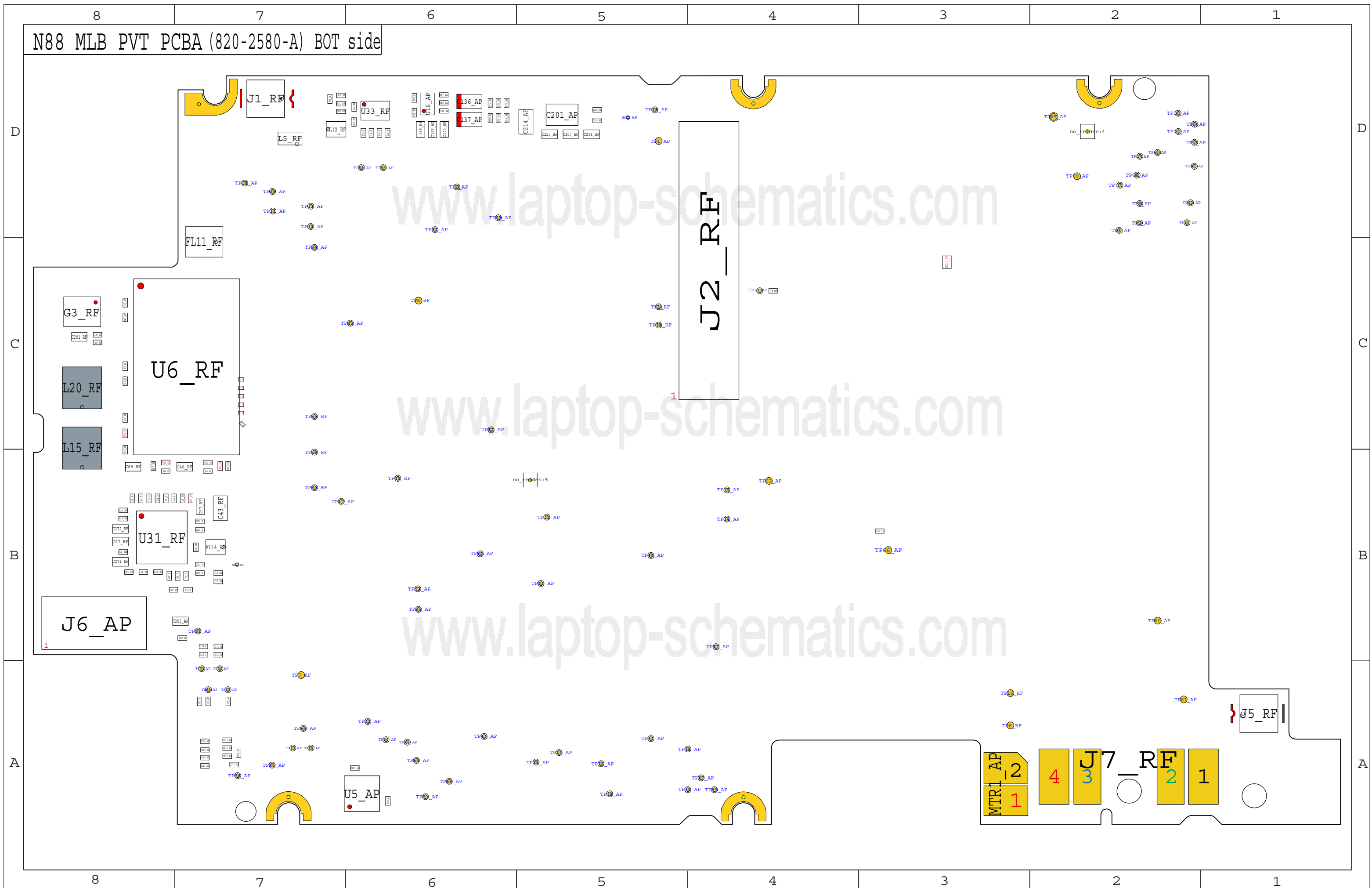




N88 MLB PVT PCBA (820-2580-A) BOT side



# iPhone 3GS 7/10/2009 REVA

PAGE	CONTENTS
02	RADIO AND AP SCHEMATIC INSTANTIATION

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-8004	1	N88_SCHEMATIC_TOP	SCH	Y	?
820-2580	1	N88_SINGLE_BOARD	PCB	Y	?
PROTO_RADIO	1	2G RF SOLUTION		Y	2G_RF
PROTO_RADIO	1	3G RF SOLUTION		Y	3G_RF
COMPASS	1	BOTTOM COMPASS LOCATION		Y	COMPASS_BOT
COMPASS	1	TOP COMPASS LOCATION		Y	COMPASS_TOP
JTAG	1	JTAG DEVELOPMENT BOM		Y	DEVELOPMENT
JTAG	1	JTAG PRODUCTION BOM		Y	PRODUCTION

## NAND BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0643	1	8GB HYNIX 48NM FLASH	U1_AP	Y	FLASH_8GB
335S0642	1	16GB SAMSUNG 42NM FLASH	U1_AP	Y	FLASH_16GB
335S0650	1	32GB SAMSUNG 43NM FLASH	U1_AP	Y	FLASH_32GB

## NAND ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
335S0637	335S0598	FLASH_8GB	U1_AP	8GB SAMSUNG 42NM FLASH
		?		

## DEV FUSED BB BOM OPTION

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
998-2348	1	DEV FUSED BB	U22_RF	Y	DEV_FUSED_BB

## N88 EEE BOM LABELS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
825-2029	1	EEE FOR 639-0066 (16G)	EEE:8DL	Y	EEE_16GB_MURATA
825-2029	1	EEE FOR 639-0067 (16G)	EEE:8DM	Y	EEE_16GB_MITSUMI
825-2029	1	EEE FOR 639-0068 (32G)	EEE:8DN	Y	EEE_32GB_MURATA
825-2029	1	EEE FOR 639-0069 (32G)	EEE:8DP	Y	EEE_32GB_MITSUMI

## SIM CONNECTOR ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
512S0069	512S0060	?	J2_AP	SIM CONNECTOR
512S0070	512S0060	?	J2_AP	SIM CONNECTOR

## WIFI/BT BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S0072	1	MURATA WIFI/BT MODULE	U6_RF	Y	MURATA
339S0077	1	MITSUMI WIFI/BT MODULE	U6_RF	Y	MITSUMI
118S0012	1	MURATA ID RESISTOR	R61_RF	Y	MURATA
118S0012	1	MITSUMI ID RESISTOR	R6_RF	Y	MITSUMI

## GPS TCXO BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
197S0290	1	KDS TCXO	G3_RF	Y	KDS_GPS_TCXO
197S0333	1	EPSON TCXO	G3_RF	Y	EPSON_GPS_TCXO

## VIDEO AMP ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
353S1625	353S1650	?	U14_AP	VIDEO AMP

## DISPLAY DC-DC ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
353S1989	353S2529	?	U20_AP	LCM DC-DC

## ZIF CONNECTOR ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
518S0611	518S0600	?	J7_AP	ALS ZIF CONN

## 26 MHZ ALTERNATE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
197S0255	197S0275	?	G2_RF	RF 26 MHZ CLK

## BAND 2 PA

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S2363	1	BAND 2 PA, IPX	U37_RF	Y	IPX_BAW
353S2522	1	BAND 2 PA, TRIQUINT	U37_RF	Y	TQNT_BAW

## RF DDR MEMORY


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0617	1	SPANSION DDR	U1_RF	Y	RF_SPANSION
335S0652	1	NUMONYX DDR	U1_RF	Y	RF_NUMONYX
335S0632	1	SAMSUNG DDR	U1_RF	Y	RF_SAMSUNG
341S2474	1	ALL SUPPLIER SUB-BOM DDR	U1_RF	Y	RF_PROGRAMMED_BASEBAND_MEMORY

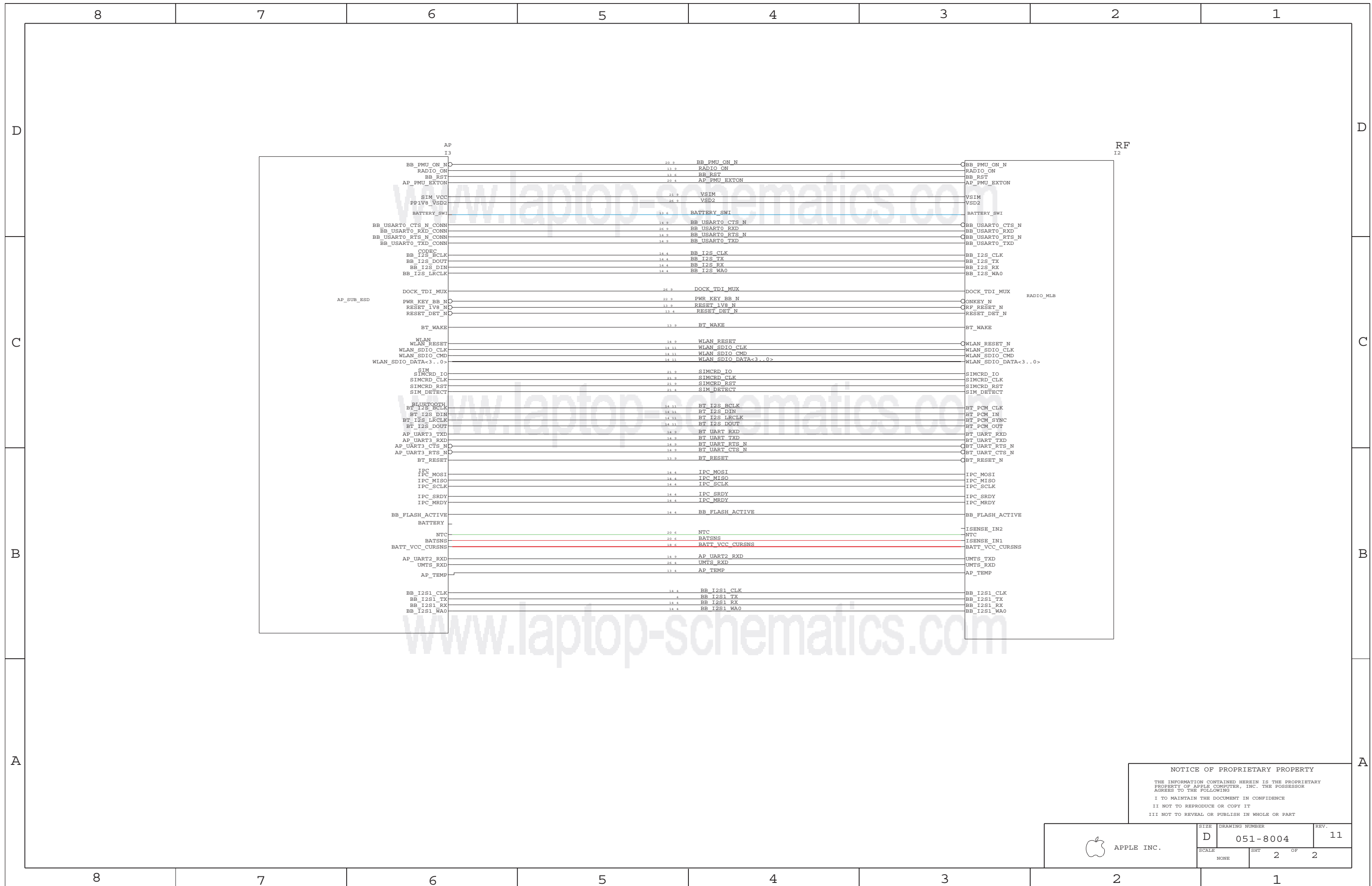
BOARD - 820-2580  
 SCHEMATIC - 051-8004  
 MCO - 056-2731

BOM - 639-0065 (16GB+MURATA)  
 BOM - 639-0066 (16GB+MITSUMI)  
 BOM - 639-0067 (32GB+MURATA)  
 BOM - 639-0068 (32GB+MITSUMI)

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	NONE	D 051-8004	11
	SHT	1 OF	2



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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-8004	11
SCALE	SHT 2 OF 2		
NONE			

# iPhone 3GS (ICE2.1) HSDPA RADIO


## 06/23/09 (A) : BRD

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

BOARD - 920-0593  
 SCHEMATIC - 951-0716  
 BOM - 630-9356

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	

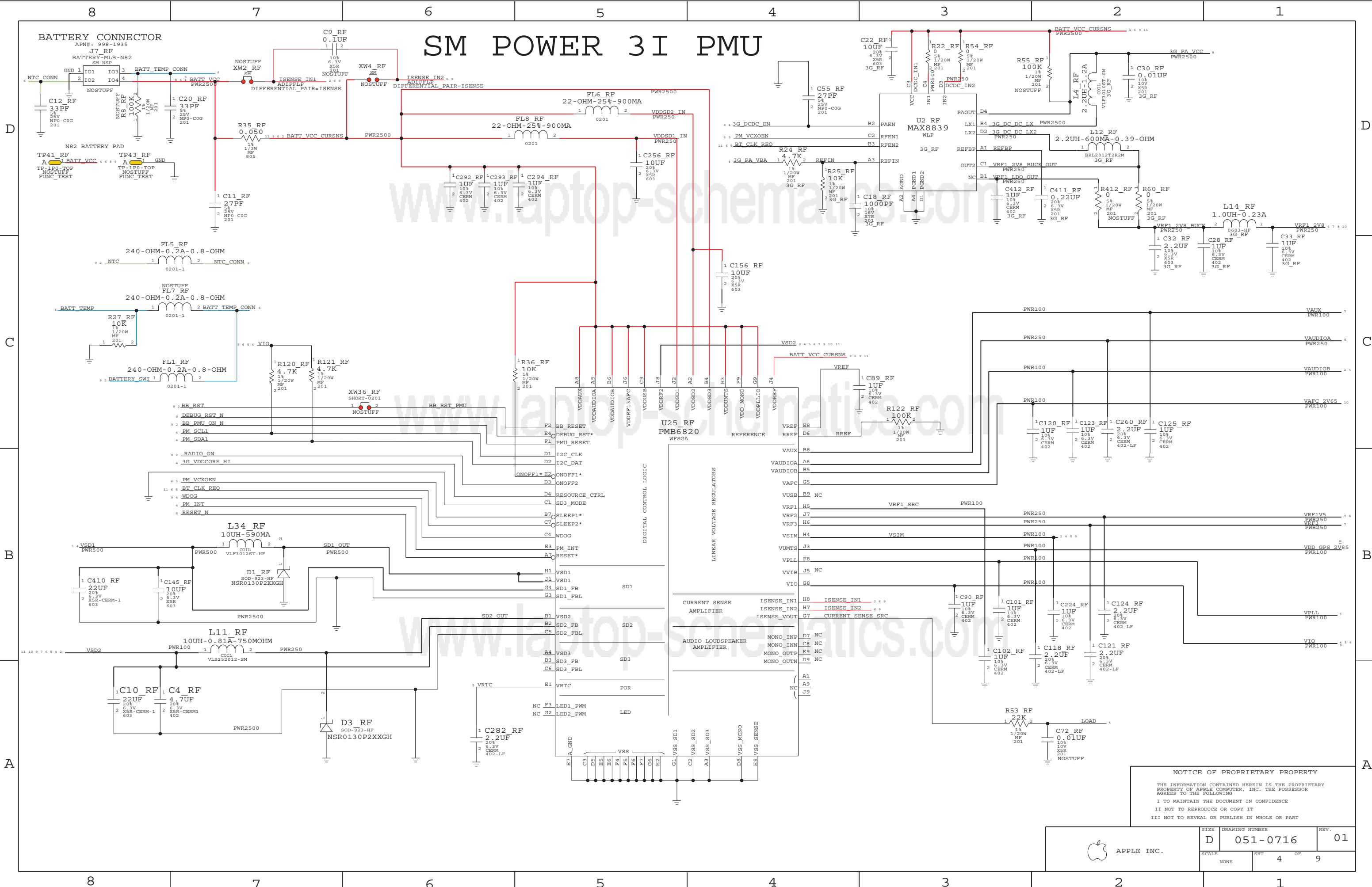
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	SCALE NONE	SH1 1 OF 9	





# SM POWER 3 I PMU

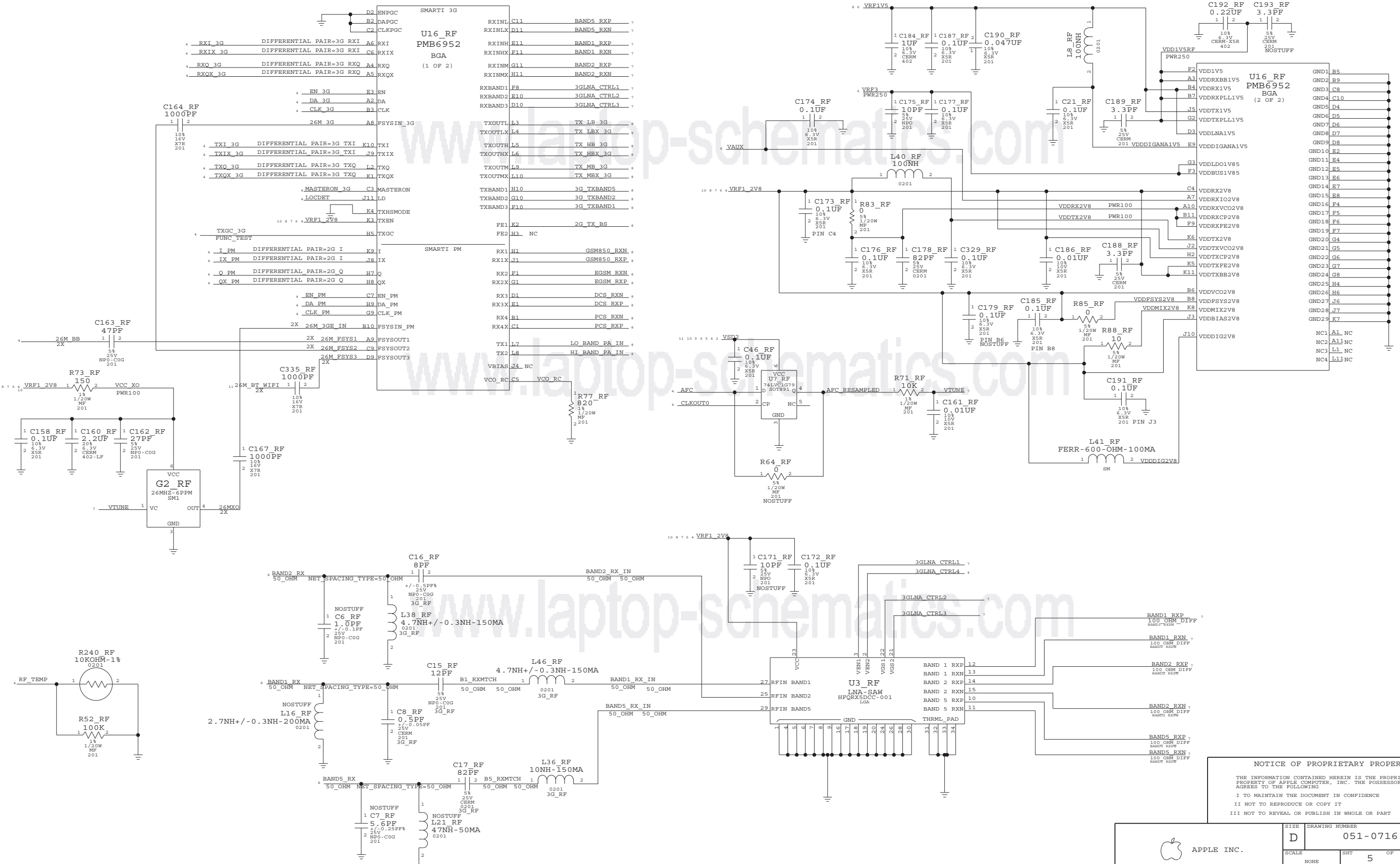


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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-0716	01
SCALE	NONE	SHT	4 OF 9

# GSM & UMTS TRANSCIEVER - SMARTI 3GE

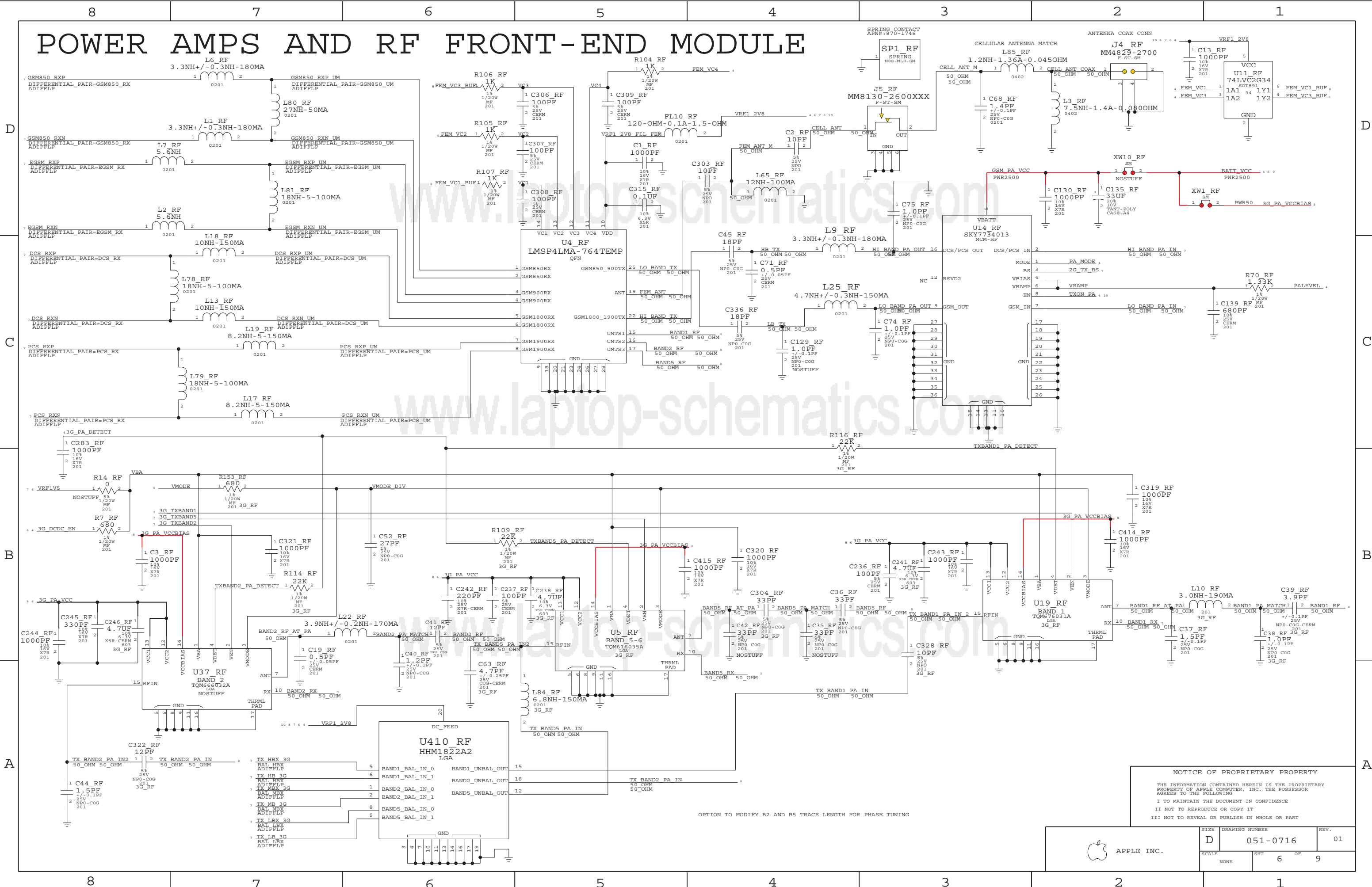
SMARTI3GE SUPPLIES



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	D	051-0716	01
SCALE	SHT	OF	
NONE	5	9	

# POWER AMPS AND RF FRONT-END MODULE



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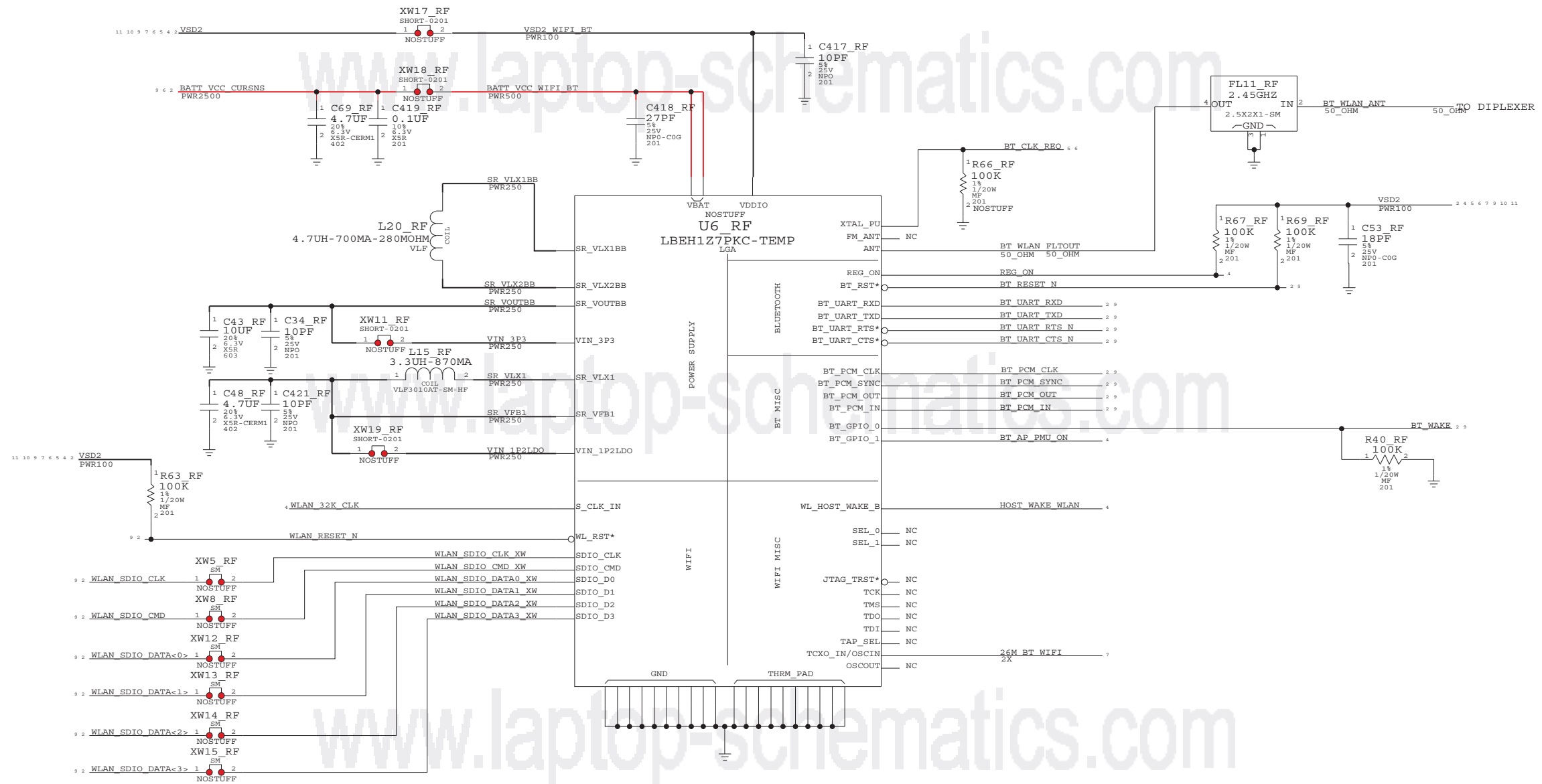
SIZE	DRAWING NUMBER	REV.
D	051-0716	01
SCALE	SHT	OF
NONE	6	9

OPTION TO MODIFY B2 AND B5 TRACE LENGTH FOR PHASE TUNING





# WLAN RADIO



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APPLE INC.	SIZE <b>D</b>	DRAWING NUMBER <b>951-0716</b>	REV. <b>01</b>
	SCALE NONE	SHEET 9	OF 9

iPhone 3GS H2-BASED SUB-DESIGN 07/10/09 BOARD REVA

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 WIFI/MIPI	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	PMU	N/A	N/A
10	10	SIM, ACCEL, VIBE	N/A	N/A
11	11	INTERFACE ASSIGNMENTS	N/A	N/A
12	12	DOCK	N/A	N/A
13	13	NIMBUS	N/A	N/A
14	14	CAMERA	N/A	N/A
15	15	RADIO CONNECTIVITY	N/A	N/A
16	16	PROX, ALS	N/A	N/A
17	32	Cross Reference Page		
18	33	Cross Reference Page		
19	34	Cross Reference Page		
20	35	Cross Reference Page		
21	36	Cross Reference Page		
22	37	Cross Reference Page		


PDF PAGE	CSA PAGE	CONTENTS	SYNC MASTER	DATE
23	38	Cross Reference Page		
24	39	Cross Reference Page		
25	40	Cross Reference Page		

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
951-0719	1	P4C_DEV_SCHEMATIC	SCH	Y	
920-0596	1	P4C_DEV_PCB	PCB	Y	
825-2029	1	EEE	EEE:???	Y	

SOCKET BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
998-1925	1	M2_TEST_SOCKET	SKT1	Y	SOCKET
998-1922	1	NUMBUS TEST SOCKET	SKT2	Y	SOCKET

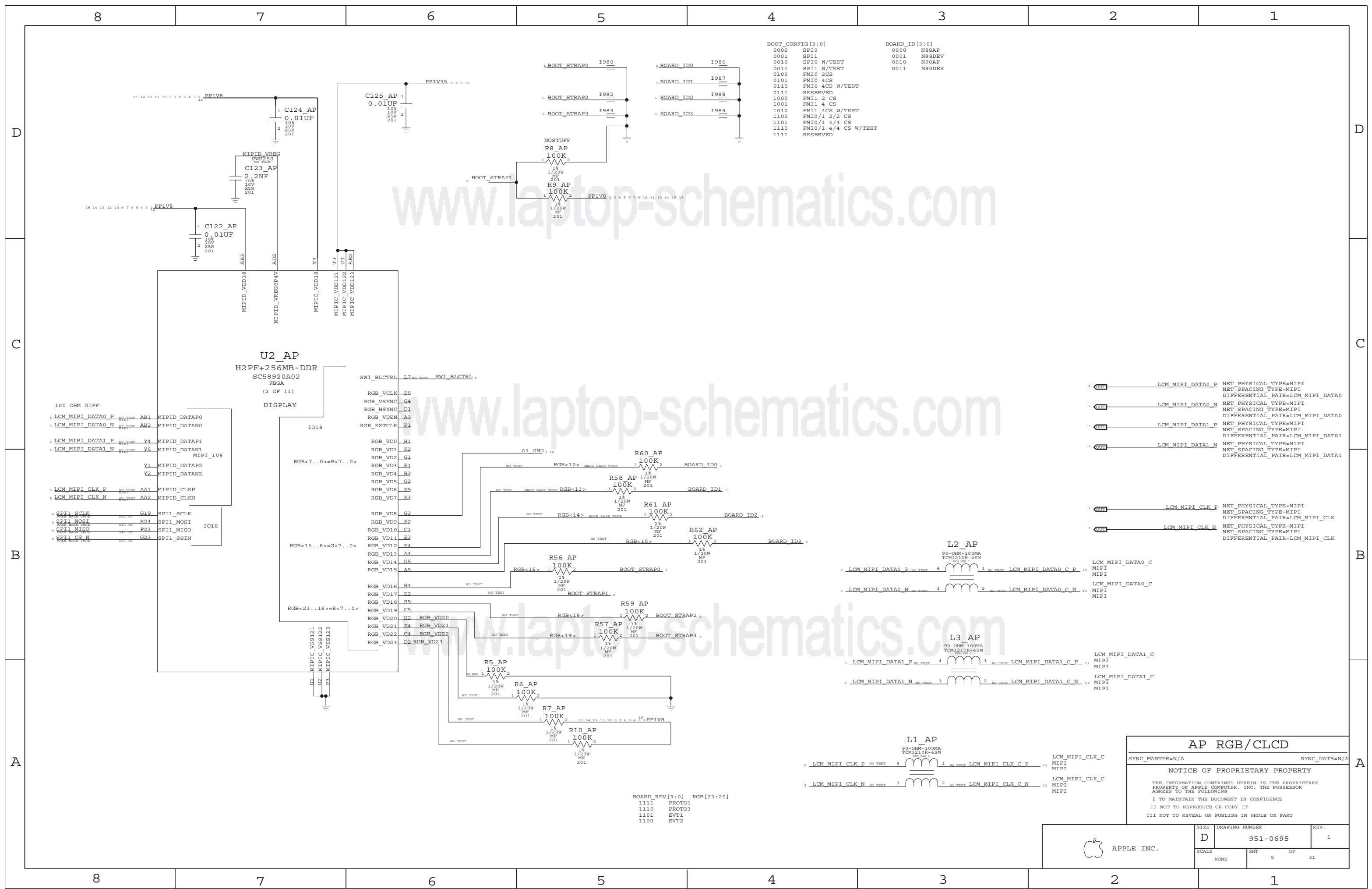
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 APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	951-0719	1
SCALE	SHT 1 OF 25		
NONE			









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	FMII 2 CS
1001	FMII 4 CS
1010	FMII 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

BOARD\_ID[3:0]

0000	N88AP
0001	N88DEV
0010	N90AP
0011	N90DEV

BOARD\_REV[3:0] RGB[23:20]

1111	PROTO1
1110	PROTO3
1101	EVT1
1100	EVT2

**AP RGB/CLCD**

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**NOTICE OF PROPRIETARY PROPERTY**

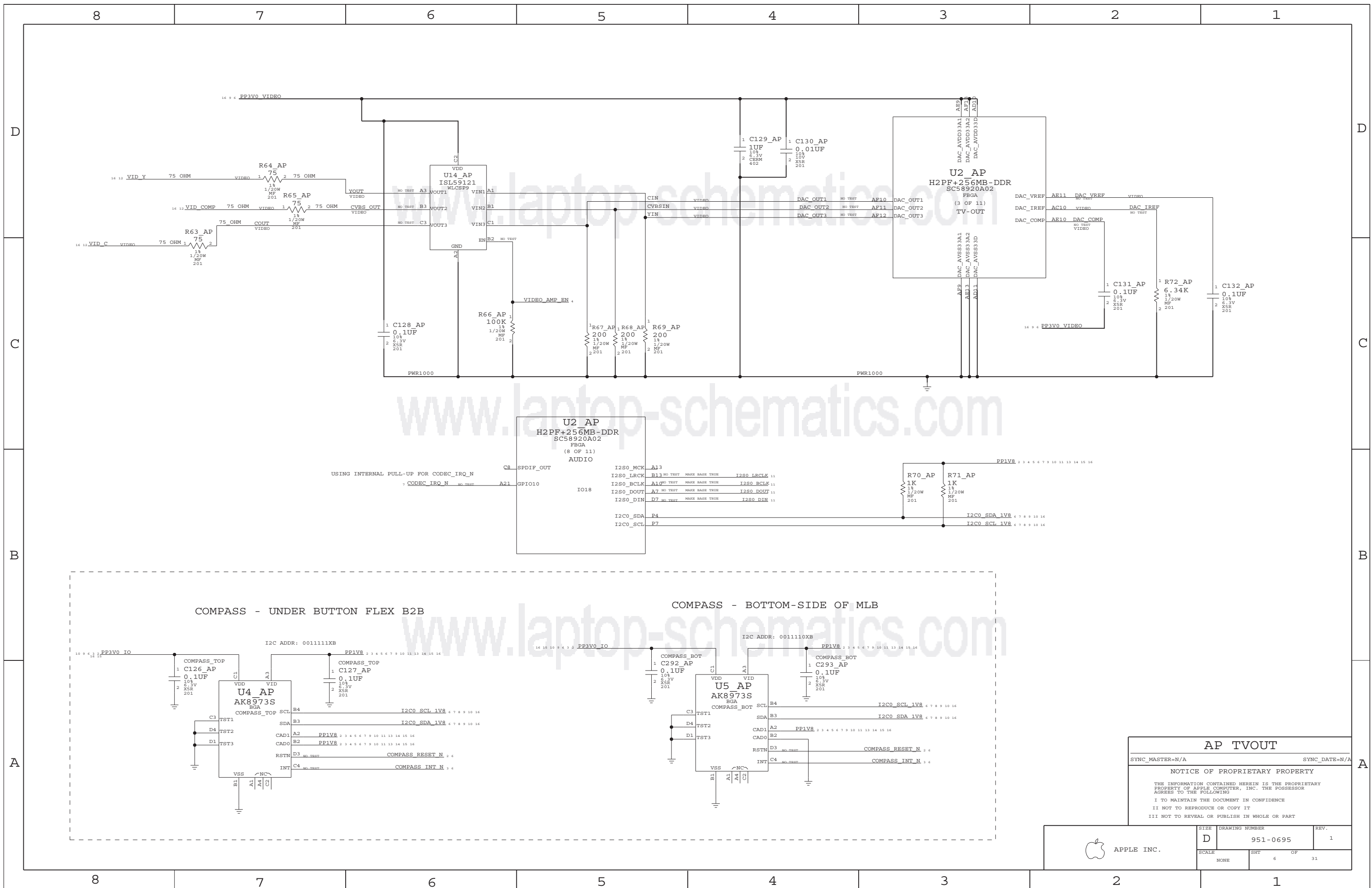
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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	951-0695	1
SCALE	NONE	SHT	5 OF 31



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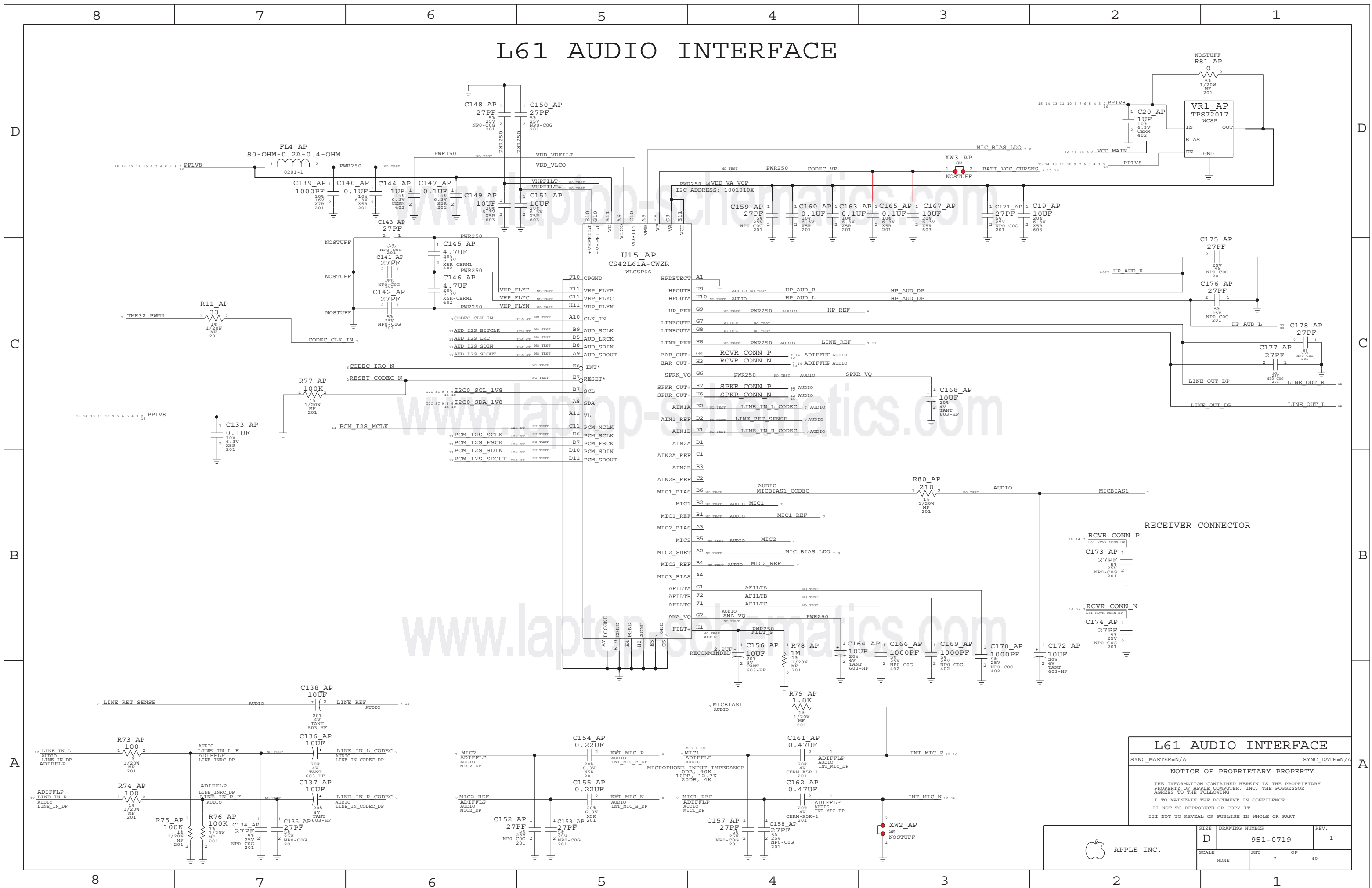
COMPASS - UNDER BUTTON FLEX B2B

COMPASS - BOTTOM-SIDE OF MLB

**AP TVOUT**  
 SYNC\_MASTER=N/A SYNC\_DATE=N/A  
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APPLE INC.	SIZE <b>D</b>	DRAWING NUMBER 951-0695	REV. 1
	SCALE NONE	SHEET 6	OF 31

# L61 AUDIO INTERFACE

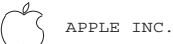


## L61 AUDIO INTERFACE

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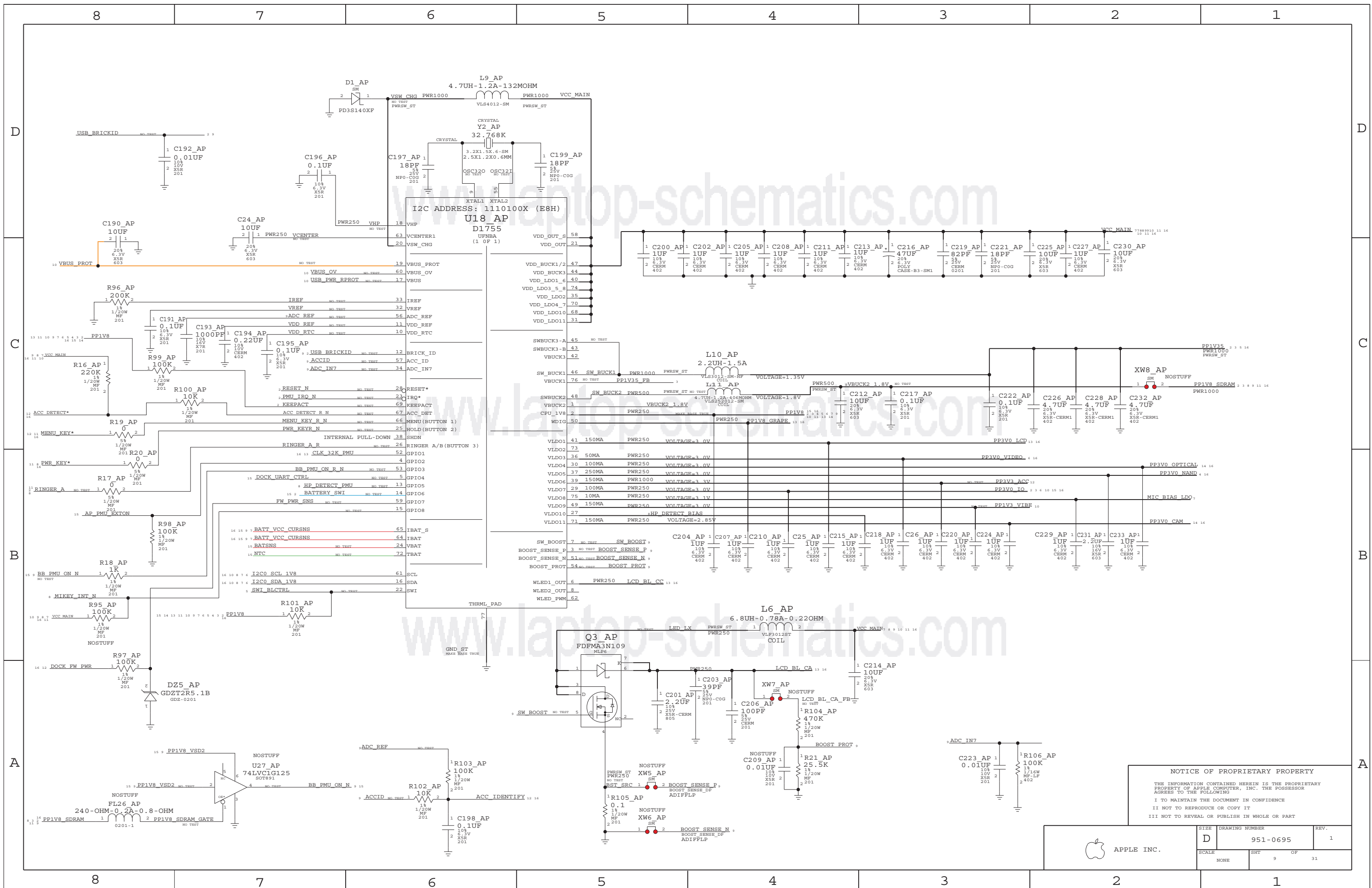
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SIZE	DRAWING NUMBER	REV.
D	951-0719	1
SCALE	SHT	OF
NONE	7	40



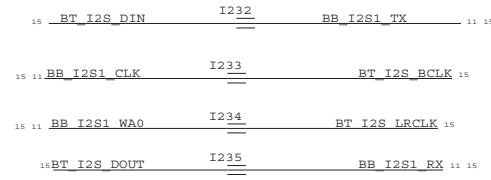


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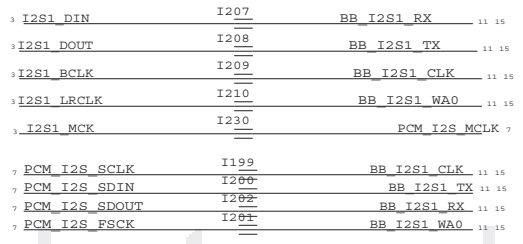
APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	951-0695	1
SCALE	SHT	OF	31
NONE	9		



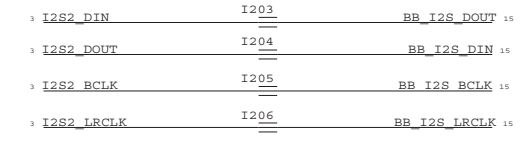
VOICE I2S TO BT



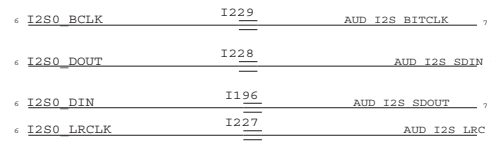
VOICE I2S AP/BB/CODEC



AP TO BB SIDETONE I2S



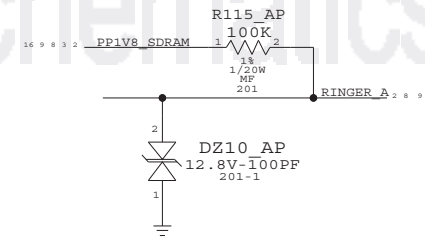
AP MULTIMEDIA I2S TO CODEC



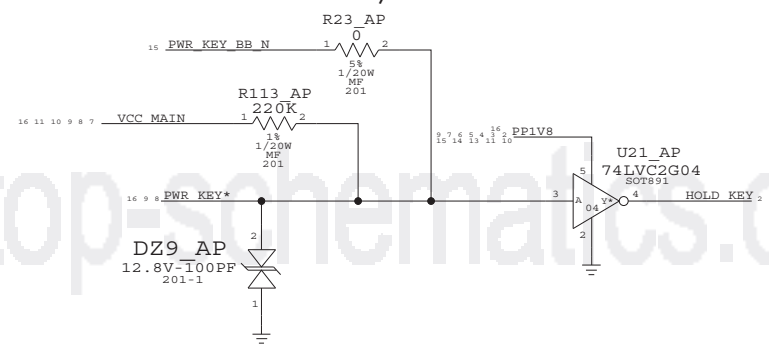
VOLUME SWITCHES



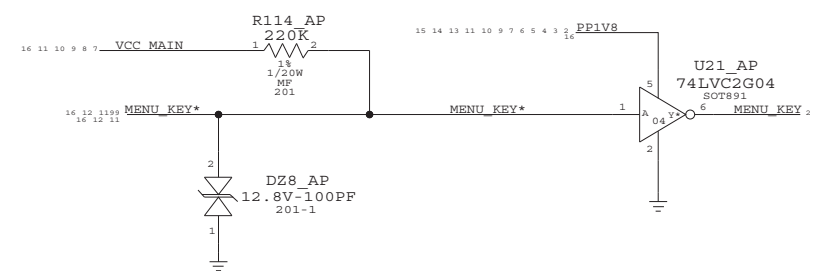
RINGER A/B SWITCH



POWER/HOLD KEY



MENU KEY



INTERFACE ASSIGNMENTS

SYNC\_MASTER=N/A SYNC\_DATE=N/A

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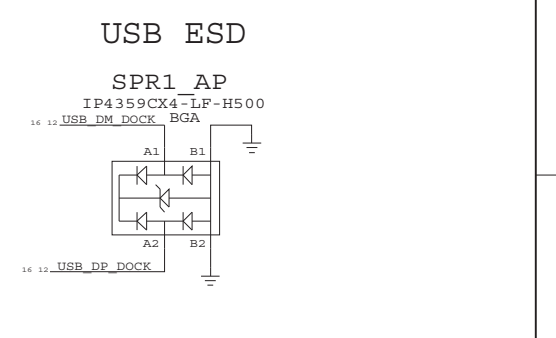
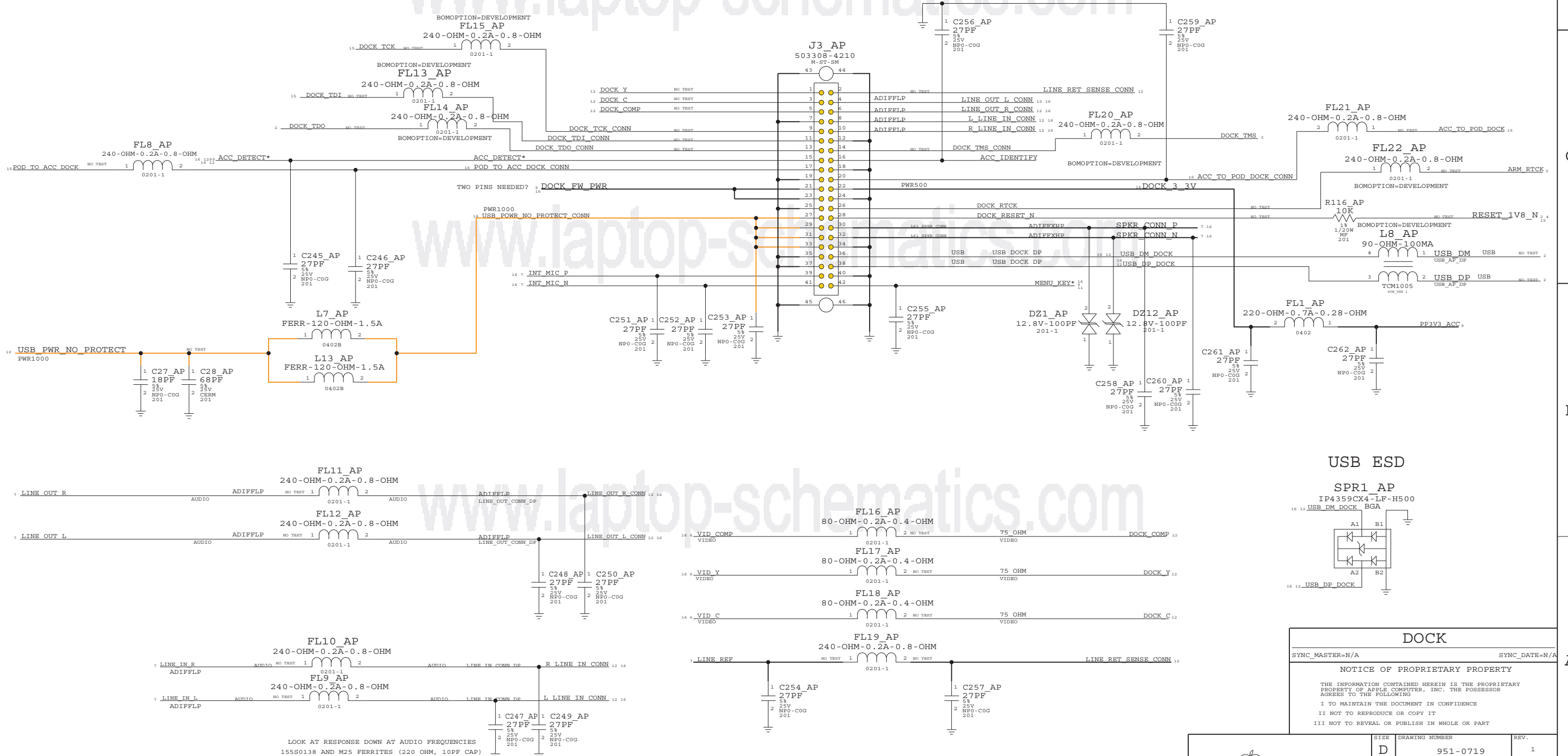


APPLE INC.

SIZE	DRAWING NUMBER	REV.
D	951-0719	1
SCALE	SHT	OF
NONE	11	25

# DOCK CONNECTOR

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**DOCK**

SYNC\_MASTER=N/A SYNC\_DATE=N/A

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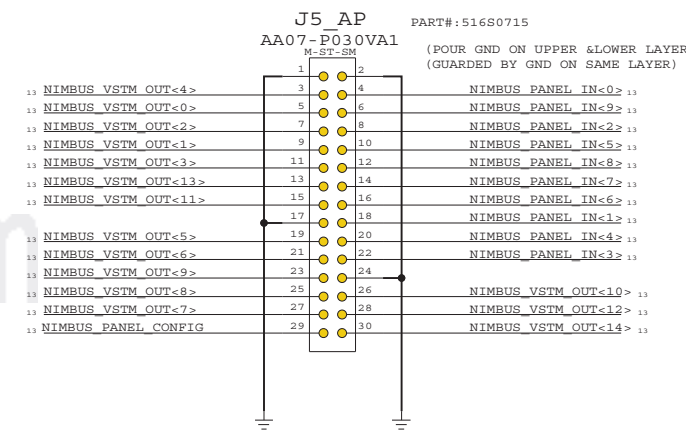
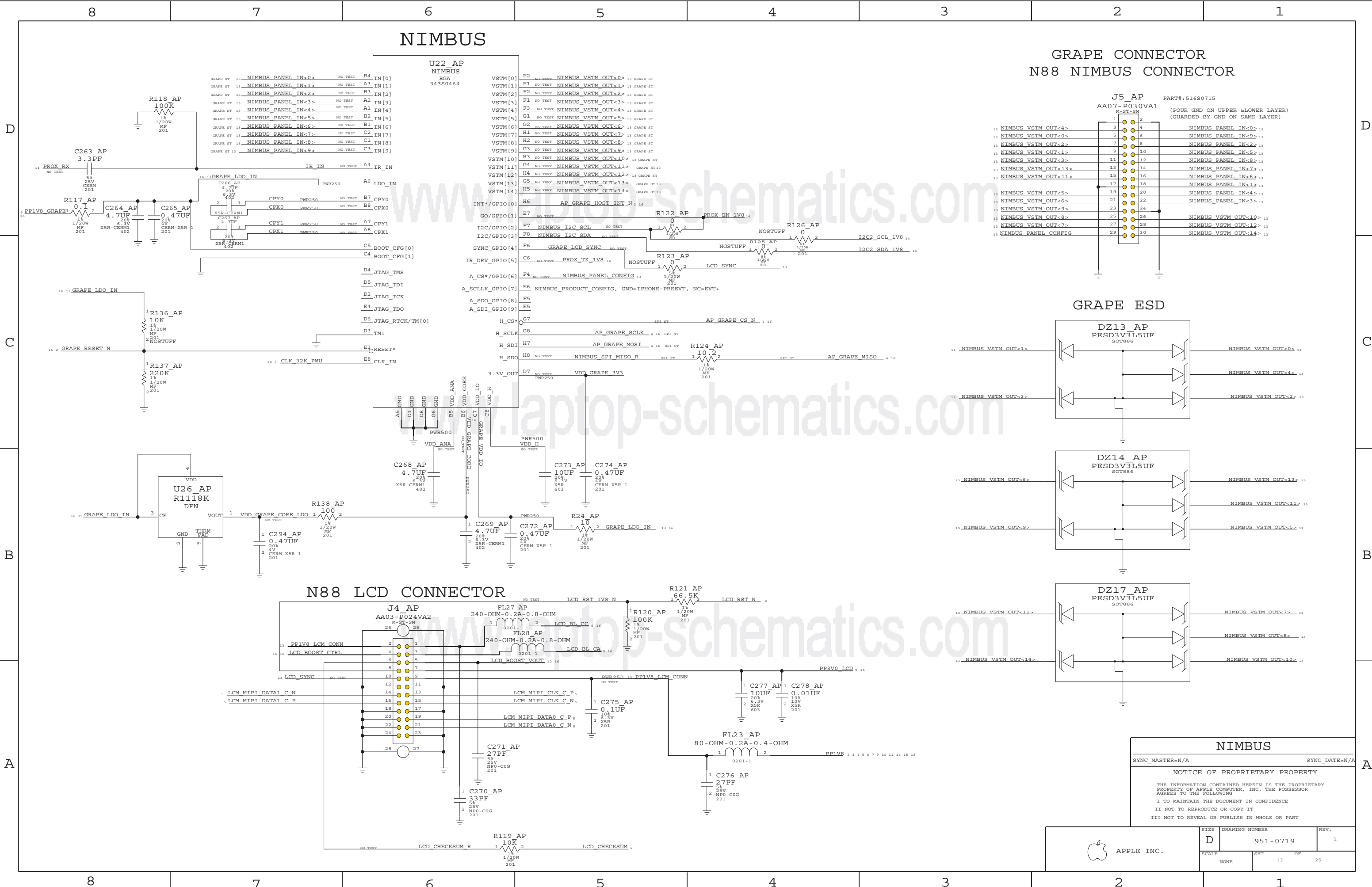
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	951-0719	1
SCALE	NONE	SHT	12 OF 25

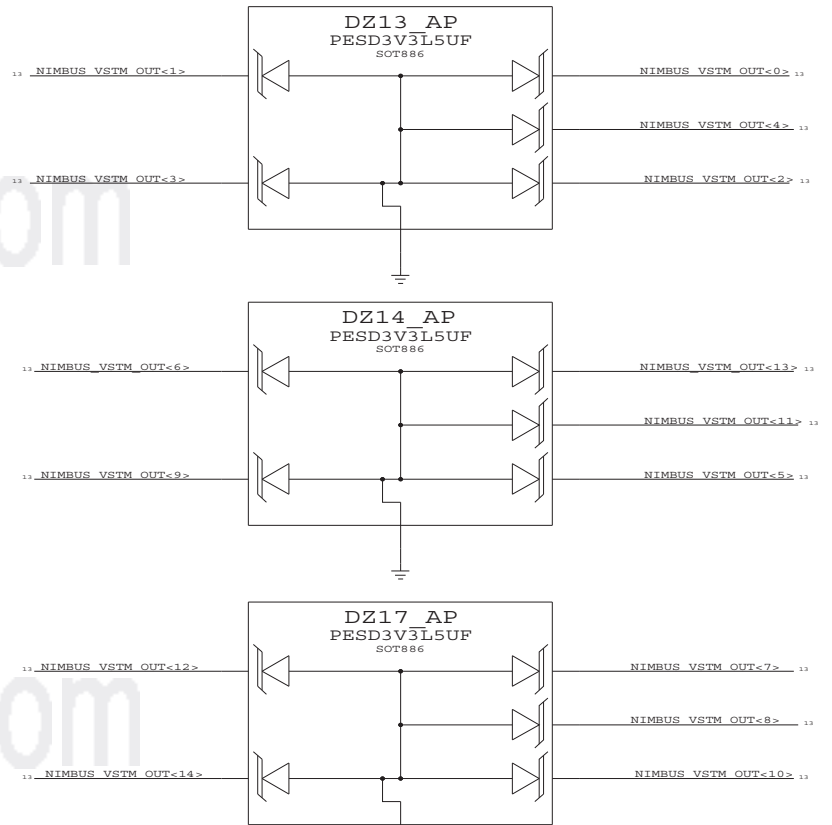
LOOK AT RESPONSE DOWN AT AUDIO FREQUENCIES  
155S0138 AND M25 FERRITES (220 OHM, 10PF CAP)

# NIMBUS

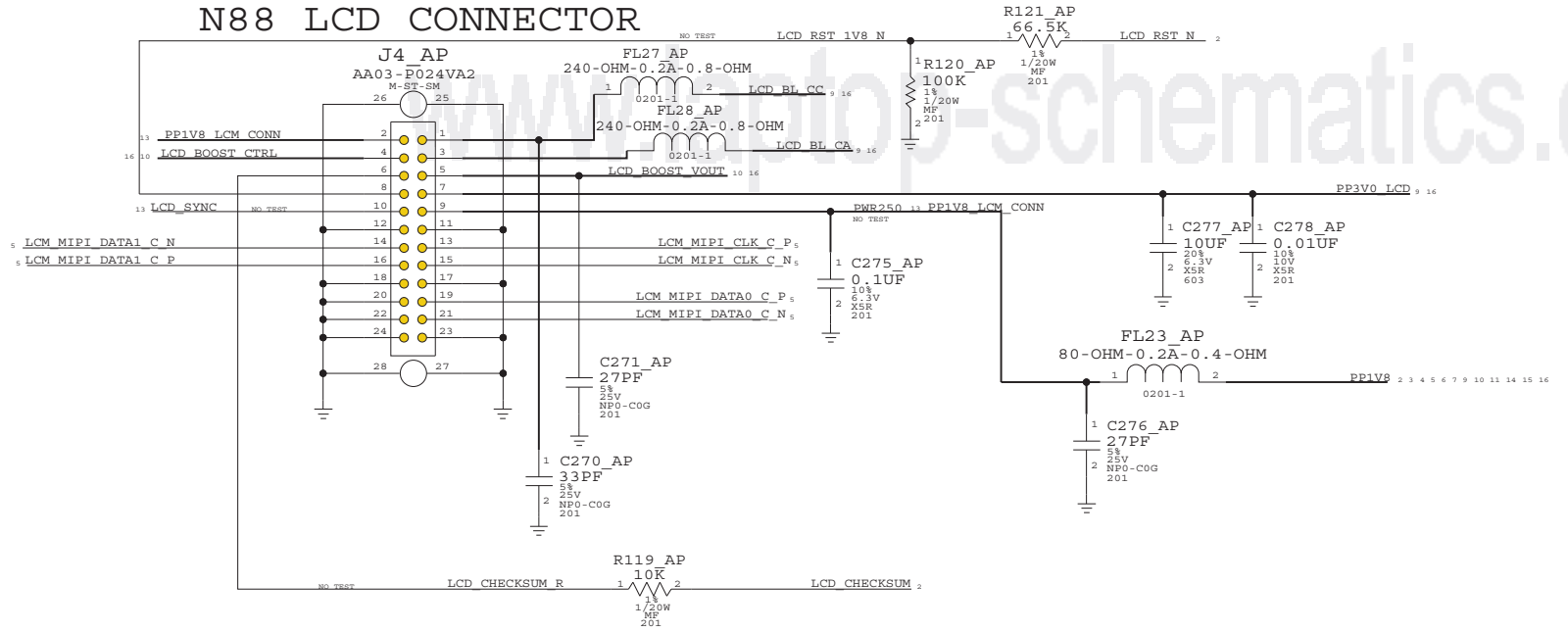
## GRAPE CONNECTOR N88 NIMBUS CONNECTOR



### GRAPE ESD

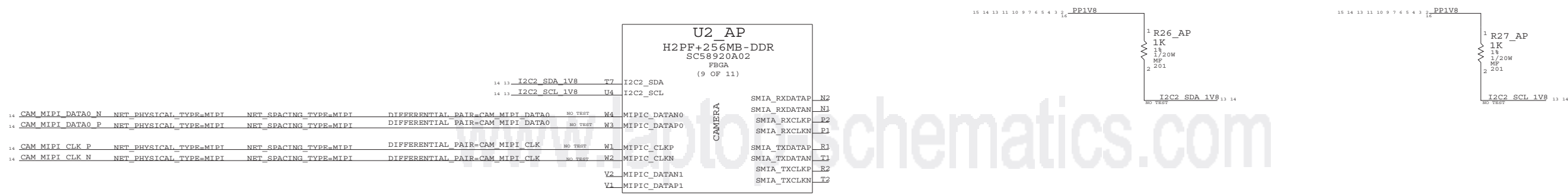


### N88 LCD CONNECTOR

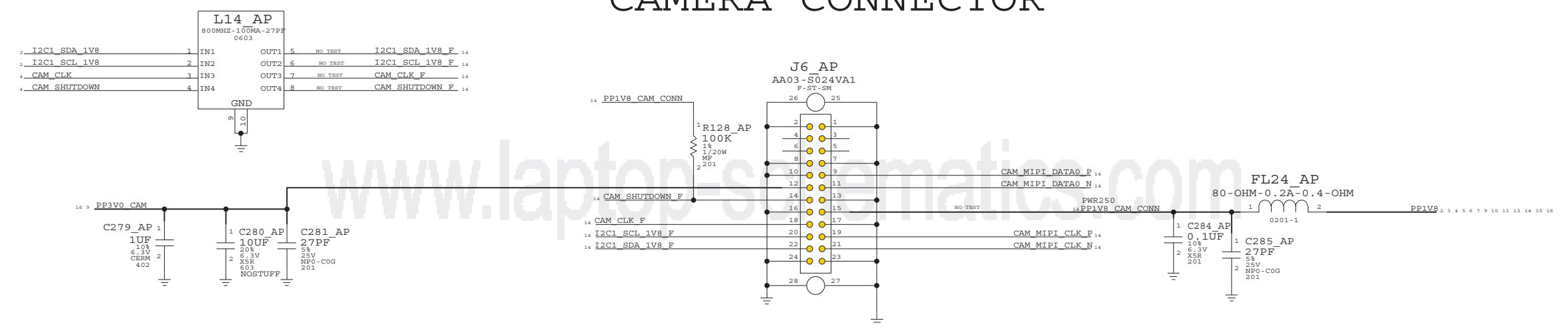


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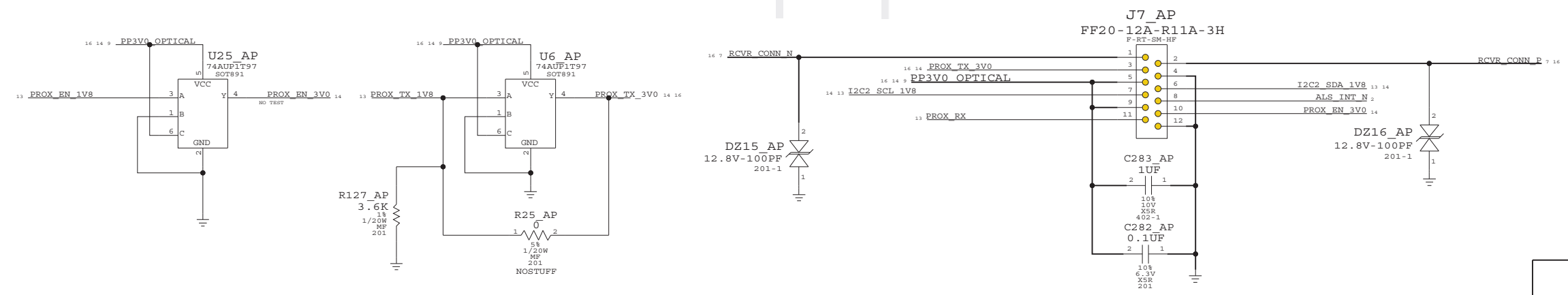
# CAMERA INTERFACE



# CAMERA CONNECTOR

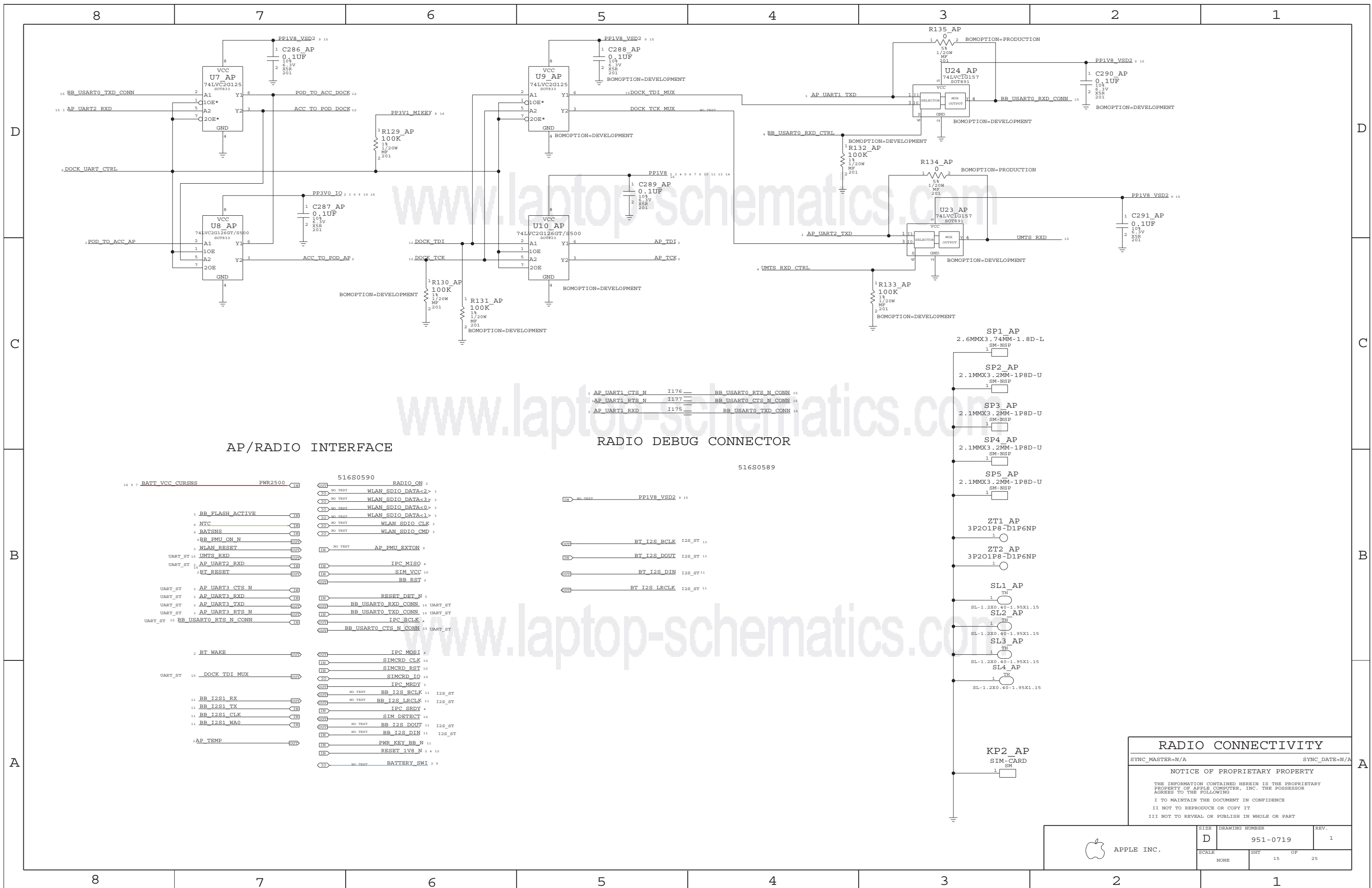


# ALS/PROX



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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	951-0719	1
SCALE	SHT		OF
NONE	14		25



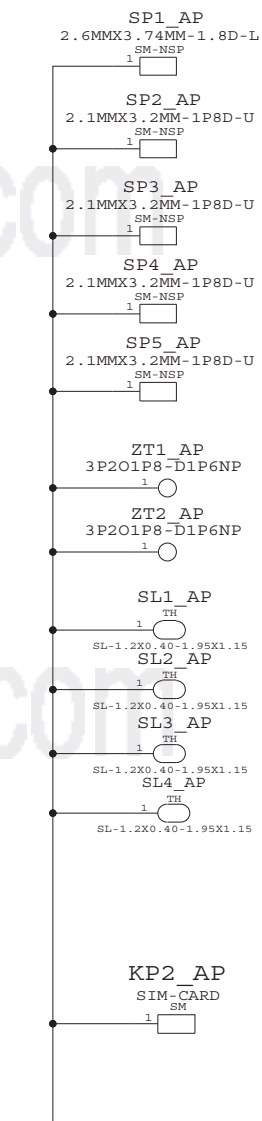
AP/RADIO INTERFACE

RADIO DEBU CONNECTOR

Signal Name	Pin	Direction
BATT_VCC_CURSNS	PWR2500	IO
BB_FLASH_ACTIVE		IO
NYC		IO
BATSNS		IO
BB_PMU_ON_N		IO
WLAN_RESET		IO
UMTS_RXD		IO
AP_UART2_RXD		IO
BT_RESET		IO
AP_UART3_CTS_N		IO
AP_UART3_RXD		IO
AP_UART3_TXD		IO
AP_UART3_RTS_N		IO
BB_USART0_RTS_N_CONN		IO
BT_WAKE		IO
DOCK_TDI_MUX		IO
BB_I2S1_RX	I2S_ST	IO
BB_I2S1_TX	I2S_ST	IO
BB_I2S1_CLK		IO
BB_I2S1_WA0		IO
AP_TEMP		IO

Signal Name	Pin	Direction
RADIO_ON	2	IO
WLAN_SDIO_DATA<2>	3	IO
WLAN_SDIO_DATA<3>	3	IO
WLAN_SDIO_DATA<0>	3	IO
WLAN_SDIO_DATA<1>	3	IO
WLAN_SDIO_CLK	3	IO
WLAN_SDIO_CMD	3	IO
AP_PMU_EXTON	9	IO
IPC_MISO	4	IO
SIM_VCC	10	IO
BB_RST	2	IO
RESET_DET_N	2	IO
BB_USART0_RXD_CONN	15	IO
BB_USART0_TXD_CONN	15	IO
IPC_SCLCK	4	IO
BB_USART0_CTS_N_CONN	15	IO
IPC_MOSI	4	IO
SIMCRD_CLK	10	IO
SIMCRD_RST	10	IO
SIMCRD_IO	10	IO
IPC_MRDY	3	IO
BB_I2S_BCLK	11	IO
BB_I2S_LRCLK	11	IO
IPC_SRDY	4	IO
SIM_DETECT	10	IO
BB_I2S_DOUT	11	IO
BB_I2S_DIN	11	IO
PWR_KEY_BB_N	11	IO
RESET_IV8_N	2, 4, 12	IO
BATTERY_SWI	2, 9	IO

Signal Name	Pin	Direction
AP_UART1_CTS_N	I176	IO
AP_UART1_RTS_N	I177	IO
AP_UART1_RXD	I175	IO
BB_USART0_RTS_N_CONN	15	IO
BB_USART0_CTS_N_CONN	15	IO
BB_USART0_TXD_CONN	15	IO
PPIV8_VSD2	9, 15	IO
BT_I2S_BCLK	I2S_ST 11	IO
BT_I2S_DOUT	I2S_ST 11	IO
BT_I2S_DIN	I2S_ST 11	IO
BT_I2S_LRCLK	I2S_ST 11	IO

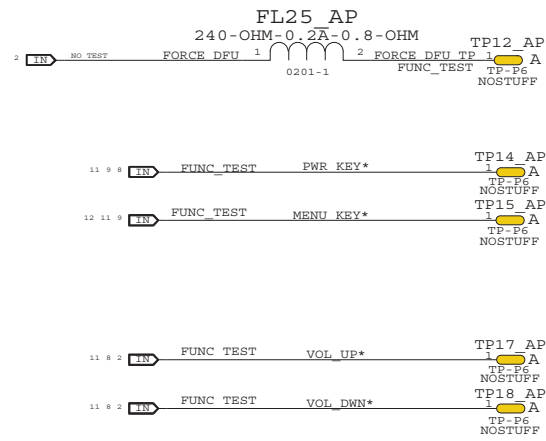


**RADIO CONNECTIVITY**  
 SYNC\_MASTER=N/A SYNC\_DATE=N/A  
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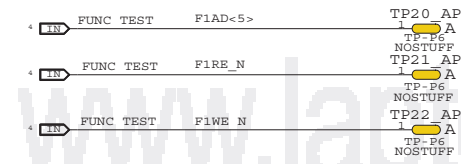
APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	951-0719	1
SCALE	SHT 15 OF 25		

# TEST POINTS

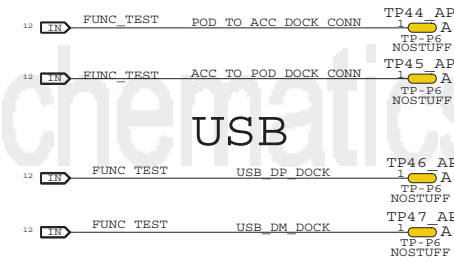
## GPIO



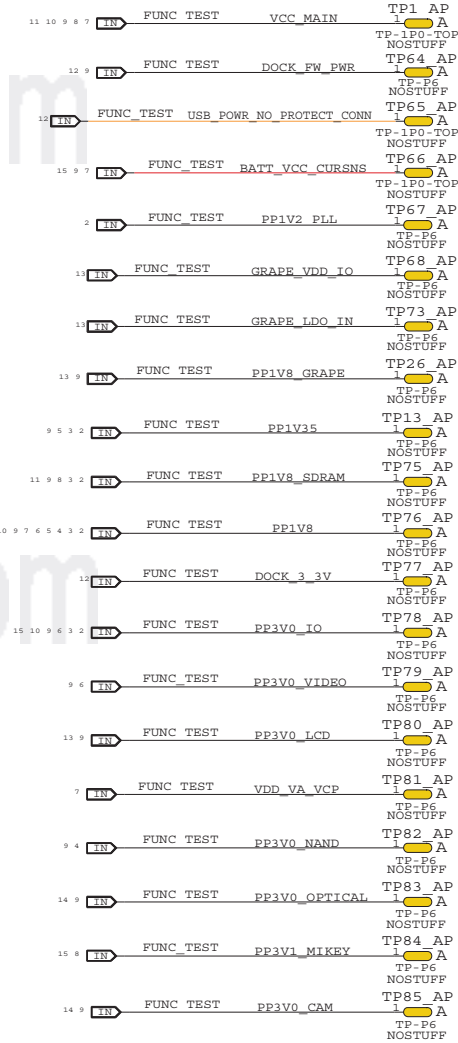
## NAND



## UART



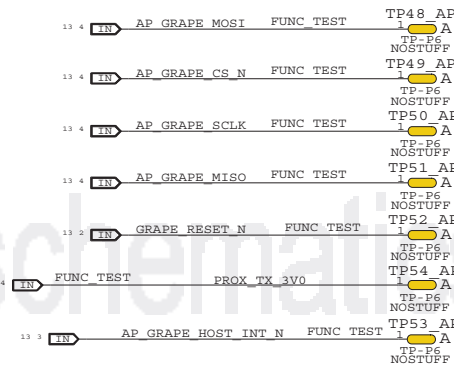
## POWER



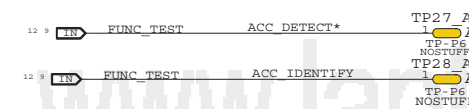
## CLOCKS



## NIMBUS

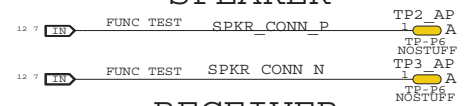


## ACCESSORY DETECT

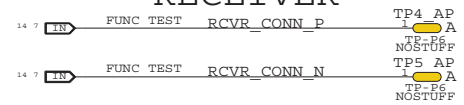


## AUDIO

### SPEAKER



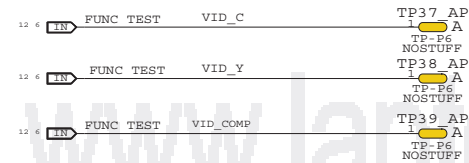
### RECEIVER



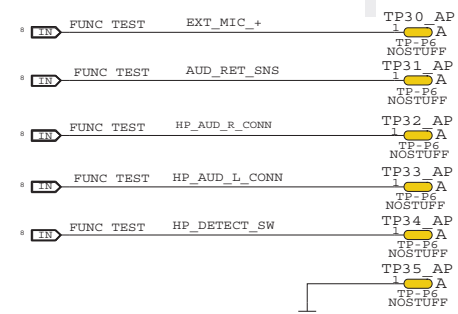
## I2C PINS



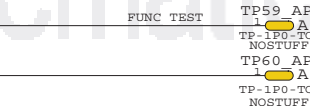
## VIDEO



## HEADPHONE



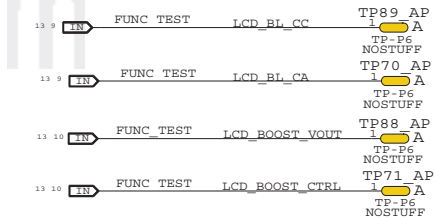
## POWER GND



## SIGNAL GND



## LCD



RESERVED FOR OUTPUT OF LDO

## PROX, ALS

SYNC\_MASTER=N/A SYNC\_DATE=N/A

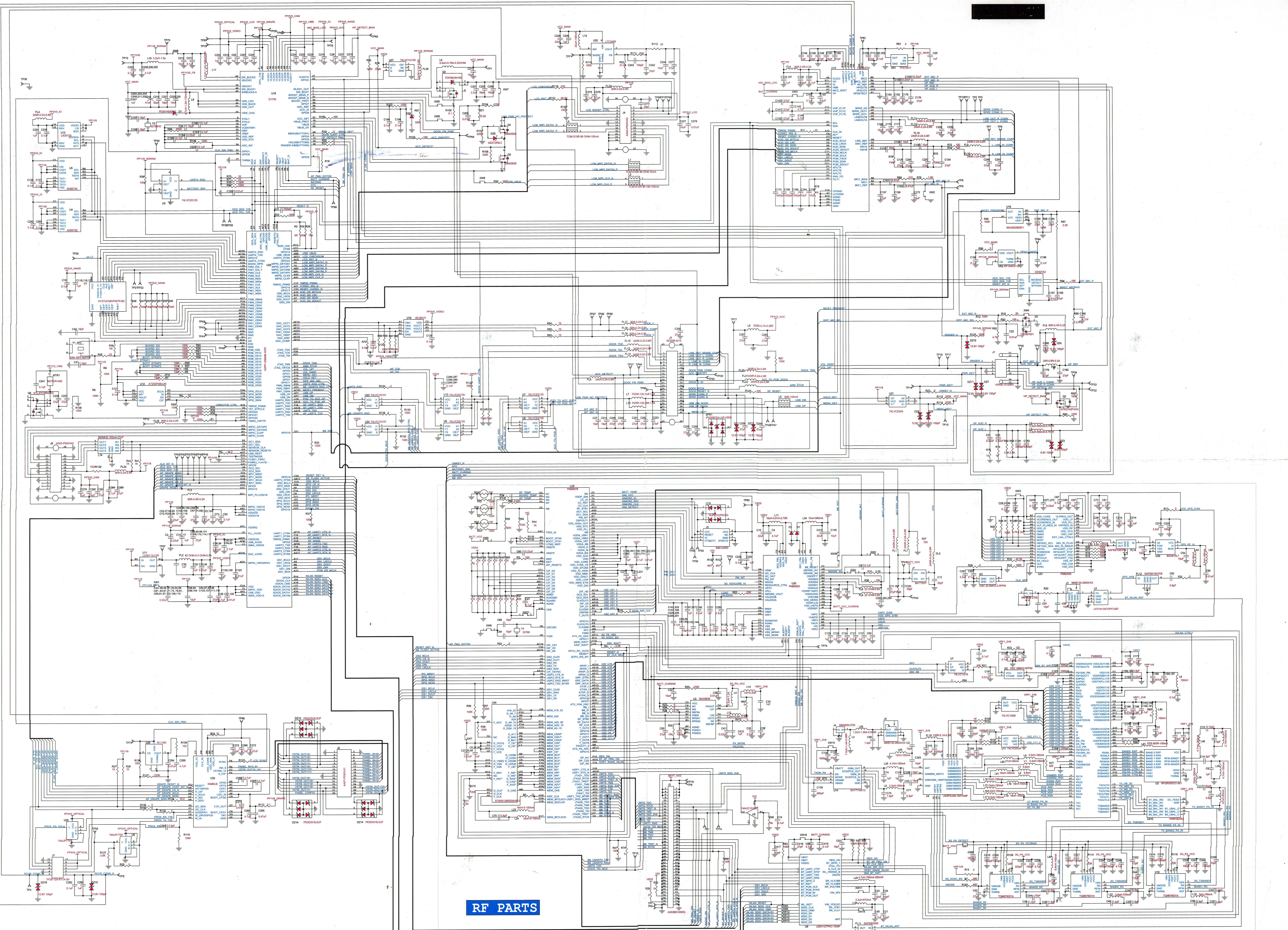
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**RF PARTS**

