

N90 SINGLE_BRD (MLB) PROTO_1 Mon Apr 13 17:09:40 2009

PAGE CONTENTS
02 RADIO AND AP SCHEMATIC INSTANTIATION

NAND BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-7921	1	N90_SCHEMATIC_TOP	SCH	Y	?
820-2548	1	N90_SINGLE_BOARD	PCB	Y	?

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0650	1	32GB TOSHIBA 43NM FLASH TLGA52	U1_AP	Y	FLASH_8GB
335S0642	1	16GB SAMSUNG 42NM FLASH TLGA52	U1_AP	Y	FLASH_16GB

WIFI/BT BOM OPTIONS

N90 EEE BOM LABELS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
825-2029	1	EEE FOR 630-9941 (16G)	EEE:6LU	Y	FLASH_16GB

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S0092	1	MURATA WIFI_BT MODULE	U2_RF	Y	MURATA
339S0091	1	USI WIFI_BT MODULE	U2_RF	Y	USI
117S0006	1	MURATA ID RESISTOR	R47_RF	Y	MURATA
117S0006	1	USI ID RESISTOR	R46_RF	Y	USI

BOARD - 820-2548
SCHEMATIC - 051-7921
BOM - 630-9941 (16GB)
MCO - 056-3008

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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7921	01
SCALE	SHT	1 OF 3	
NONE			

AP		
I8		
RESET_PMU_L	RESET_PMU_L	
RADIO_ON	RADIO_ON	
BB_RST_L	BB_RST_L	
AP_PMU_EXTON	AP_PMU_EXTON	
SIM_VCC	VSIM	
BATTSENS	BATTSENS	
BATTERY_SWI	BATTERY_SWI	
AP_UART1_CTS_L	BB_USART0_RTS_L	
AP_UART1_RXD	BB_USART0_TXD	
AP_UART1_RTS_L	BB_USART0_CTS_L	
AP_UART1_TXD	BB_USART0_RXD	
AP_I2S2_BCLK	AP_I2S2_BCLK	
AP_I2S2_DOUT	AP_I2S2_DOUT	
AP_I2S2_DIN	AP_I2S2_DIN	
AP_I2S2_LRCLK	AP_I2S2_LRCLK	
VLCM1	BB_USB_VBUS	
AP_SUB	BB_FLASH_ACTIVE_L	
BB_FLASH_ACTIVE_L	RESET_I1V8_L	
RESET_I1V8_L	RESET_DET_L	
RESET_DET_L	BT_WAKE	
BT_WAKE	WLAN_RESET_L	
WLAN_RESET_L	WLAN_SDIO_CLK	
WLAN_SDIO_CLK	WLAN_SDIO_CMD	
WLAN_SDIO_CMD	WLAN_SDIO_DATA<3..0>	
WLAN_SDIO_DATA<3..0>	SIMCRD_IO	
SIMCRD_IO	SIMCRD_CLK	
SIMCRD_CLK	SIMCRD_RST	
SIMCRD_RST	SIM_DETECT	
SIM_DETECT	BT_I2S_BCLK	
HP_PCM1_I2S_BCLK	BT_I2S_DOUT	
HP_PCM1_I2S_DIN	BT_I2S_LRCLK	
HP_PCM1_I2S_LRCLK	BT_I2S_DIN	
HP_PCM1_I2S_DOUT	BT_UART_RXD	
BT_UART_RXD	BT_UART_TXD	
BT_UART_TXD	BT_UART_RTS_L	
BT_UART_RTS_L	BT_UART_CTS_L	
BT_UART_CTS_L	BT_RESET_L	
BT_RESET_L	IPC_MOSI	
IPC_MOSI	IPC_MISO	
IPC_MISO	IPC_SCLK	
IPC_SCLK	IPC_SRDY	
IPC_SRDY	IPC_MRDY	
IPC_MRDY	BB_USB_P	
BB_USB_P	BB_USB_N	
BB_USB_N	NTC	
NTC	BATT_VCC	
BATT_VCC	UMTS_RXD	
UMTS_RXD	UMTS_TXD	
UMTS_TXD	FM_ANT	
FM_ANT	BB_I2S1_CLK	
BB_I2S1_CLK	BB_I2S1_TX	
BB_I2S1_TX	BB_I2S1_RX	
BB_I2S1_RX	BB_I2S1_WA0	
BB_I2S1_WA0	FM_I2S_SCK	
FM_I2S_SCK	FM_I2S_WS	
FM_I2S_WS	FM_I2S_SDO	
FM_I2S_SDO	FM_ANT	
FM_ANT	GPS_INTR_L	
GPS_INTR_L	GPS_STANDBY_AP_L	
GPS_STANDBY_AP_L	GPS_RESET_AP_L	
GPS_RESET_AP_L	GPS_SYNC	
GPS_SYNC	GPS_SDA_UART_TX	
GPS_SDA_UART_TX	GPS_SCL_UART_RX	
GPS_SCL_UART_RX	WL_BT_REG_ON	
WL_BT_REG_ON	PP1V8_SDRAM	
PP1V8_SDRAM	WLAN_HOST_WAKE	
WLAN_HOST_WAKE	BT_HOST_WAKE	
BT_HOST_WAKE	CLK_32K_WIFI	
CLK_32K_WIFI		

LOCATED ON PP <CREF_TO_LIST>

BATT_VCC	BATT_VCC	
BATTSENS	BATTSENS	
NTC	NTC	
BATTERY_SWI	GAS_GAUZE	
RESET_I1V8_L	RF_RESET_N	
RADIO_ON	RADIO_ON	
RESET_PMU_L	RESET_PMU_N	
GSM_TXBURST_IND	GSM_TXBURST_IND	
BB_RST_L	BB_RST_REQ_N	
RESET_DET_L	RESET_DET_N	
IPC_MRDY	IPC_MRDY	
IPC_SRDY	IPC_SRDY	
IPC_SCLK	IPC_SCLK	RADIO_MLB
IPC_MOSI	IPC_MOSI	
IPC_MISO	IPC_MISO	
BB_FLASH_ACTIVE_L	IPC_GPIO	
AP_PMU_EXTON	AP_PMU_EXTON	
BB_USB_VBUS	BB_USB_VBUS	
BB_USB_P	BB_USB_DATA_P	
BB_USB_N	BB_USB_DATA_N	
BB_USART0_TXD	BB_USART0_TXD	
BB_USART0_RXD	BB_USART0_RXD	
BB_USART0_RTS_L	BB_USART0_RTS_N	
BB_USART0_CTS_L	BB_USART0_CTS_N	
UMTS_TXD	UMTS_TXD	
UMTS_RXD	UMTS_RXD	
BB_I2S1_CLK	BB_I2S1_CLK	
BB_I2S1_WA0	BB_I2S1_WA0	
BB_I2S1_TX	BB_I2S1_TX	
BB_I2S1_RX	BB_I2S1_RX	
AP_I2S2_BCLK	BB_I2S2_CLK	
AP_I2S2_LRCLK	BB_I2S2_WA0	
AP_I2S2_DIN	BB_I2S2_TX	
AP_I2S2_DOUT	BB_I2S2_RX	
VSIM	VSIM_VAR	
SIM_DETECT	SIM_DETECT	
SIMCRD_RST	SIMCRD_RST	
SIMCRD_CLK	SIMCRD_CLK	
SIMCRD_IO	SIMCRD_IO	
PP1V8_SDRAM	WL_BT_VDDIO	
WL_BT_REG_ON	WL_BT_REG_ON	
CLK_32K_WIFI	CLK32K_AP	
WLAN_RESET_L	WLAN_RESET_N	
WLAN_SDIO_CLK	WLAN_SDIO_CLK	
WLAN_SDIO_CMD	WLAN_SDIO_CMD	
WLAN_SDIO_DATA<3..0>	WLAN_SDIO_DATA<3..0>	
WLAN_HOST_WAKE	HOST_WAKE_WLAN	
BT_HOST_WAKE	HOST_WAKE_BT	
BT_RESET_L	BT_RESET_N	
BT_WAKE	BT_WAKE	
BT_UART_TXD	BT_UART_TXD	
BT_UART_RXD	BT_UART_RXD	
BT_UART_RTS_L	BT_UART_RTS_N	
BT_UART_CTS_L	BT_UART_CTS_N	
BT_I2S_BCLK	BT_PCM_CLK	
BT_I2S_LRCLK	BT_PCM_SYNC	
BT_I2S_DOUT	BT_PCM_OUT	
BT_I2S_DIN	BT_PCM_IN	
FM_I2S_SCK	FM_I2S_SCK	
FM_I2S_WS	FM_I2S_WS	
FM_I2S_SDO	FM_I2S_SDO	
FM_ANT	FM_ANT	
GPS_RESET_AP_L	GPS_RESET_N_AP	
GPS_STANDBY_AP_L	GPS_STANDBY_N_AP	
GPS_SDA_UART_TX	GPS_SDA_UART_TX	
GPS_SCL_UART_RX	GPS_SCL_UART_RX	
GPS_UART_RTS_N	GPS_UART_RTS_N	
GPS_UART_CTS_N	GPS_UART_CTS_N	
GPS_INTR_L	GPS_INTR_N	
GPS_SYNC	GPS_SYNC	

LOCATED ON PP <CREF_TO_LIST>

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APPLE INC.

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SCALE	SHT	OF
NONE	2	3

8

7

6

5

4

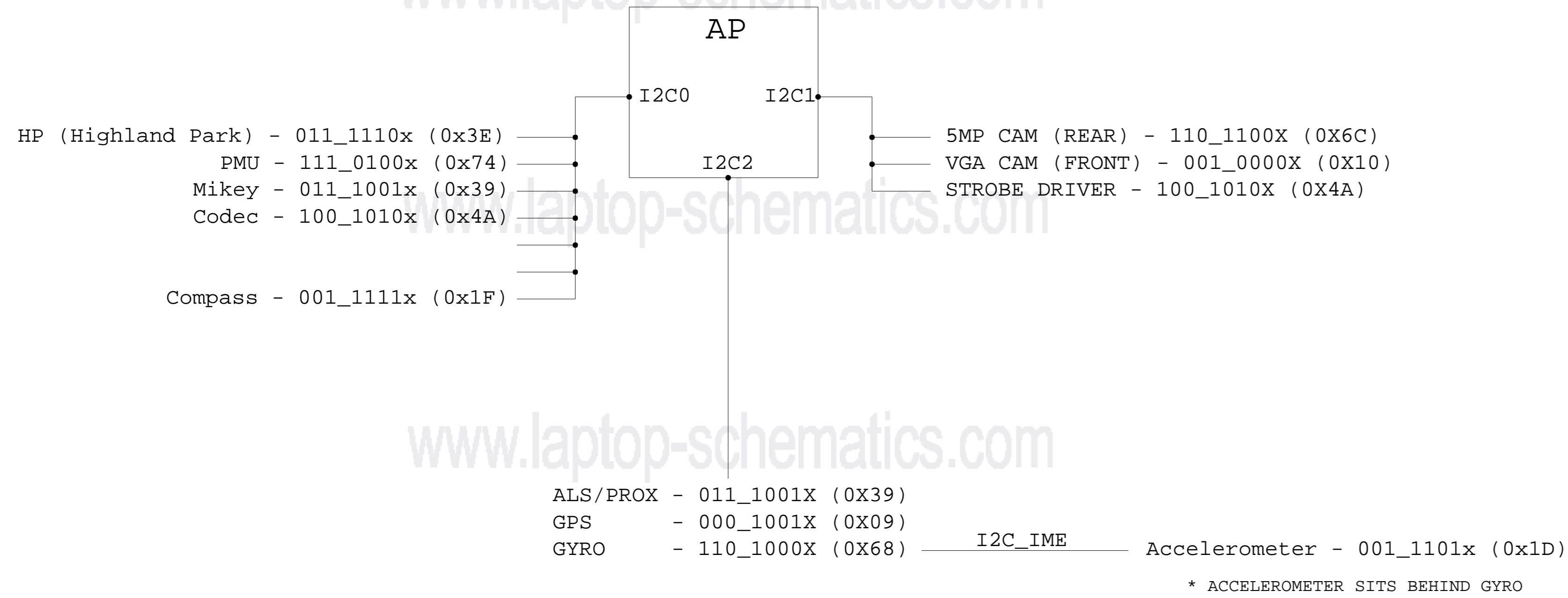
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2

1

I2C ADDRESS MAP

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UART MAP

- UART0 - DOCK
- UART1 - BB UART0
- UART2 - HP
- UART3 - BT/UMTS
- UART4 - GAS GAUGE

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APPLE INC.

SIZE	DRAWING NUMBER	REV.
D	?	?
SCALE	SHT	OF
NONE	3	30

8

7

6

5

4

3

2

1

N90 H2-BASED SUB-DESIGN

Mon Apr 13 17:09:51 2009


BOARD REV 01

PDF PAGE	CSA PAGE	CONTENTS	SYNC MASTER	DATE
1	1	Table of Contents	N/A	N/A
2	2	AP MAIN	N/A	N/A
3	3	AP PWR, AP BB&WIFI	N/A	N/A
4	4	AP NAND	N/A	N/A
5	5	AP RGB/CLCD	N/A	N/A
6	6	AP TVOUT	N/A	N/A
7	7	L61 AUDIO INTERFACE	N/A	N/A
8	8	L61 HP	N/A	N/A
9	9	ASHLEY PMU	N/A	N/A
10	10	SIM, ACCEL, VIBE, GYRO	N/A	N/A
11	11	INTERFACE ASSIGNMENTS	N/A	N/A
12	12	DOCK	N/A	N/A
13	13	NIMBUS, GRAPE, LCD CONN	N/A	N/A
14	14	CAMERA, STROBE, ALS, PROM	N/A	N/A
15	15	RADIO CONNECTIVITY	N/A	N/A
16	16	TEST POINTS	N/A	N/A

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-7921	1	N90_SINGLE_BRD_SCHEMATIC	SCH	Y	
820-2548	1	N90_SINGLE_BRD_PCB	PCB	Y	
825-2029	1	EEE	EEE:???	Y	

BOARD - 820-2548
 SCHEMATIC - 051-7921
 BOM - 630-9941

Table of Contents		
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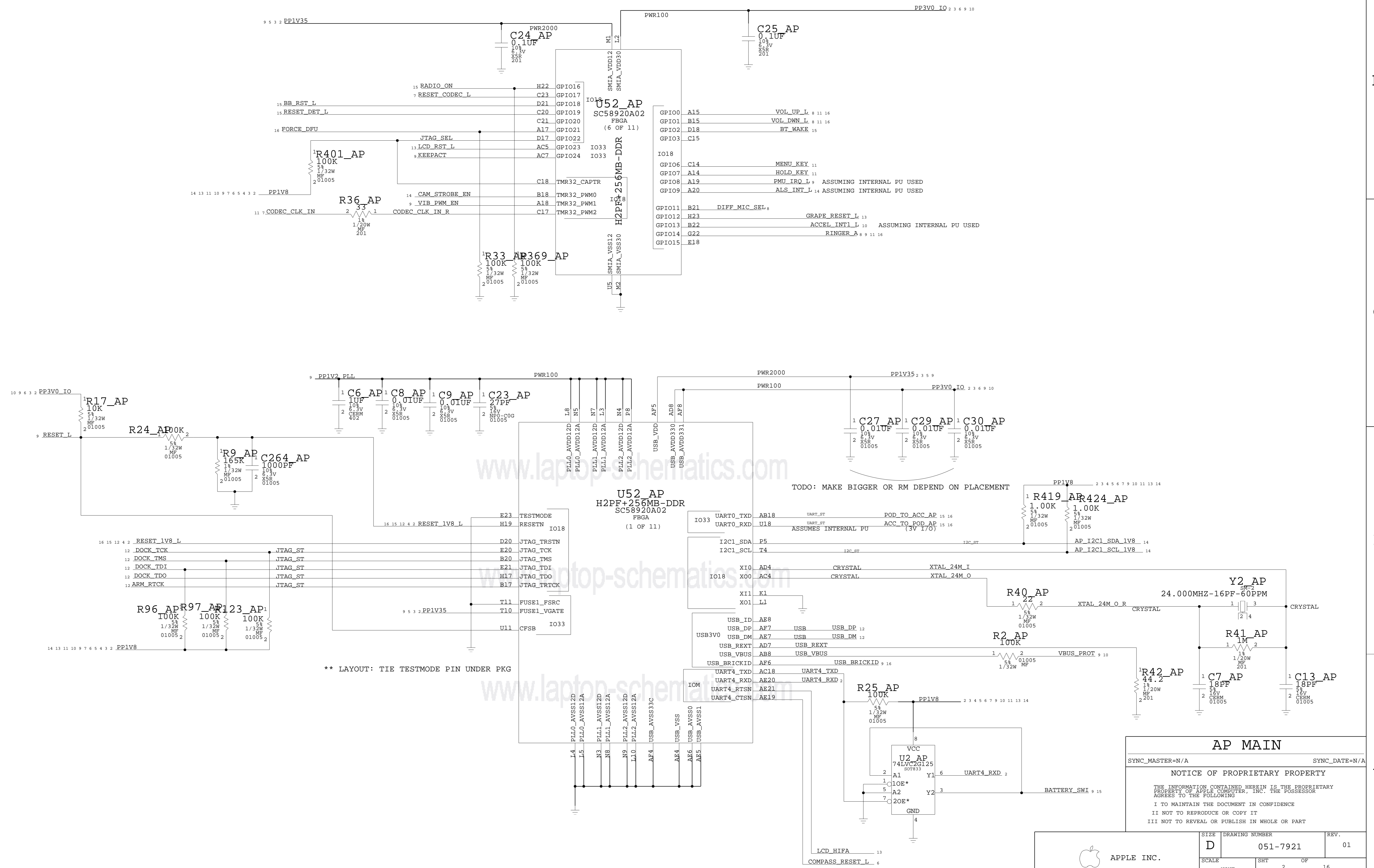
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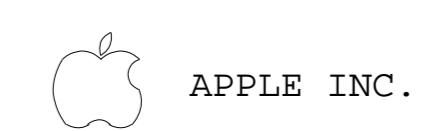
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SCALE	SHT	OF
NONE	2	16

D

D

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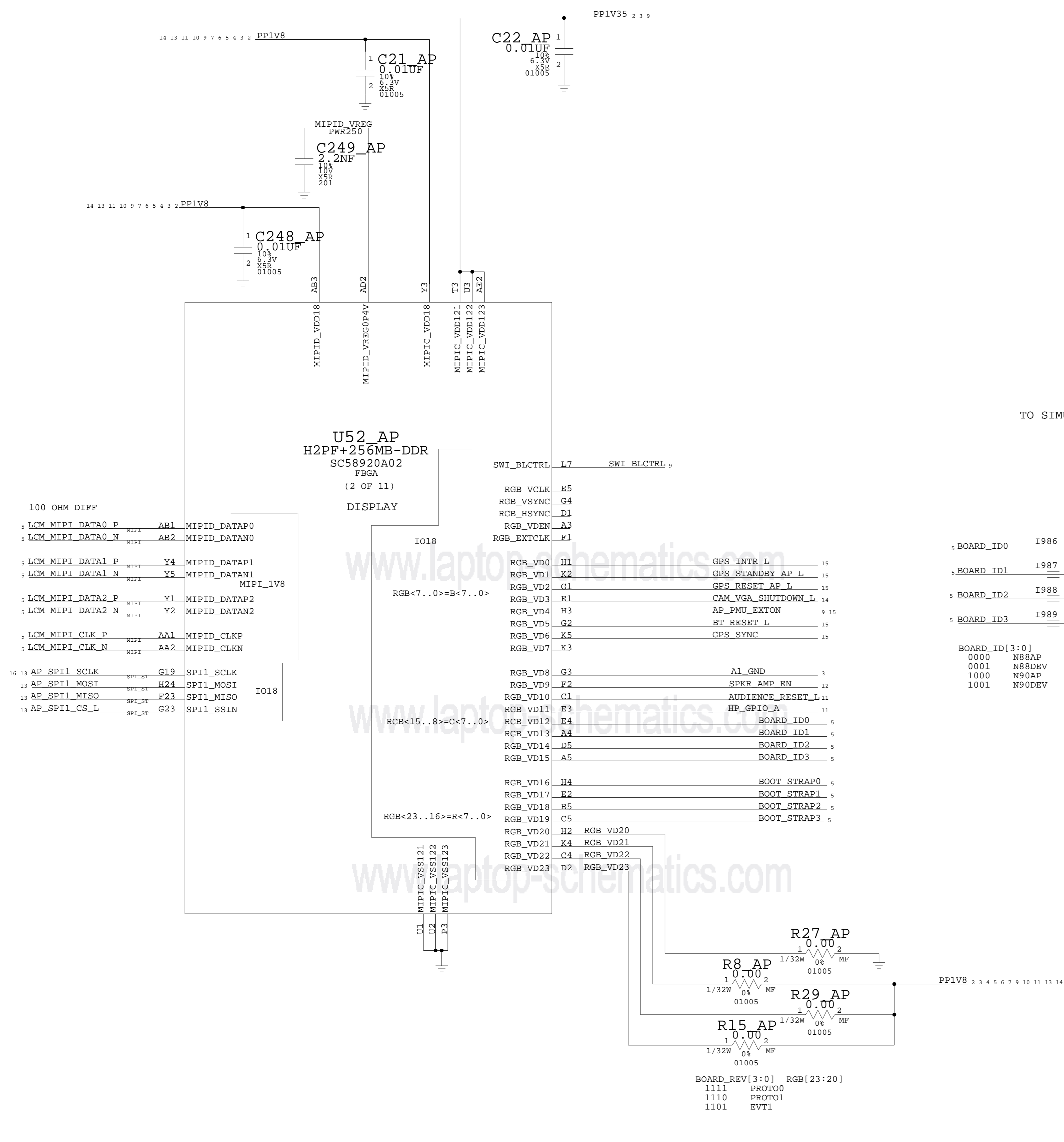
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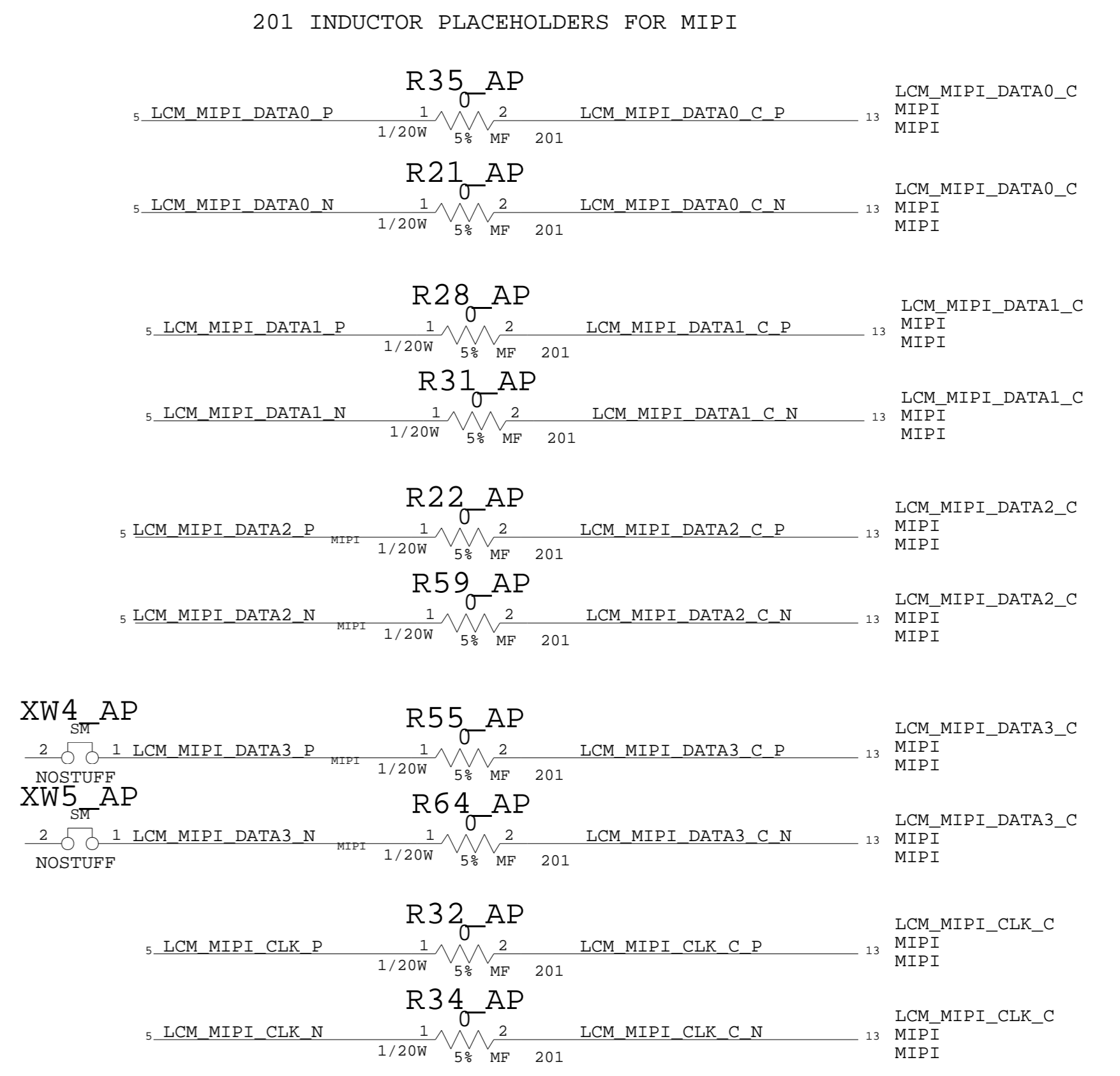
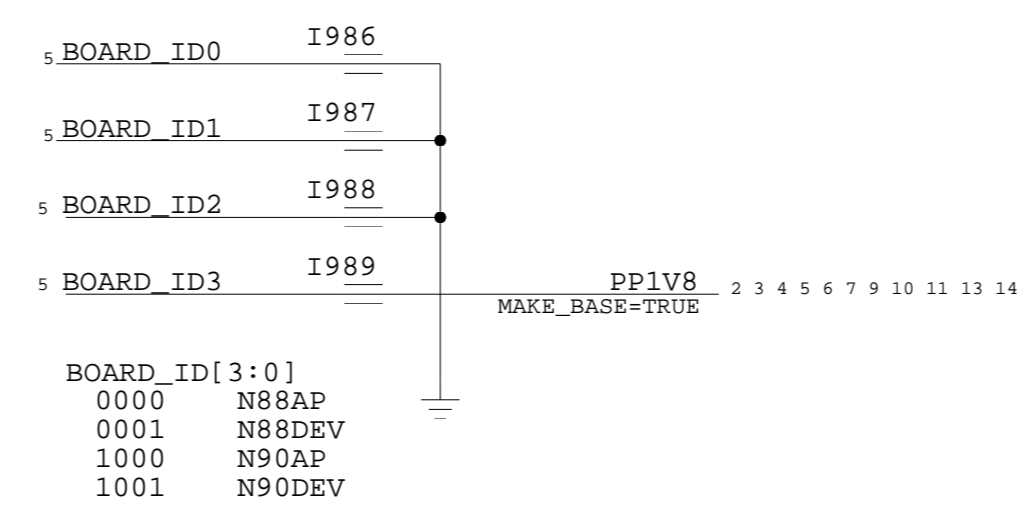
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A

A



LAYOUT: PLACE XW LINKS BY AP TO SIMULATE ROUTING OF 4TH MIPI LANE FOR H3



BOOT_CONFIG[3:0]

0000	SPI0
0001	SPI1
0010	SPI0 W/TEST
0011	SPI1 W/TEST
0100	FMIO 2CS
0101	FMIO 4CS
0110	FMIO 4CS W/TEST
0111	RESERVED
1000	FMIO 2 CS
1001	FMIO 4 CS
1010	FMIO 4CS W/TEST
1100	FMIO/1 2/2 CS
1101	FMIO/1 4/4 CS
1110	FMIO/1 4/4 CS W/TEST
1111	RESERVED

AP RGB/CLCD

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D

C

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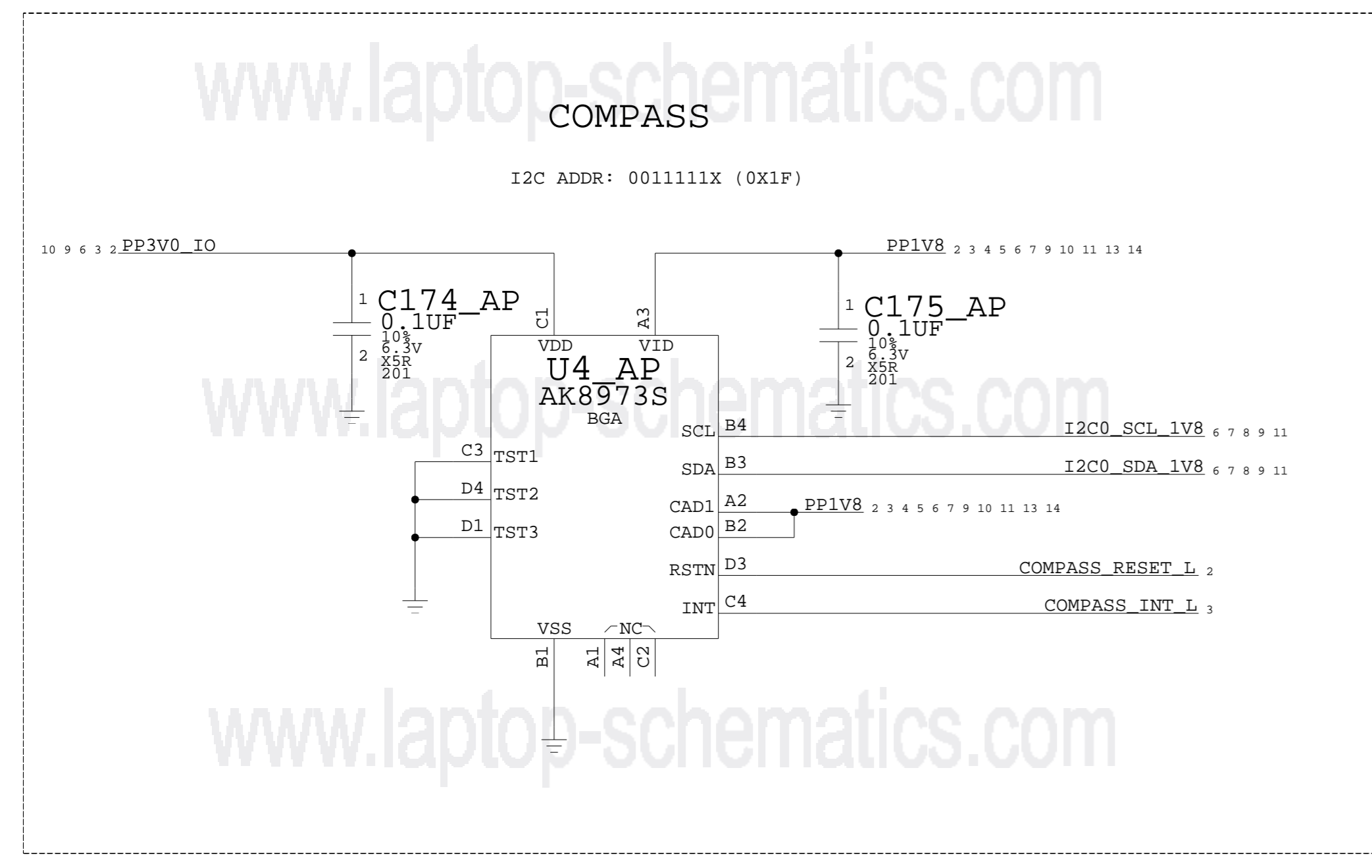
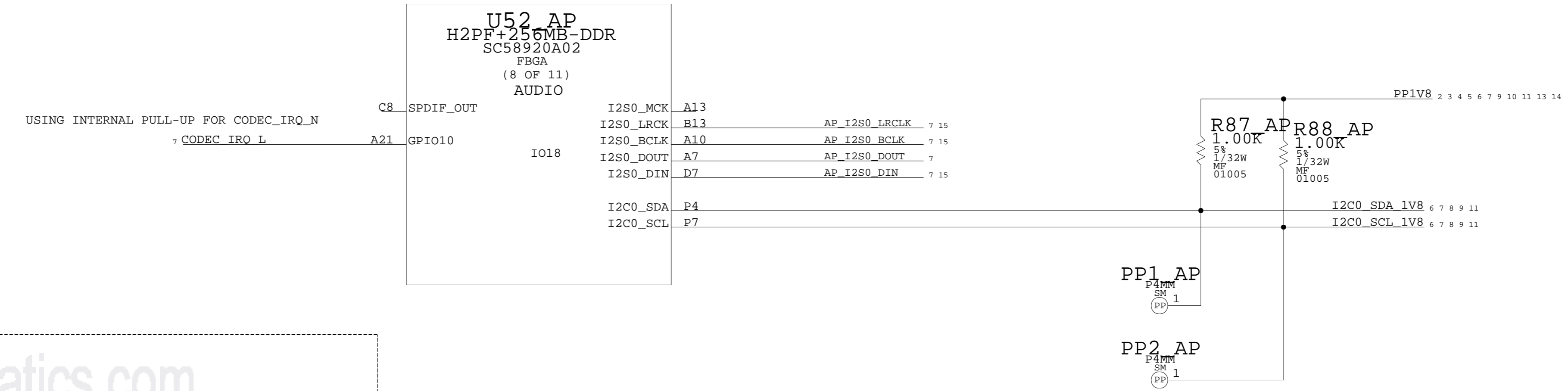
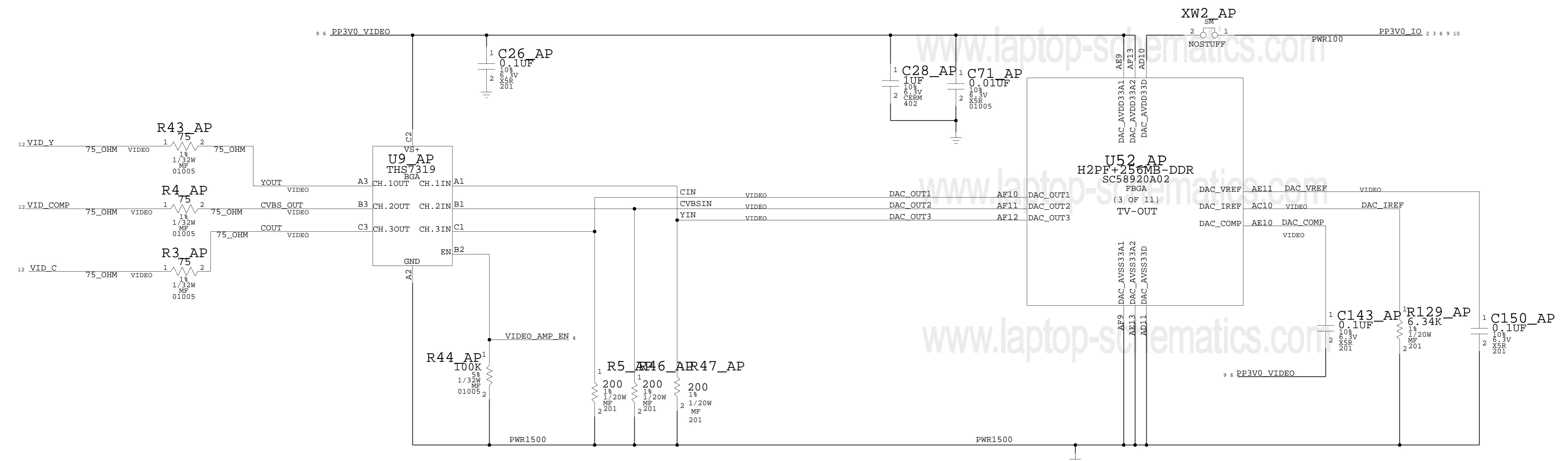
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AP TVOUT

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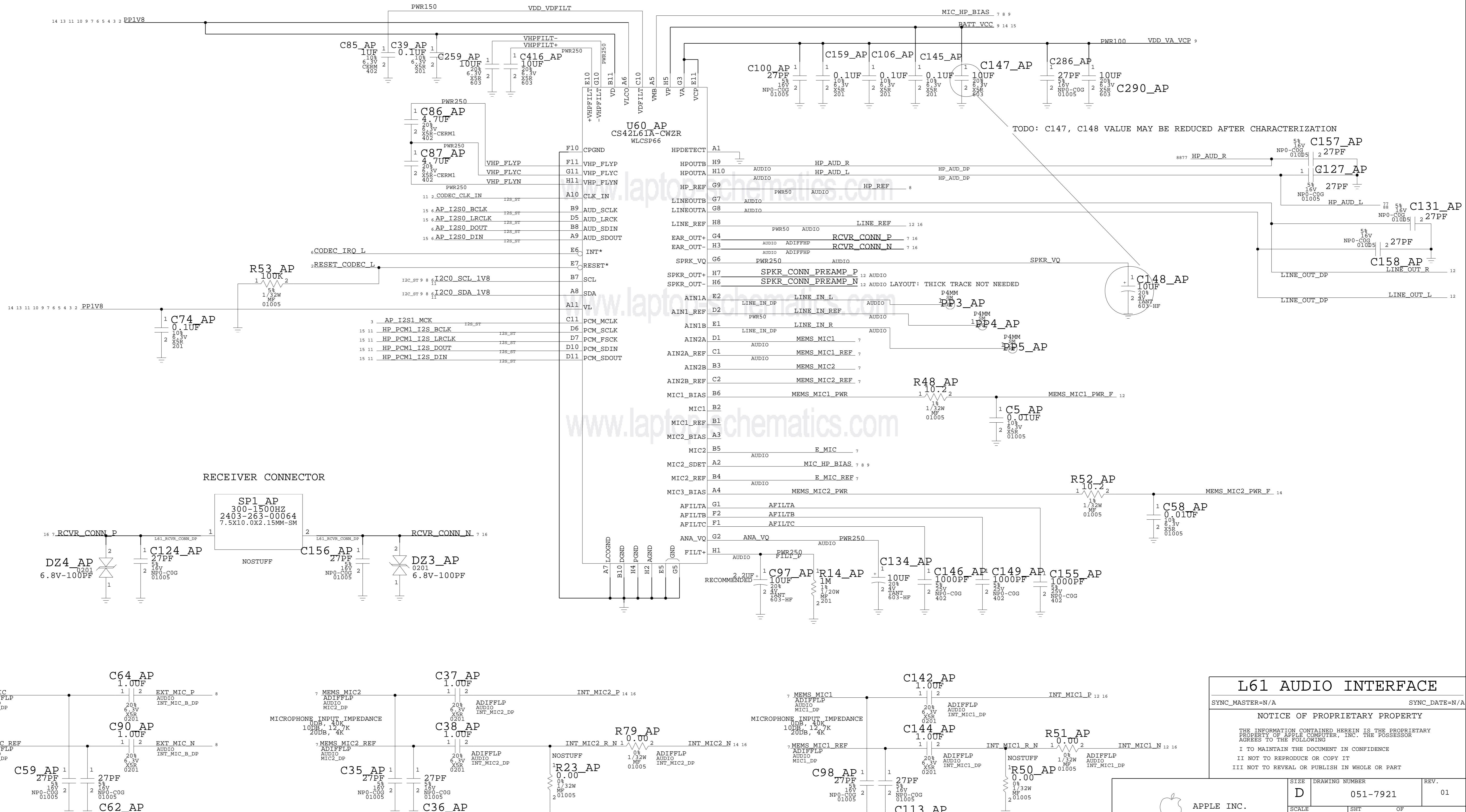
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	D	051-7921	01
SCALE	NONE	SHT	6 OF 16

L61 AUDIO INTERFACE

I2C ADDRESS: 1001010X



L61 AUDIO INTERFACE

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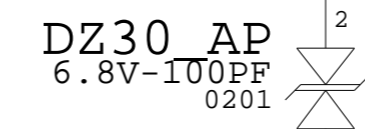
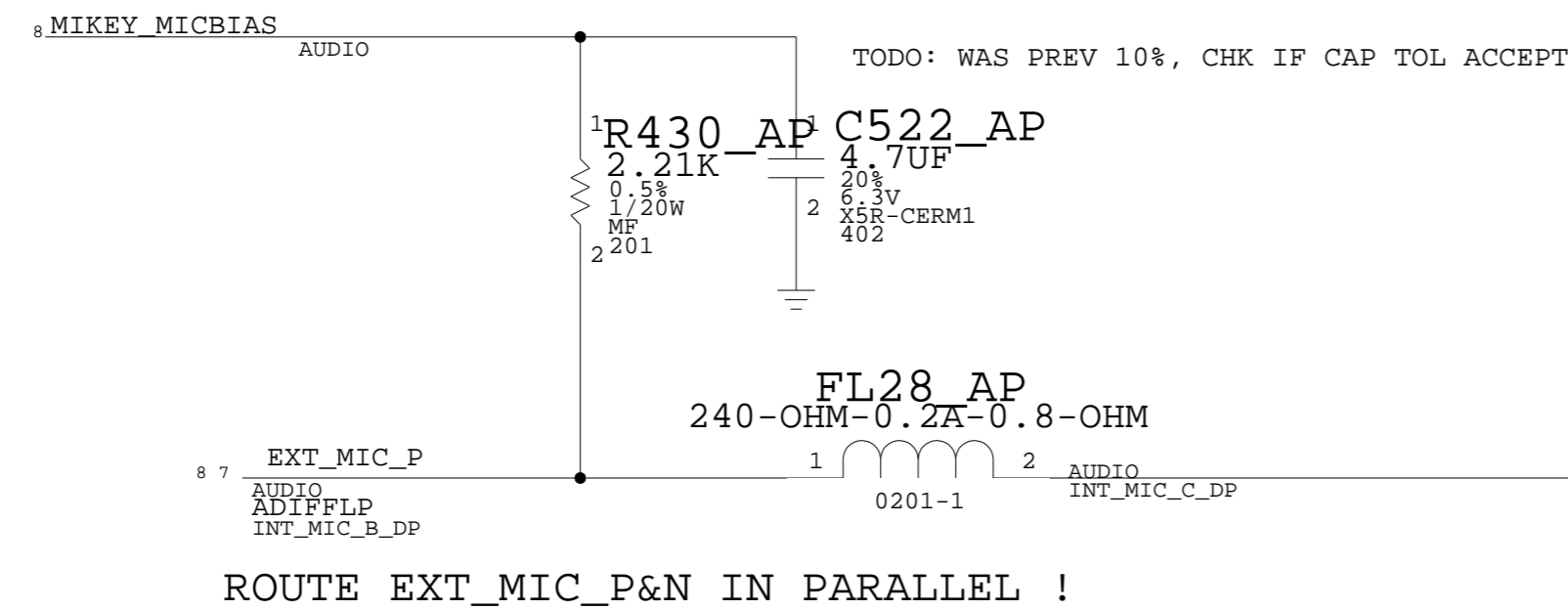
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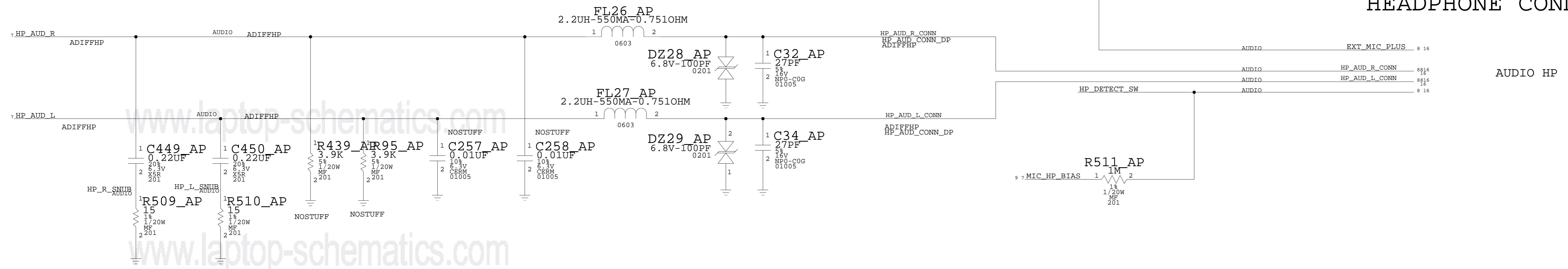
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	SIZE	DRAWING NUMBER	REV.
	D	051-7921	01
SCALE	NONE	SHT	7 OF 16

L61 HEADPHONE CONNECTOR

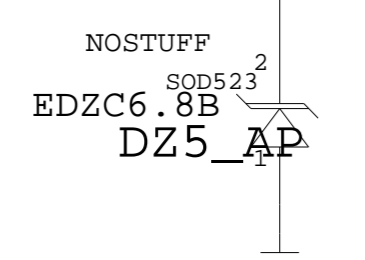
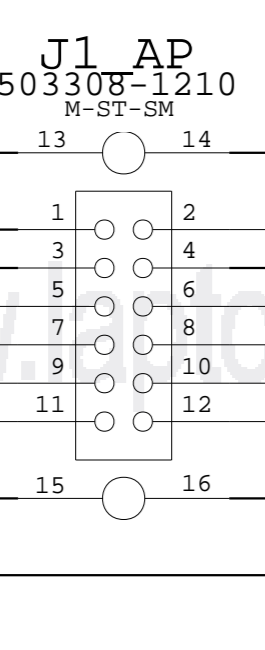


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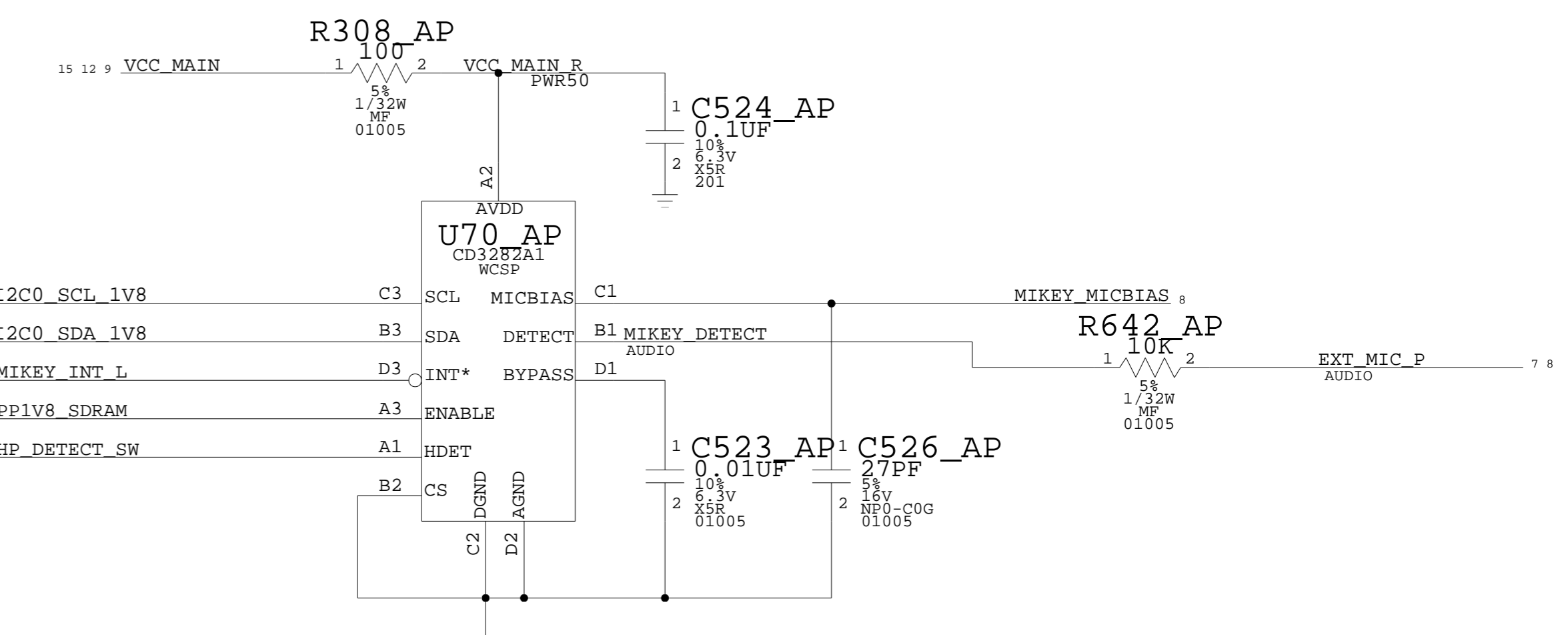
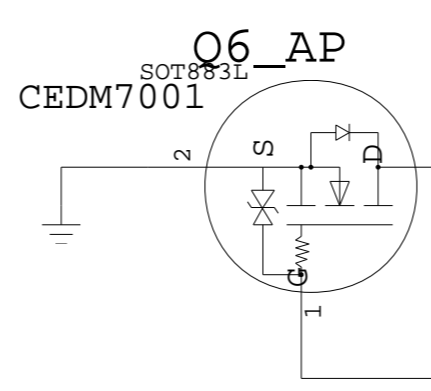
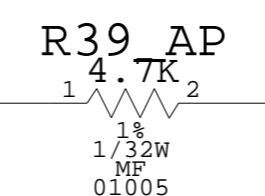
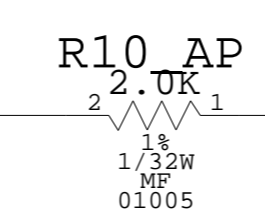
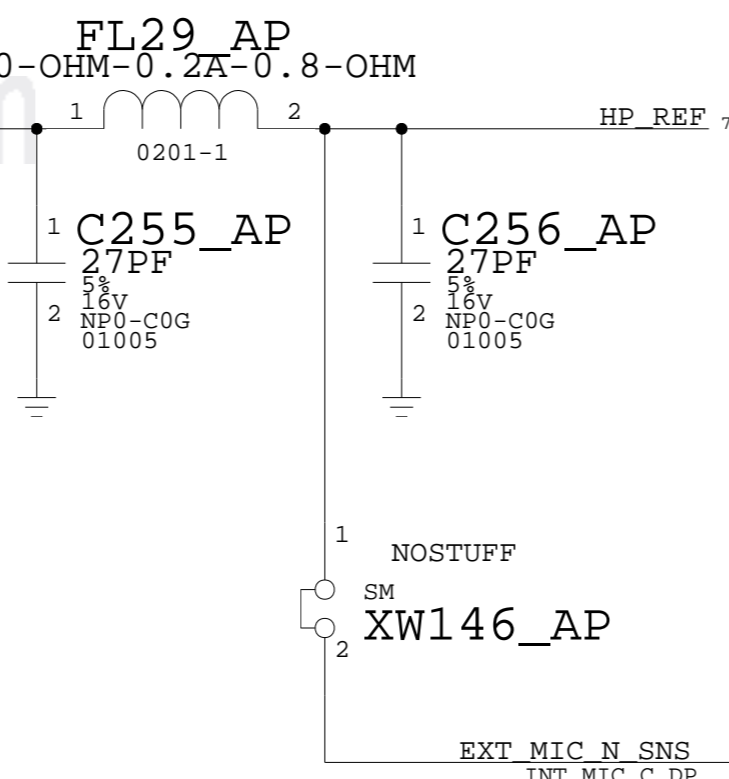


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BUTTON FLEX CONNECTOR

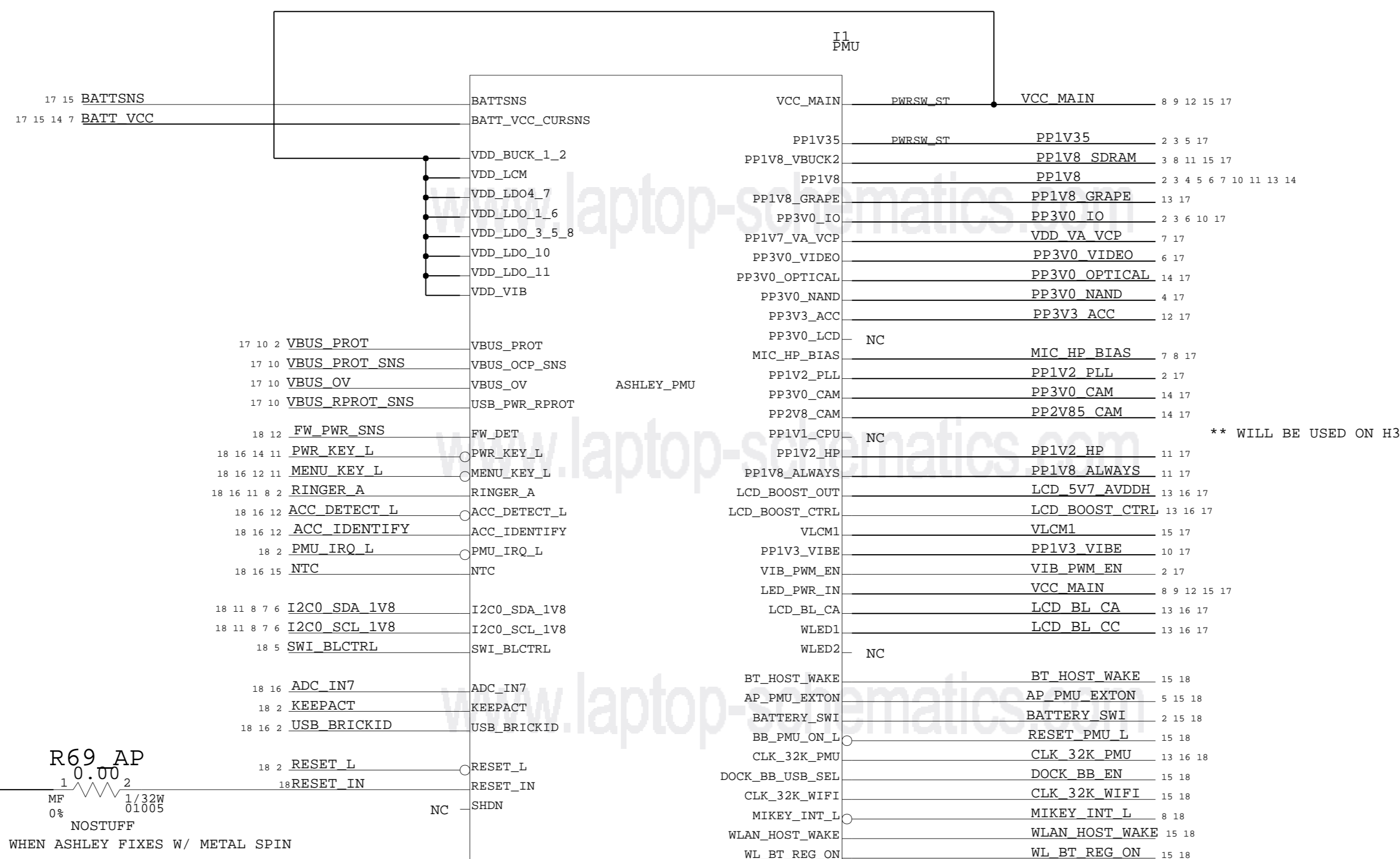


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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7921	01
SCALE	NONE	SHT	8 OF 16

PP 17 - 18



R69 AP
 0.00
 MF 1/32W
 08 01005
 NOSTUFF

* ASHLEY BUG FIX. REMOVE FOR PROTO1 WHEN ASHLEY FIXES W/ METAL SPIN

ASHLEY PMU

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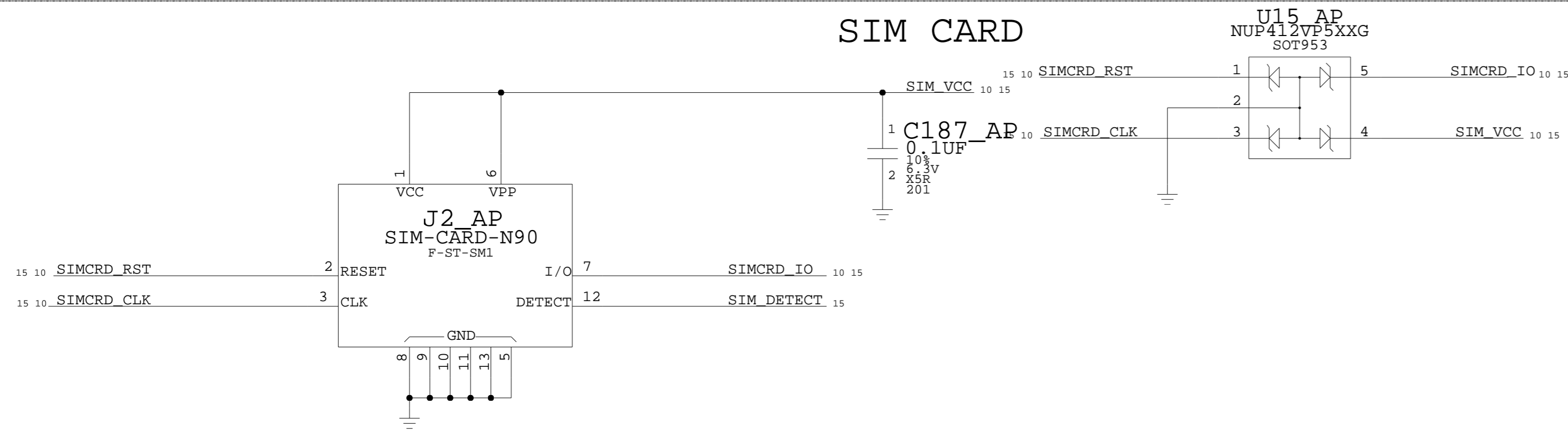
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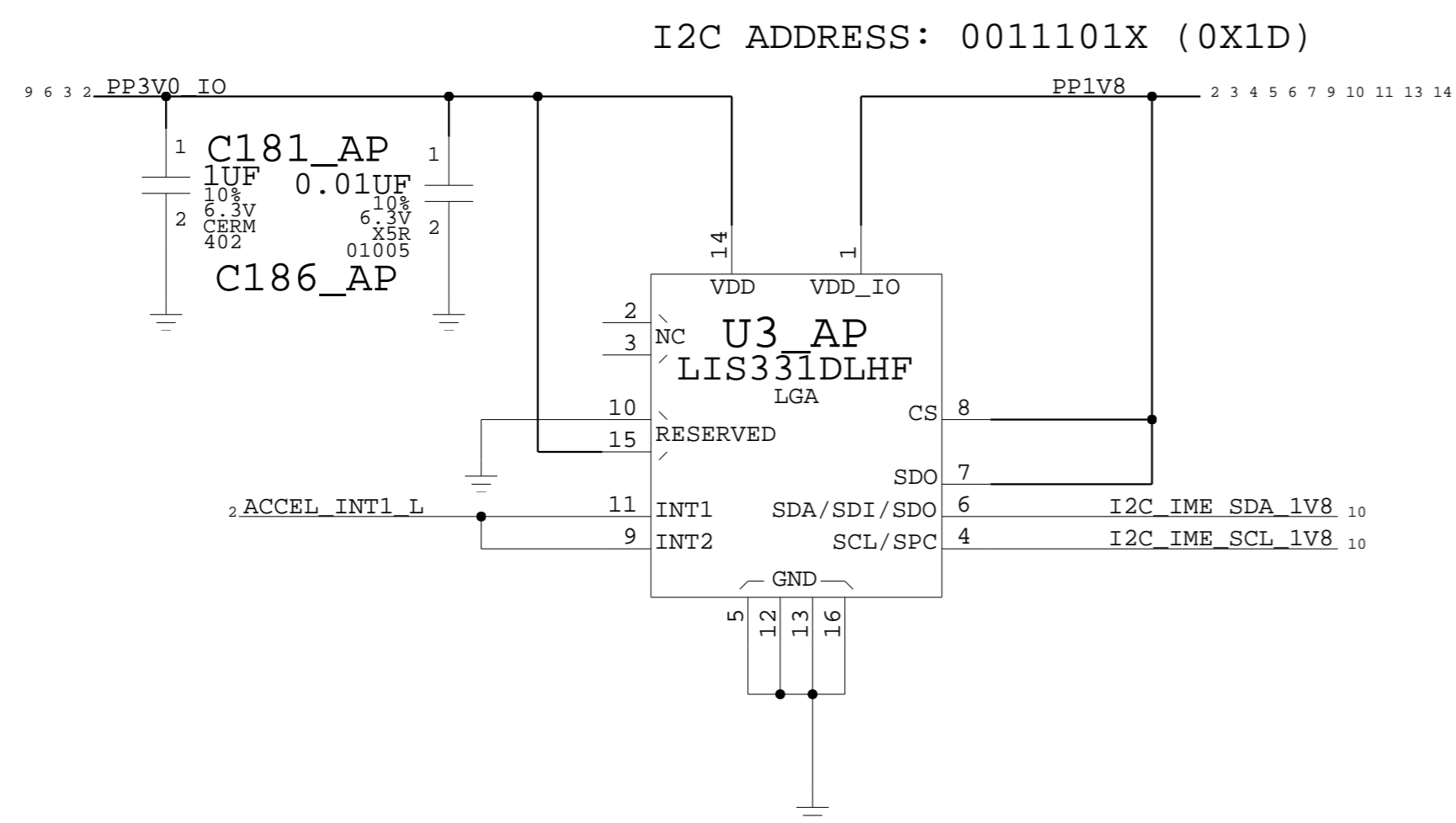
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SCALE	SHT	OF	
NONE	9	16	

SIM CARD



TOD0: THIS CONN PINOUT HAS NOT BEEN VERIF'D!

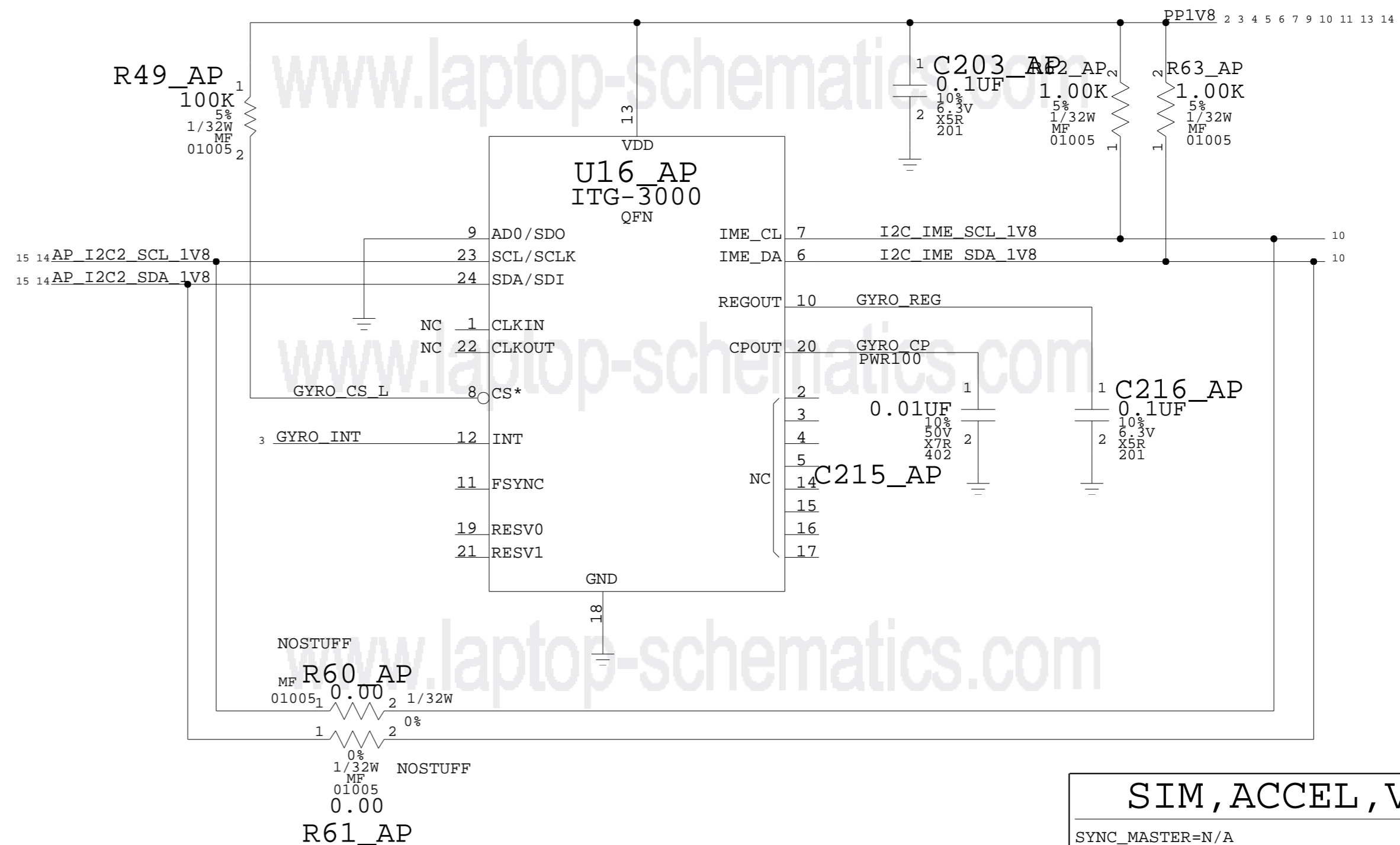
ACCELEROMETER



TOD0: I2C NOT FINALIZED (FROM INVENSENSE)!

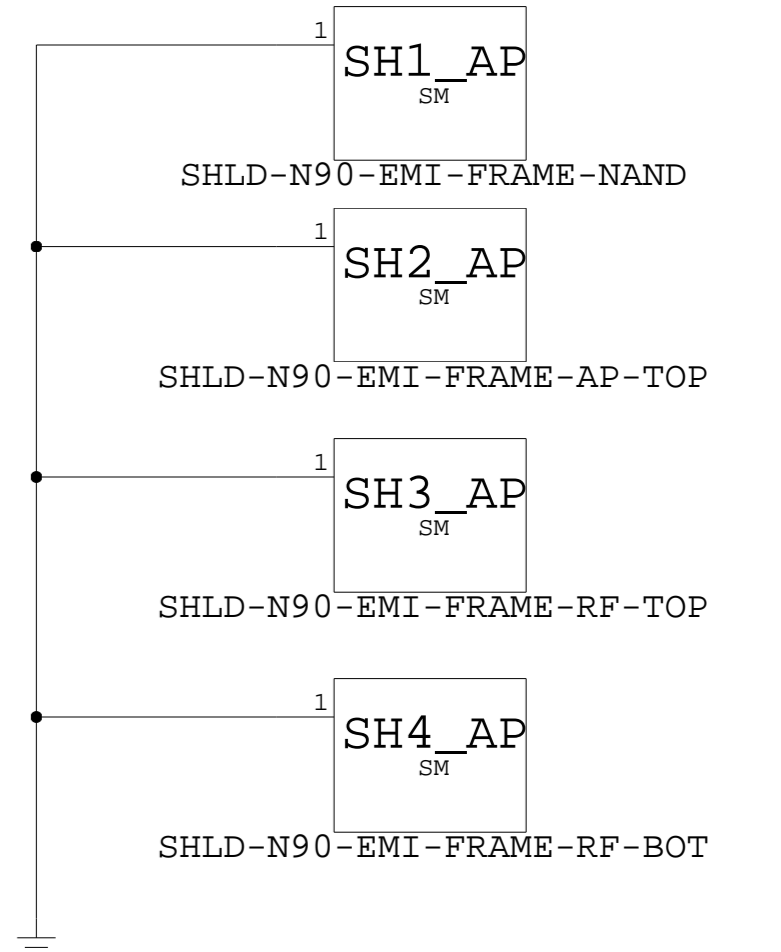
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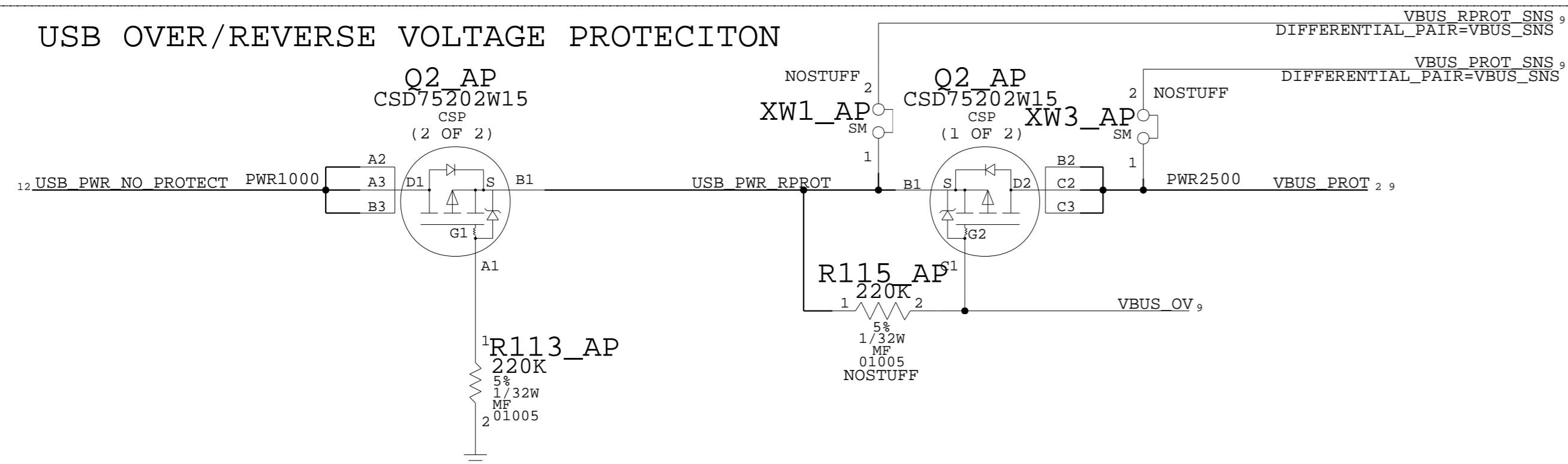


** STUFF OPTION IN CASE PASS-THRU DOESN'T WORK

SHIELDS



USB OVER/REVERSE VOLTAGE PROTECTITON



SIM, ACCEL, VIBE, GYRO

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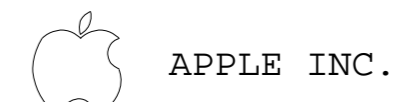
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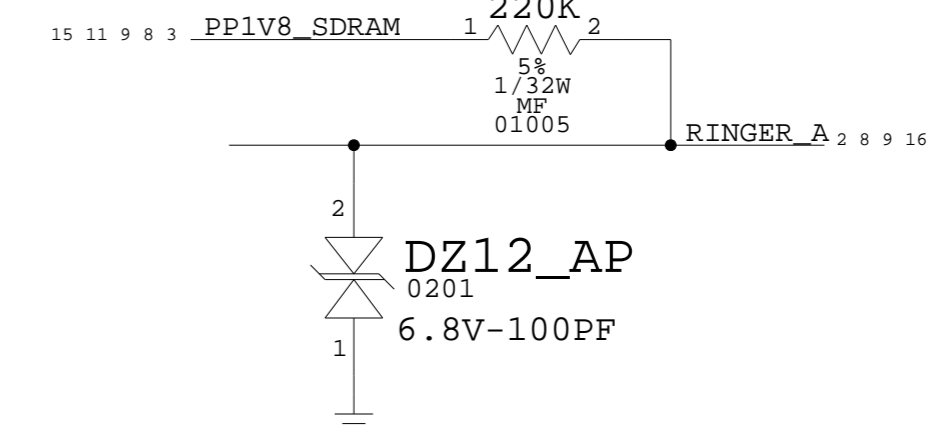


SIZE	DRAWING NUMBER	REV.
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SCALE	SHT	OF
NONE	10	16

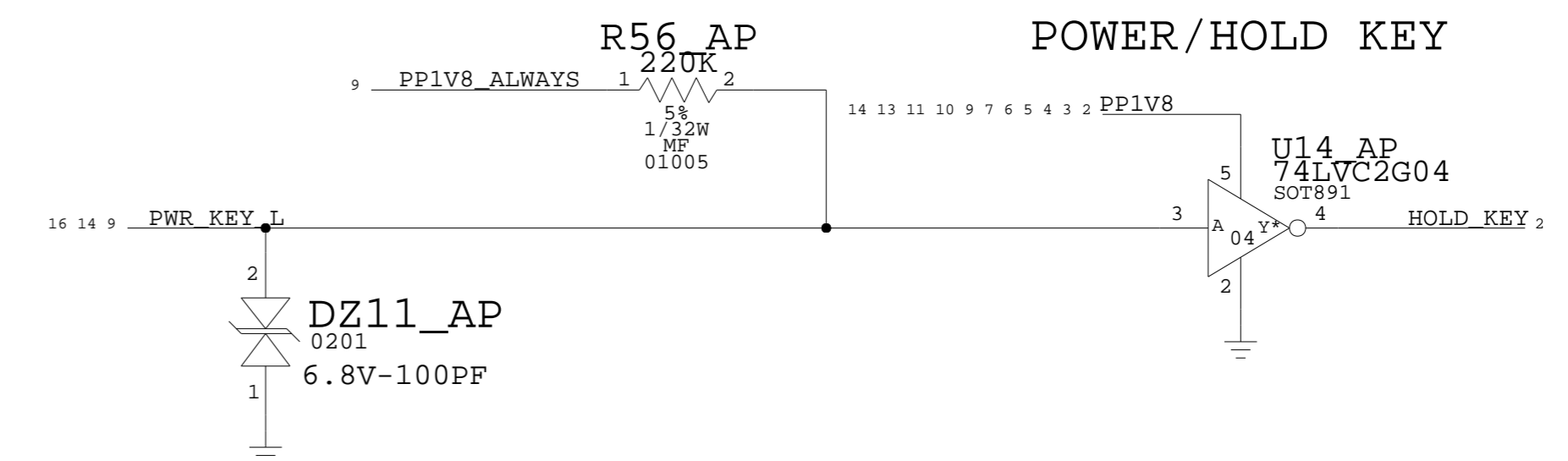
VOLUME SWITCHES



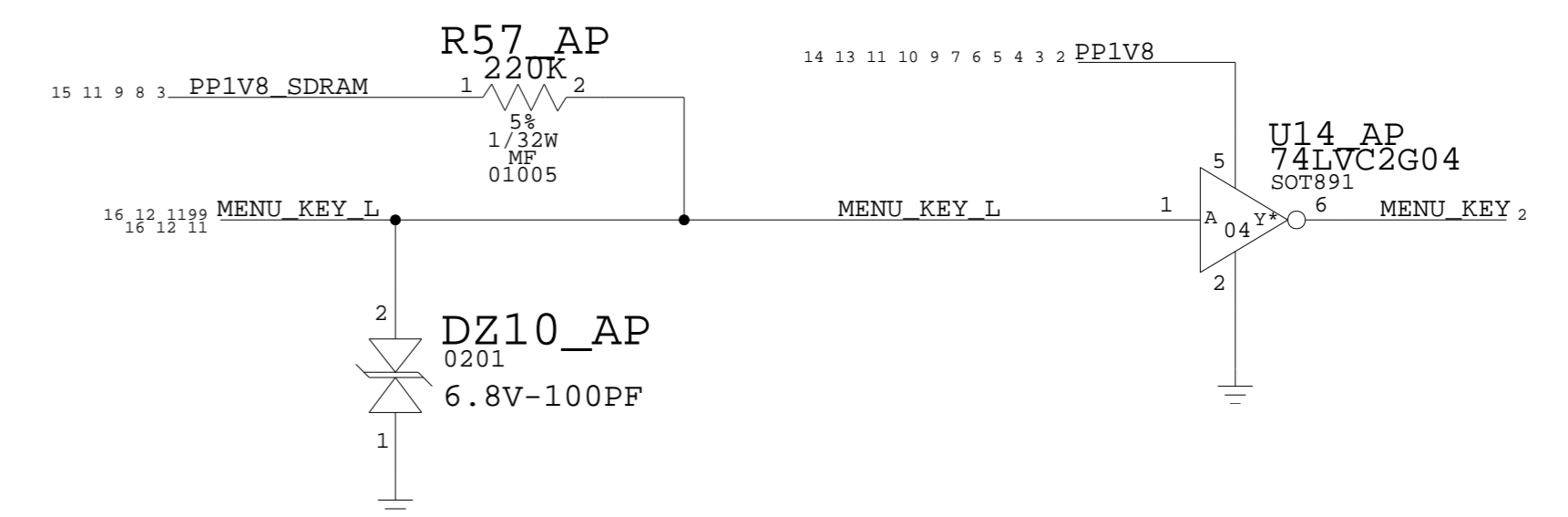
RINGER A/B SWITCH R58_AP



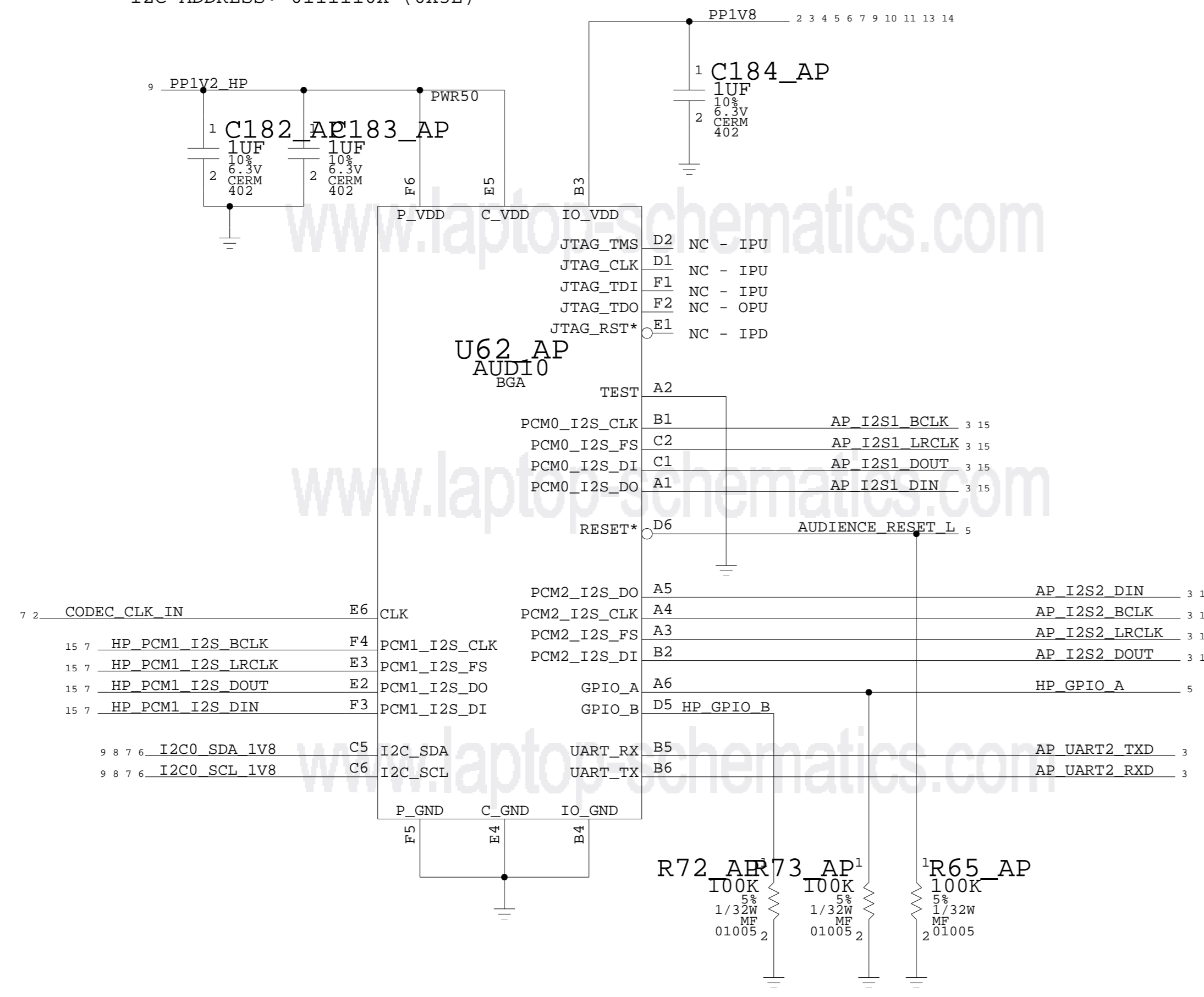
POWER/HOLD KEY



MENU KEY



I2C ADDRESS: 0111110X (0X3E)



HIGHLAND PARK, SWITCHES

SYNC_MASTER=N/A SYNC_DATE=N/A

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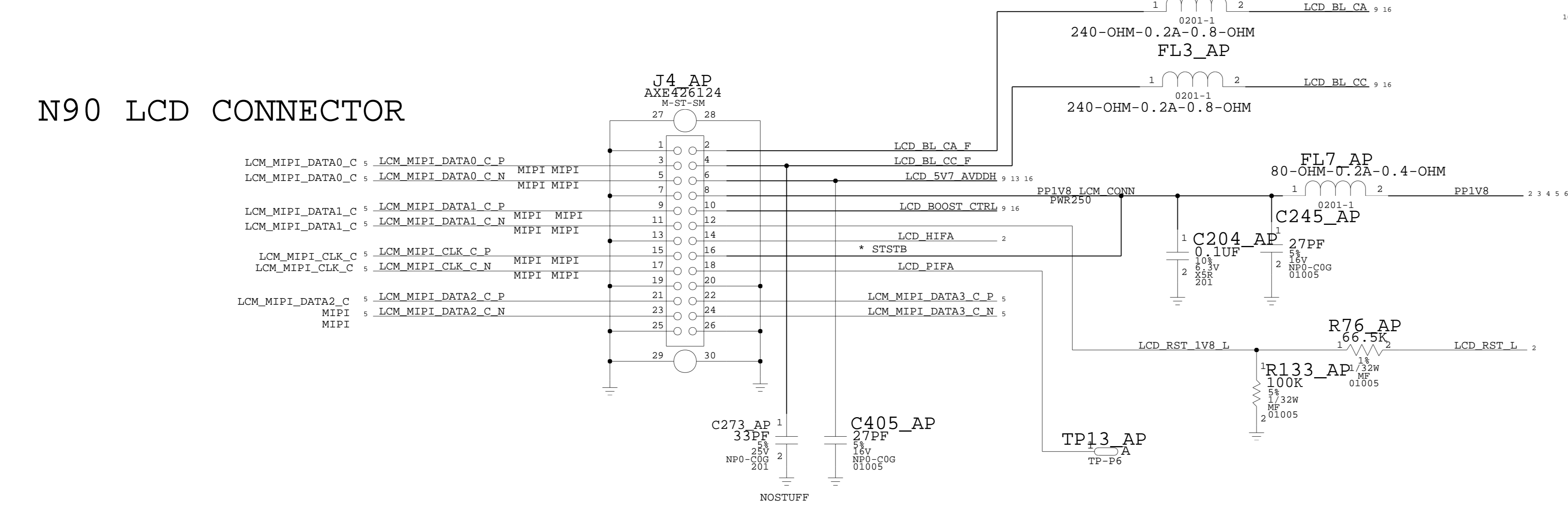
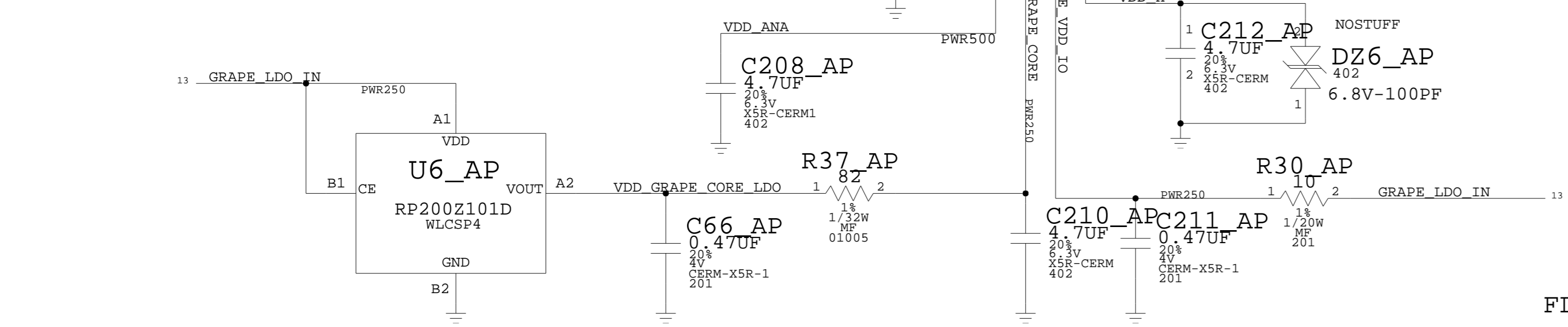
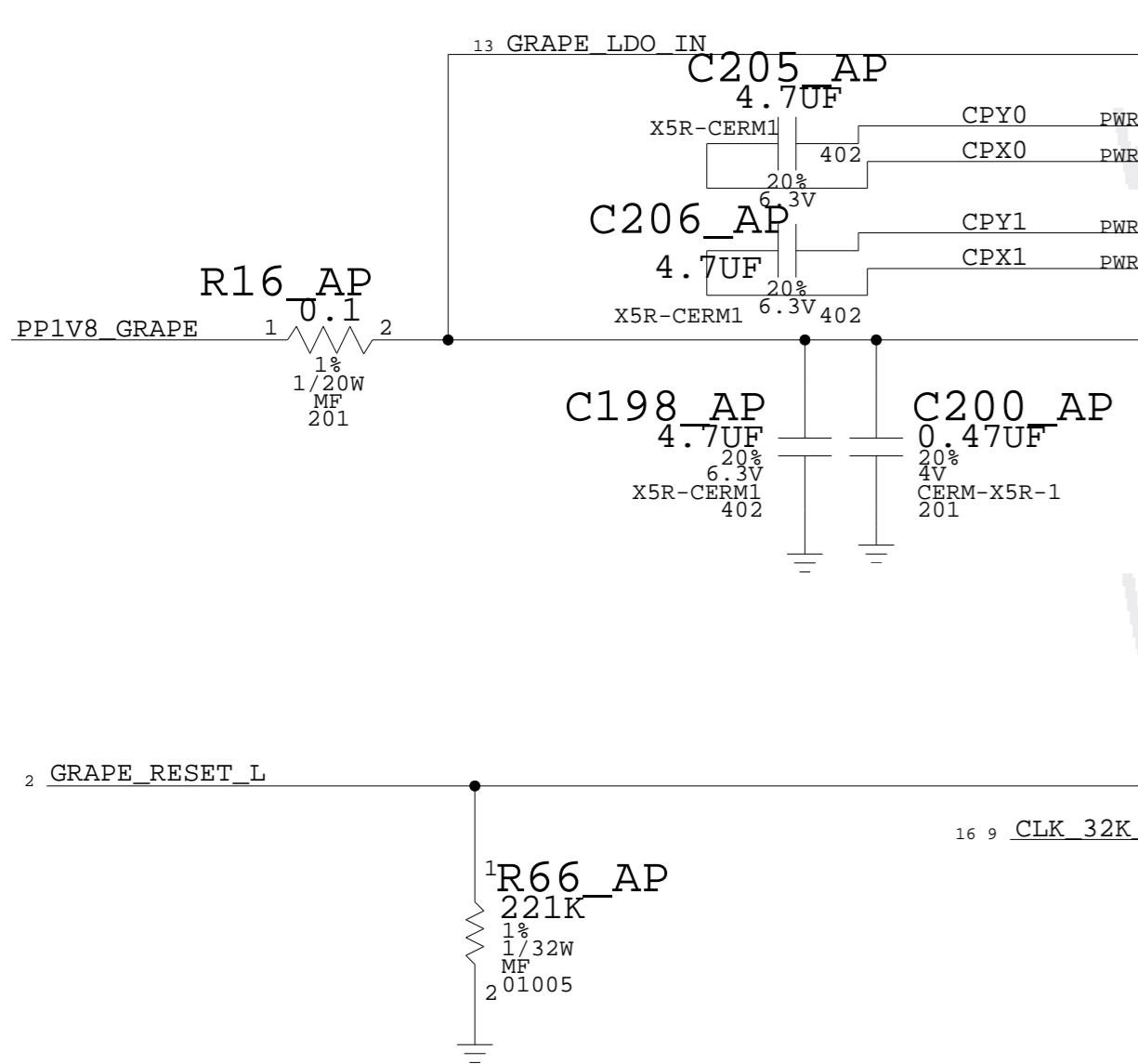
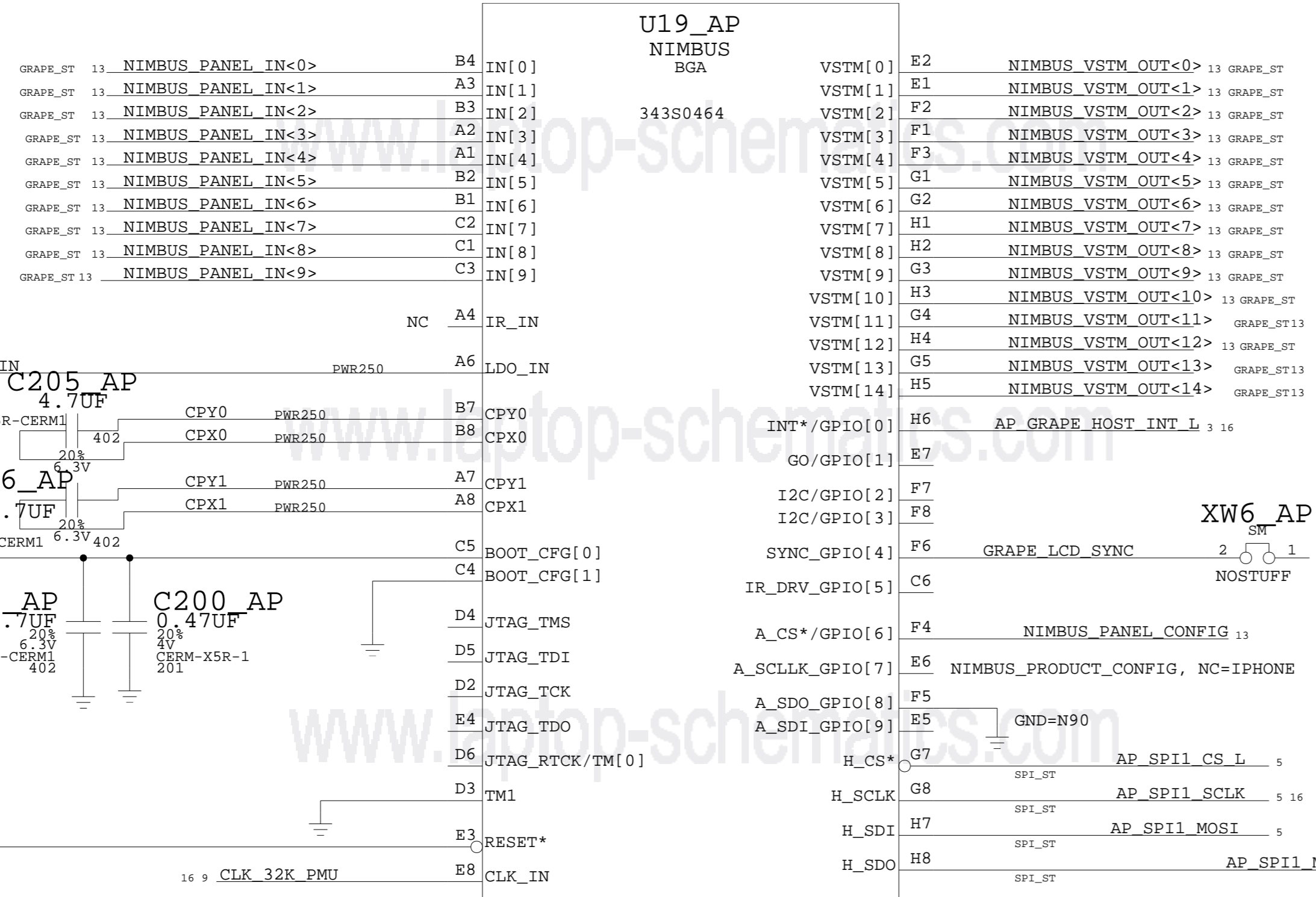
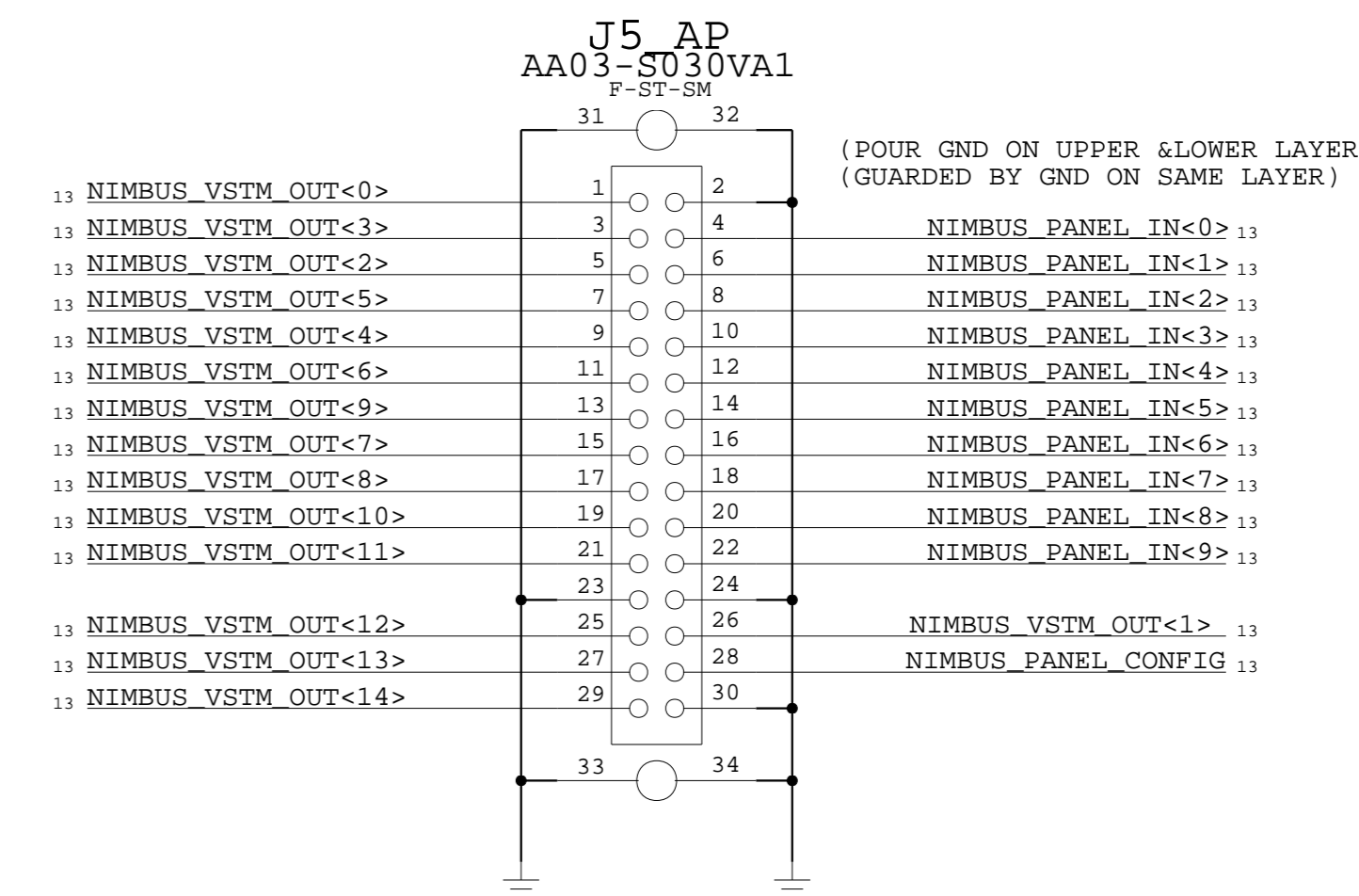
II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

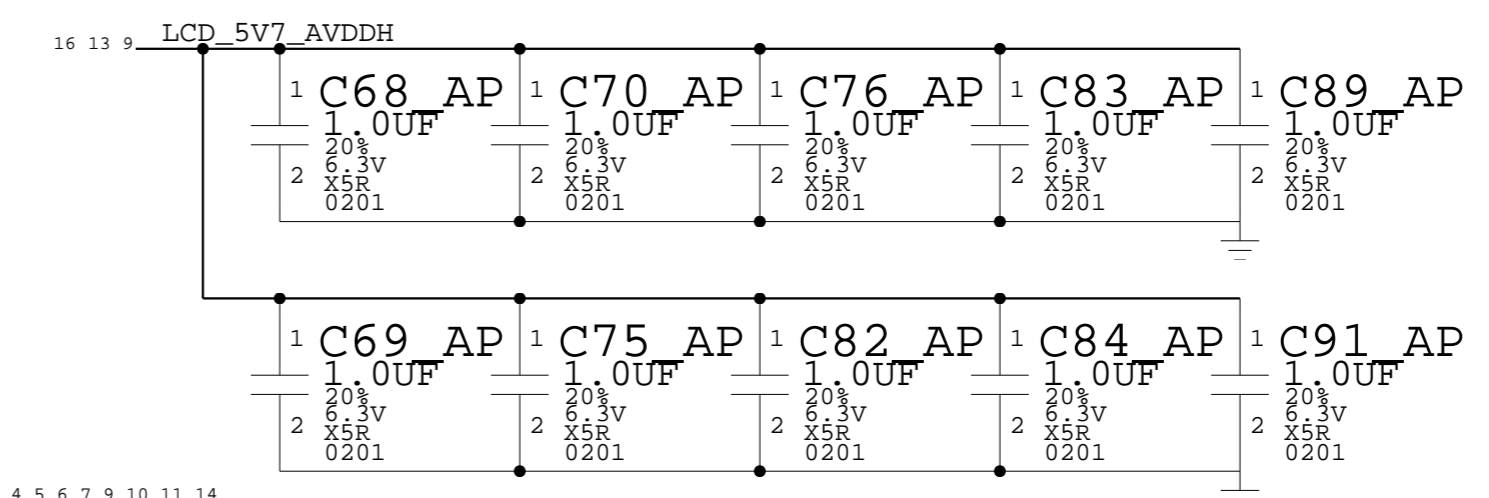
APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7921	01
SCALE	NONE	SHT	11 OF 16

NIMBUS

GRAPE CONNECTOR N90 NIMBUS CONNECTOR



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



NIMBUS, GRAPE, LCD CONN.

SYNC_MASTER=N/A SYNC_DATE=N/A

NOTICE OF PROPRIETARY PROPERTY

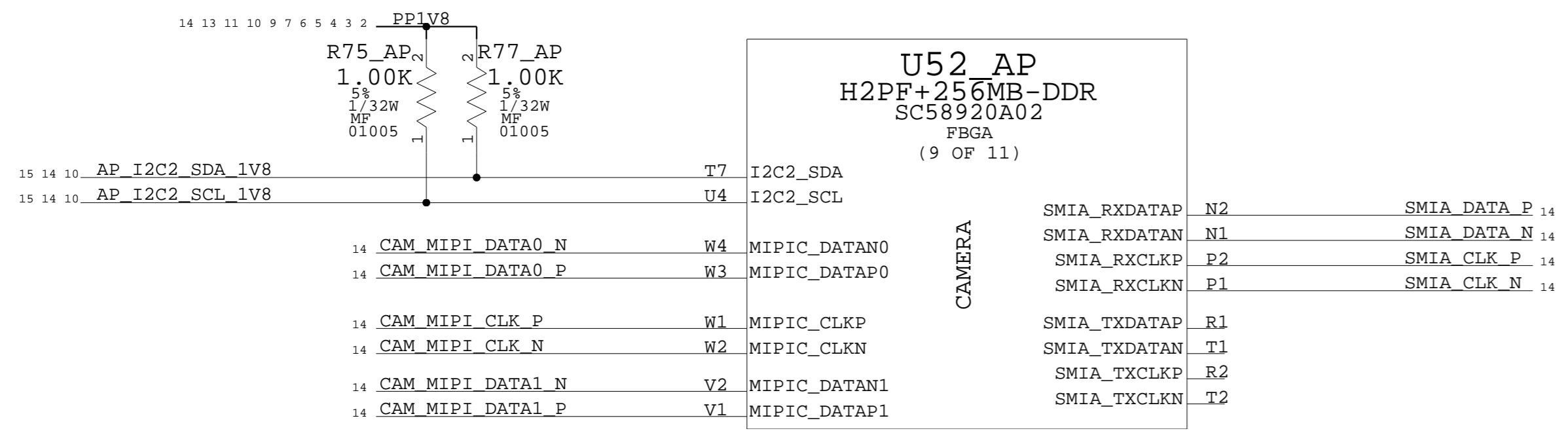
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APPLE INC.

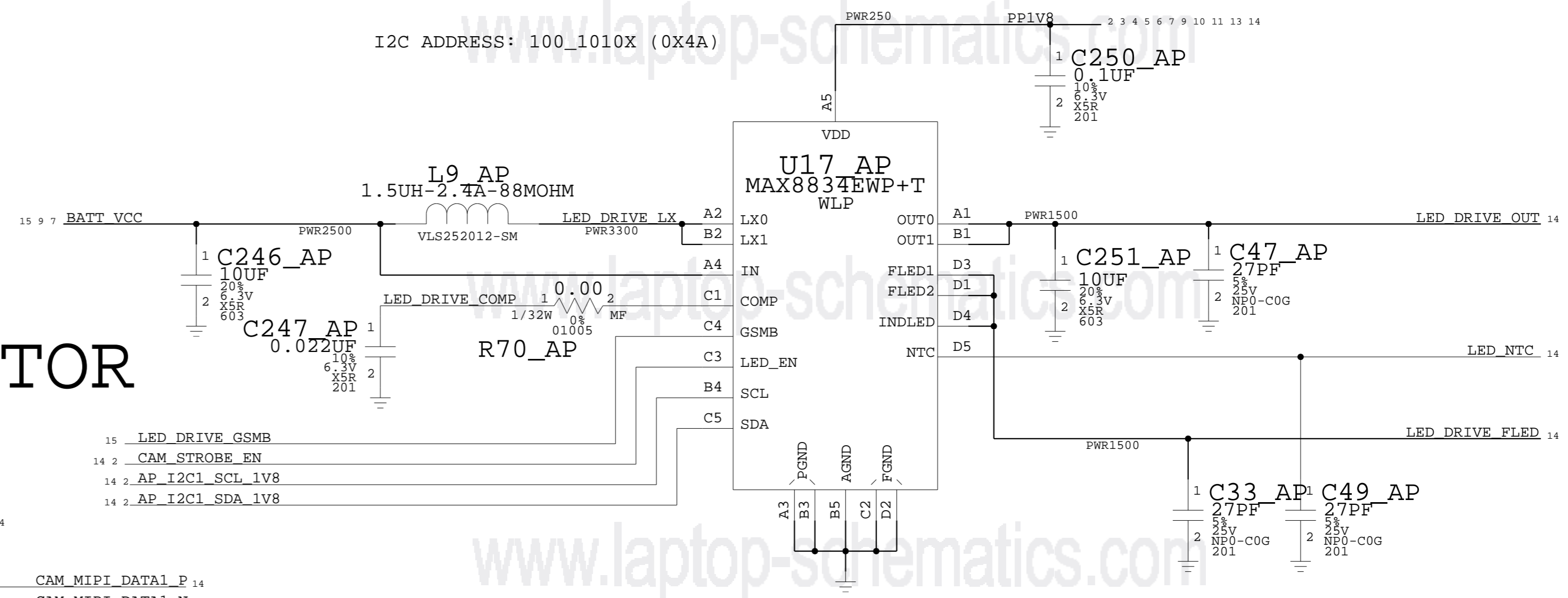
SIZE	DRAWING NUMBER	REV.
D	051-7921	01
SCALE	SHT	OF
NONE	13	16

CAMERA INTERFACE

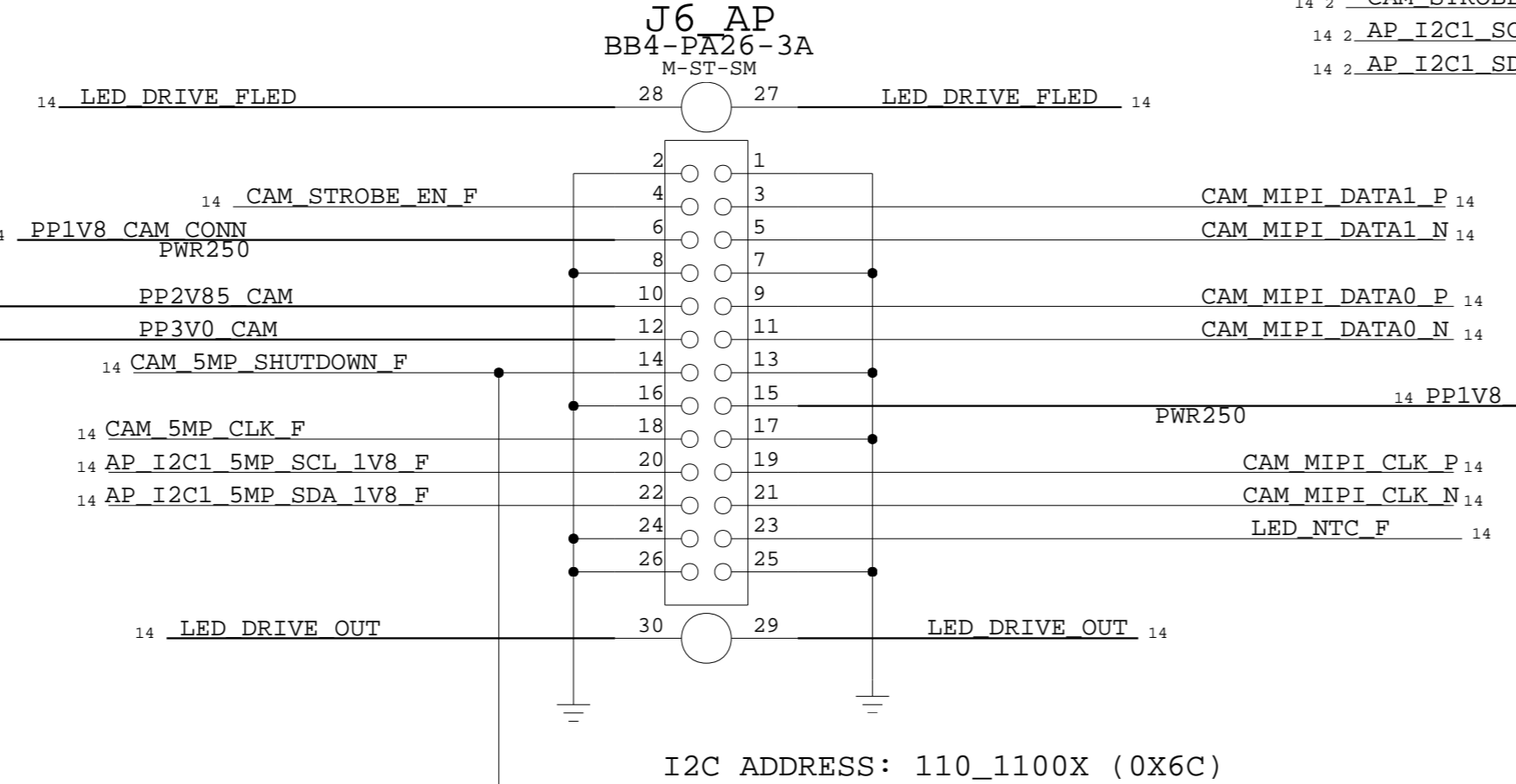
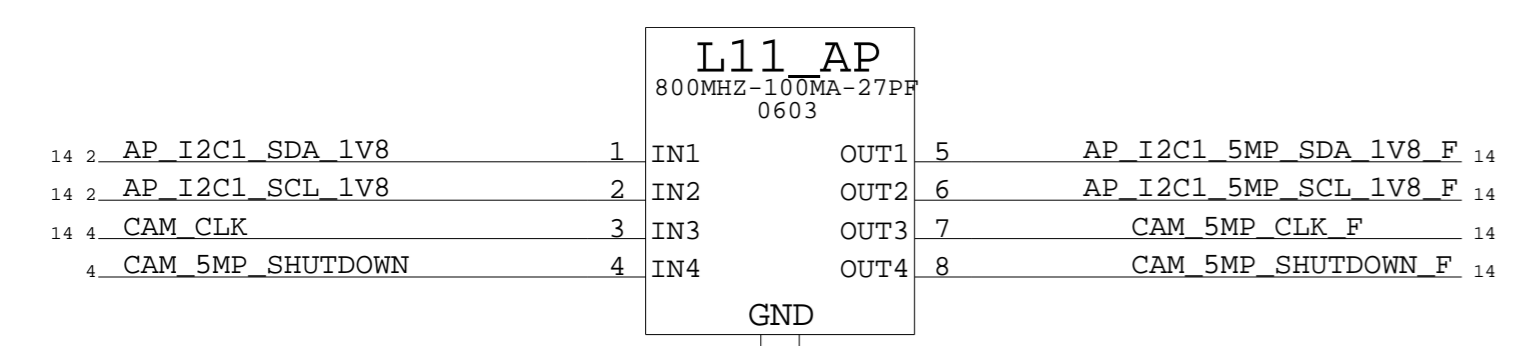


LED DRIVER

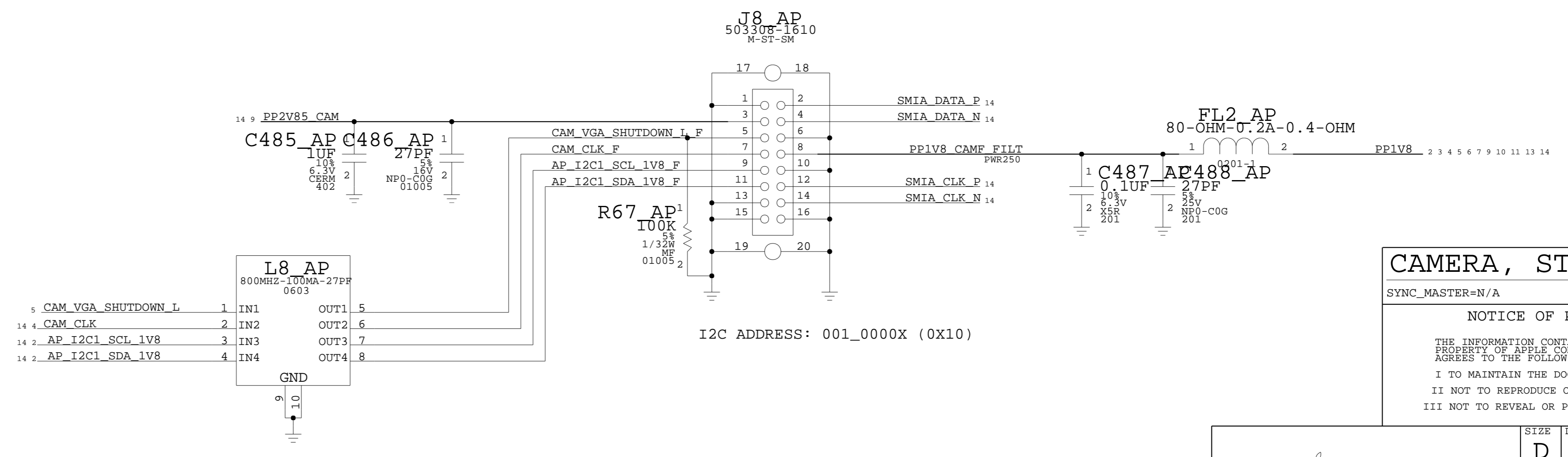
* PLACE CLOSE TO BATTERY *



5MP CAMERA CONNECTOR

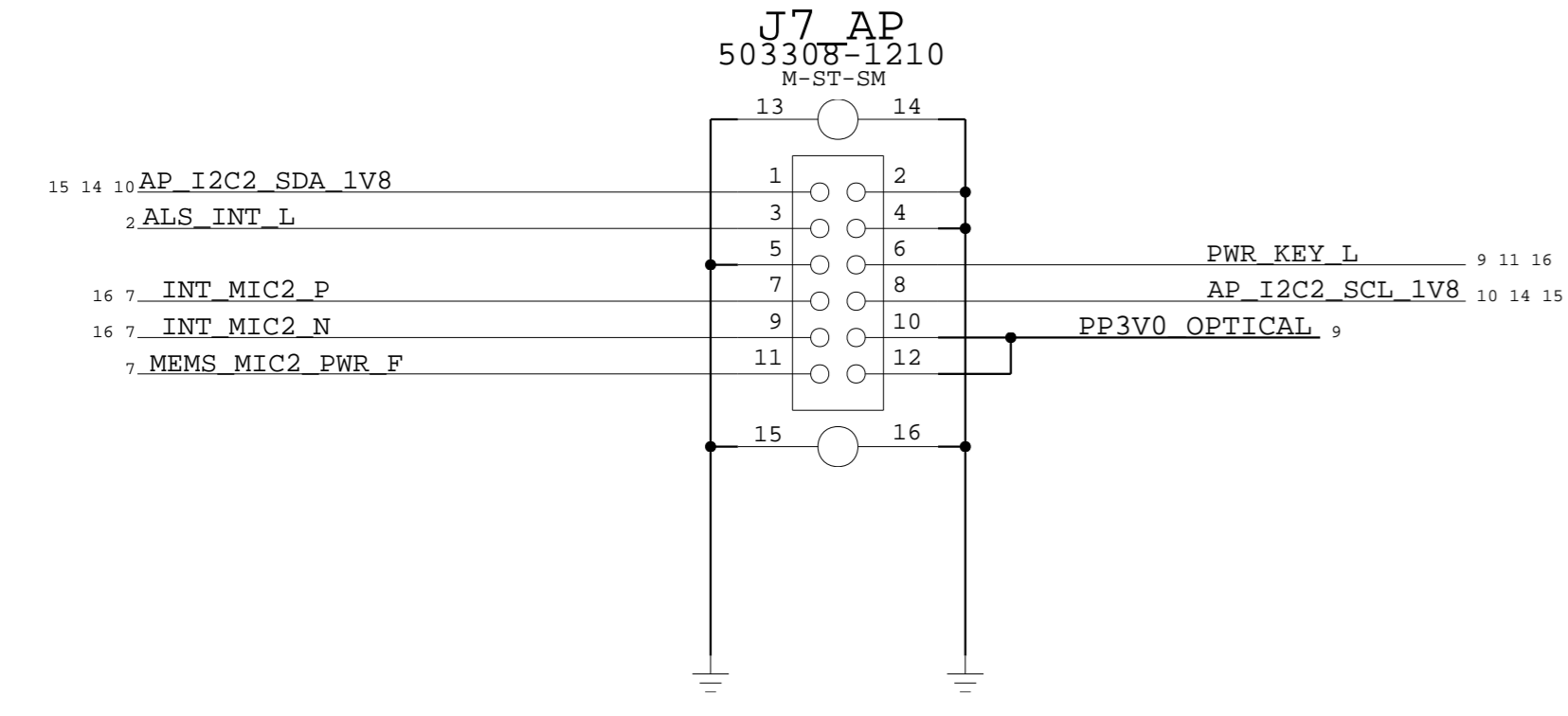


VGA CAMERA CONN



ALS/PROX

I2C ADDRESS: 011_1001X (0X39)



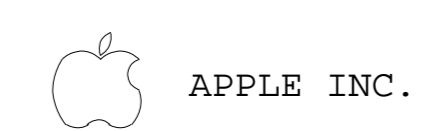
CAMERA, STROBE, ALS, PROX

SYNC_MASTER=N/A SYNC_DATE=N/A

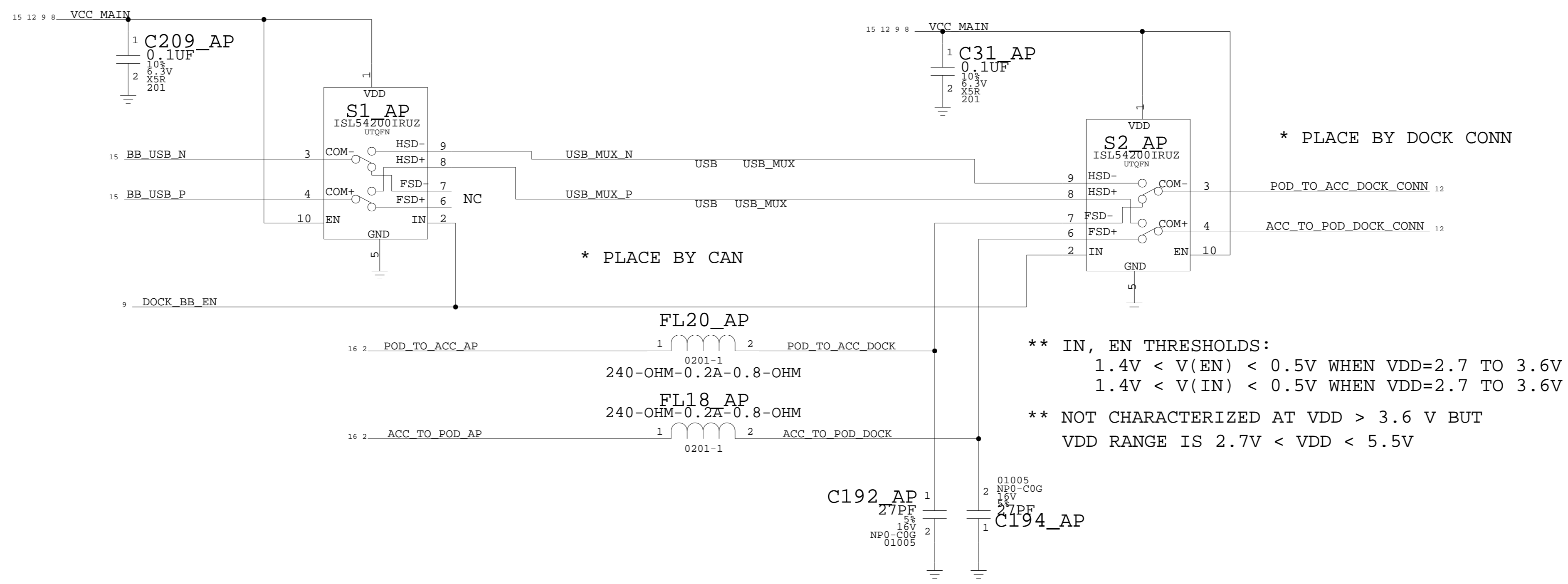
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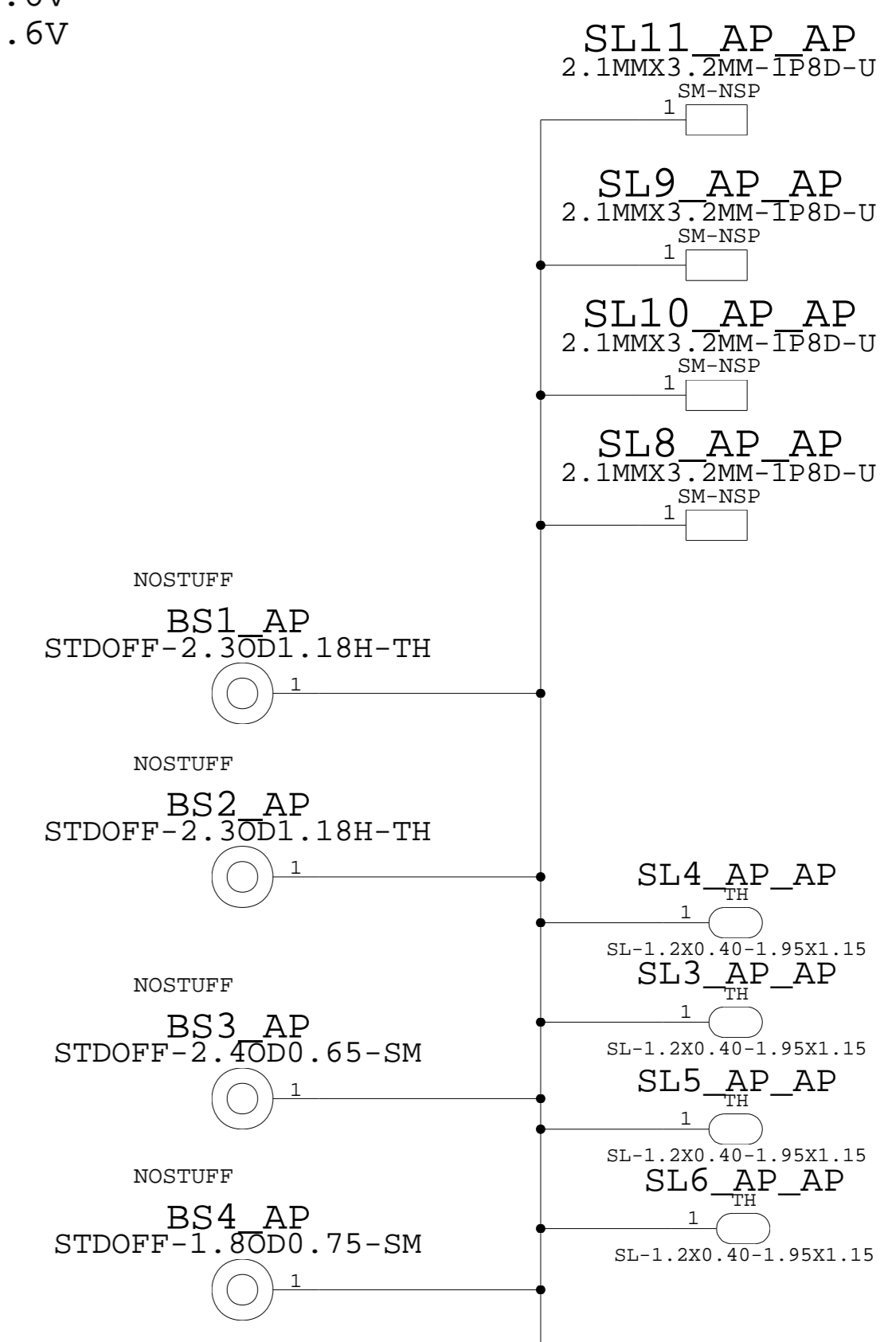


SIZE	DRAWING NUMBER	REV.
D	051-7921	01
SCALE	SHT	OF
NONE	14	16



AP/RADIO INTERFACE

14 9 BATT_VCC	PWR2500	IN	RADIO_ON	2	OUT
9 BATTSNS		IN	WLAN_SDIO_DATA<2>	3	IO
			WLAN_SDIO_DATA<3>	3	IO
			WLAN_SDIO_DATA<0>	3	IO
			WLAN_SDIO_DATA<1>	3	IO
16 9 NTC		IN	WLAN_SDIO_CLK	3	IN
			WLAN_SDIO_CMD	3	IO
9 RESET_PMU_L		OUT	AP_PMU_EXTN	5 9	IN
3 WLAN_RESET_L		OUT	AP_SPI2_MISO	3	IN
3 AP_UART3_MUX1_RXD		IN	SIM_VCC	10	IN
3 AP_UART3_MUX1_TXD		OUT	BB_RST_L	2	OUT
9 BT_RESET_L		OUT	RESET_DET_L	2	IN
3 AP_UART3_CTS_L		IN	AP_UART1_TXD	3 12	OUT
3 AP_UART3_MUX0_RXD		IN	AP_UART1_RXD	3 12	IN
3 AP_UART3_MUX0_TXD		OUT	AP_SPI2_SCLK	3	OUT
3 AP_UART3_RTS_L		OUT	AP_UART1_RTS_L	3	OUT
3 AP_UART1_CTS_L		IN	AP_SPI2_MOSI	3	OUT
15 BB_USB_N		IO	SIMCRD_CLK	10	IN
15 BB_USB_P		IO	SIMCRD_RST	10	IN
			SIMCRD_IO	10	IO
2 BT_WAKE		OUT	AP_I2S2_MCLK	3	OUT
3 BB_FLASH_ACTIVE_L		IN	AP_I2S2_BCLK	3 11	OUT
			AP_I2S2_LRCLK	3 11	OUT
8 FM_ANT		OUT	AP_SPI2_SRDY	3	OUT
			SIM_DETECT	10	OUT
11 3 AP_I2S1_DOUT		OUT	AP_I2S2_DOUT	3 11	OUT
11 3 AP_I2S1_DIN		IN	AP_I2S2_DIN	3 11	IN
11 3 AP_I2S1_BCLK		OUT	RESET_IV8_L	2 4 12 16	IN
11 3 AP_I2S1_LRCLK		OUT	BATTERY_SWI	2 9	IO
9 VLCMI		OUT	LED_DRIVE_GSM8	14	IN
			BT_HOST_WAKE	9	IN
5 GPS_INTR_L		IN	WLAN_HOST_WAKE	9	IN
5 GPS_STANDBY_AP_L		OUT	CLK_32K_WIFI	9	OUT
5 GPS_RESET_AP_L		OUT	HP_PCMI_I2S_BCLK	7 11	OUT
5 GPS_SYNC		OUT	HP_PCMI_I2S_DIN	7 11	IN
			HP_PCMI_I2S_DOUT	7 11	OUT
7 6 AP_I2S0_LRCLK		OUT	HP_PCMI_I2S_LRCLK	7 11	OUT
7 6 AP_I2S0_BCLK		OUT			
7 6 AP_I2S0_DIN		IN			
14 10 AP_I2C2_SCL_IV8		OUT			
14 10 AP_I2C2_SDA_IV8		IO			
9 WL_BT_REG_ON		OUT	PP1V8_SDRAM	3 8 9 11	OUT



RADIO CONNECTIVITY

SYNC_MASTER=N/A SYNC_DATE=N/A

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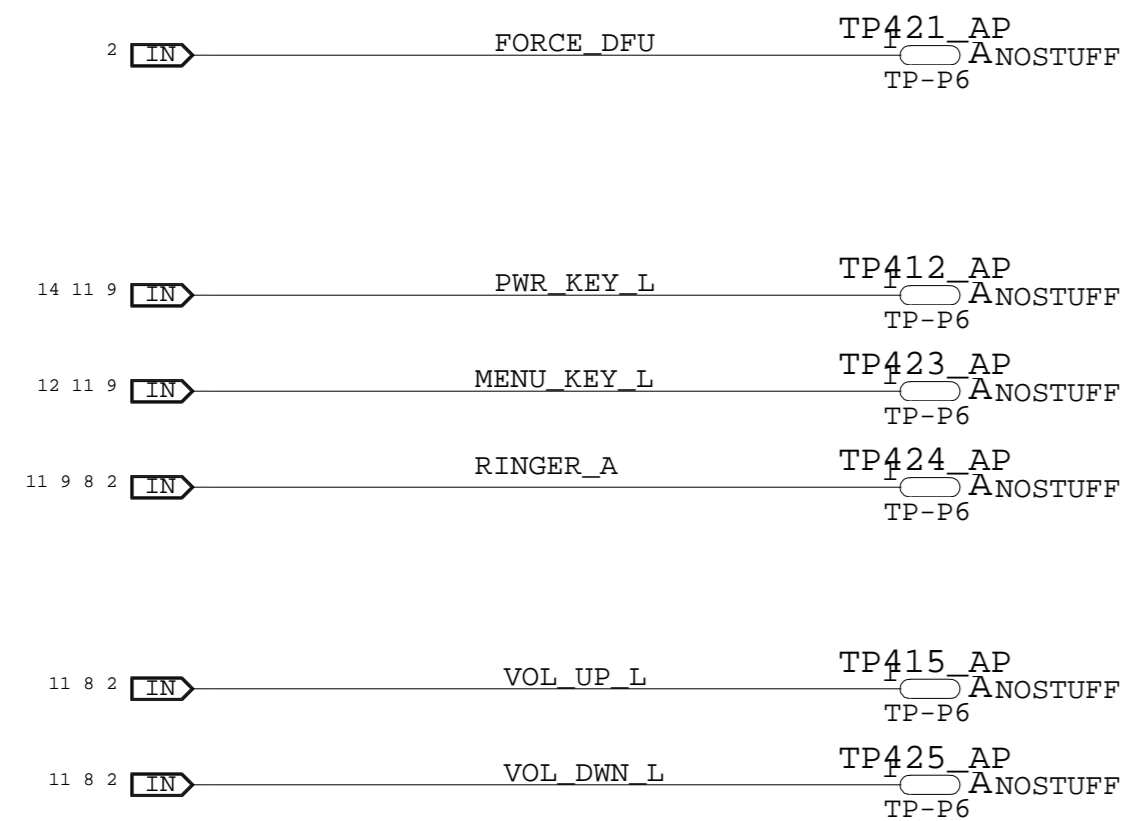
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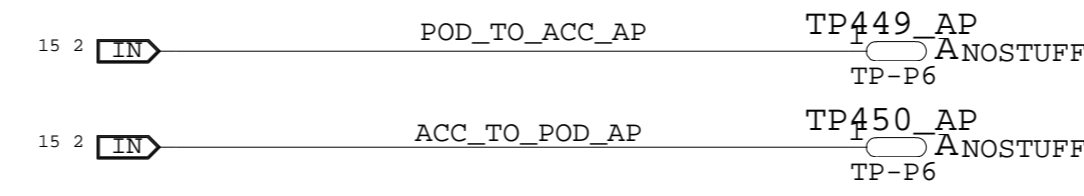
APPLE INC.	SIZE	DRAWING NUMBER	REV.
	NONE	051-7921	01
SCALE		SHT	OF
NONE		15	16

GPIO

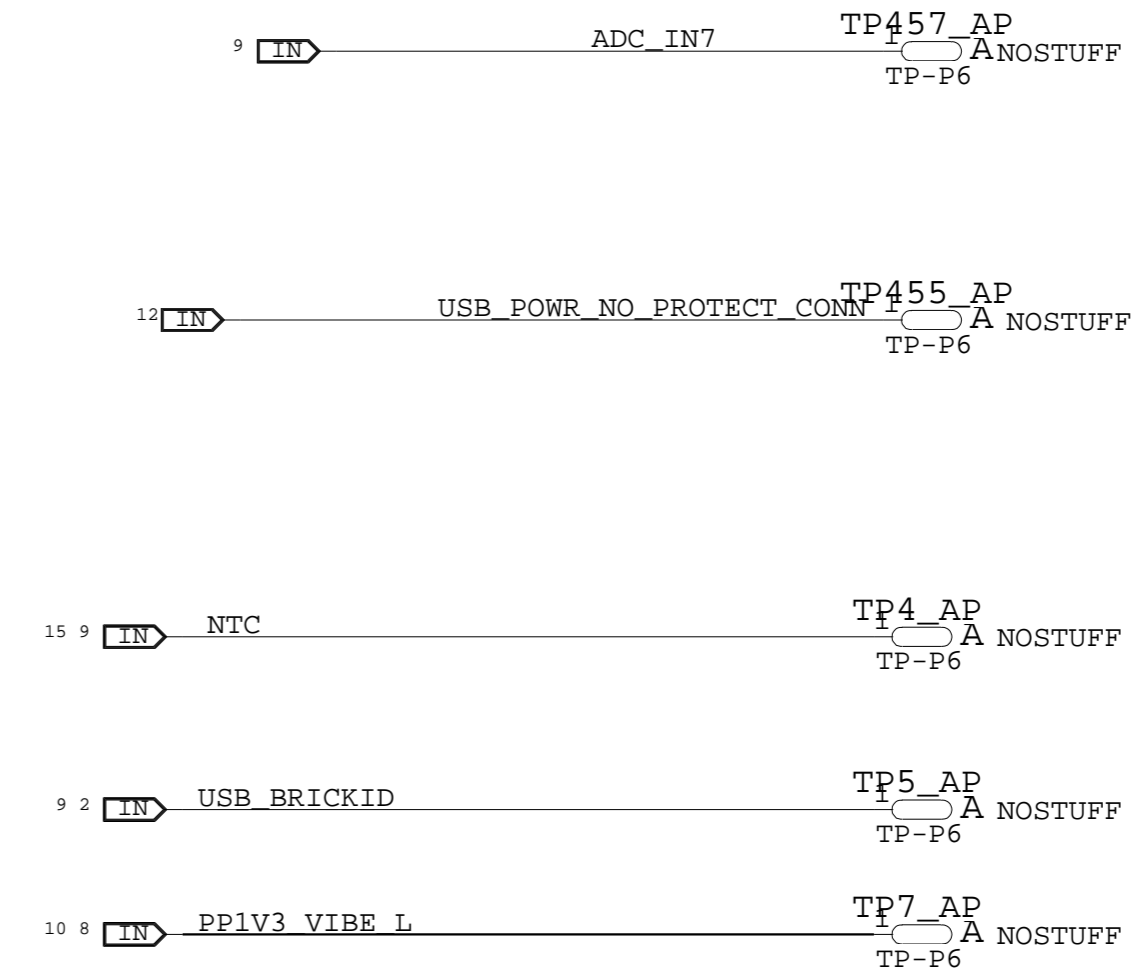


TEST POINTS

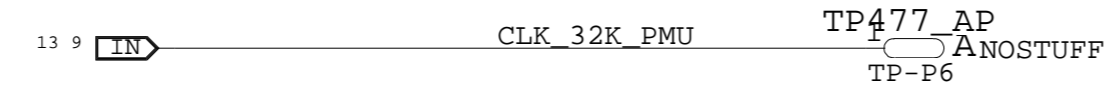
UART



POWER



CLOCK



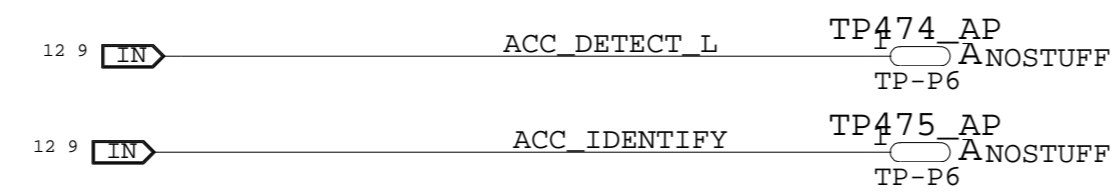
USB



RESET

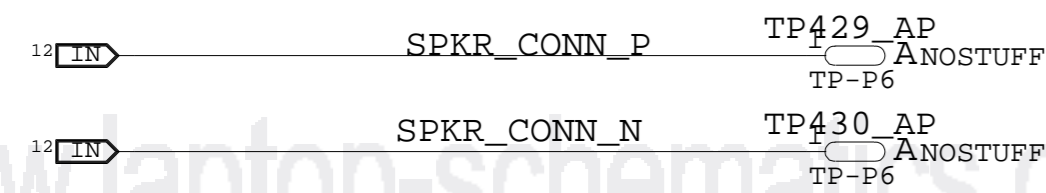


ACCESSORY DETECT

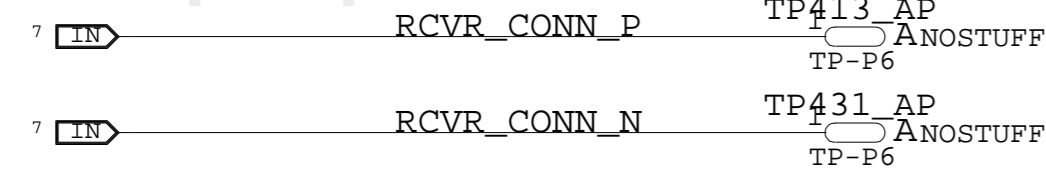


AUDIO

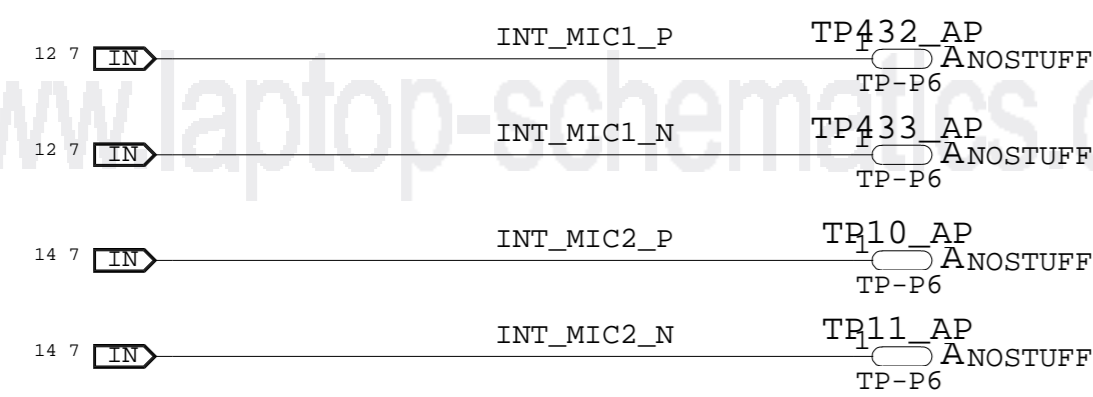
SPEAKER



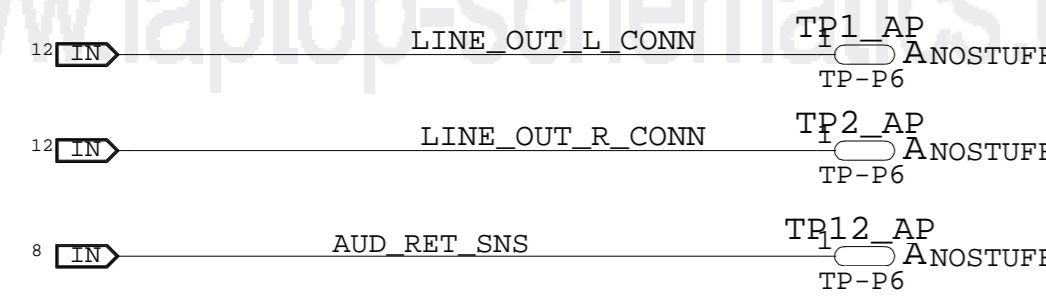
RECEIVER



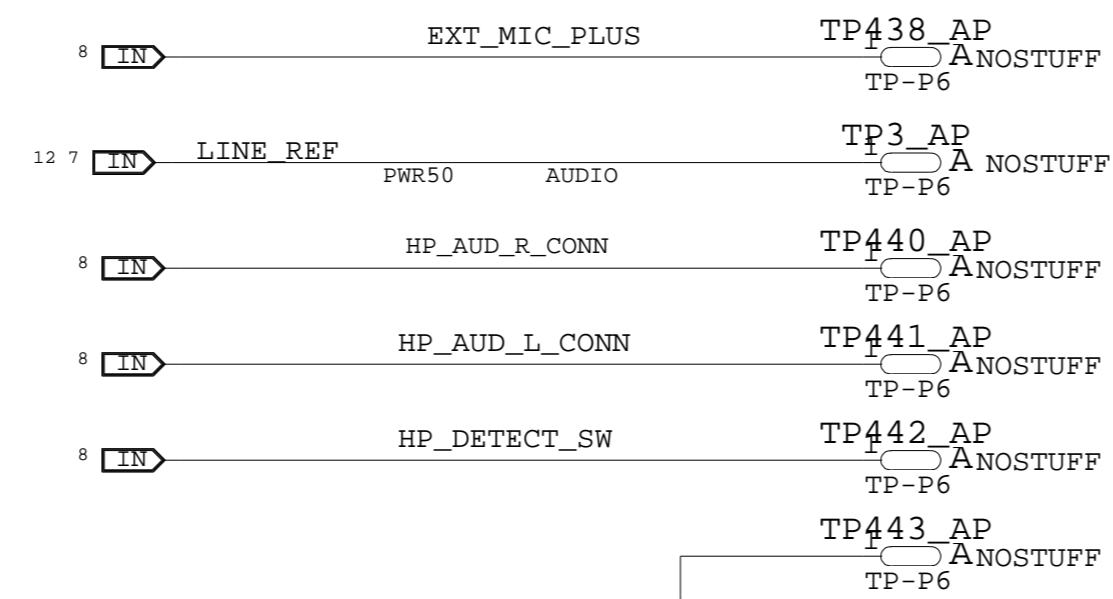
MIC



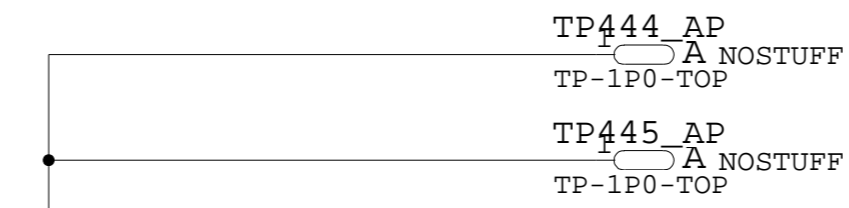
LINE OUT



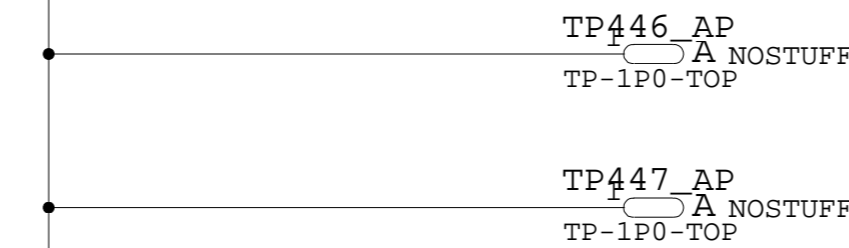
HEADPHONE



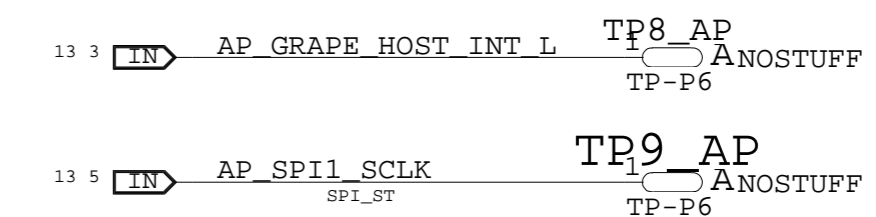
POWER GND



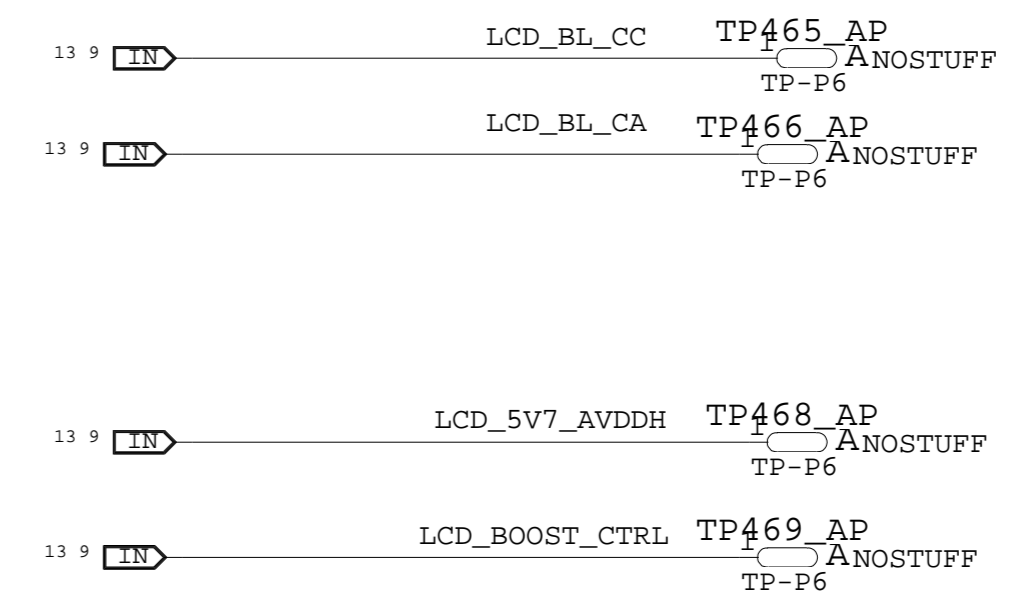
SIGNAL GND



GRAPE



LCM



TEST POINTS

SYNC_MASTER=N/A SYNC_DATE=N/A

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SIZE	DRAWING NUMBER	REV.
D	051-7921	01
SCALE	SHT	OF
NONE	16	16

D

C

B

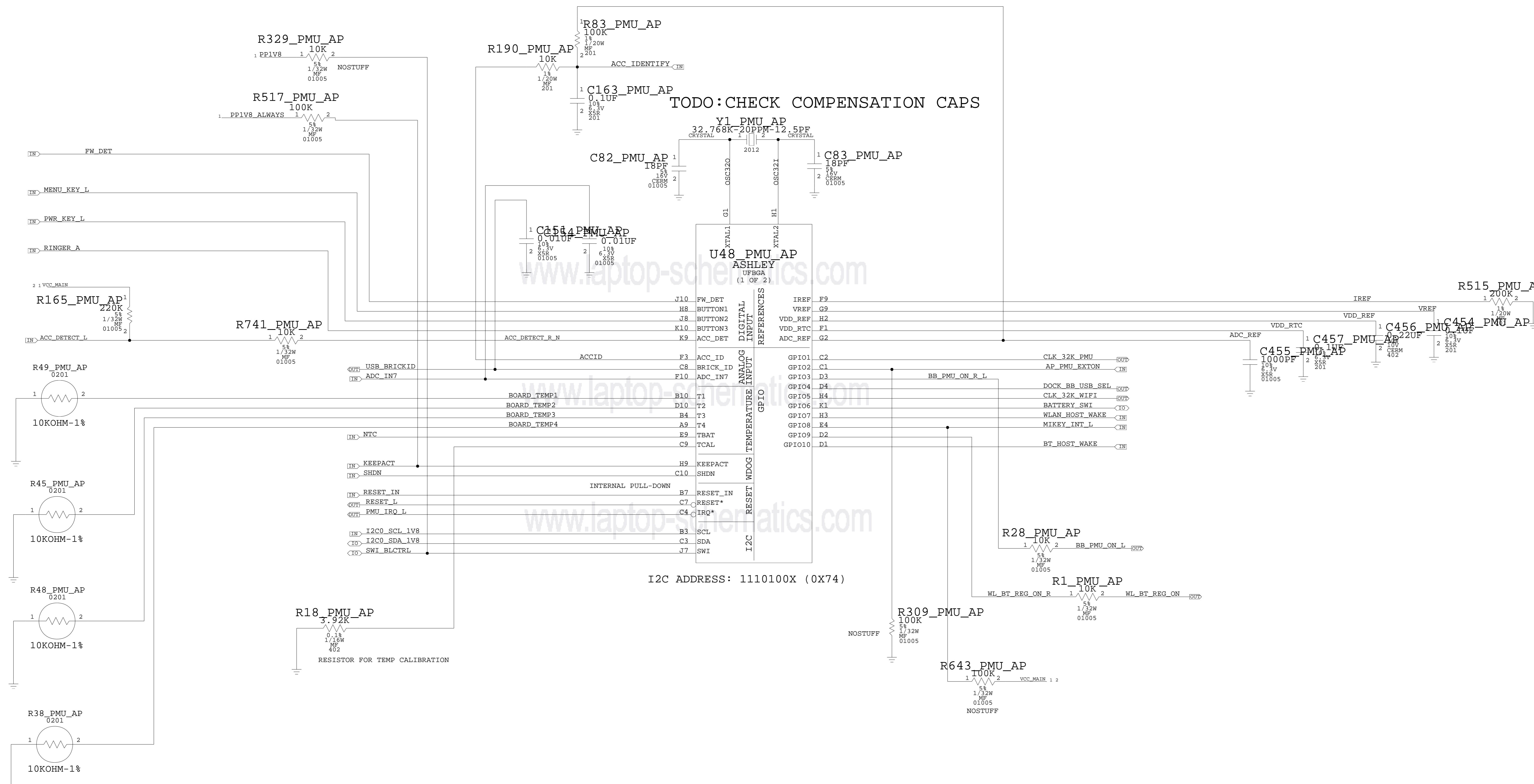
A

D

C

B

A



ASHLEY PMU

SYNC_MASTER=N/A SYNC_DATE=N/A

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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	951-0719	1
SCALE	SHT	OF	
NONE	2	2	

N90 (ICE3) HSPA RADIO


PROTO1 - 04/10/09:BRD REV2

PAGE	CONTENTS
02	BASEBAND AUDIO & I/O
03	BASEBAND + MEMORY
04	BASEBAND POWER SUPPLY
05	GSM & UMTS TRANSCEIVER
06	POWER AMPS AND RF FRONT END
07	SYSTEM CONNECTORS
08	A-GPS
09	WLAN/BLUETOOTH/FM RADIO

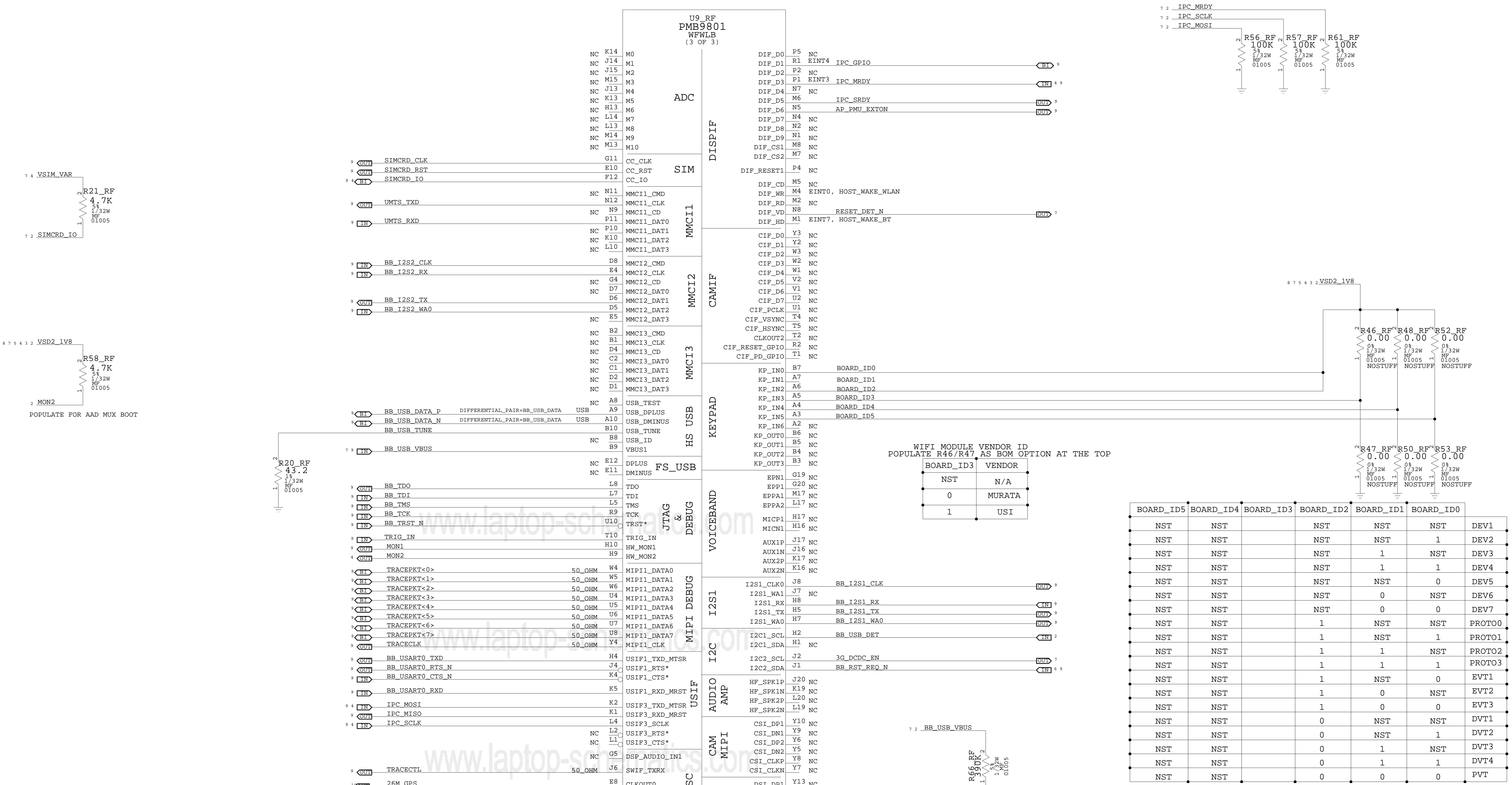
BOARD - 920-XXXX
 SCHEMATIC - 951-XXXX
 BOM - 630-XXXX

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
951-0716	1	N82_RF_AND_AP_SCHEMATIC	SCH	Y	
920-0593	1	N82_RF_AND_AP_PCB	PCB	Y	
825-2029	1	EEE: Y5K(8GB), YEU(16GB)	EEE:Y5K	Y	

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 APPLE INC.	SIZE D	DRAWING NUMBER 951-XXXX	REV. 01
	SCALE NONE	SHT 1 OF 9	

BASEBAND AUDIO & IO



BOOT CONFIG DESCRIPTION

DSP_AUDIO_IN1, MON1 AND MON2 ARE ONLY ON TP AVAILABLE

DSP_AUDIO_IN1 HWCFG[3]	MON1 HWCFG[2]	MON2 HWCFG[1]	TRIG_IN HWCFG[0]	BOOT CONFIG DESCRIPTION
0	0	0	0	EXTERNAL BOOT VIA USB
0	0	0	1	NOR FLASH - EBU CONFIG: 16-BIT AD MUXED
0	0	1	0	NOR FLASH - EBU CONFIG: 16-BIT AAD MUXED

WIFI MODULE VENDOR ID
POPULATE R46/R47 AS BOM OPTION AT THE TOP

BOARD_ID3	VENDOR
NST	N/A
0	MURATA
1	USI

BOARD_ID5	BOARD_ID4	BOARD_ID3	BOARD_ID2	BOARD_ID1	BOARD_ID0	DEV1	DEV2	DEV3	DEV4	DEV5	DEV6	DEV7	PROTO0	PROTO1	PROTO2	PROTO3	EVT1	EVT2	EVT3	DVT1	DVT2	DVT3	DVT4	PVT
NST	NST	NST	NST	NST	NST	NST	1	NST	NST	0	NST	0	NST	NST	NST	NST	0	NST	0	NST	NST	NST	NST	NST
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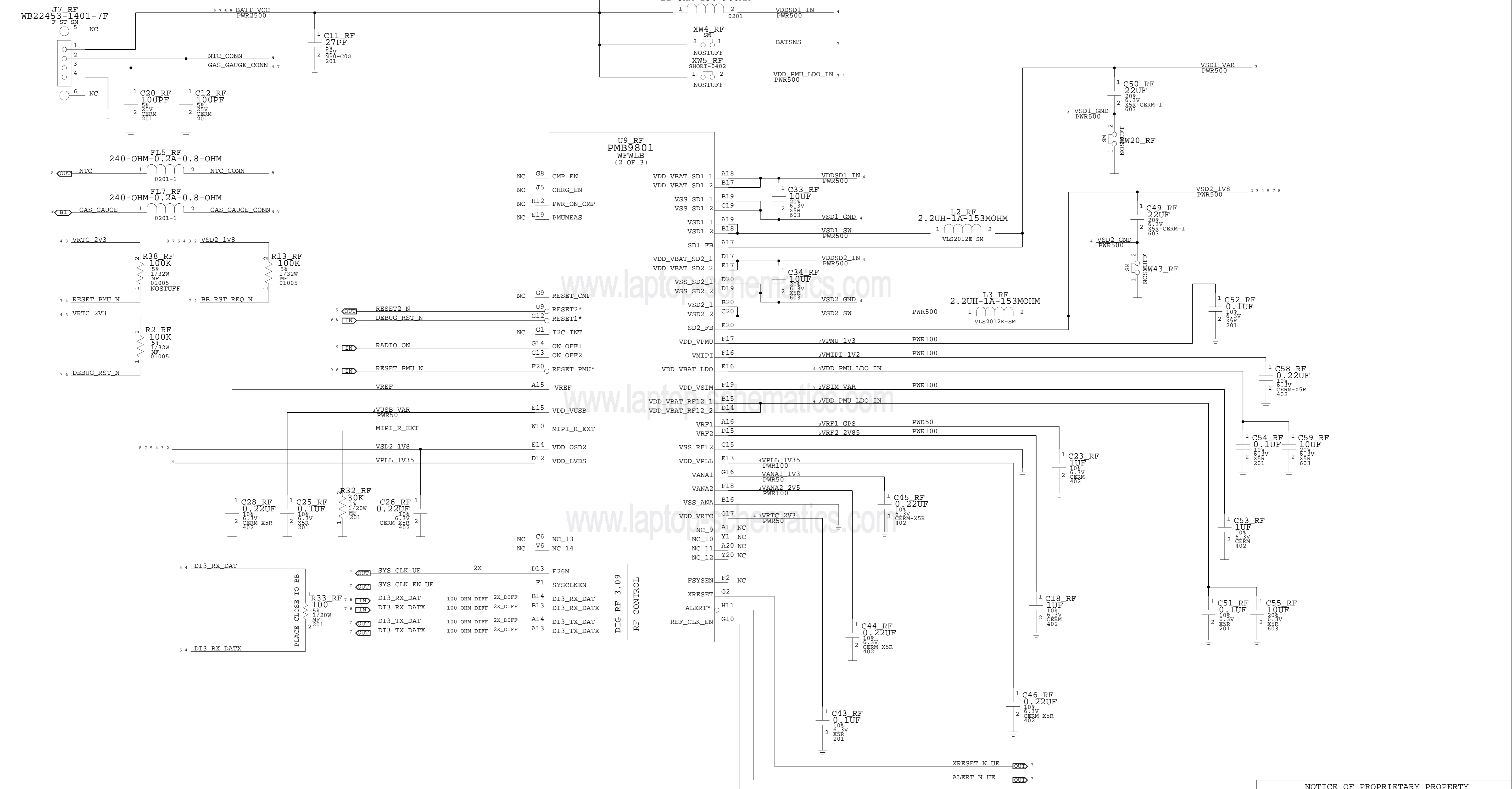
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APPLE INC.

SIZE	D	DRAWING NUMBER	951-XXXX	REV.	1
SCALE	NONE	SHT	2 OF 9		

BASEBAND POWER SUPPLY

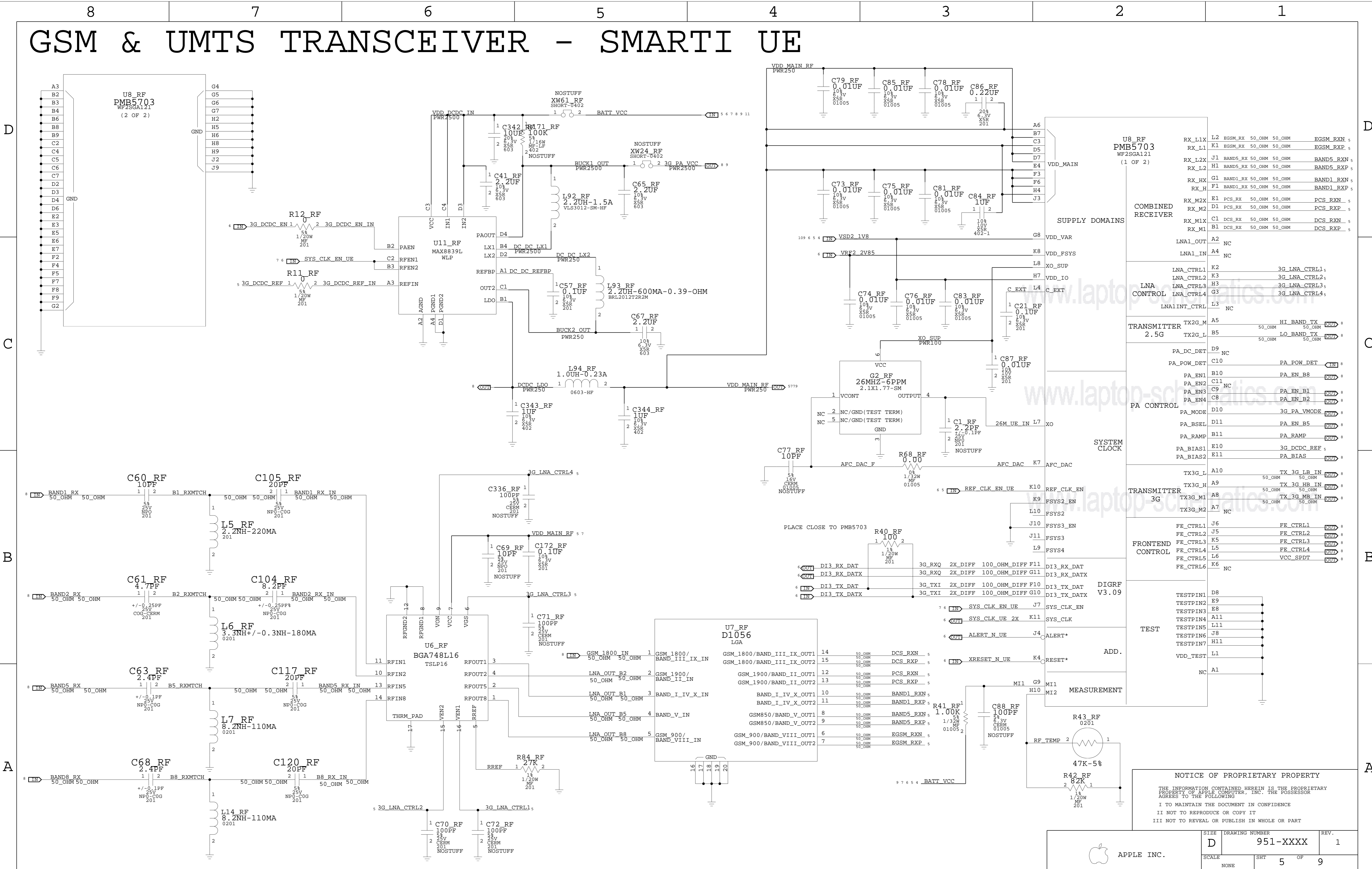
BATTERY CONNECTOR
 NEED TO UPDATE PIN ASSINGMENT



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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	951-XXXX	1
SCALE	NONE	SHT	4 OF 9

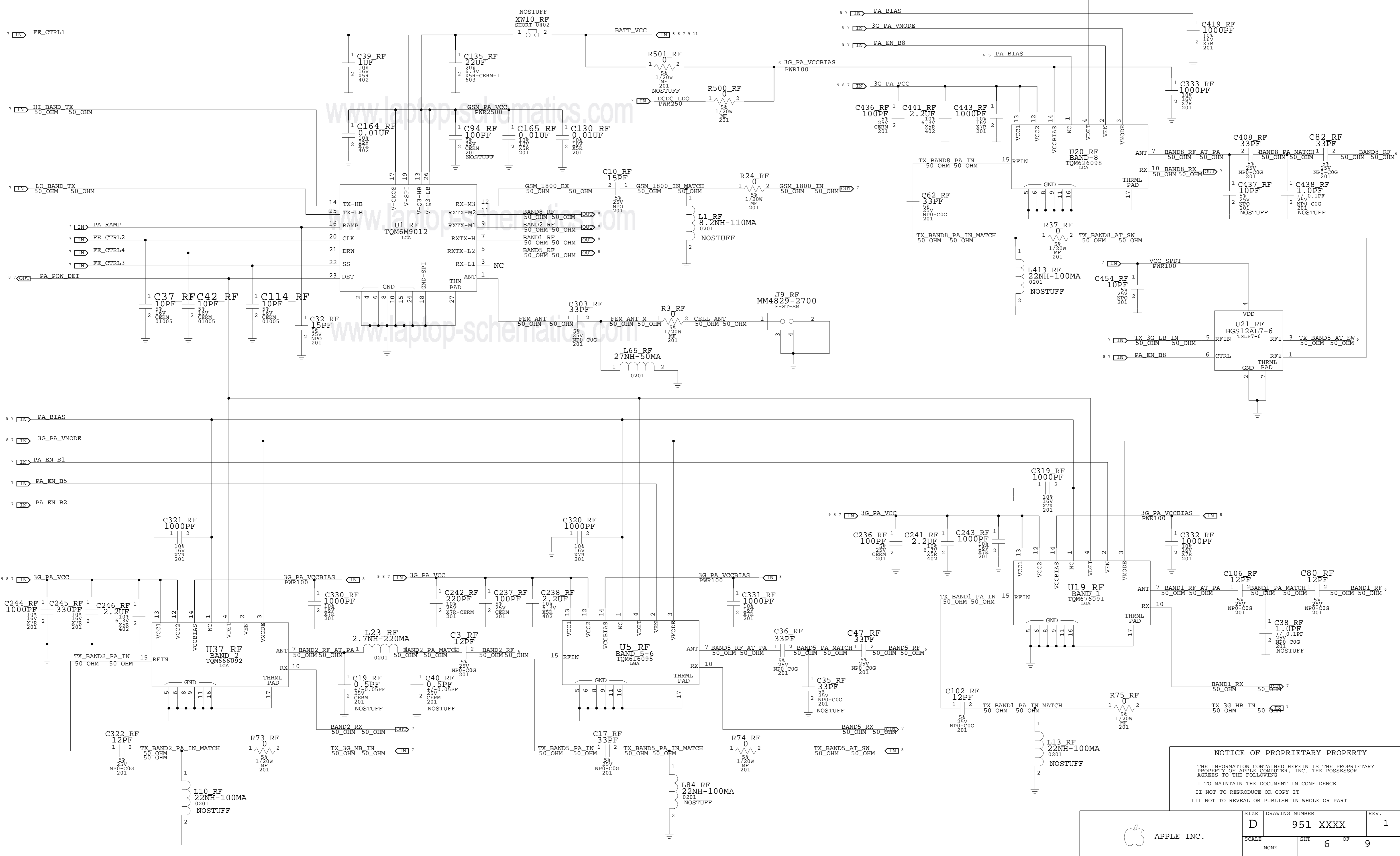
GSM & UMTS TRANSCEIVER - SMARTI UE



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	D	951-XXXX	1
SCALE	SHT	OF	
NONE	5	9	

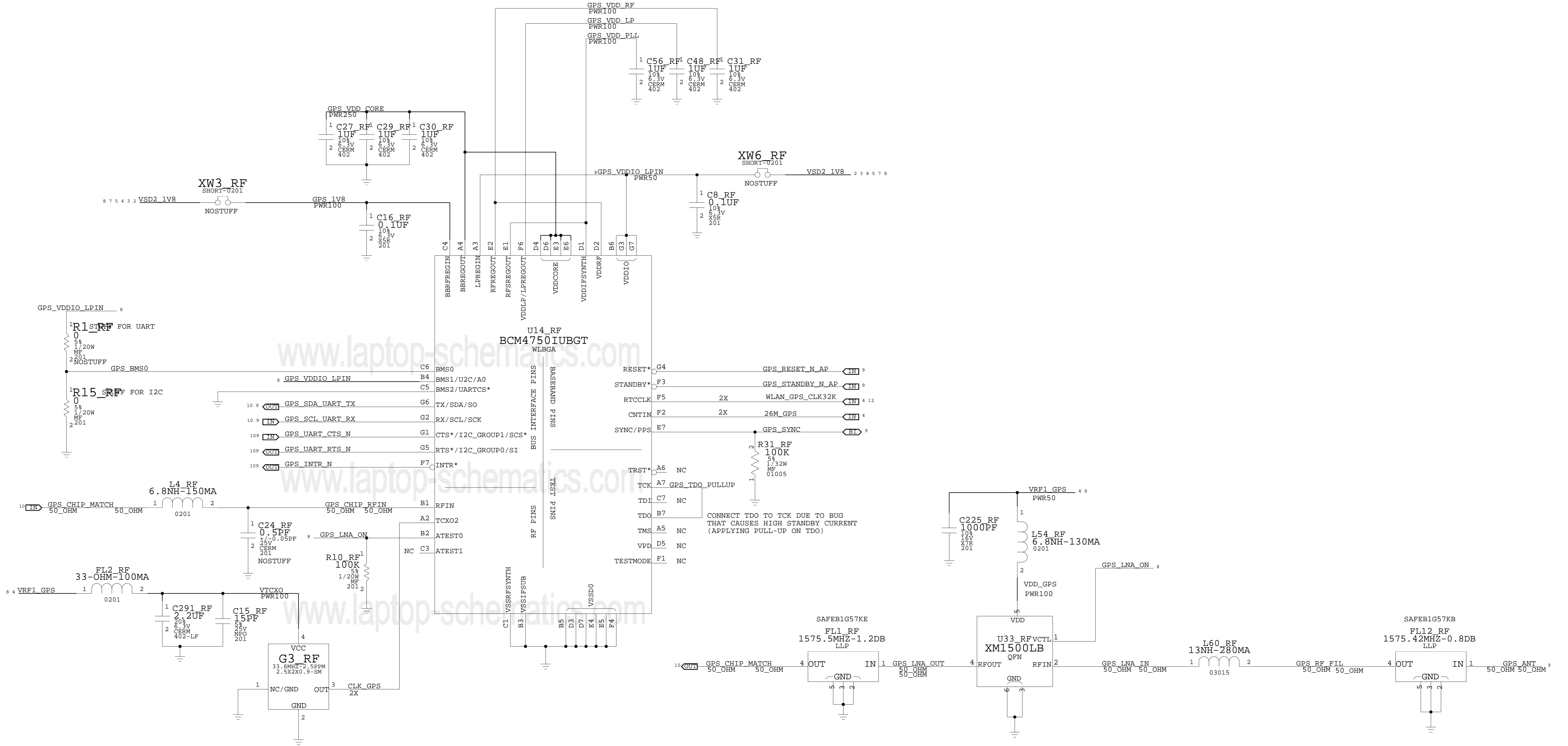
POWER AMPS AND RF FRONT-END MODULE



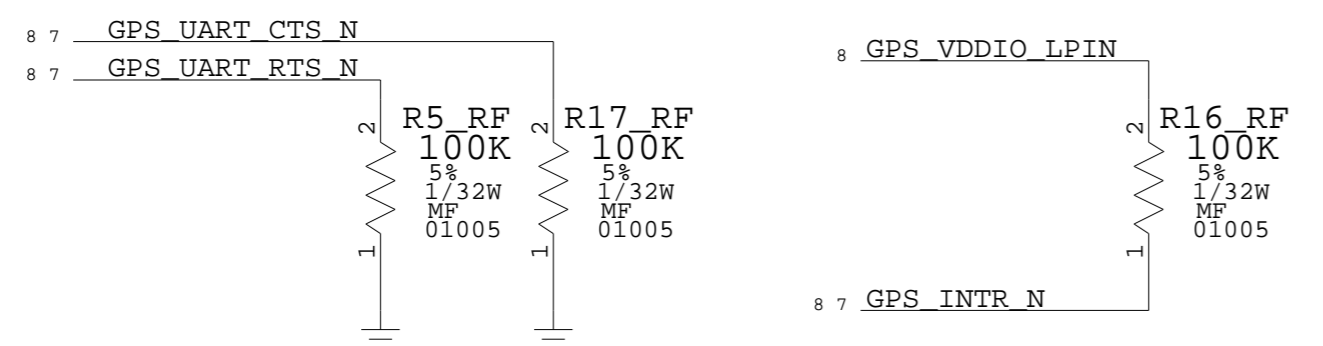
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	SIZE	DRAWING NUMBER	REV.
	D	951-XXXX	1
SCALE	SHT	OF	
NONE	6	9	

A-GPS



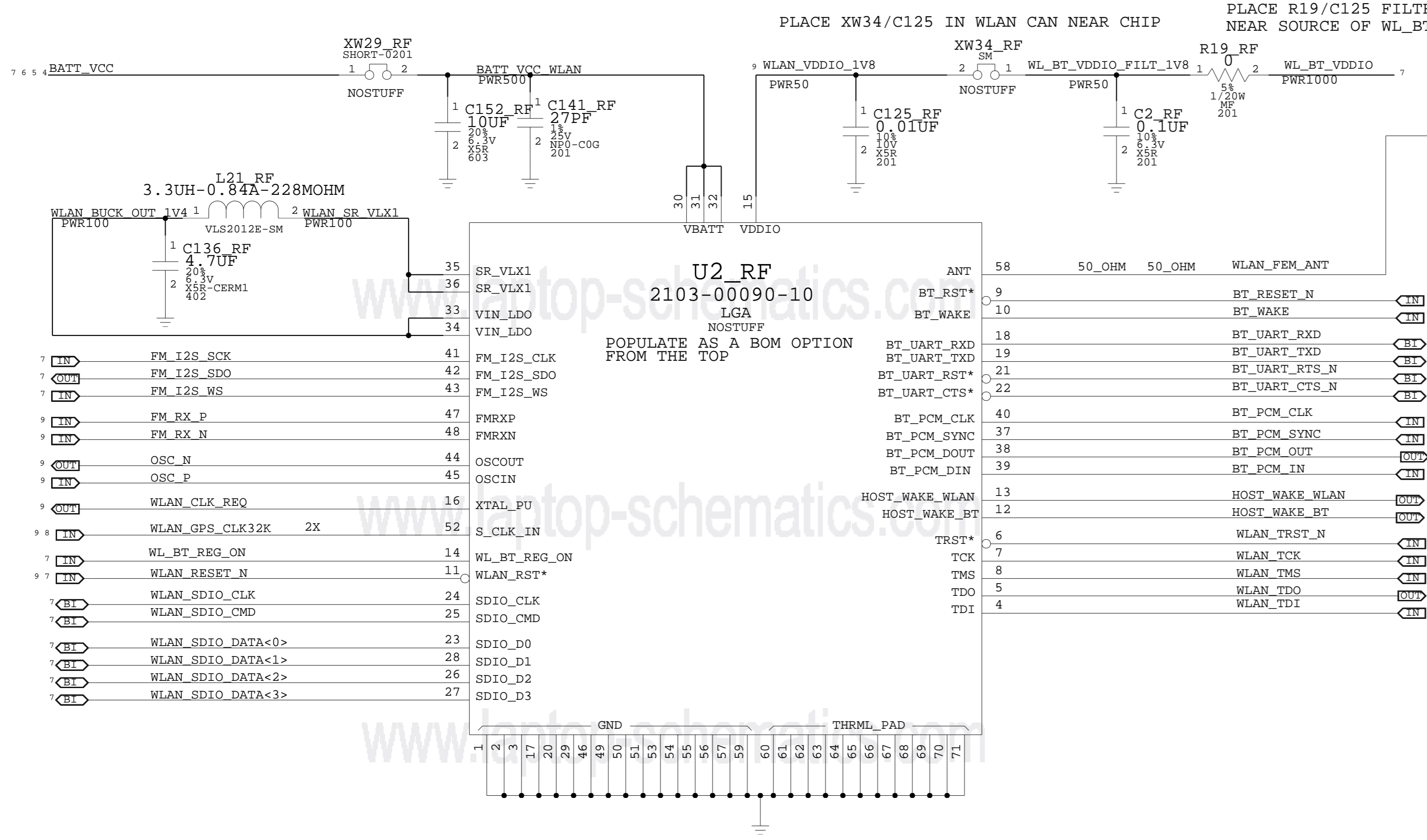
I2C SLAVE ADDRESS 0X12/0X13



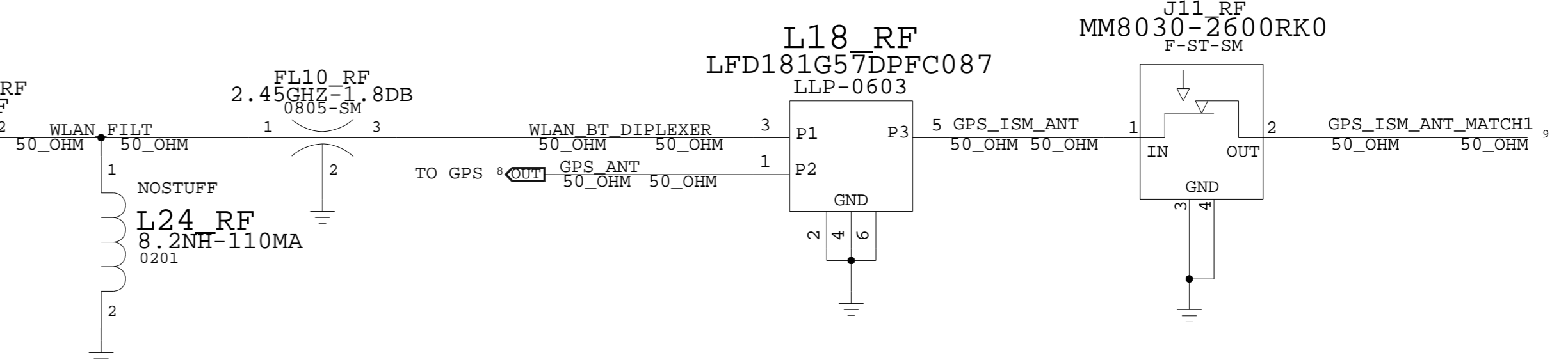
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SCALE		SHT	OF
NONE		8	9

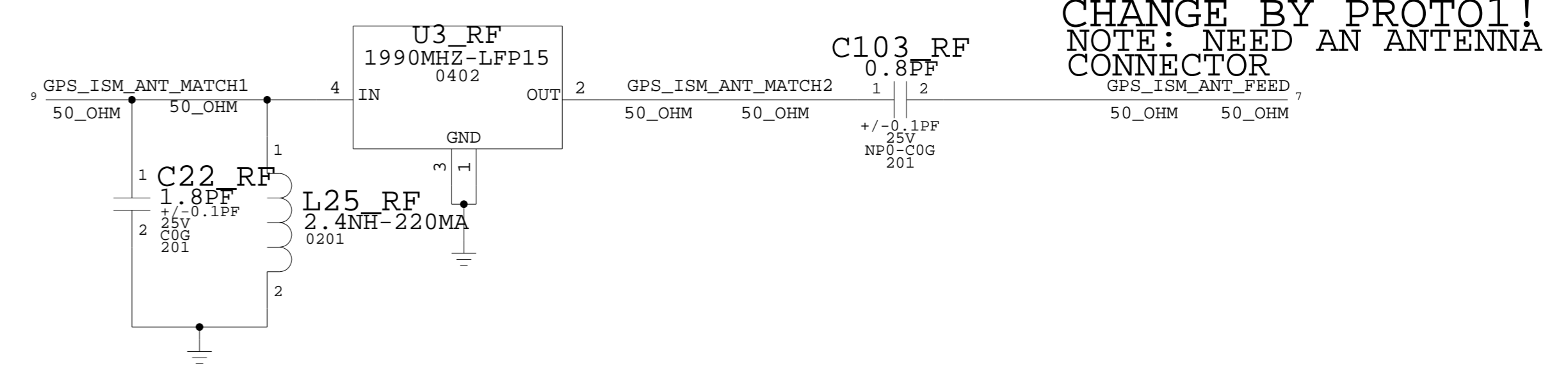
WLAN/BLUETOOTH/FM RADIO



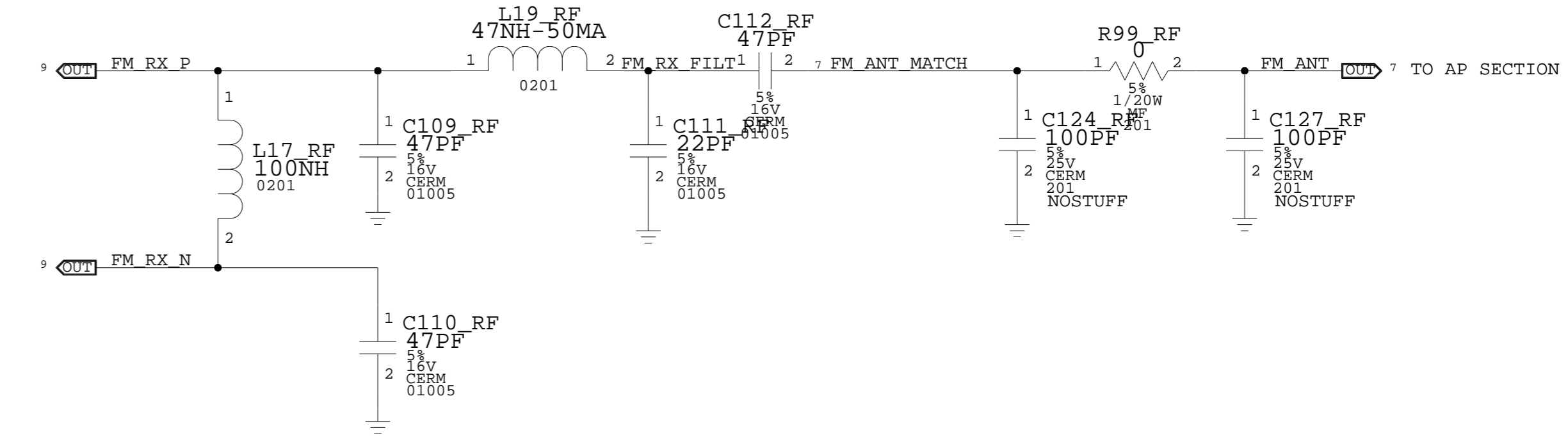
RF FILTER, DIPLEXER, AND CONNECTOR



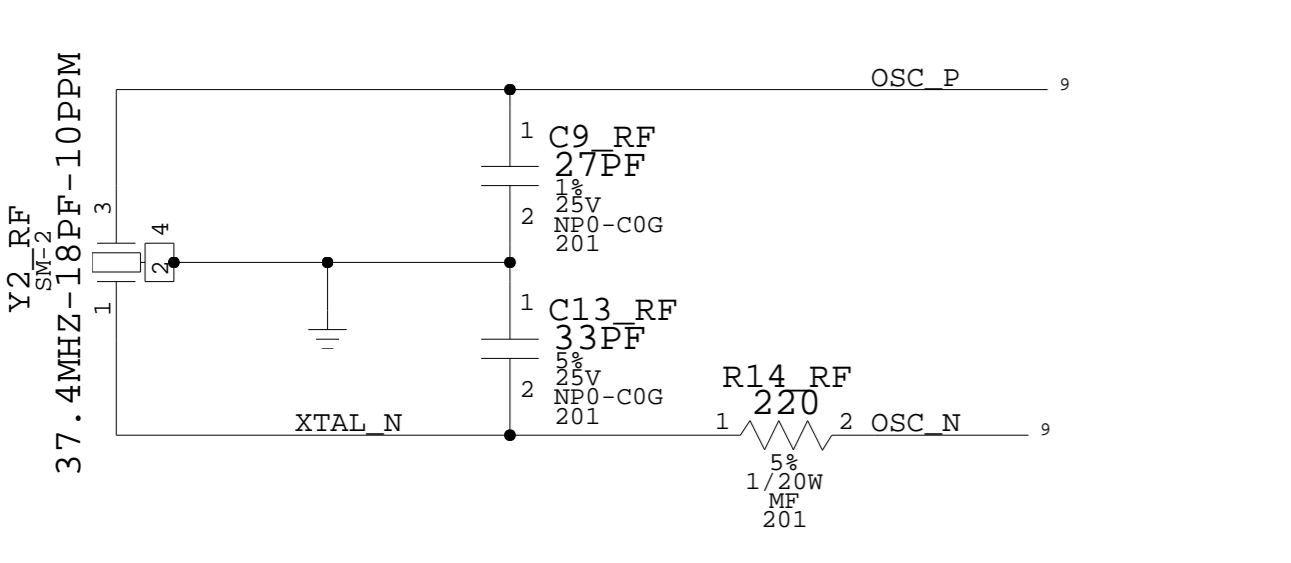
ANTENNA MATCH AND FEED



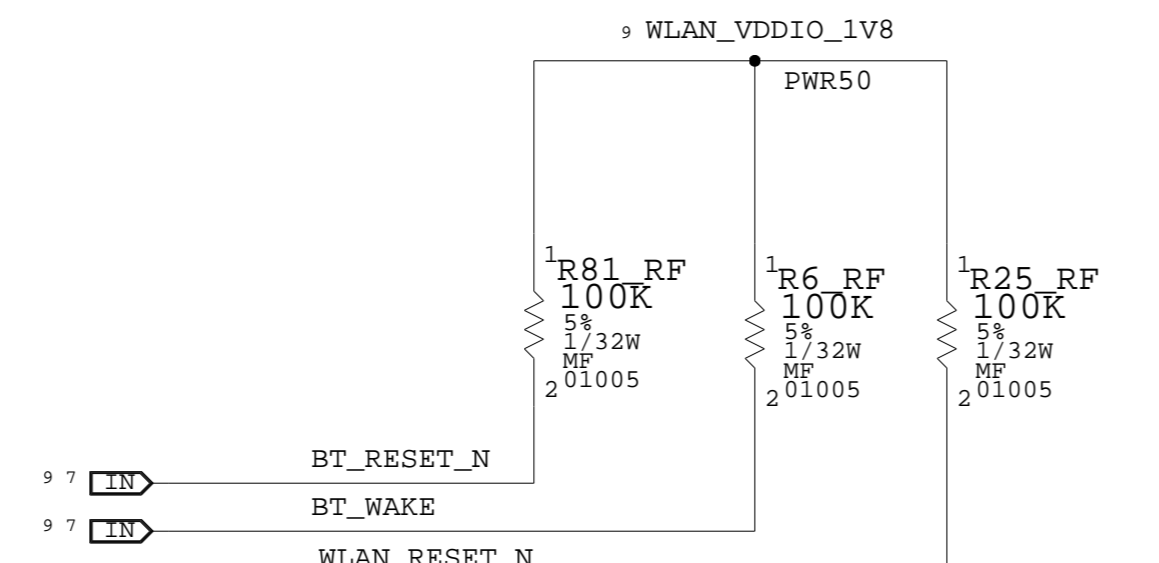
FM INPUT



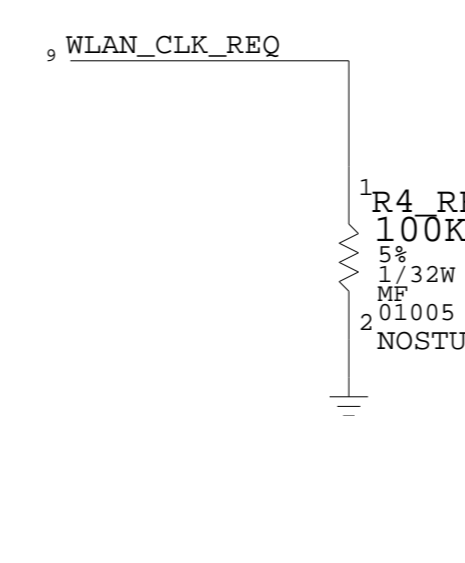
REFERENCE OSCILLATOR CRYSTAL



PULL UP RESISTORS



PULL DOWN RESISTORS



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