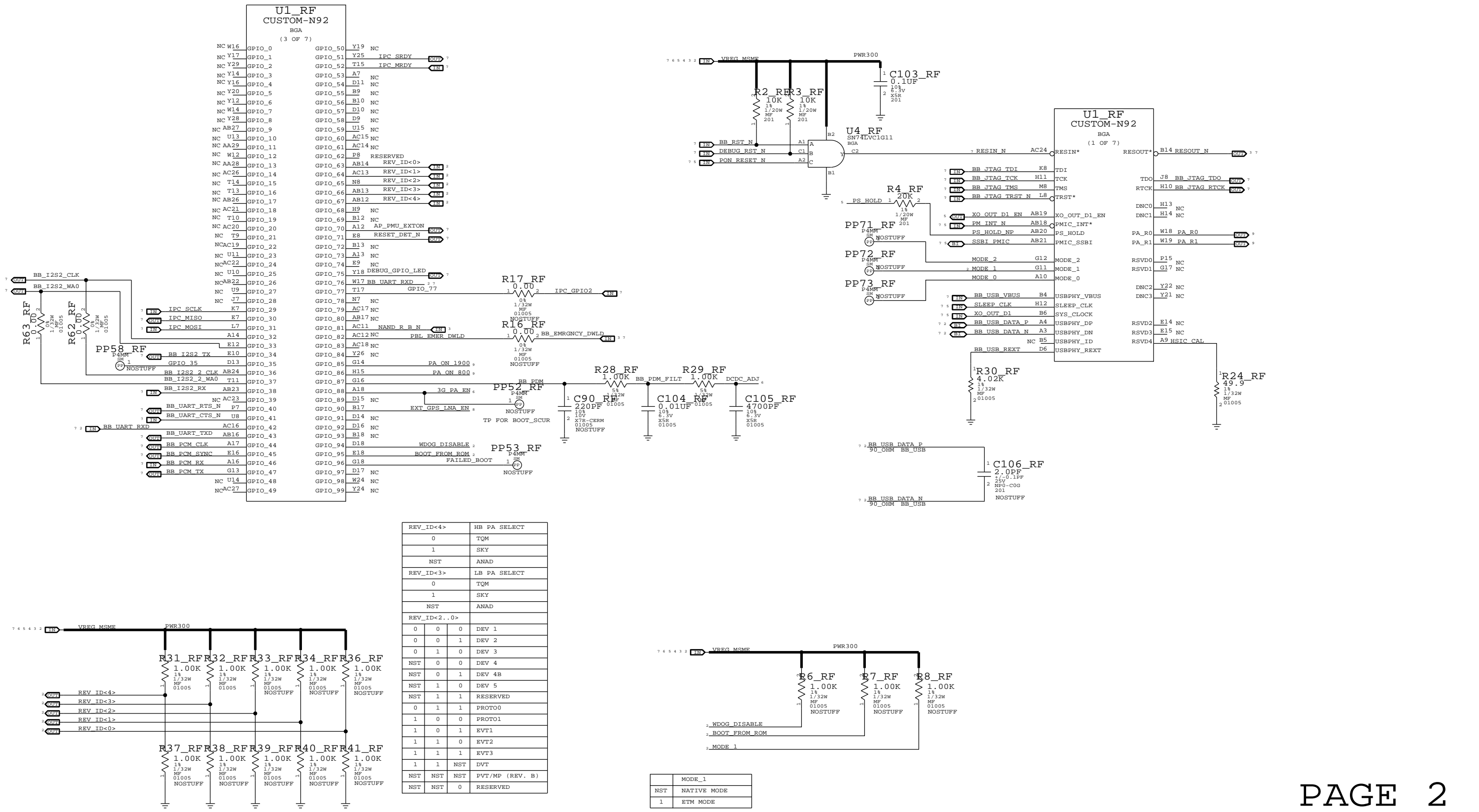
28 17 13 11 10 5	PPIV8_SDRAM	WL_BT_VDDIO
25 11	WL_BT_REG_ON	WL_BT_REG_ON
25 11	CLK_32K_WIFI	CLK32K_AP
26 3	WLAN_RESET L	WLAN_RESET_N
28 3	WLAN_SDIO_CLK	WLAN_SDIO_CLK
28 3	WLAN_SDIO_CMD	WLAN_SDIO_CMD
28 3	WLAN_SDIO_DATA<3..0>	WLAN_SDIO_DATA<3..0>
28 11	WLAN_HOST_WAKE	HOST_WAKE_WLAN
28 11	BT_HOST_WAKE	HOST_WAKE_BT
25 3	BT_RESET L	BT_RESET_N
25 3	BT_WAKE	BT_WAKE
25 3	UART3_RXD	BT_UART_TXD
25 3	UART3_TXD	BT_UART_RXD
25 3	UART3_CTS L	BT_UART_RTS_N
25 3	UART3_RTS L	BT_UART_CTS_N
28 13	HP_PCM1_I2S_BCLK	BT_PCM_CLK
28 13	HP_PCM1_I2S_LRCLK	BT_PCM_SYNC
28 13	HP_PCM1_I2S_DIN	BT_PCM_TX
28 13	HP_PCM1_I2S_DOUT	BT_PCM_RX

SYNC MASTER=N/A		SYNC DATE=N/A	
PAGE TITLE			
RADIO CONNECTIVITY			
Apple Inc.		DRAWING NUMBER	051-8296
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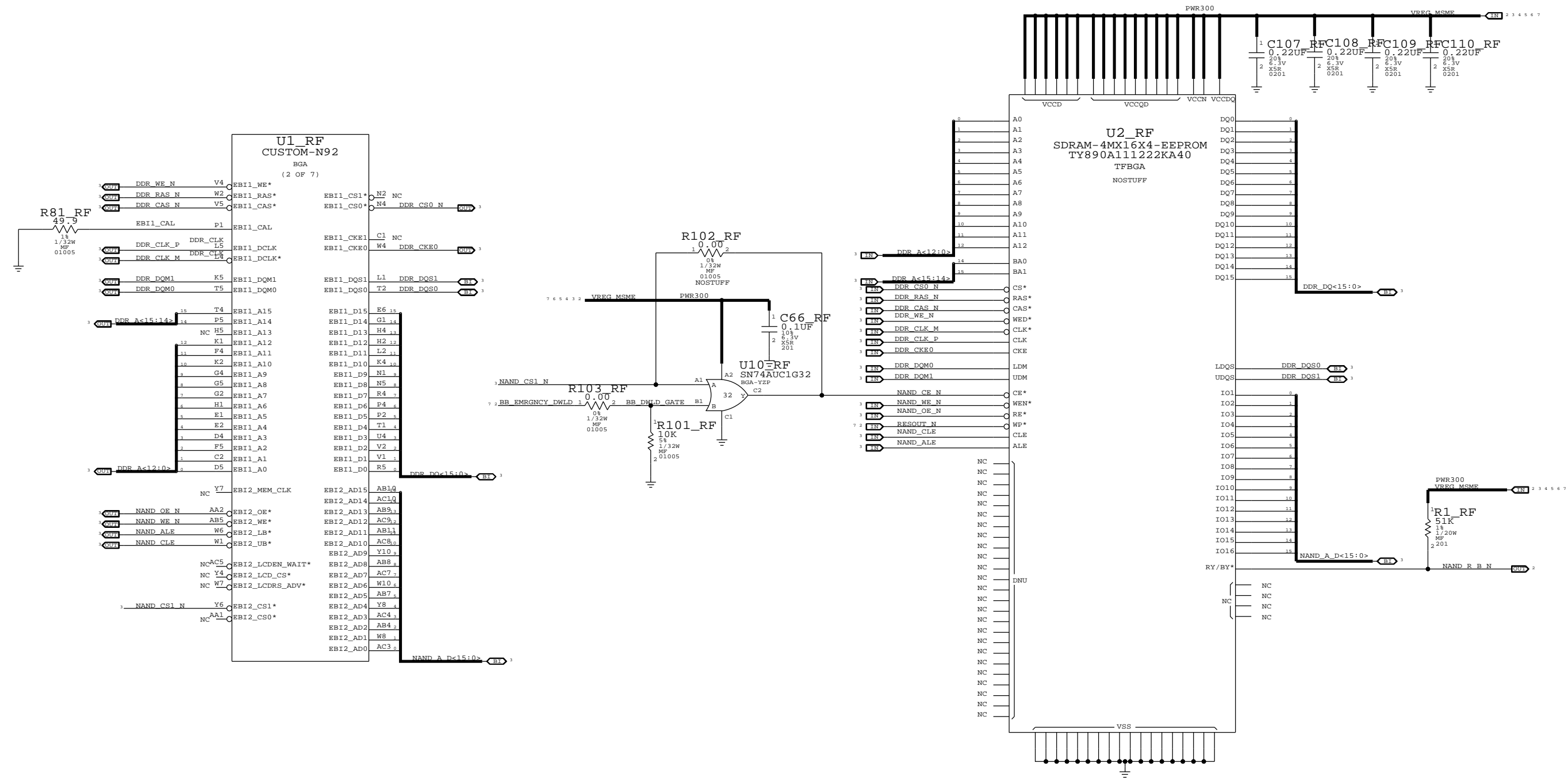


8		7		6		5		4		3		2		1	
1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.												REV	ECN	DESCRIPTION OF REVISION	CK APPD DATE
															2010-12-22
N92 RADIO_MLB (PHOENIX) RADIO_MLB - 12/17/10: SUBDESIGN															
PAGE		CONTENTS													
02		BASEBAND													
03		BASEBAND MEMORY													
04		BASEBAND POWER													
05		POWER1: CONTROL													
06		POWER2: DIGITAL, ANALOG, RF													
07		AP INTERFACE AND DEBUG CONNECTOR													
08		RX DIVERSITY & GPS LNA													
09		RX & TX RF CHAIN													
10		WIFI/BLEETOOTH RADIO													
N92 RADIO_MLB (PHOENIX)															
Apple Inc.												DRAWING NUMBER 051-8296		SIZE D	
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												PAGE 1 OF 13		SHEET 19 OF 33	

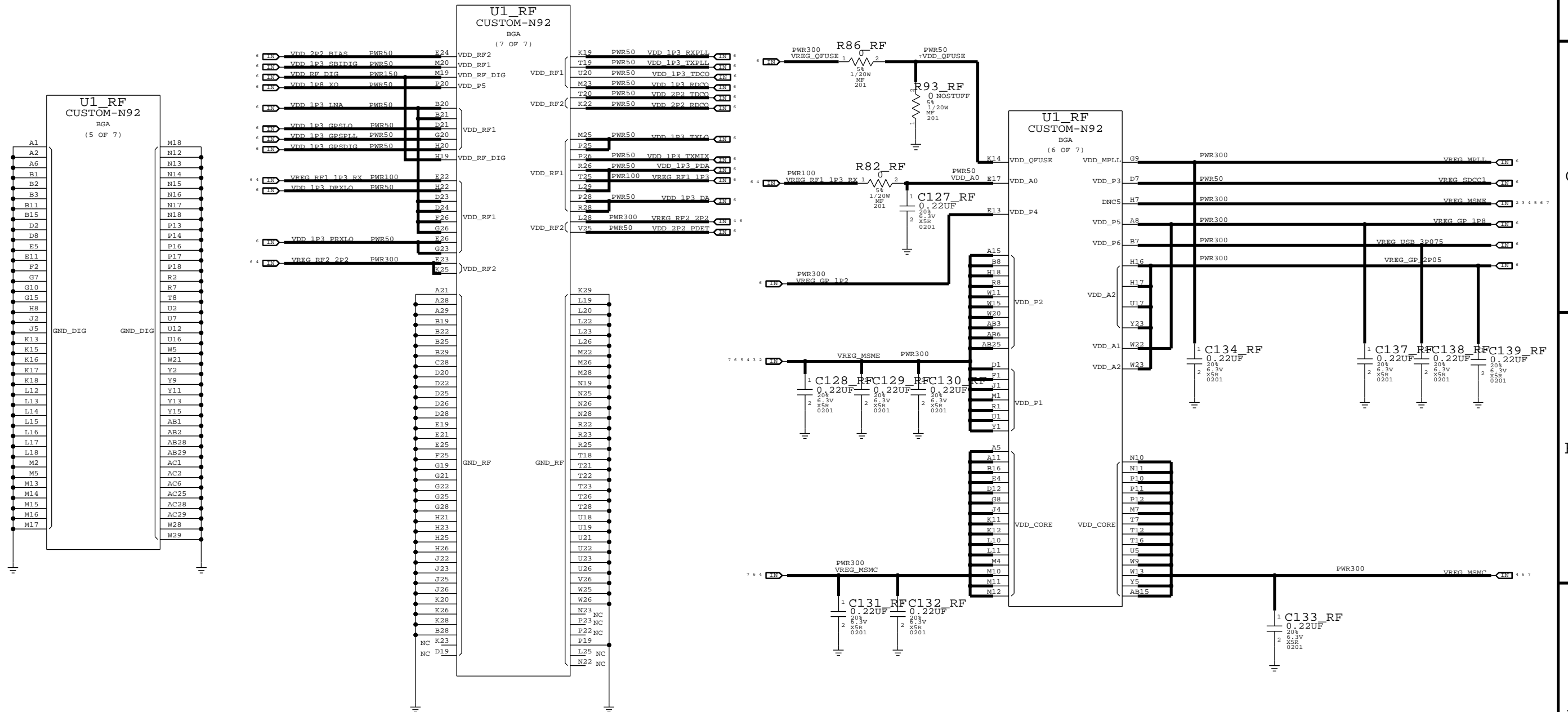
BASEBAND



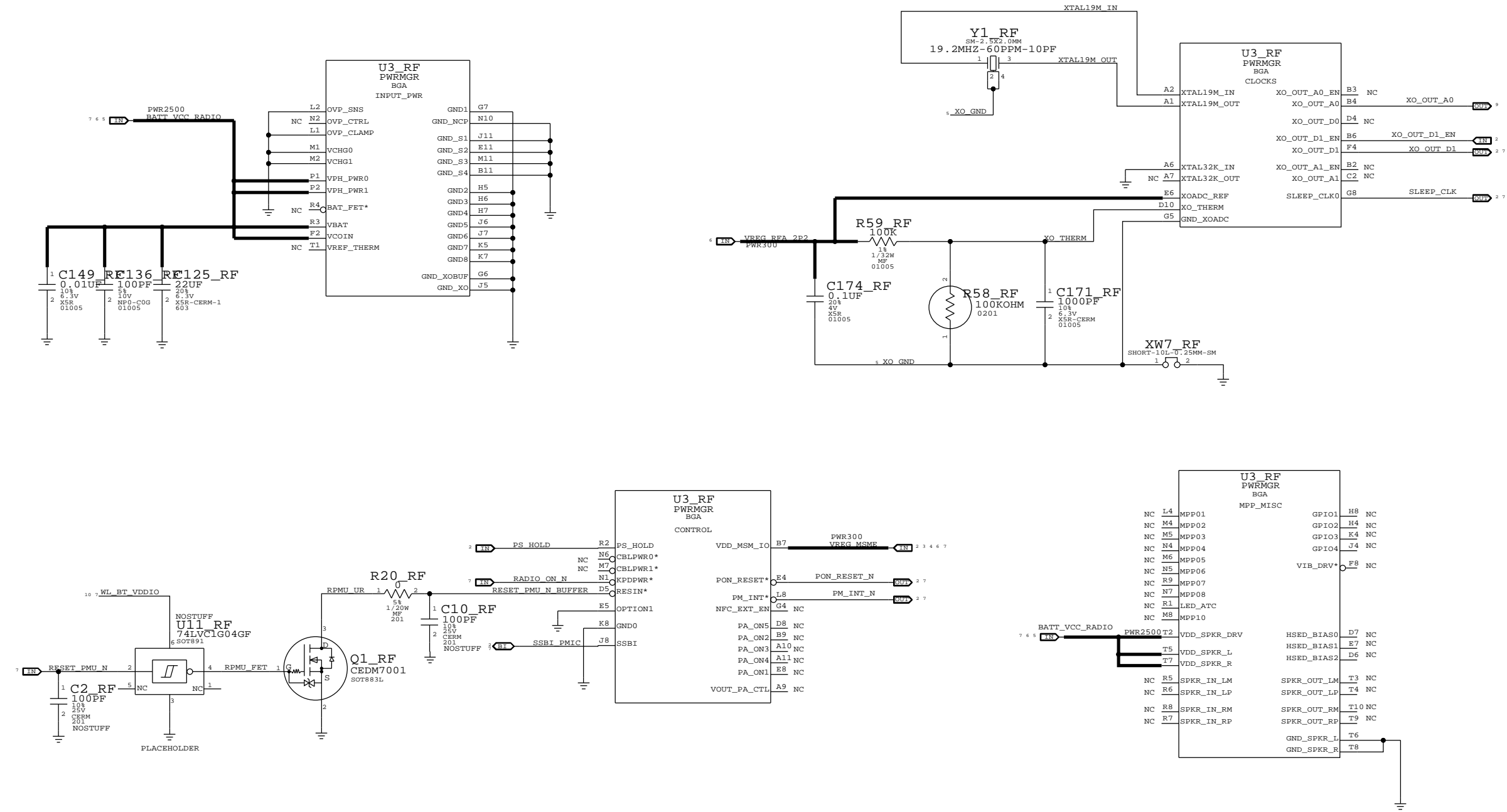
BASEBAND MEMORY



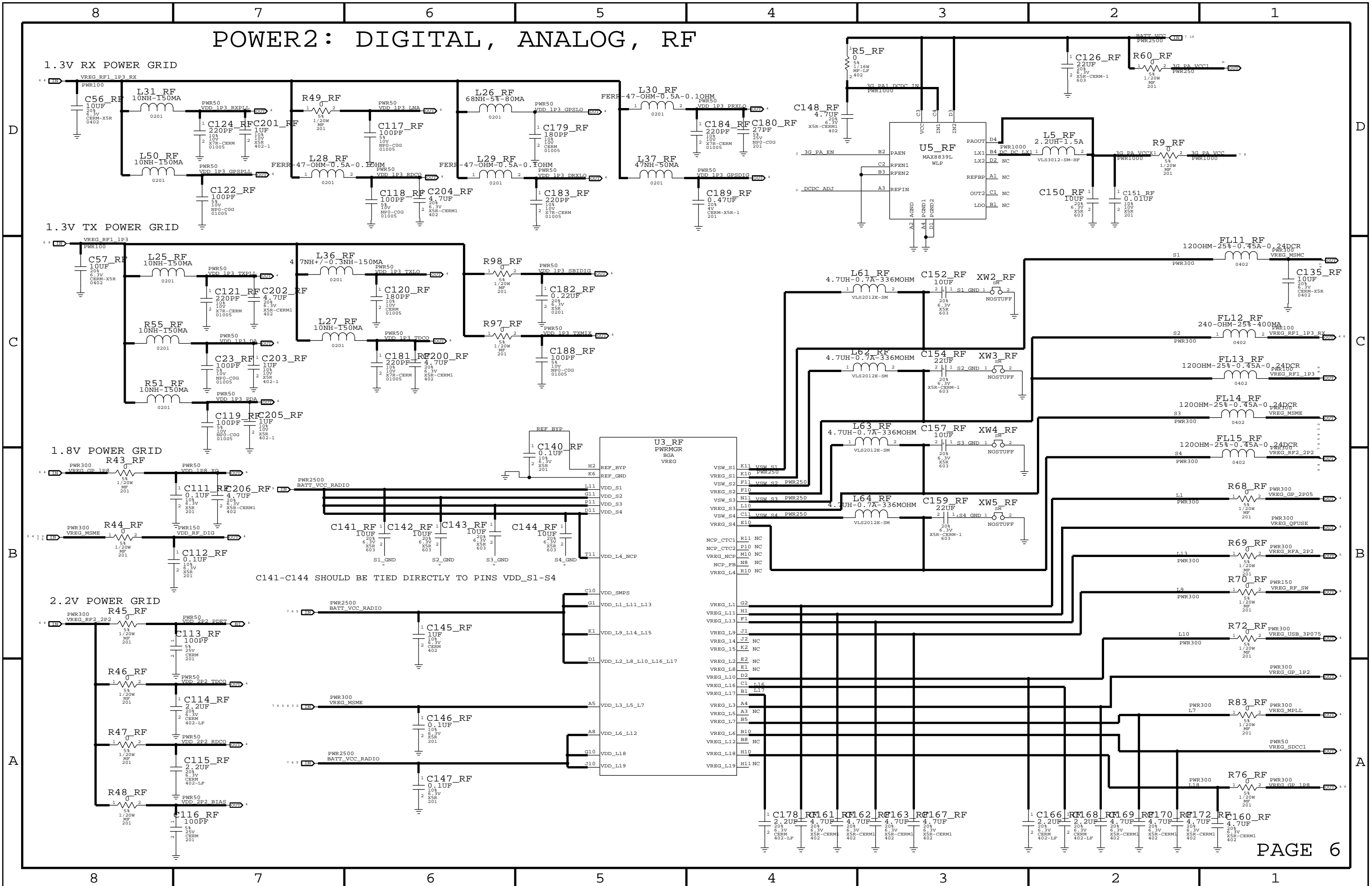
BASEBAND POWER



POWER1: CONTROL

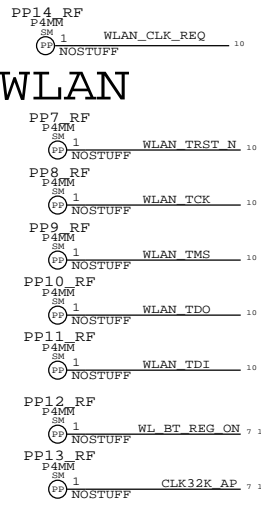
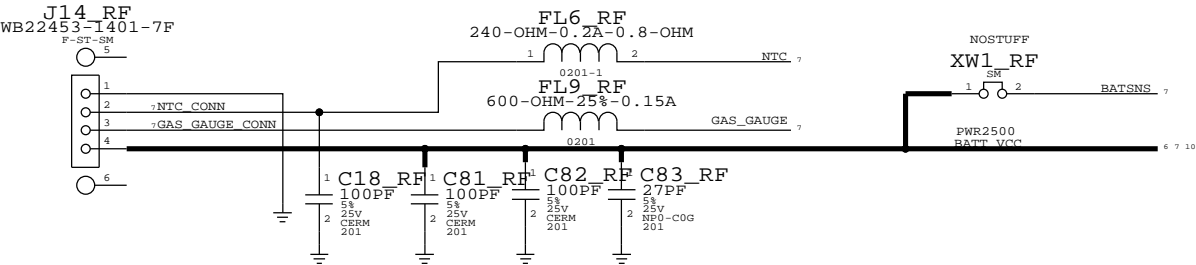
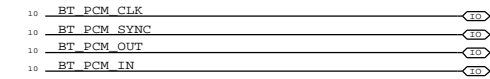
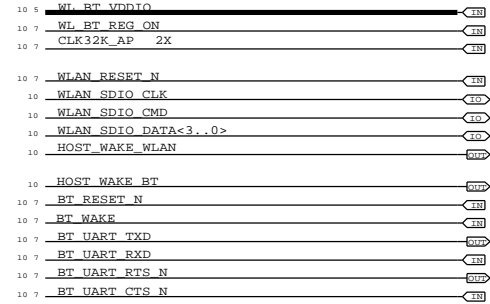
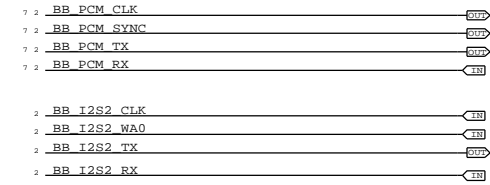
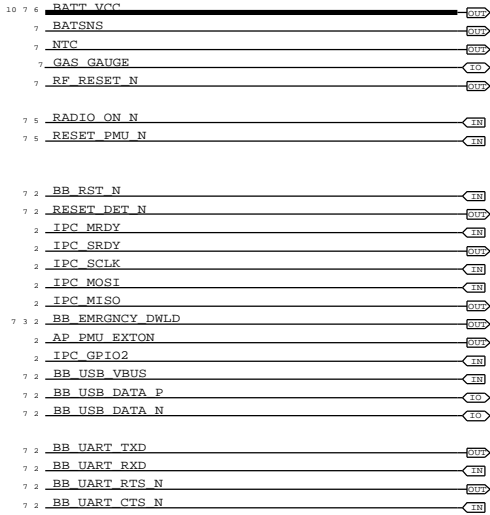


POWER2: DIGITAL, ANALOG, RF

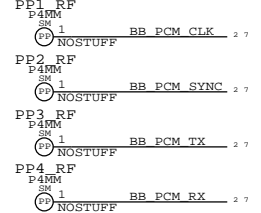


SYSTEM CONNECTORS

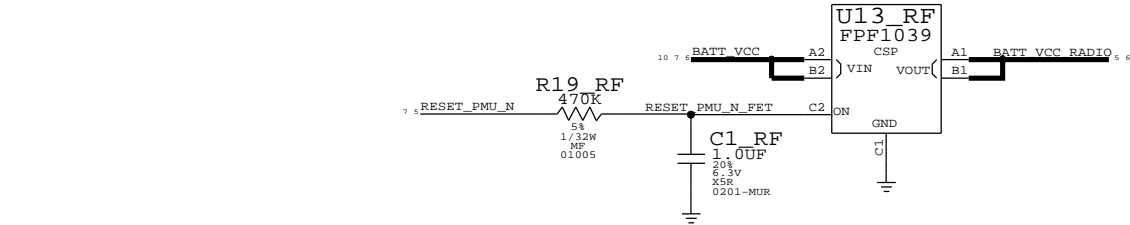
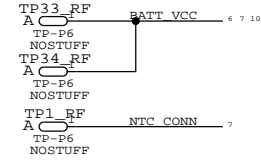
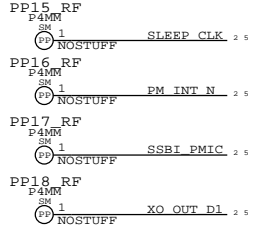
AP CONNECTIONS



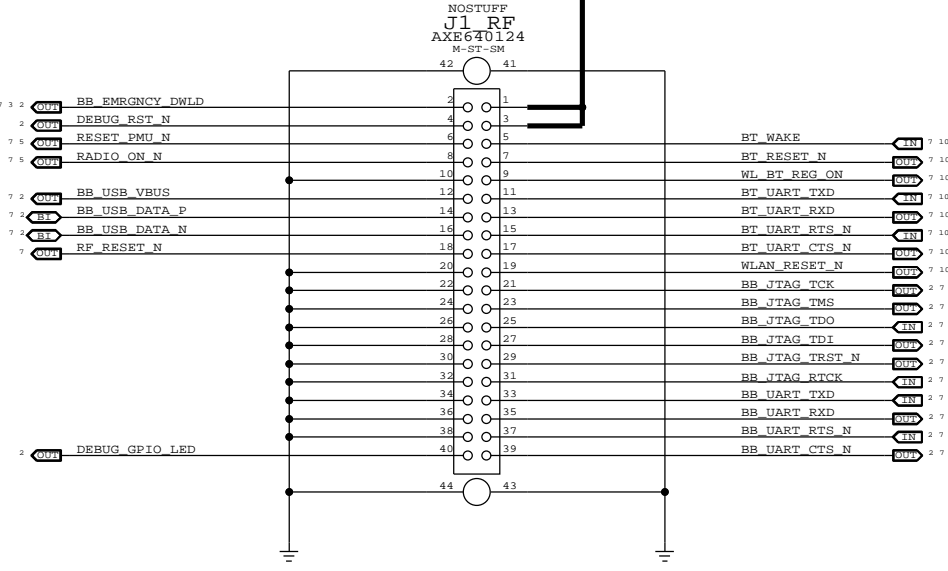
DIGITAL AUDIO



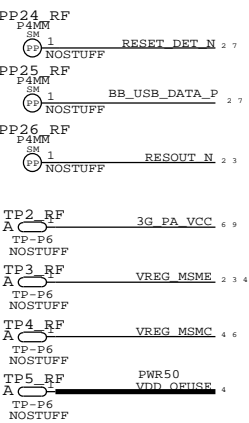
PMIC



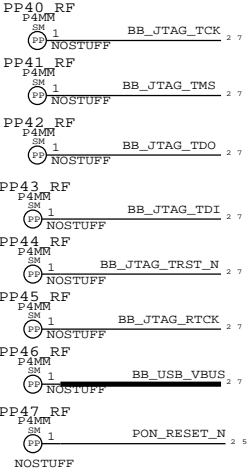
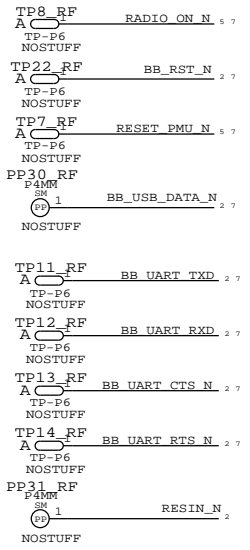
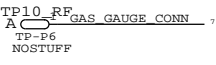
DEBUG CONNECTOR



CONTROL

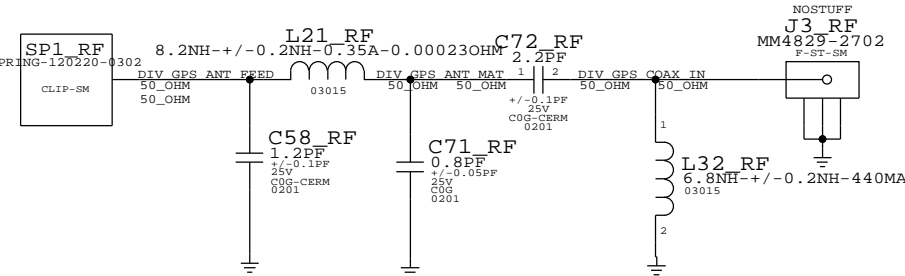


GAS GAUGE

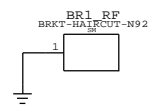


RX DIVERSITY & GPS LNA

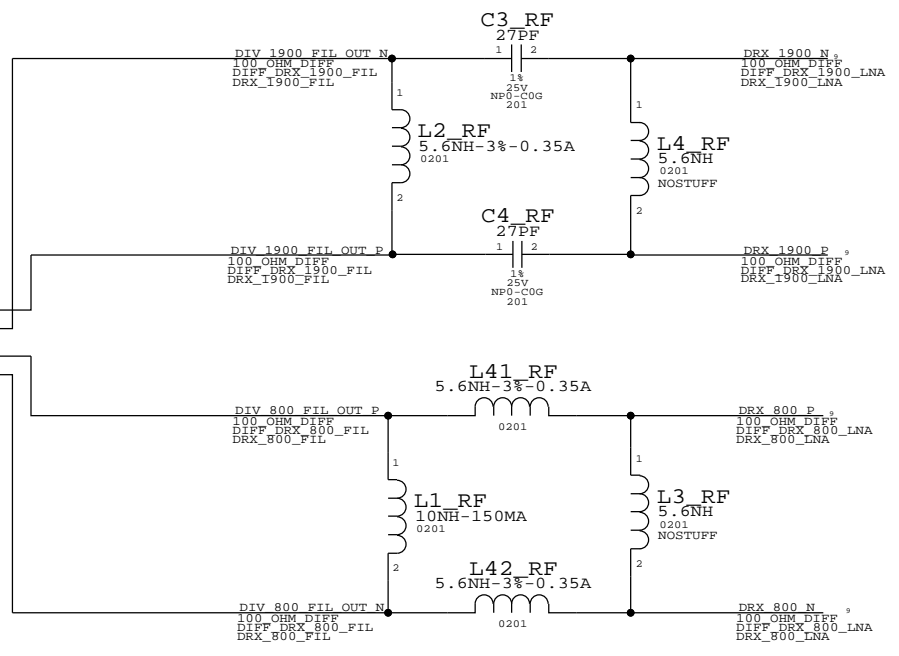
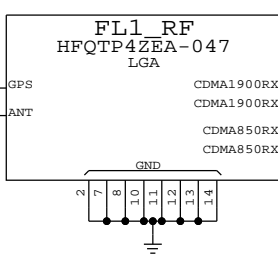
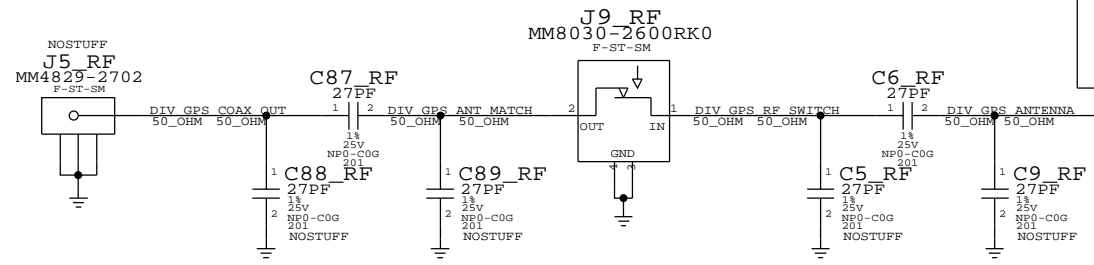
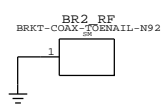
UPPER ANTENNA SPRING

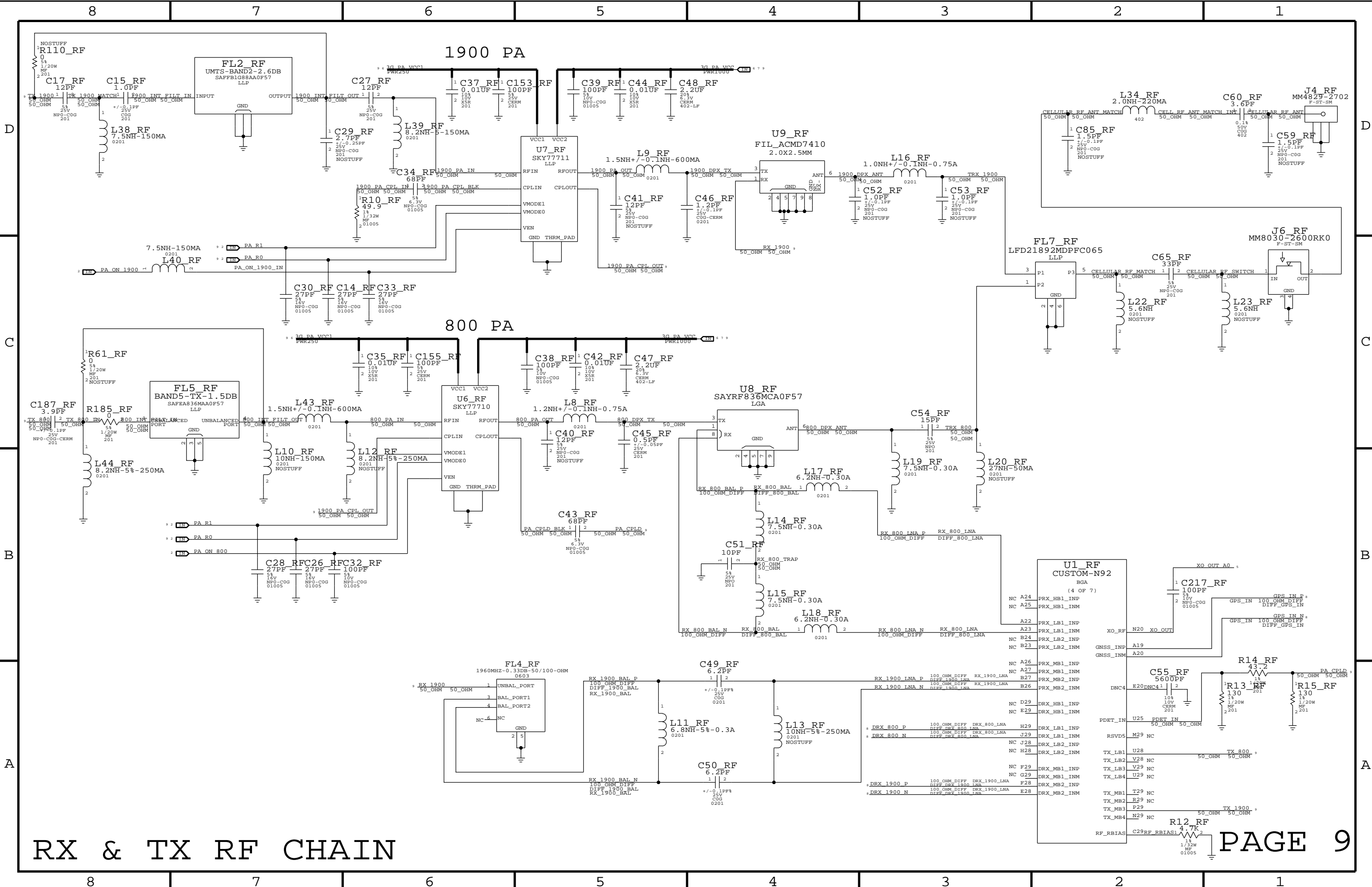


UPPER COAX CABLE STRAIN RELIEF

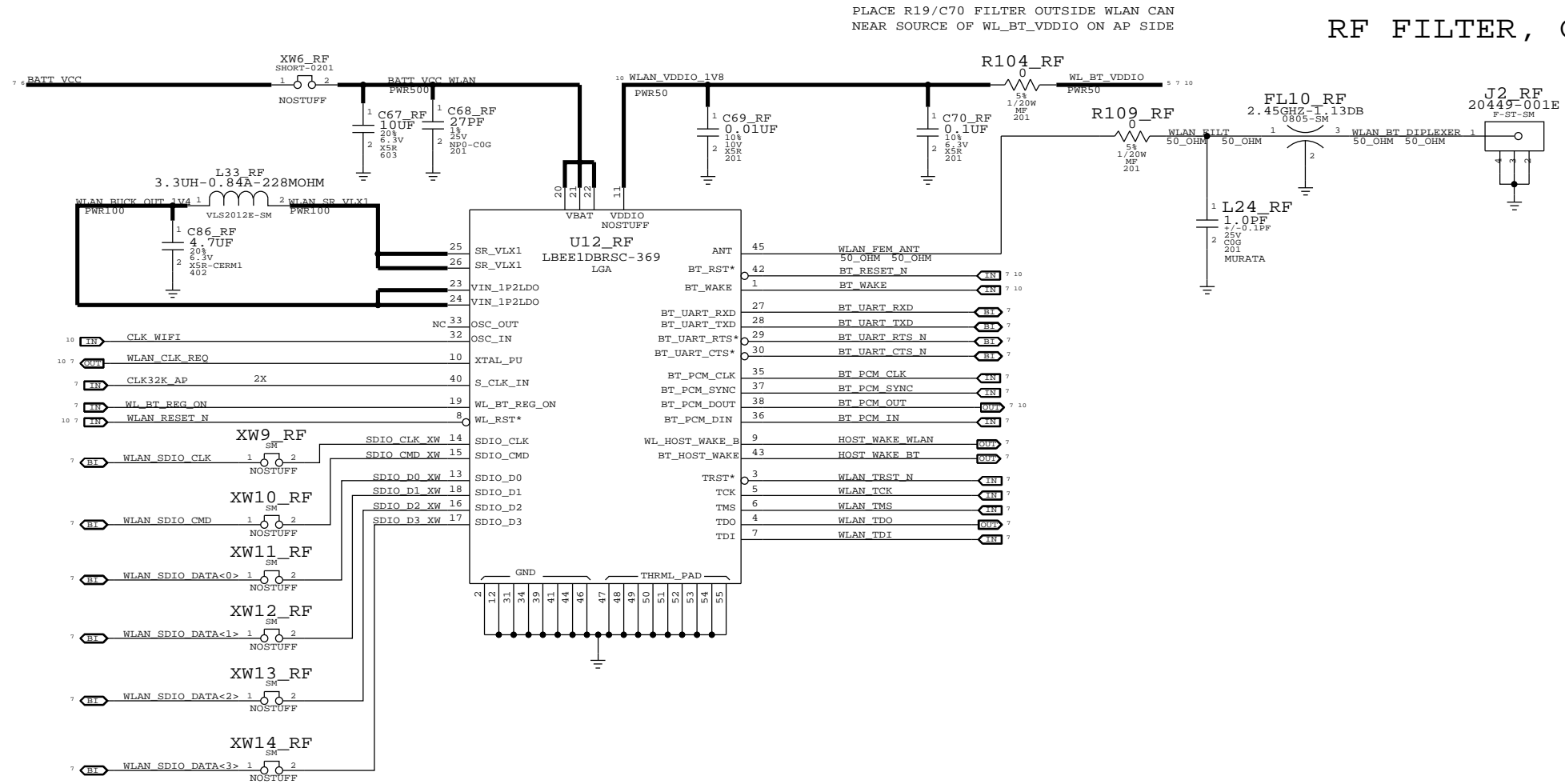


LOWER COAX CABLE STRAIN RELIEF

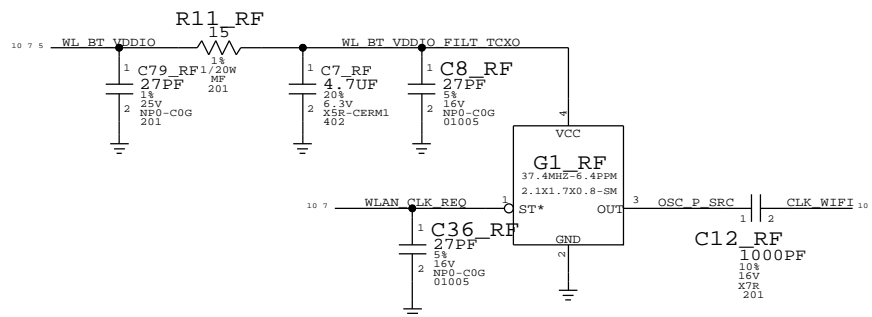




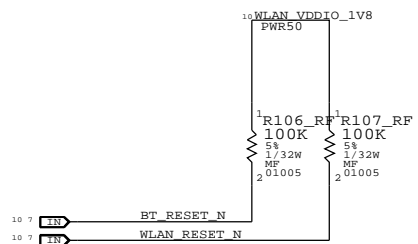
WLAN/BLUETOOTH RADIO



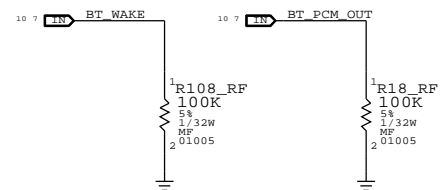
REFERENCE OSCILLATOR TCXO



PULL UP RESISTORS

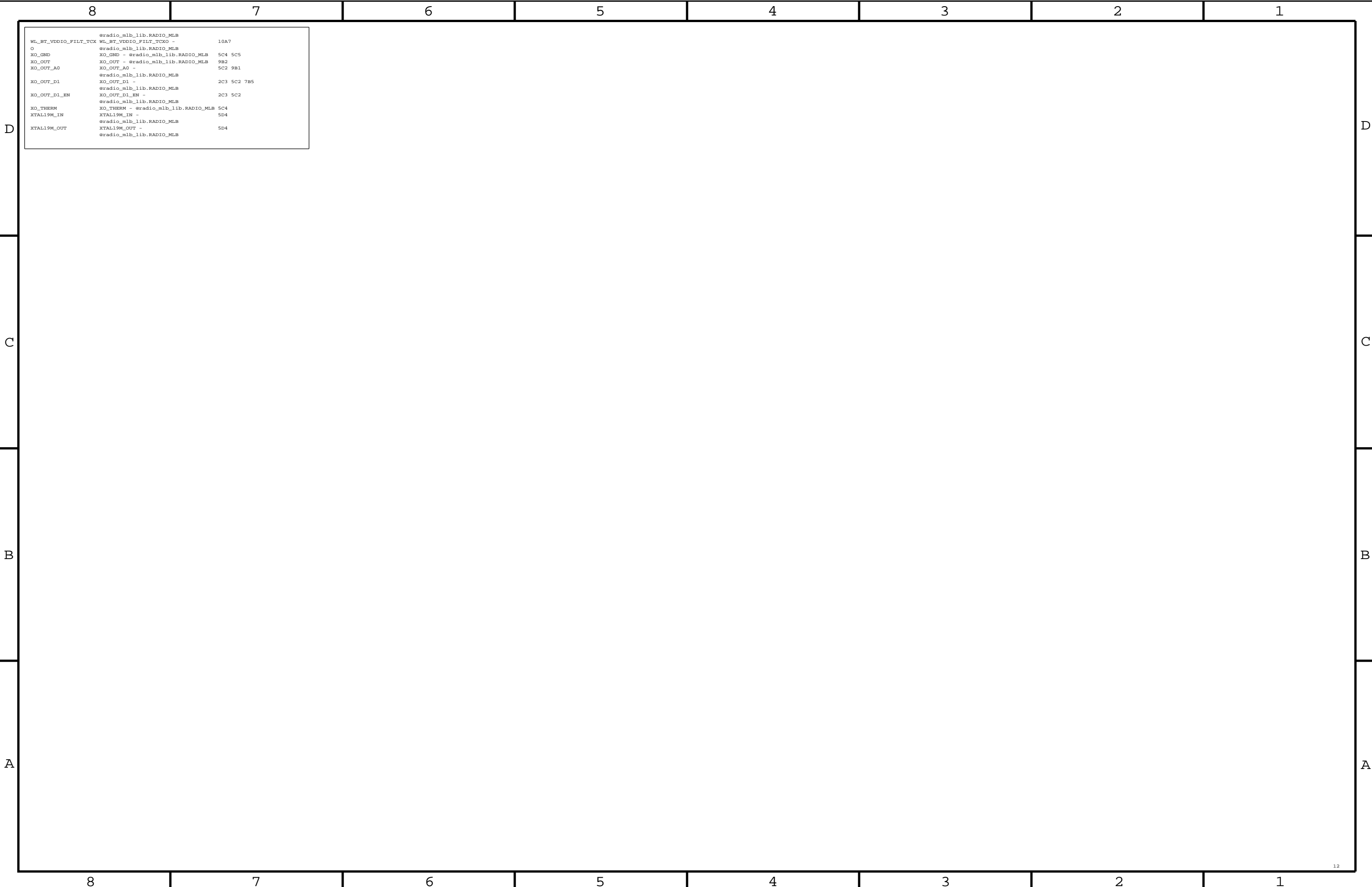


PULL DOWN RESISTORS



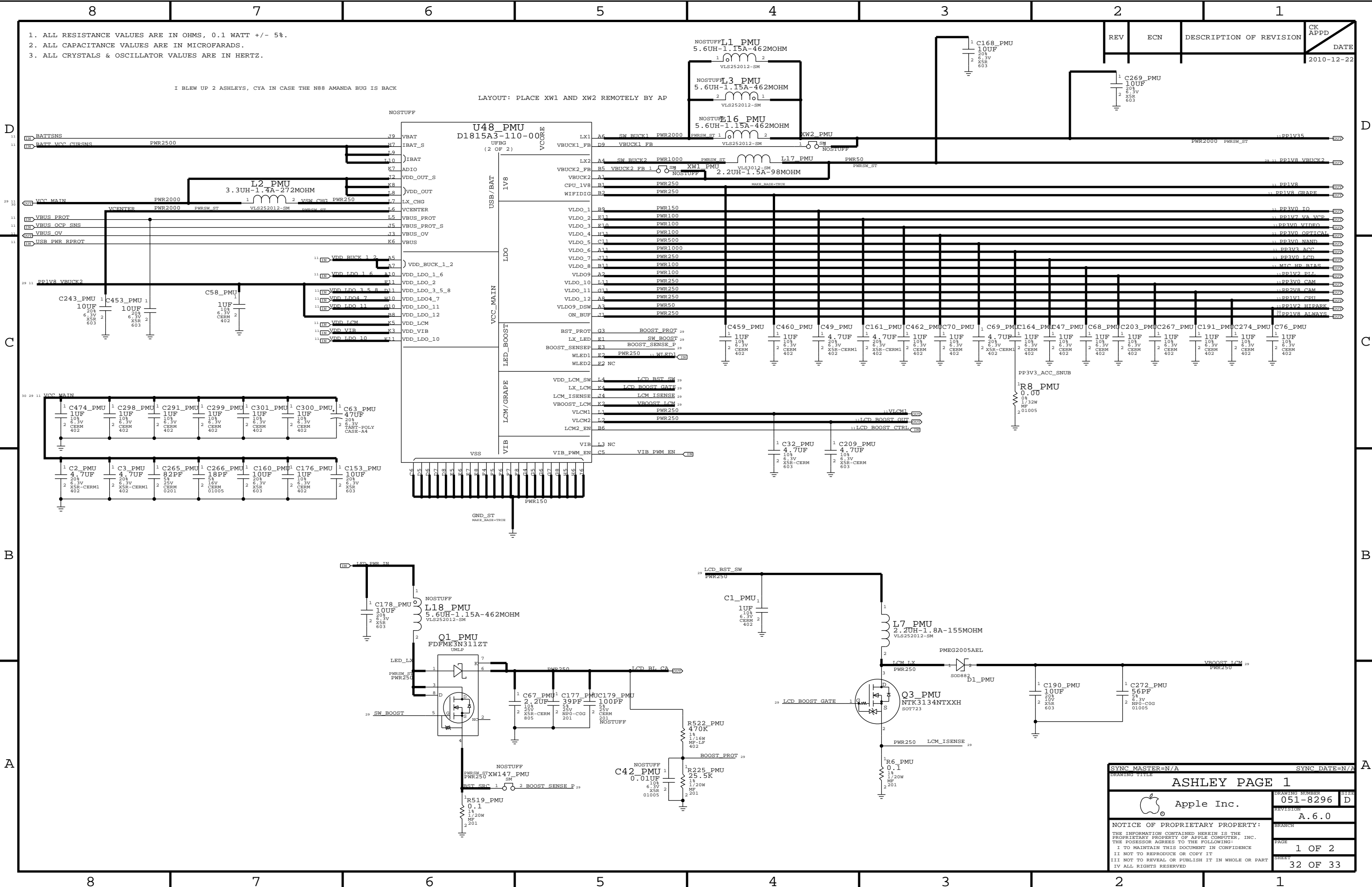
8				7				6				5				4				3				2				1			
D	Title: Basenet Report Design: radio_mlb Date: Dec 17 16:28:43 2010				BT_UART_CTS_N				BT_UART_CTS_N - @radio_mlb.lib.RADIO_MLB 7B8 7C2 10C5				L7				L7 - @radio_mlb.lib.RADIO_MLB 6A2				TX_1900				TX_1900 - @radio_mlb.lib.RADIO_MLB 9A1 9D8						
	Base nets and synonyms for radio_mlb.lib.RADIO_MLB(@radio_mlb.lib.radio_mlb(sch_1))				BT_UART_RTS_N				BT_UART_RTS_N - @radio_mlb.lib.RADIO_MLB 7B8 7C2 10C5				L9				L9 - @radio_mlb.lib.RADIO_MLB 6B2				TX_1900_MATCH				TX_1900_MATCH - @radio_mlb.lib.RADIO_MLB 9D8						
	Base Signal Synonyms Location([Zone][dir])				BT_UART_RXD				BT_UART_RXD - @radio_mlb.lib.RADIO_MLB 7B8 7C2 10C5				L10				L10 - @radio_mlb.lib.RADIO_MLB 6B2				VDD_1P3_DA				VDD_1P3_DA - @radio_mlb.lib.RADIO_MLB 4C4 6C7						
	3G_PA1_DCCDC_IN				3G_PA1_DCCDC_IN - @radio_mlb.lib.RADIO_MLB 6D3				BT_UART_TXD				L13				L13 - @radio_mlb.lib.RADIO_MLB 6B2				VDD_1P3_DRXLO				VDD_1P3_DRXLO - @radio_mlb.lib.RADIO_MLB 4C7 6D5						
	3G_PA_EN				3G_PA_EN - @radio_mlb.lib.RADIO_MLB 2B6 6D4				BT_WAKE				L16				L16 - @radio_mlb.lib.RADIO_MLB 6A4				VDD_1P3_GPSDIG				VDD_1P3_GPSDIG - @radio_mlb.lib.RADIO_MLB 4C7 6D4						
	3G_PA_VCC				3G_PA_VCC - @radio_mlb.lib.RADIO_MLB 6D1 7B4 9C4 9D4				CELLULAR_RF_ANT				L17				L17 - @radio_mlb.lib.RADIO_MLB 6A4				VDD_1P3_GPSIO				VDD_1P3_GPSIO - @radio_mlb.lib.RADIO_MLB 4C7 6D5						
	3G_PA_VCC1				3G_PA_VCC1 - @radio_mlb.lib.RADIO_MLB 6D1 9C7 9D6				CELLULAR_RF_ANT_MATCH				L18				L18 - @radio_mlb.lib.RADIO_MLB 6A2				VDD_1P3_GPSPLL				VDD_1P3_GPSPLL - @radio_mlb.lib.RADIO_MLB 4C7 6D7						
	3G_PA_VCCX				3G_PA_VCCX - @radio_mlb.lib.RADIO_MLB 6D2				CELLULAR_RF_MATCH				NAND_ALE				NAND_ALE - @radio_mlb.lib.RADIO_MLB 3B4 3B8				VDD_1P3_LNA				VDD_1P3_LNA - @radio_mlb.lib.RADIO_MLB 4C7 6D6						
	800_DPX_ANT				800_DPX_ANT - @radio_mlb.lib.RADIO_MLB 9C4				CELLULAR_RF_SWITCH				NAND_CE_N				NAND_CE_N - @radio_mlb.lib.RADIO_MLB 3C4				VDD_1P3_PDA				VDD_1P3_PDA - @radio_mlb.lib.RADIO_MLB 4C4 6C7						
	800_DPX_TX				800_DPX_TX - @radio_mlb.lib.RADIO_MLB 9C5				CELL_RF_ANT_MATCH_INT				NAND_CS1_N				NAND_CS1_N - @radio_mlb.lib.RADIO_MLB 3B8 3C6				VDD_1P3_PRXLO				VDD_1P3_PRXLO - @radio_mlb.lib.RADIO_MLB 4C7 6D4						
C	800_INT_FILT_IN				800_INT_FILT_IN - @radio_mlb.lib.RADIO_MLB 9C8				T				NAND_OE_N				NAND_OE_N - @radio_mlb.lib.RADIO_MLB 3B4 3B8				VDD_1P3_RDCO				VDD_1P3_RDCO - @radio_mlb.lib.RADIO_MLB 4C4 6D6						
	800_INT_FILT_OUT				800_INT_FILT_OUT - @radio_mlb.lib.RADIO_MLB 9C7				CLK32K_AP				NAND_R_B_N				NAND_R_B_N - @radio_mlb.lib.RADIO_MLB 2C6 3B1				VDD_1P3_RXPLL				VDD_1P3_RXPLL - @radio_mlb.lib.RADIO_MLB 4C4 6D7						
	800_PA_IN				800_PA_IN - @radio_mlb.lib.RADIO_MLB 9C6				CLK_WIFI				NAND_WE_N				NAND_WE_N - @radio_mlb.lib.RADIO_MLB 3B8 3C4				VDD_1P3_SBIDIG				VDD_1P3_SBIDIG - @radio_mlb.lib.RADIO_MLB 4C7 6C5						
	800_PA_OUT				800_PA_OUT - @radio_mlb.lib.RADIO_MLB 9C5				DCDC_ADJ				NTC				NTC - @radio_mlb.lib.RADIO_MLB 7A6 7D8				VDD_1P3_TDCO				VDD_1P3_TDCO - @radio_mlb.lib.RADIO_MLB 4C4 6C6						
	1900_DPX_ANT				1900_DPX_ANT - @radio_mlb.lib.RADIO_MLB 9D4				DC_DC_LX1				NTC_CONN				NTC_CONN - @radio_mlb.lib.RADIO_MLB 10A7				VDD_1P3_TXLO				VDD_1P3_TXLO - @radio_mlb.lib.RADIO_MLB 4C4 6C6						
	1900_DPX_TX				1900_DPX_TX - @radio_mlb.lib.RADIO_MLB 9D4				DDR_A<12..0>				OSC_P_SRC				OSC_P_SRC - @radio_mlb.lib.RADIO_MLB 10A7				VDD_1P3_TXMIX				VDD_1P3_TXMIX - @radio_mlb.lib.RADIO_MLB 4C4 6C5						
	1900_INT_FILT_IN				1900_INT_FILT_IN - @radio_mlb.lib.RADIO_MLB 9D8				DDR_A<15..14>				PA_CPLD				PA_CPLD - @radio_mlb.lib.RADIO_MLB 9A1 9B5				VDD_1P3_TXPLL				VDD_1P3_TXPLL - @radio_mlb.lib.RADIO_MLB 4C4 6C7						
	1900_INT_FILT_OUT				1900_INT_FILT_OUT - @radio_mlb.lib.RADIO_MLB 9D7				DDR_CAS_N				PA_CPLD_BLK				PA_CPLD_BLK - @radio_mlb.lib.RADIO_MLB 9B5				VDD_1P8_XO				VDD_1P8_XO - @radio_mlb.lib.RADIO_MLB 4C7 6B7						
	1900_PA_CPL_BLK				1900_PA_CPL_BLK - @radio_mlb.lib.RADIO_MLB 9D6				DDR_CKE0				PA_ON_800				PA_ON_800 - @radio_mlb.lib.RADIO_MLB 2B6 9B7				VDD_2P2_BIAS				VDD_2P2_BIAS - @radio_mlb.lib.RADIO_MLB 4C7 6A7						
	1900_PA_CPL_IN				1900_PA_CPL_IN - @radio_mlb.lib.RADIO_MLB 9D6				DDR_CLK_M				PA_ON_1900				PA_ON_1900 - @radio_mlb.lib.RADIO_MLB 2B6 9C8				VDD_2P2_PDDET				VDD_2P2_PDDET - @radio_mlb.lib.RADIO_MLB 4C4 6B7						
B	1900_PA_CPL_OUT				1900_PA_CPL_OUT - @radio_mlb.lib.RADIO_MLB 9B7 9C5				DDR_CLK_P				PA_ON_1900_IN				PA_ON_1900_IN - @radio_mlb.lib.RADIO_MLB 9C7				VDD_2P2_RDCO				VDD_2P2_RDCO - @radio_mlb.lib.RADIO_MLB 4C4 6A7						
	1900_PA_IN				1900_PA_IN - @radio_mlb.lib.RADIO_MLB 9D6				DDR_CS0_N				PA_R0				PA_R0 - @radio_mlb.lib.RADIO_MLB 2C2 9B7 9C7				VDD_2P2_TDCO				VDD_2P2_TDCO - @radio_mlb.lib.RADIO_MLB 4C4 6A7						
	1900_PA_OUT				1900_PA_OUT - @radio_mlb.lib.RADIO_MLB 9D5				DDR_DQ<15..0>				PA_R1				PA_R1 - @radio_mlb.lib.RADIO_MLB 2C2 9B7 9C7				VDD_A0				VDD_A0 - @radio_mlb.lib.RADIO_MLB 4C3						
	AP_PMU_EXTON				AP_PMU_EXTON - @radio_mlb.lib.RADIO_MLB 2C6 7C8				DDR_DQM0				PBL_EMER_DWLD				PBL_EMER_DWLD - @radio_mlb.lib.RADIO_MLB 2C6				VDD_QFUSE				VDD_QFUSE - @radio_mlb.lib.RADIO_MLB 4C4 7A4						
	BATSNS				BATSNS - @radio_mlb.lib.RADIO_MLB 7A5 7D8				DDR_DQM1				PDET_IN				PDET_IN - @radio_mlb.lib.RADIO_MLB 9A2				VDD_RF_DIG				VDD_RF_DIG - @radio_mlb.lib.RADIO_MLB 4C7 6B7						
	BATT_VCC				BATT_VCC - @radio_mlb.lib.RADIO_MLB 6D2 7A5 7B5 7D2 7D3 7D8 10D8				DDR_DQS0				RADIO_ON_N				RADIO_ON_N - @radio_mlb.lib.RADIO_MLB 5B6 7B2 7C4 7D8				VREG_GP_1P2				VREG_GP_1P2 - @radio_mlb.lib.RADIO_MLB 4C4 6A1						
	BATT_VCC_RADIO				BATT_VCC_RADIO - @radio_mlb.lib.RADIO_MLB 5B4 5C8 6A7 6B7 6B7 7D2				DDR_DQS1				REF_BYP				REF_BYP - @radio_mlb.lib.RADIO_MLB 6C5				VREG_GP_1P8				VREG_GP_1P8 - @radio_mlb.lib.RADIO_MLB 4C1 6A1 6B8						
	BATT_VCC_WLAN				BATT_VCC_WLAN - @radio_mlb.lib.RADIO_MLB 10D7				DDR_RAS_N				RESET_DET_N				RESET_DET_N - @radio_mlb.lib.RADIO_MLB 2C6 7B4 7D8				VREG_GP_2P05				VREG_GP_2P05 - @radio_mlb.lib.RADIO_MLB 4C1 6B1						
	BB_DWLD_GATE				BB_DWLD_GATE - @radio_mlb.lib.RADIO_MLB 3C5				DEBUC_GPIO_LED				RESET_PMU_N				RESET_PMU_N - @radio_mlb.lib.RADIO_MLB 5A8 7B2 7C4 7D3 7D8				VREG_MPLL				VREG_MPLL - @radio_mlb.lib.RADIO_MLB 4C1 6A1						
	BB_EMRGNCY_DWLD				BB_EMRGNCY_DWLD - @radio_mlb.lib.RADIO_MLB 2C5 3C6 7C4 7C8				DEBUC_RST_N				RESET_PMU_N_BUFFER				RESET_PMU_N_BUFFER - @radio_mlb.lib.RADIO_MLB 5B6				VREG_MSMMC				VREG_MSMMC - @radio_mlb.lib.RADIO_MLB 4B1 4B4 6C1 7A4						
A	BB_I2S2_2_CLK				BB_I2S2_2_CLK - @radio_mlb.lib.RADIO_MLB 2B8				DIV_800_FIL_OUT_N				RESET_PMU_N_FET				RESET_PMU_N_FET - @radio_mlb.lib.RADIO_MLB 7D3				VREG_MSME				VREG_MSME - @radio_mlb.lib.RADIO_MLB 2A5 2A8 2D5 3B1 3C5 3D1						
	BB_I2S2_2_WA0				BB_I2S2_2_WA0 - @radio_mlb.lib.RADIO_MLB 2B8				DIV_800_FIL_OUT_P				RESIN_N				RESIN_N - @radio_mlb.lib.RADIO_MLB 2C3 7A2				VREG_QFUSE				VREG_QFUSE - @radio_mlb.lib.RADIO_MLB 4C4 6B1						
	BB_I2S2_CLK				BB_I2S2_CLK - @radio_mlb.lib.RADIO_MLB 2C8 7C8				DIV_1900_FIL_OUT_N				RESOUT_N				RESOUT_N - @radio_mlb.lib.RADIO_MLB 2C2 3B4 7B4				VREG_RF1_1P3				VREG_RF1_1P3 - @radio_mlb.lib.RADIO_MLB 4C4 6C1 6C8						
	BB_I2S2_RX				BB_I2S2_RX - @radio_mlb.lib.RADIO_MLB 2B8 7C8				DIV_1900_FIL_OUT_P				REV_ID<0>				REV_ID<0> - @radio_mlb.lib.RADIO_MLB 2A8 2C6				VREG_RF1_1P3_RX				VREG_RF1_1P3_RX - @radio_mlb.lib.RADIO_MLB 4C4 4C7 6C1 6D8						
	BB_I2S2_TX				BB_I2S2_TX - @radio_mlb.lib.RADIO_MLB 2C8 7C8				DIV_GPS_ANTENNA				REV_ID<1>				REV_ID<1> - @radio_mlb.lib.RADIO_MLB 2A8 2C6				VREG_RF2_2P2				VREG_RF2_2P2 - @radio_mlb.lib.RADIO_MLB 4C4 4C7 6B1 6B8						
	BB_I2S2_WA0				BB_I2S2_WA0 - @radio_mlb.lib.RADIO_MLB 2C8 7C8				DIV_GPS_ANT_FEED				REV_ID<2>				REV_ID<2> - @radio_mlb.lib.RADIO_MLB 2A8 2C6				VREG_RFA_2P2				VREG_RFA_2P2 - @radio_mlb.lib.RADIO_MLB 5C5 6B1						
	BB_JTAG_RTCK				BB_JTAG_RTCK - @radio_mlb.lib.RADIO_MLB 2C2 7A1 7C2				DIV_GPS_ANT_MAT				REV_ID<3>				REV_ID<3> - @radio_mlb.lib.RADIO_MLB 2A8 2C6				VREG_RF_SW				VREG_RF_SW - @radio_mlb.lib.RADIO_MLB 6B1 8D6						
	BB_JTAG_TCK				BB_JTAG_TCK - @radio_mlb.lib.RADIO_MLB 2C3 7B1 7C2				DIV_GPS_ANT_MATCH				REV_ID<4>				REV_ID<4> - @radio_mlb.lib.RADIO_MLB 2A8 2C6				VREG_RF_SW_GPS_LNA				VREG_RF_SW_GPS_LNA - @radio_mlb.lib.RADIO_MLB 8C5						
	BB_JTAG_TDI				BB_JTAG_TDI - @radio_mlb.lib.RADIO_MLB 2C3 7B1 7C2				DIV_GPS_COAX_IN				RF_RB1AS				RF_RB1AS - @radio_mlb.lib.RADIO_MLB 9A2				VREG_SDCC1				VREG_SDCC1 - @radio_mlb.lib.RADIO_MLB 4C1 6A1						
	BB_JTAG_TDO				BB_JTAG_TDO - @radio_mlb.lib.RADIO_MLB 2C2 7B1 7C2				DIV_GPS_COAX_OUT				RF_RESET_N				RF_RESET_N - @radio_mlb.lib.RADIO_MLB 7C4 7D8				VREG_USB_3P075				VREG_USB_3P075 - @radio_mlb.lib.RADIO_MLB 4C1 6B1						

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

8			7			6			5			4			3			2			1			
D	Title: Cref Part Report Design: radio_mlb Date: Dec 17 16:28:43 2010																							
	BR1	BRACKET_1P_SM	radio_mlb[8C8]				C144	CAP_603	radio_mlb[685]				L54	IND_0201	radio_mlb[8C5]				TP11	TP_TP-P6	radio_mlb[7B3]			
	BR2	BRACKET_1P_SM	radio_mlb[8B8]				C145	CAP_402	radio_mlb[686]				L60	IND_03015	radio_mlb[8C6]				TP12	TP_TP-P6	radio_mlb[7A3]			
	C1	CAP_0201-MUR	radio_mlb[7D3]				C146	CAP_201	radio_mlb[6A6]				L61	IND_VLS2012E-SM	radio_mlb[6C3]				TP13	TP_TP-P6	radio_mlb[7A3]			
	C2	CAP_201	radio_mlb[5A8]				C147	CAP_201	radio_mlb[6A6]				L62	IND_VLS2012E-SM	radio_mlb[6C3]				TP14	TP_TP-P6	radio_mlb[7A3]			
	C3	CAP_201	radio_mlb[8B3]				C148	CAP_402	radio_mlb[6D4]				L63	IND_VLS2012E-SM	radio_mlb[6C3]				TP22	TP_TP-P6	radio_mlb[7B3]			
	C4	CAP_201	radio_mlb[8B3]				C149	CAP_01005	radio_mlb[5C8]				L64	IND_VLS2012E-SM	radio_mlb[6B3]				TP33	TP_TP-P6	radio_mlb[7B5]			
	C5	CAP_201	radio_mlb[8A6]				C150	CAP_603	radio_mlb[6D2]				PP1	PROBEPOINT_SM	radio_mlb[7C5]				TP34	TP_TP-P6	radio_mlb[7B5]			
	C6	CAP_201	radio_mlb[8B6]				C151	CAP_201	radio_mlb[6D2]				PP2	PROBEPOINT_SM	radio_mlb[7C5]				U1	BGA486_CUSTOM_N92_BG	radio_mlb[2D7 2D3]			
	C7	CAP_402	radio_mlb[10A8]				C152	CAP_603	radio_mlb[6C3]				PP3	PROBEPOINT_SM	radio_mlb[7C5]				U1	A				
C	C8	CAP_01005	radio_mlb[10A7]				C153	CAP_201	radio_mlb[9D6]				PP4	PROBEPOINT_SM	radio_mlb[7B5]				U1	BGA486_CUSTOM_N92_BG	radio_mlb[3D7]			
	C9	CAP_201	radio_mlb[8A5]				C154	CAP_603	radio_mlb[6C3]				PP7	PROBEPOINT_SM	radio_mlb[7D5]				U1	A				
	C10	CAP_201	radio_mlb[5B6]				C155	CAP_201	radio_mlb[9C6]				PP8	PROBEPOINT_SM	radio_mlb[7D5]				U1	BGA486_CUSTOM_N92_BG	radio_mlb[4C3 4D6 4C7]			
	C12	CAP_201	radio_mlb[10A5]				C157	CAP_603	radio_mlb[6C3]				PP9	PROBEPOINT_SM	radio_mlb[7D5]				U1	A				
	C13	CAP_201	radio_mlb[8C6]				C159	CAP_603	radio_mlb[6B3]				PP10	PROBEPOINT_SM	radio_mlb[7D5]				U2	BGA486_CUSTOM_N92_BG	radio_mlb[9B2]			
	C14	CAP_01005	radio_mlb[9C7]				C160	CAP_402	radio_mlb[6A1]				PP11	PROBEPOINT_SM	radio_mlb[7D5]				U2	A				
	C15	CAP_201	radio_mlb[9D8]				C161	CAP_402	radio_mlb[6A4]				PP12	PROBEPOINT_SM	radio_mlb[7C5]				U3	SDRAM_EEPROM_4MX16X4	radio_mlb[3D4]			
	C16	CAP_201	radio_mlb[8C6]				C162	CAP_402	radio_mlb[6A4]				PP13	PROBEPOINT_SM	radio_mlb[7C5]				U3	_I30BGA_TFBGA				
	C17	CAP_201	radio_mlb[9D8]				C163	CAP_402	radio_mlb[6A3]				PP14	PROBEPOINT_SM	radio_mlb[7B5]				U3	PWRMGR_FU_BGA136_BGA	radio_mlb[5B3 5D3 5B6 5D7]			
	C18	CAP_201	radio_mlb[7A7]				C166	CAP_402-LF	radio_mlb[6A2]				PP15	PROBEPOINT_SM	radio_mlb[7B5]				U4	PWRMGR_FU_BGA136_BGA	radio_mlb[6C5]			
B	C19	CAP_201	radio_mlb[8C5]				C167	CAP_402	radio_mlb[6A3]				PP16	PROBEPOINT_SM	radio_mlb[7B5]				U4	SN74LVC1G11_BGA	radio_mlb[2C4]			
	C20	CAP_201	radio_mlb[8C4]				C168	CAP_402-LF	radio_mlb[6A2]				PP17	PROBEPOINT_SM	radio_mlb[7B5]				U5	MAX8839L_WLP	radio_mlb[6D3]			
	C21	CAP_201	radio_mlb[8C4]				C169	CAP_402	radio_mlb[6A2]				PP18	PROBEPOINT_SM	radio_mlb[7B5]				U6	AMP_SKY77710_LL	radio_mlb[9C6]			
	C22	CAP_201	radio_mlb[8C4]				C170	CAP_402	radio_mlb[6A2]				PP24	PROBEPOINT_SM	radio_mlb[7B4]				U7	AMP_SKY77711_LL	radio_mlb[9D5]			
	C23	CAP_01005	radio_mlb[6C7]				C171	CAP_01005	radio_mlb[5C4]				PP25	PROBEPOINT_SM	radio_mlb[7B4]				U8	FIL_SAYRF836MCA0F57	radio_mlb[9C4]			
	C24	CAP_01005	radio_mlb[8C3]				C172	CAP_402	radio_mlb[6A2]				PP26	PROBEPOINT_SM	radio_mlb[7B4]				U9	LGA				
	C25	CAP_01005	radio_mlb[8C3]				C174	CAP_01005	radio_mlb[5C5]				PP30	PROBEPOINT_SM	radio_mlb[7B3]				U9	FIL_ACMDD7410_2.0X2.5	radio_mlb[9D4]			
	C26	CAP_01005	radio_mlb[9B7]				C178	CAP_402-LF	radio_mlb[6A4]				PP31	PROBEPOINT_SM	radio_mlb[7A3]				U10	RH				
	C27	CAP_201	radio_mlb[9D6]				C179	CAP_01005	radio_mlb[6D5]				PP40	PROBEPOINT_SM	radio_mlb[7B2]				U10	SN74AUC1G32_BGA-YZP	radio_mlb[3C5]			
	C28	CAP_01005	radio_mlb[9B7]				C180	CAP_201	radio_mlb[6D4]				PP41	PROBEPOINT_SM	radio_mlb[7B2]				U11	74LVC1G04_SOT891	radio_mlb[5B8]			
A	C29	CAP_201	radio_mlb[9D7]				C181	CAP_01005	radio_mlb[6C6]				PP42	PROBEPOINT_SM	radio_mlb[7B2]				U12	MOD_WICF1_BT_UNQ_LGA5	radio_mlb[10C7]			
	C30	CAP_01005	radio_mlb[9C7]				C182	CAP_0201	radio_mlb[6C5]				PP43	PROBEPOINT_SM	radio_mlb[7B2]				U13	5_LGA				
	C31	CAP_01005	radio_mlb[9B7]				C183	CAP_01005	radio_mlb[6D5]				PP44	PROBEPOINT_SM	radio_mlb[7B2]				U33	PPF1039_CSP	radio_mlb[7D2]			
	C33	CAP_01005	radio_mlb[9C6]				C184	CAP_01005	radio_mlb[6D4]				PP45	PROBEPOINT_SM	radio_mlb[7A2]				U33	XM1500LB_QFN	radio_mlb[8C5]			
	C34	CAP_01005	radio_mlb[9D6]				C187	CAP_201	radio_mlb[9C8]				PP46	PROBEPOINT_SM	radio_mlb[7A2]				XW1	SHORT10L25_WITH_ALTS	radio_mlb[7A6]			
	C35	CAP_201	radio_mlb[9C6]				C188	CAP_01005	radio_mlb[6C5]				PP47	PROBEPOINT_SM	radio_mlb[7A2]					_SM				
	C36	CAP_01005	radio_mlb[10A7]				C189	CAP_201	radio_mlb[6D4]				PP52	PROBEPOINT_SM	radio_mlb[2B6]				XW2	SHORT_SM	radio_mlb[6C3]			
	C37	CAP_201	radio_mlb[9D6]				C200	CAP_402	radio_mlb[6C6]				PP53	PROBEPOINT_SM	radio_mlb[2B6]				XW3	SHORT_SM	radio_mlb[6C3]			
	C38	CAP_01005	radio_mlb[9C5]				C201	CAP_402-1	radio_mlb[6D7]				PP58	PROBEPOINT_SM	radio_mlb[2B8]				XW4	SHORT_SM	radio_mlb[6C3]			
	C39	CAP_01005	radio_mlb[9D5]				C202	CAP_402	radio_mlb[6C7]				PP71	PROBEPOINT_SM	radio_mlb[2C4]				XW5	SHORT_SM	radio_mlb[6B3]			
A	C40	CAP_201	radio_mlb[9C5]				C203	CAP_402-1	radio_mlb[6C7]				PP72	PROBEPOINT_SM	radio_mlb[2C4]				XW6	SHORT_SHORT-0201	radio_mlb[10D7]			
	C41	CAP_201	radio_mlb[9D5]				C204	CAP_402	radio_mlb[6D6]				PP73	PROBEPOINT_SM	radio_mlb[2C4]				XW7	SHORT10LP25_WITH_ALT	radio_mlb[5C3]			
	C42	CAP_201	radio_mlb[9C5]				C205	CAP_402-1	radio_mlb[6C7]				Q1	TRA_MOSFET_NCHN_3P_S	radio_mlb[5B7]					S_SHORT-10L-0.25MM-S				
	C43	CAP_01005	radio_mlb[9B5]				C206	CAP_402	radio_mlb[6B7]				R1	RES_201	radio_mlb[3B2]				XW9	SHORT_SM	radio_mlb[10C7]			
	C44	CAP_201	radio_mlb[9D5]				C217	CAP_01005	radio_mlb[9B2]				R2	RES_201	radio_mlb[2D4]				XW10	SHORT_SM	radio_mlb[10C7]			
	C45	CAP_201	radio_mlb[9C5]				C225	CAP_201	radio_mlb[8C5]				R3	RES_201	radio_mlb[2D4]				XW11	SHORT_SM	radio_mlb[10B7]			
	C46	CAP_0201	radio_mlb[9D4]				FL1	MOD_HPQTF4EAO47_LGA	radio_mlb[8B5]				R4	RES_201	radio_mlb[2C4]				XW12	SHORT_SM	radio_mlb[10B7]			
	C47	CAP_402-LF	radio_mlb[9C5]				FL2	FILTER_SAFPBIG88AA0F	radio_mlb[9D7]				R5	RES_402	radio_mlb[6D4]				XW13	SHORT_SM				



- 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.

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


LAYOUT: PLACE XW1 AND XW2 REMOTELY BY AP

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				2010-12-22

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FILTER CAPS AND XW LINKS SHOULD BE PLACED NEAR PMU

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