

IPOD M68 AP MLB 8-LAYER -11/10/06(A) DVT (AMPHENOL)

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02	H1 PERIPH INTERFACES (UART/SDIO)
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04	H1 NAND, NAND FLASH (MASS STORAGE)
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08	FIREWIRE PWR, USB OVERVOLTAGE, 4066 CHARGER
09	POWER MANAGER (+CHARGER +LED BOOST)
10	HEADPHONE CONECTOR
11	DOCK
12	1A USB BRICK DETECT, ACCELEROMETER
13	LCM CONNECTOR, TOUCH PANEL (TP) CONNECTOR, MISC CONN.
14	RADIO->AP BOARD TO BOARD
15	FUNCTIONAL TEST

4GB BOM - 630-7888


8GB BOM - 630-7890

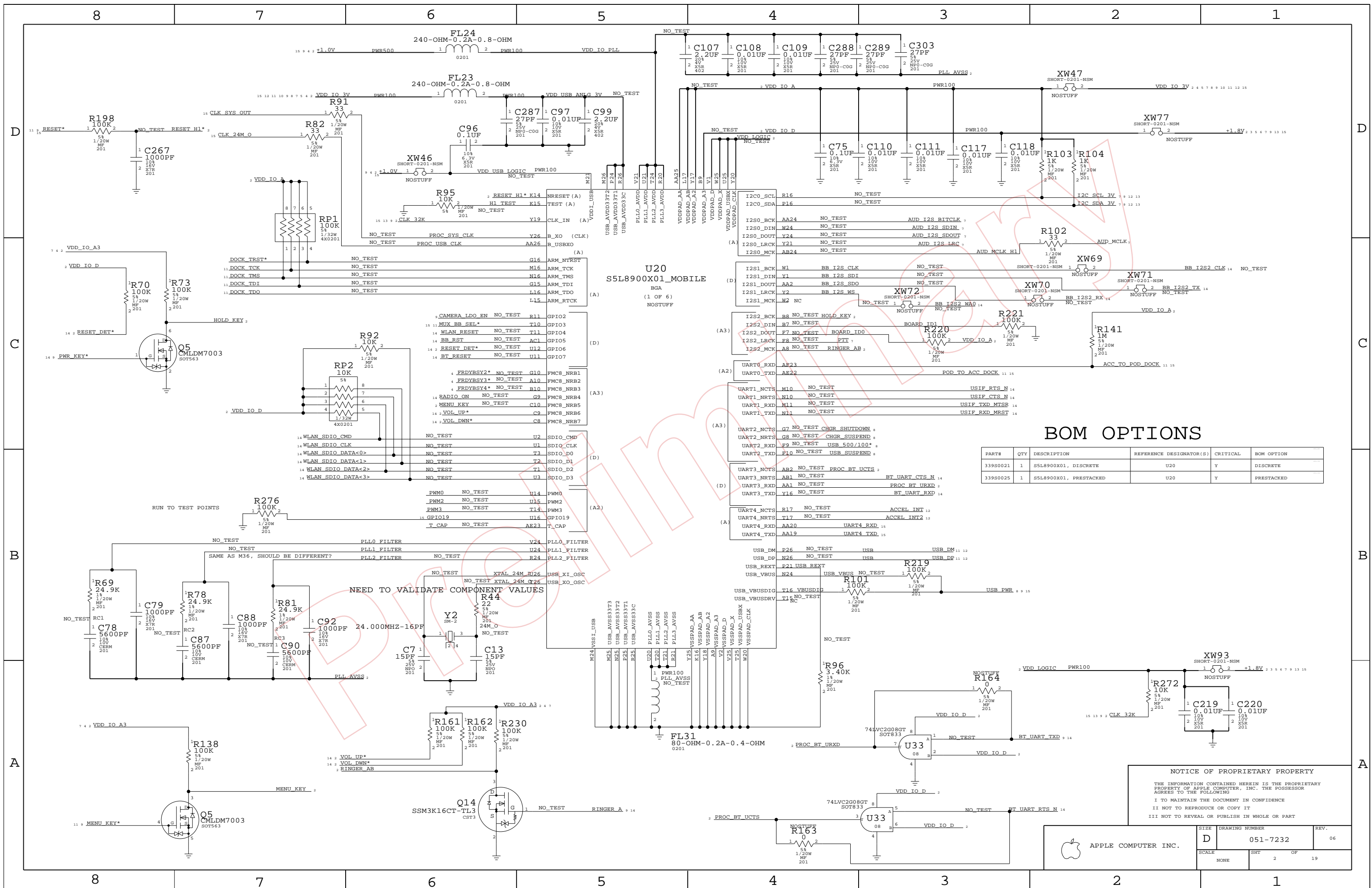
BOARD - 820-2106

SCHEMATIC - 051-7232

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-7232	1	M68_MLB_SCHEMATIC	SCH	Y	
820-2106	1	M68_MLB_PCB	PCB	Y	
825-2029	1	EEE	EEE:???	Y	
805-7511	1	SHIELD_FENCE	SH1	Y	
805-7513	1	SHIELD_BOTTOM	SH2	Y	
805-7514	1	SHIELD_BOTTOM	SH2	Y	

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	SCALE NONE	SHT 1	OF 19



BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S0021	1	S5L8900X01, DISCRETE	U20	Y	DISCRETE
339S0025	1	S5L8900X01, PRESTACKED	U20	Y	PRESTACKED

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SCALE	SHT	OF	19
NONE	2		

D

D

C

C

B

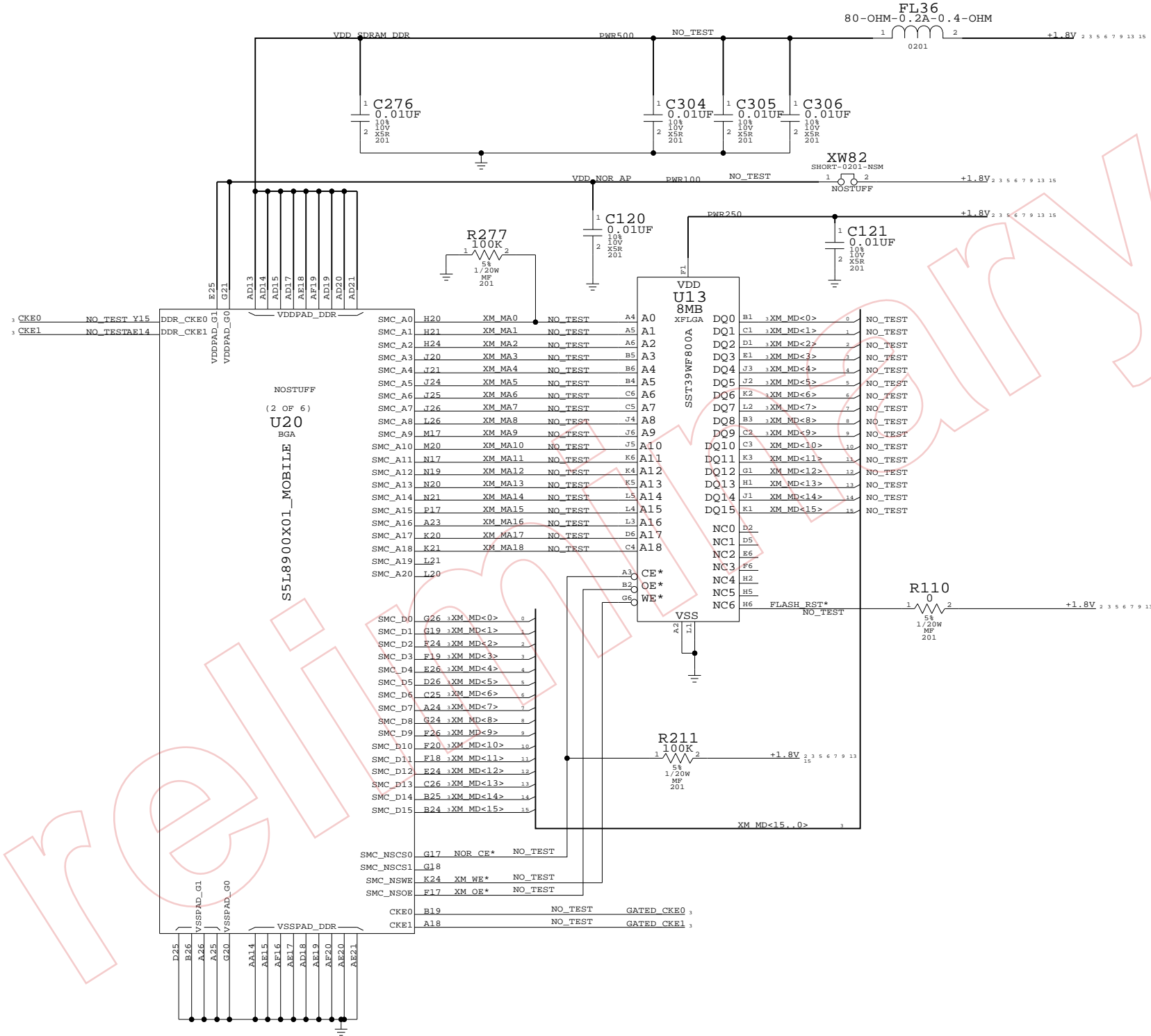
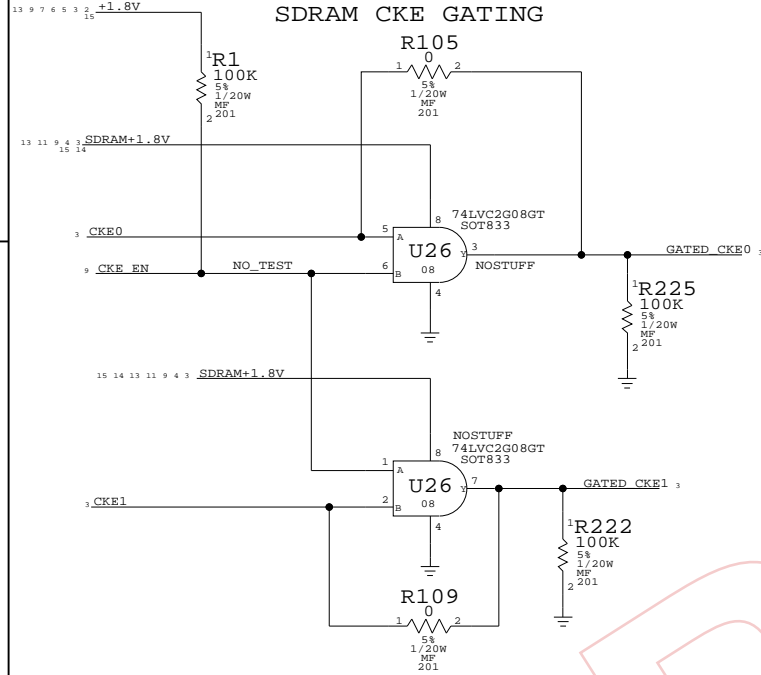
B

A

A

LEFT ON THE BOARD UNTIL IT IS VALIDATED ON THE H1 DEV BOARD.

SDRAM CKE GATING



NOSTUFF
(2 OF 6)
U20

S51L8900X01_MOBILE

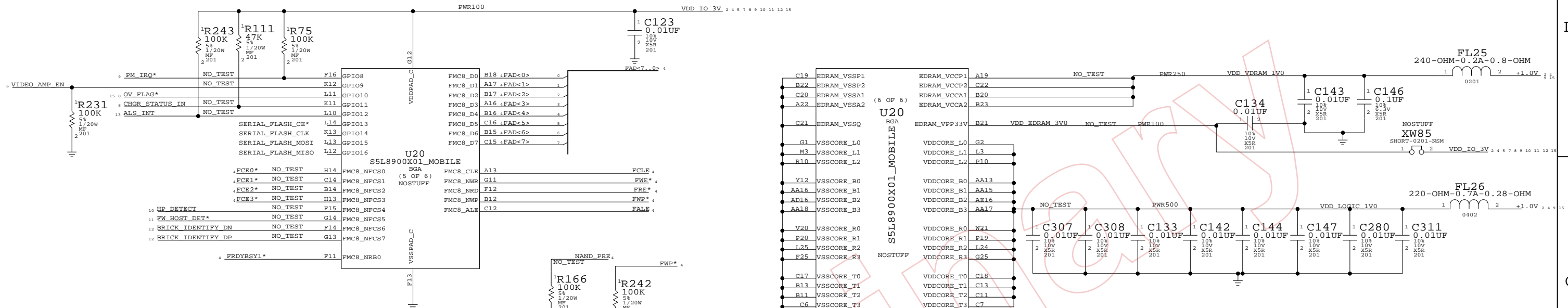
SMC_A0	H20	XM MA0	NO_TEST	A4	A0	DQ0	B1	XM MD<0>	5	NO_TEST
SMC_A1	H21	XM MA1	NO_TEST	A5	A1	DQ1	C1	XM MD<1>	1	NO_TEST
SMC_A2	H24	XM MA2	NO_TEST	A6	A2	DQ2	D1	XM MD<2>	2	NO_TEST
SMC_A3	J20	XM MA3	NO_TEST	B5	A3	DQ3	E1	XM MD<3>	3	NO_TEST
SMC_A4	J21	XM MA4	NO_TEST	B6	A4	DQ4	J3	XM MD<4>	4	NO_TEST
SMC_A5	J24	XM MA5	NO_TEST	B4	A5	DQ5	K2	XM MD<5>	5	NO_TEST
SMC_A6	J25	XM MA6	NO_TEST	C6	A6	DQ6	K2	XM MD<6>	6	NO_TEST
SMC_A7	J26	XM MA7	NO_TEST	C5	A7	DQ7	L2	XM MD<7>	7	NO_TEST
SMC_A8	L26	XM MA8	NO_TEST	J4	A8	DQ8	B3	XM MD<8>	8	NO_TEST
SMC_A9	M17	XM MA9	NO_TEST	J6	A9	DQ9	C2	XM MD<9>	2	NO_TEST
SMC_A10	M20	XM MA10	NO_TEST	J5	A10	DQ10	C3	XM MD<10>	10	NO_TEST
SMC_A11	N17	XM MA11	NO_TEST	K6	A11	DQ11	K3	XM MD<11>	11	NO_TEST
SMC_A12	N19	XM MA12	NO_TEST	K4	A12	DQ12	G1	XM MD<12>	12	NO_TEST
SMC_A13	N20	XM MA13	NO_TEST	K5	A13	DQ13	H1	XM MD<13>	13	NO_TEST
SMC_A14	N21	XM MA14	NO_TEST	L5	A14	DQ14	J1	XM MD<14>	14	NO_TEST
SMC_A15	P17	XM MA15	NO_TEST	L4	A15	DQ15	K1	XM MD<15>	15	NO_TEST
SMC_A16	A23	XM MA16	NO_TEST	L3	A16	NC0	D2			
SMC_A17	K20	XM MA17	NO_TEST	D6	A17	NC1	D5			
SMC_A18	K21	XM MA18	NO_TEST	C4	A18	NC2	E6			
SMC_A19	L21					NC3	F6			
SMC_A20	L20					NC4	H2			
						NC5	H5			
						NC6	H6	FLASH_RST*		
						CE*				
						OE*				
						WE*				
SMC_D0	G26	XM MD<0>	8			XM MD<15..0>				
SMC_D1	G19	XM MD<1>	1							
SMC_D2	F24	XM MD<2>	2							
SMC_D3	F19	XM MD<3>	3							
SMC_D4	E26	XM MD<4>	4							
SMC_D5	D26	XM MD<5>	5							
SMC_D6	C25	XM MD<6>	6							
SMC_D7	A24	XM MD<7>	7							
SMC_D8	G24	XM MD<8>	8							
SMC_D9	F26	XM MD<9>	9							
SMC_D10	F20	XM MD<10>	10							
SMC_D11	F18	XM MD<11>	11							
SMC_D12	E24	XM MD<12>	12							
SMC_D13	C26	XM MD<13>	13							
SMC_D14	B25	XM MD<14>	14							
SMC_D15	B24	XM MD<15>	15							
SMC_NSCS0	G17	NOR CE*	NO_TEST							
SMC_NSCS1	G18									
SMC_NSWE	K24	XM WE*	NO_TEST							
SMC_NSOE	F17	XM OE*	NO_TEST							
CKE0	B19		NO_TEST							GATED_CKE0
CKE1	A18		NO_TEST							GATED_CKE1

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SCALE	SHT		OF
NONE	3		19

NAND FLASH & GPIO

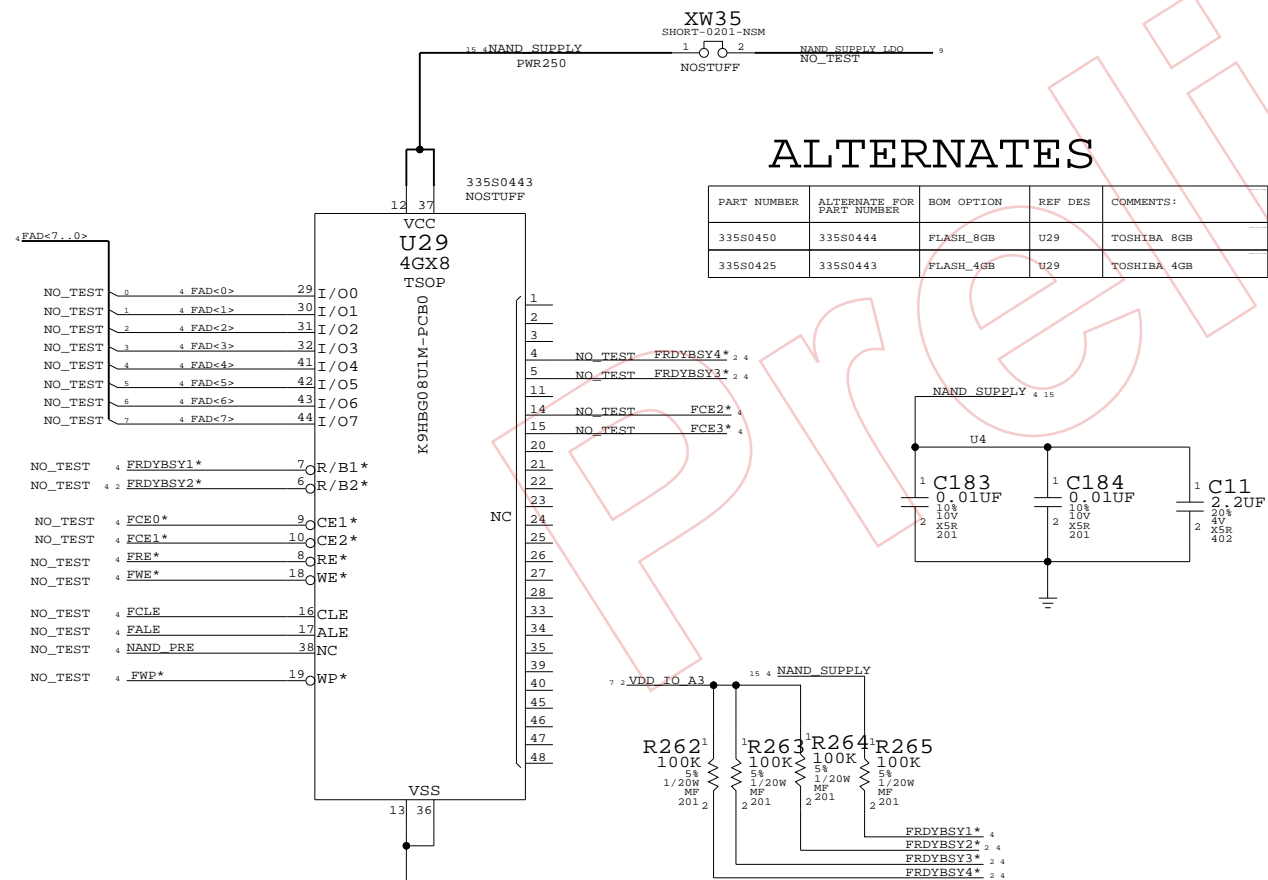


BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0443	1	4GB SAMSUNG, 63NM FLASH	U29	Y	FLASH_4GB
335S0444	1	8GB SAMSUNG, 63NM FLASH	U29	Y	FLASH_8GB

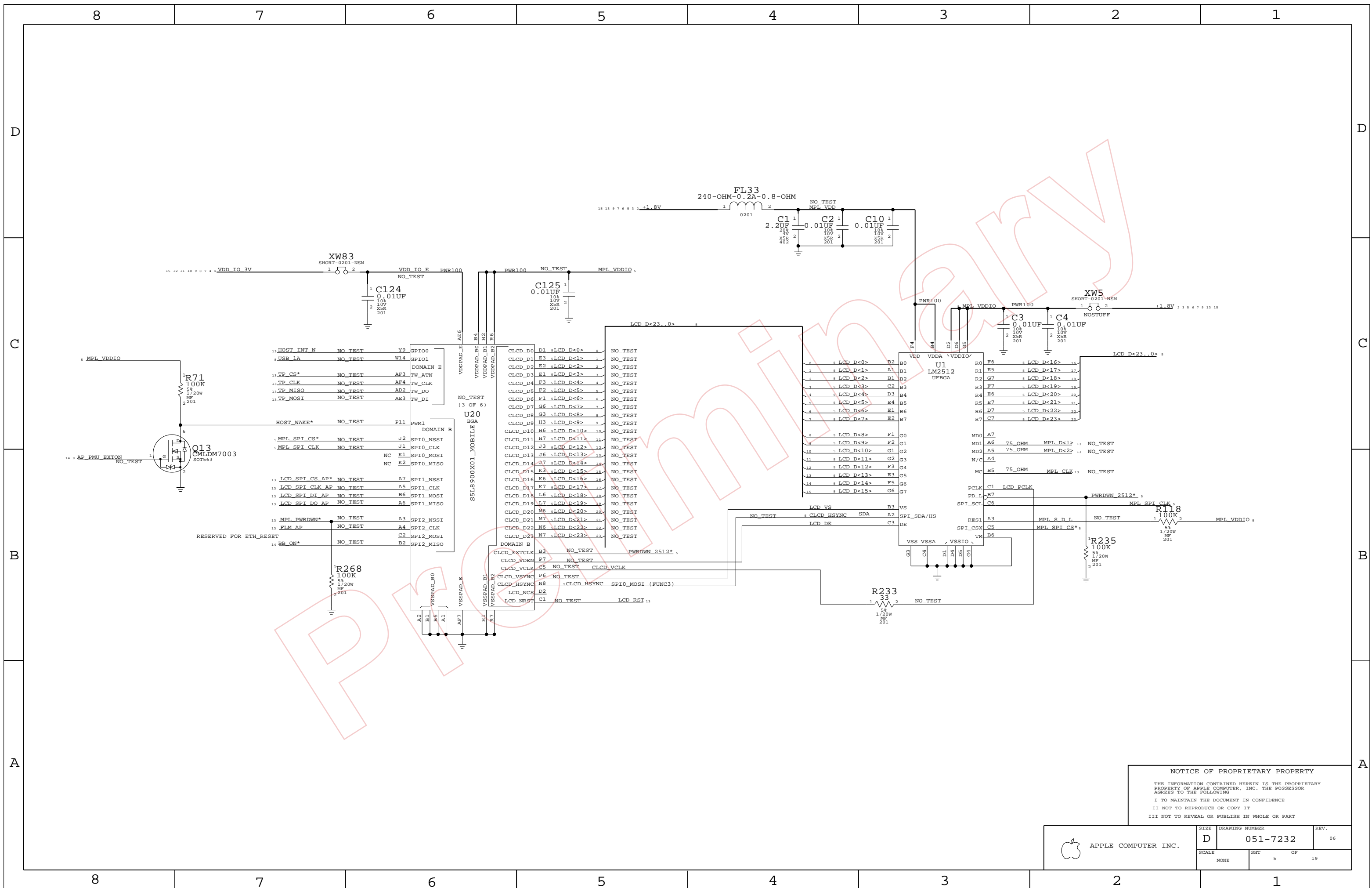
ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS
335S0450	335S0444	FLASH_8GB	U29	TOSHIBA 8GB
335S0425	335S0443	FLASH_4GB	U29	TOSHIBA 4GB



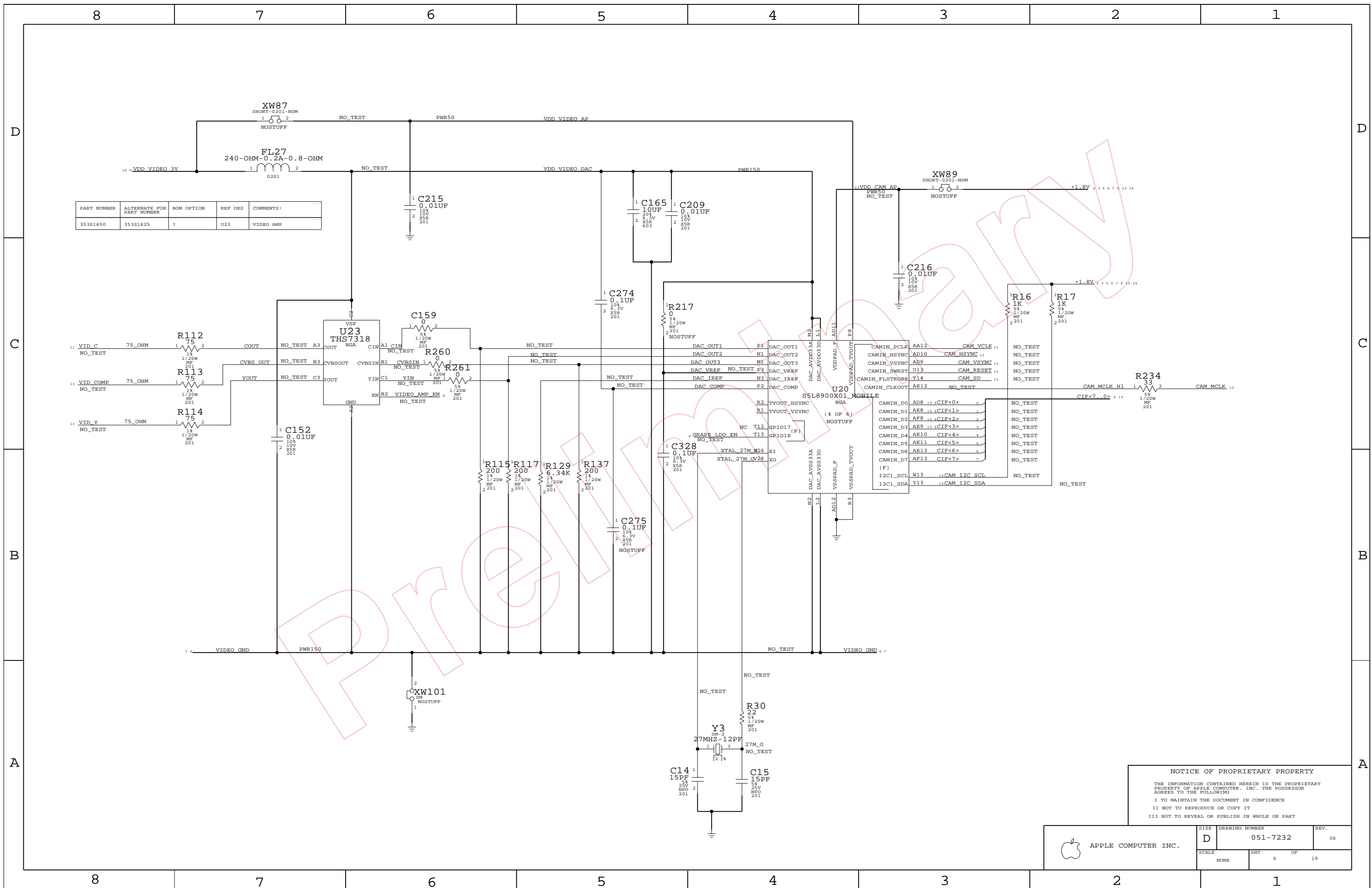
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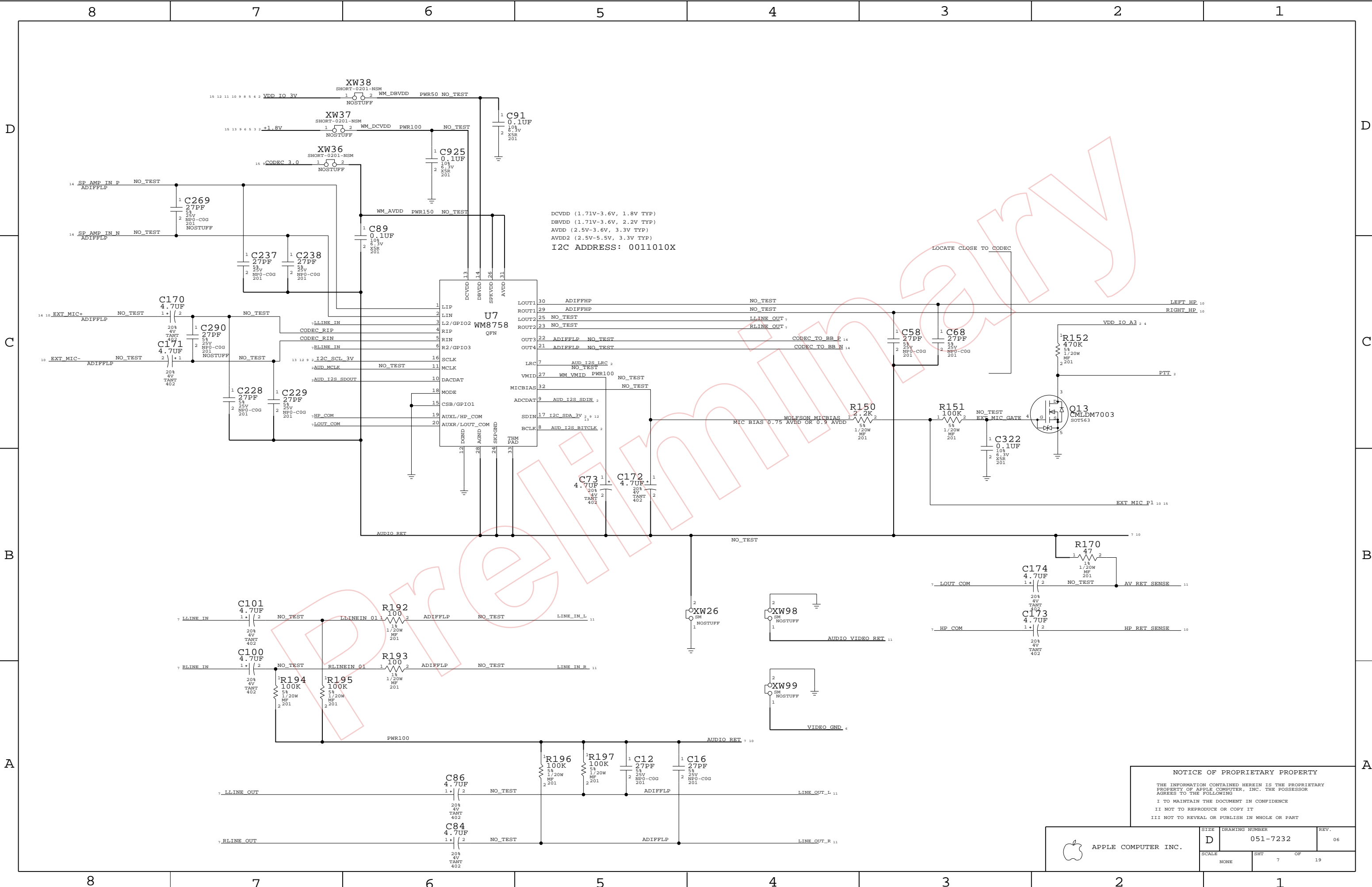
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SCALE	SHT		OF
NONE	5		19



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS
35381650	35381625	?	U23	VIDEO AMP

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NONE	6		19



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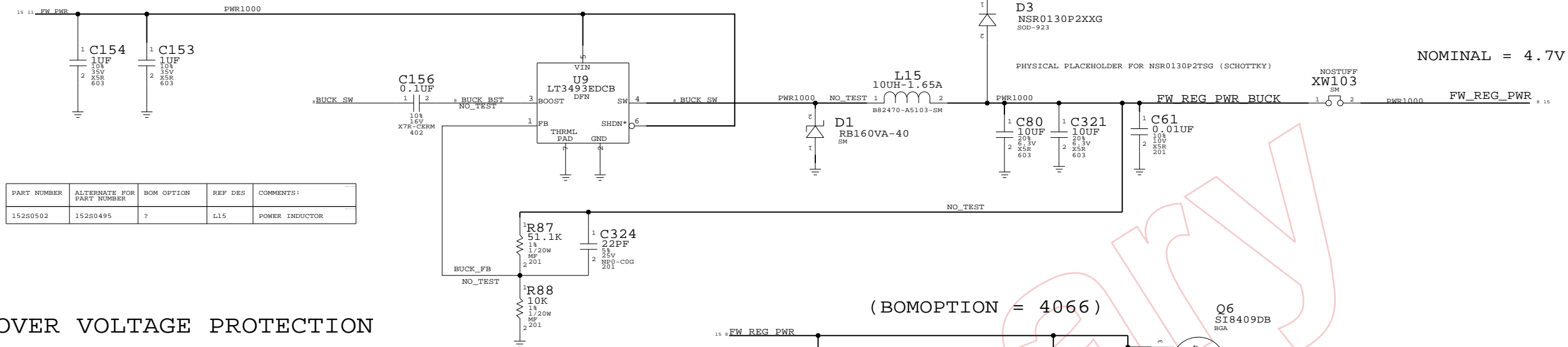
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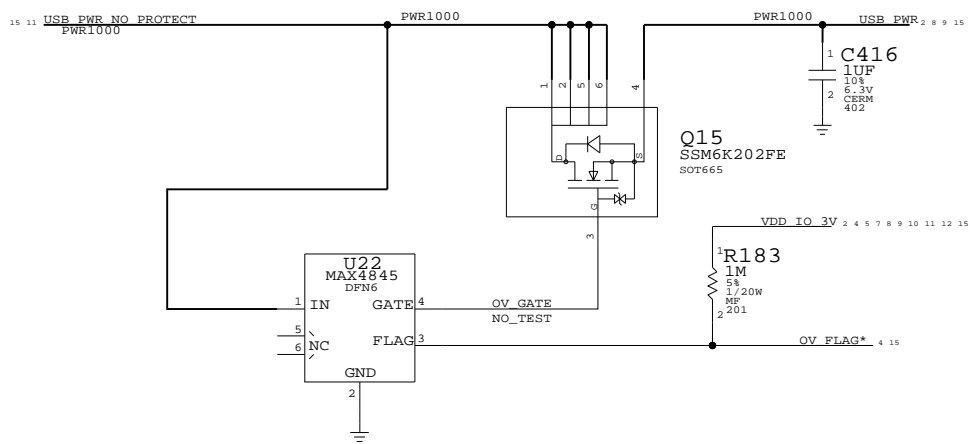
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	D	051-7232	06
SCALE	SHT		OF
NONE	7		19

FIREWIRE INPUT POWER

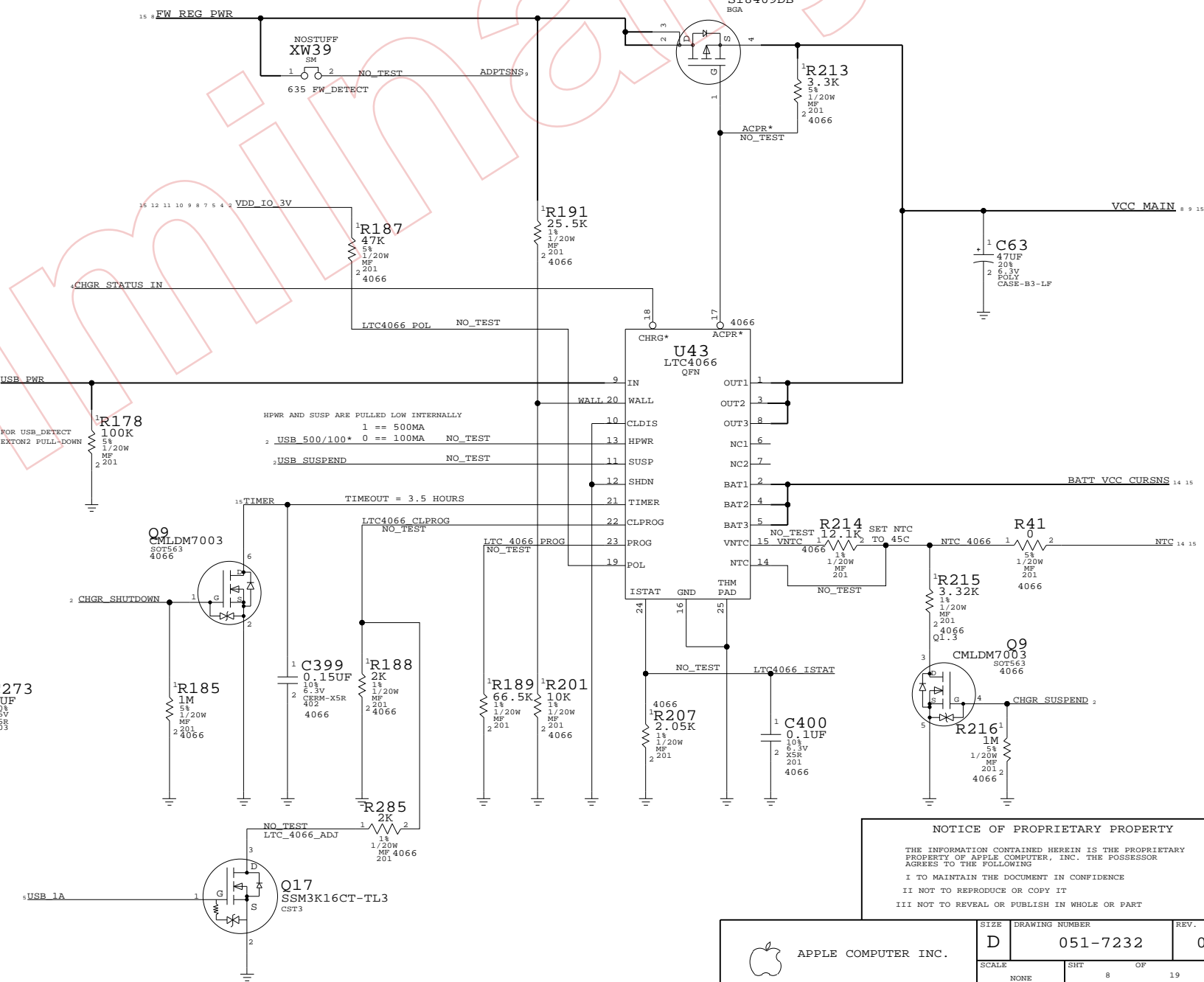


PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS
15280502	15280495	?	L15	POWER INDUCTOR

USB OVER VOLTAGE PROTECTION

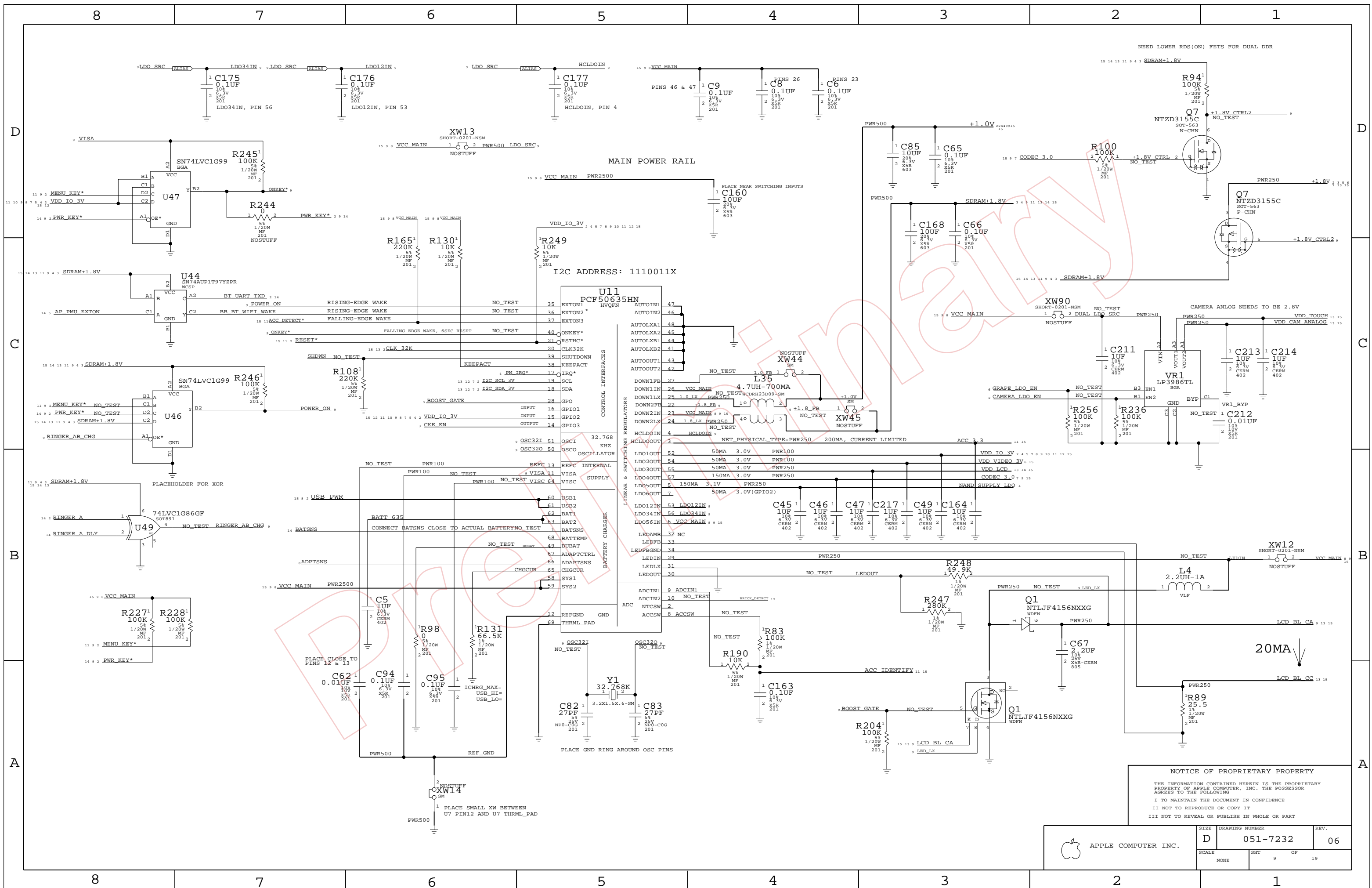


(BOMOPTION = 4066)



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	D	051-7232	06
SCALE	SHT 8 OF 19		
NONE			

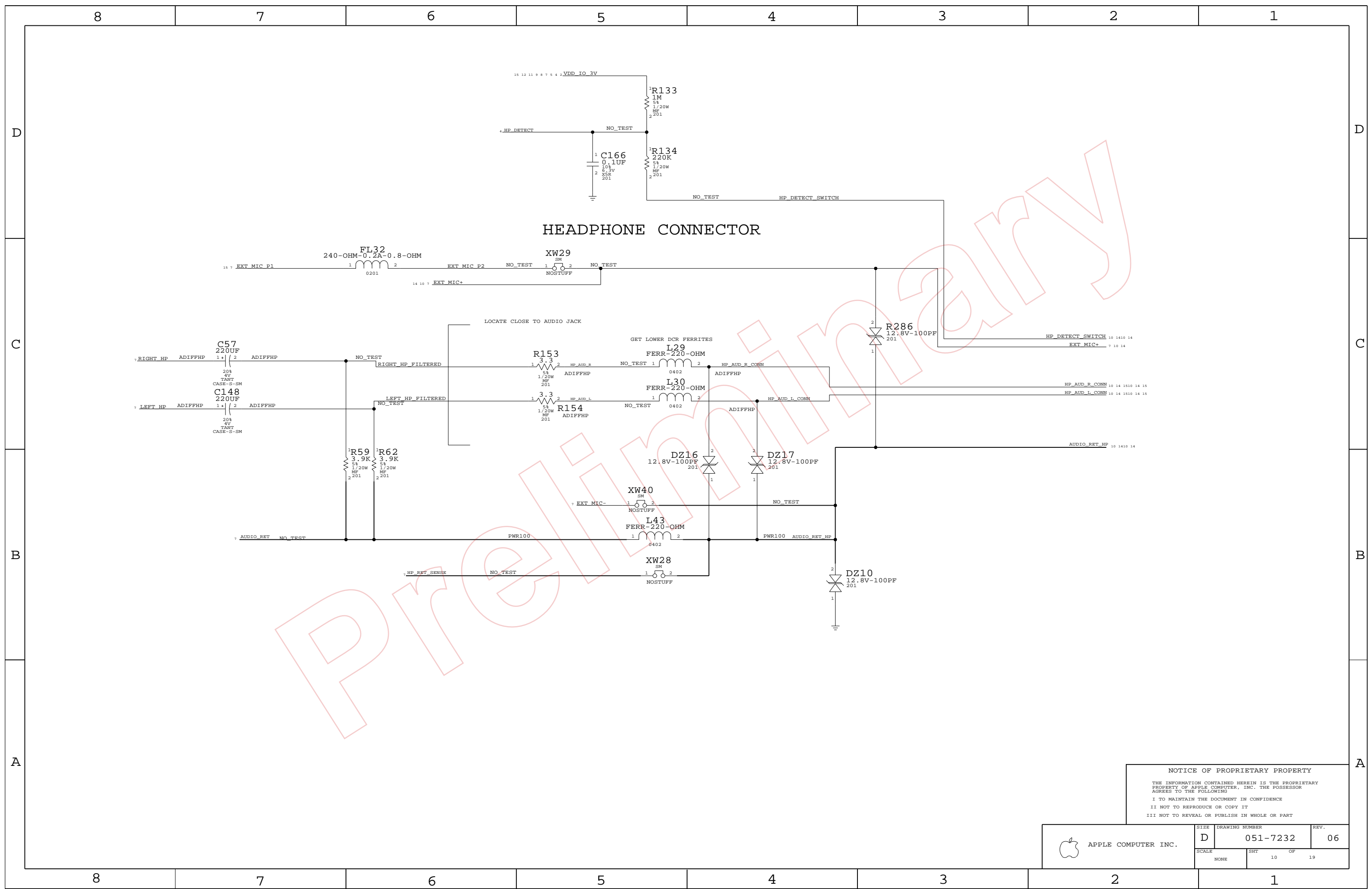


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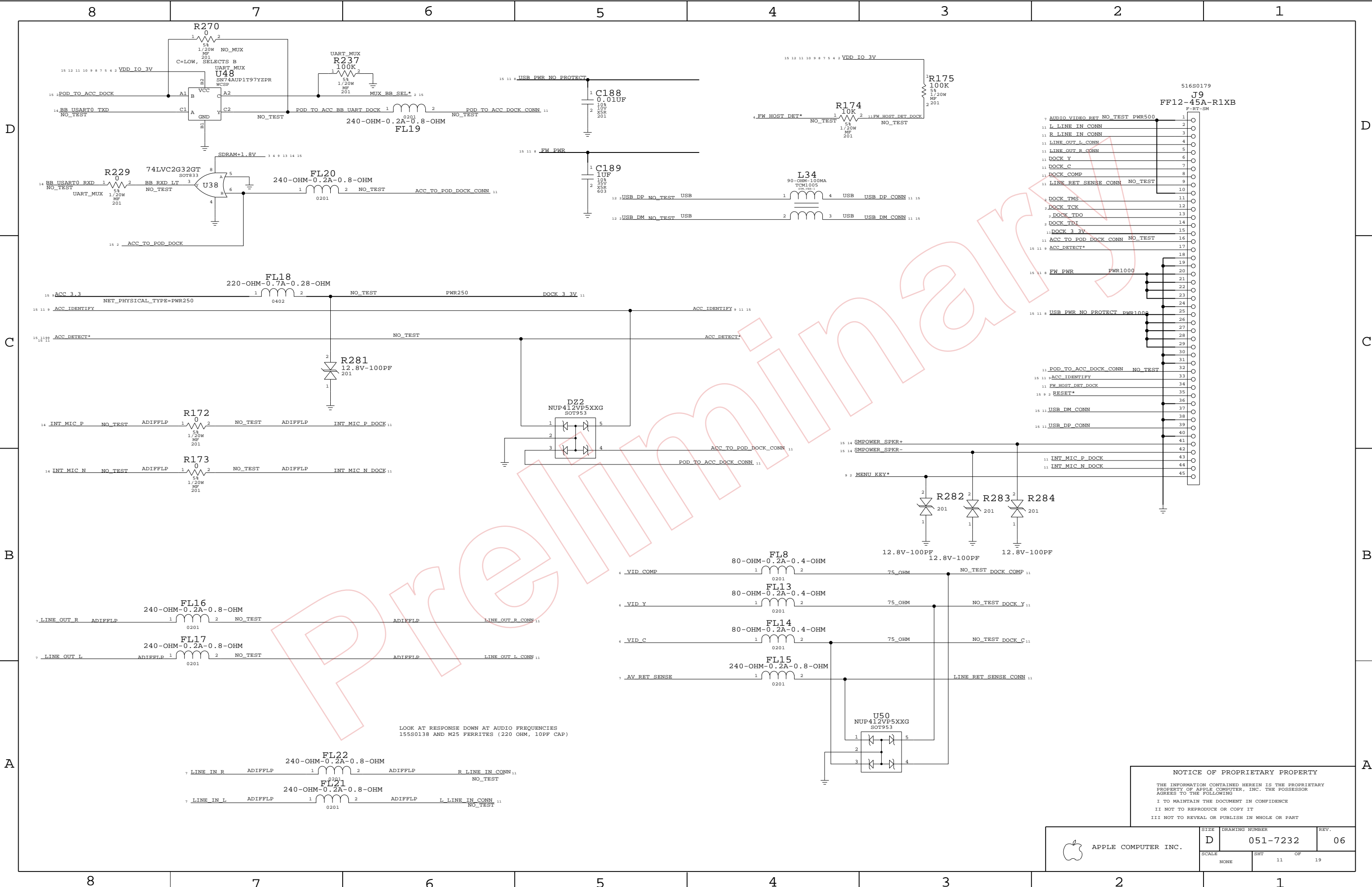
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HEADPHONE CONNECTOR

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NONE	10		19



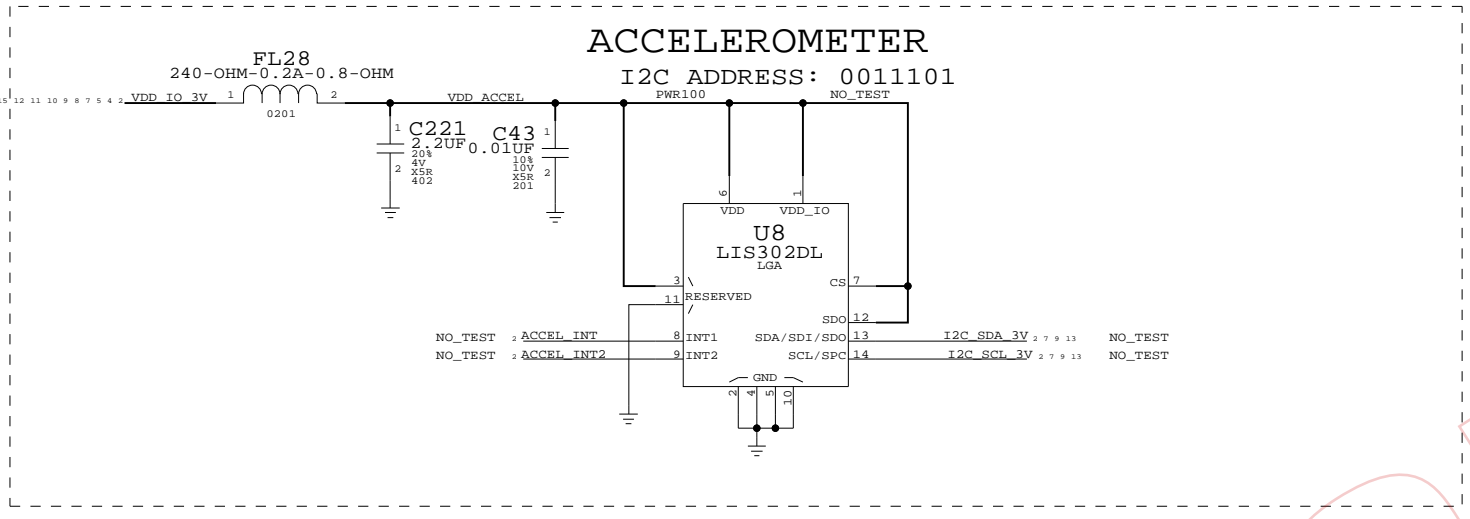
LOOK AT RESPONSE DOWN AT AUDIO FREQUENCIES
155S0138 AND M25 FERRITES (220 OHM, 10PF CAP)

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SCALE	SHT 11 OF 19		

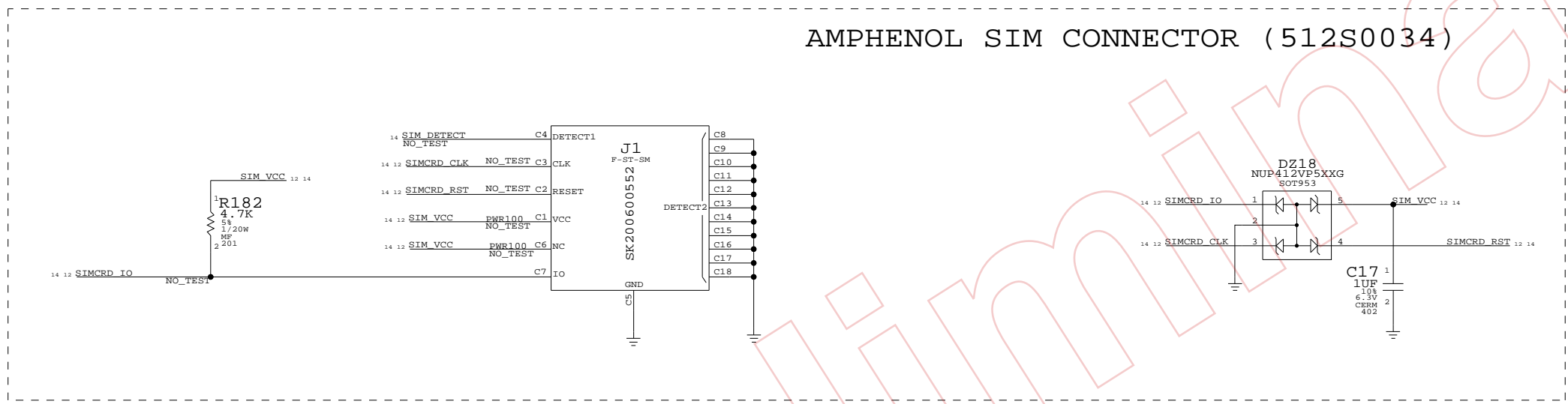
D

D



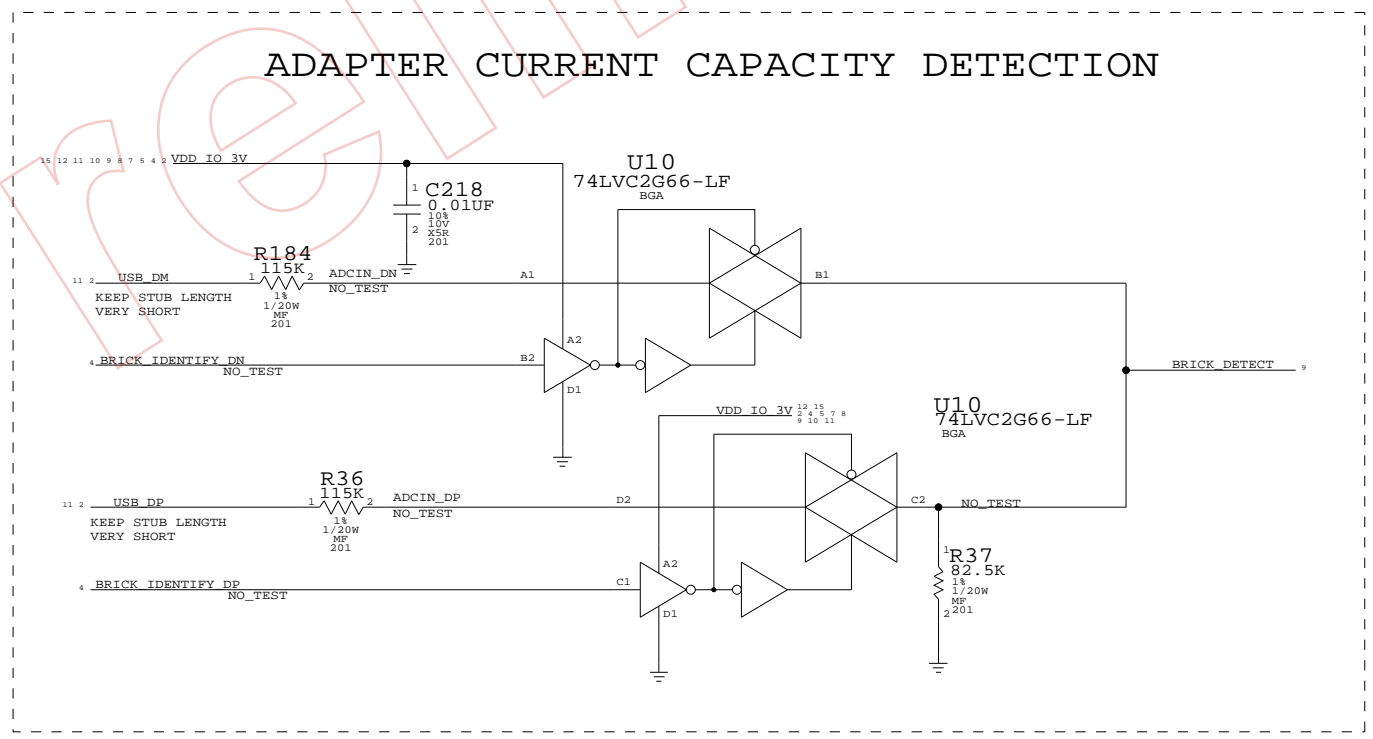
C

C



B

B



A

A

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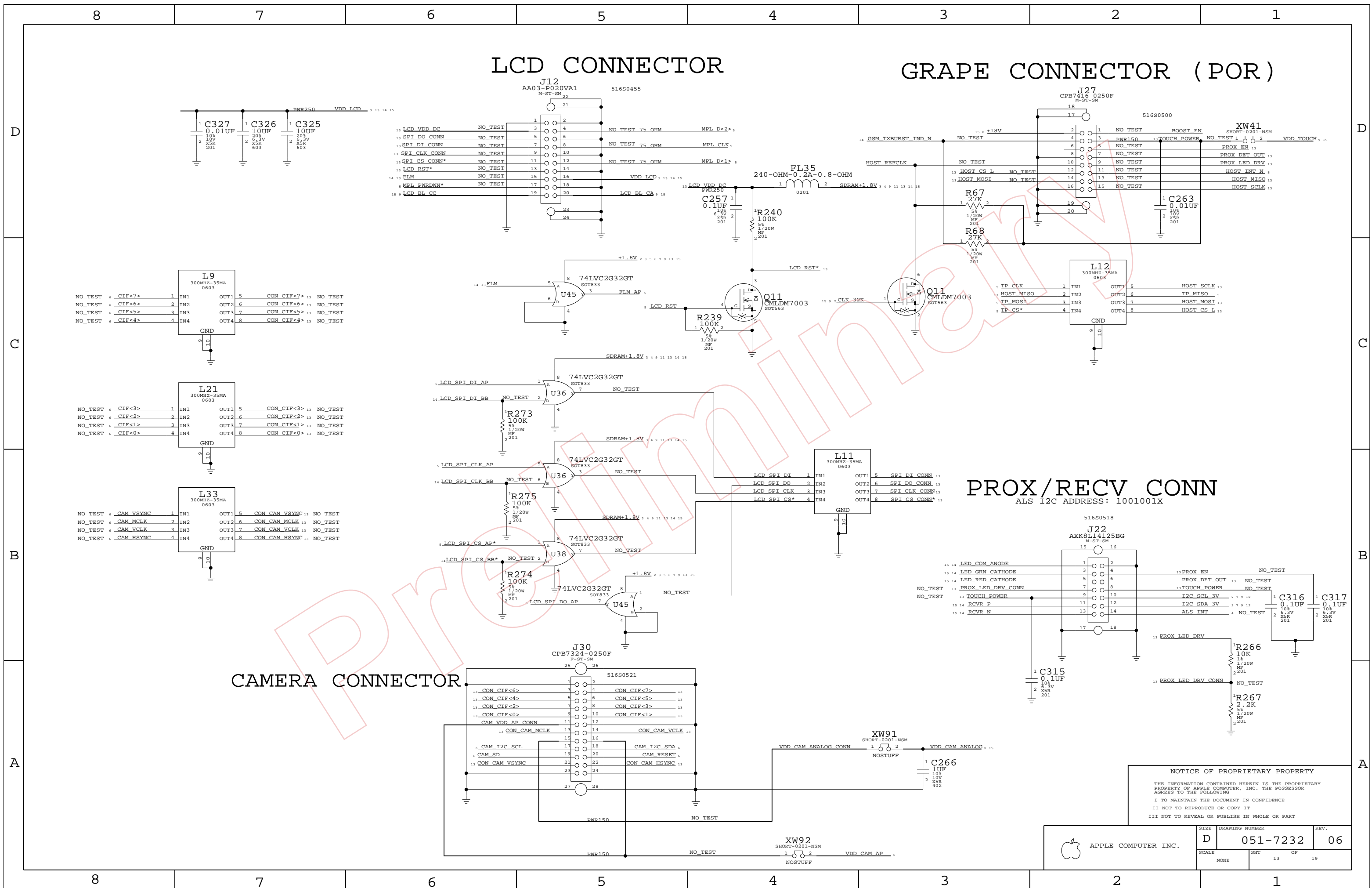
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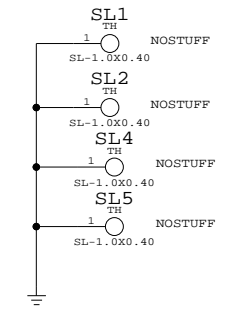
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SCALE		SHT	OF
NONE		12	19



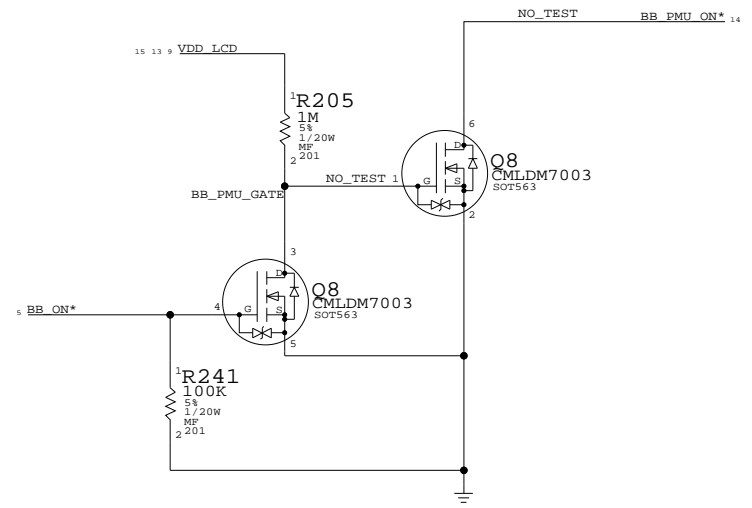
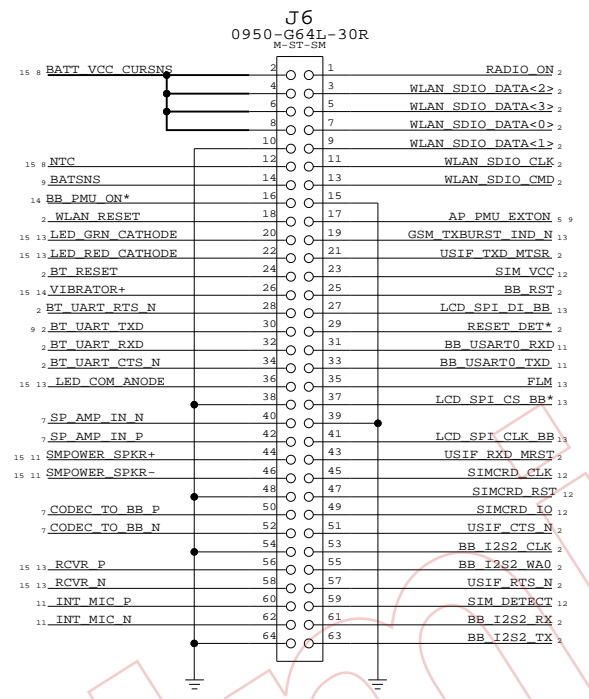
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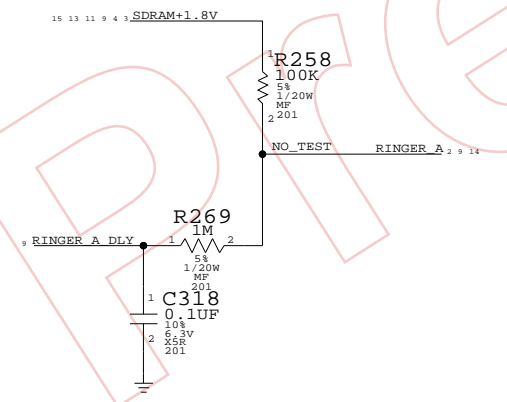
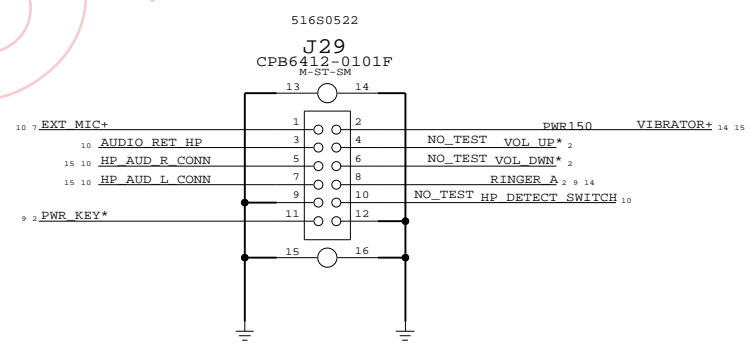
SHIELD ALIGNMENT SLOTS



516S0506 SYNCHRONIZED WITH RADIO SCHEMATIC 6-15-06



HOLD/VOLUME UP&DOWN



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SCALE	SHT OF		
NONE	14 OF 19		

TEST POINTS

GPIO

FUNC_TEST MUX_BB_SEL* 2 11

FUNC_TEST GPIO19 2

AUDIO

FUNC_TEST EXT_MIC_P1 7 10

SPEAKER

FUNC_TEST SMPPOWER_SPKR+ 11 14

FUNC_TEST SMPPOWER_SPKR- 11 14

RECEIVER

FUNC_TEST RCVR_P 13 14

FUNC_TEST RCVR_N 13 14

INT MIC

FUNC_TEST HP_AUD_R_CONN 10 14

FUNC_TEST HP_AUD_L_CONN 10 14

CLOCK

FUNC_TEST CLK_24M_O 2

FUNC_TEST CLK_SYS_OUT 2

FUNC_TEST CLK_32K 2 9 13

LED

FUNC_TEST LED_GRN_CATHODE 13 14

FUNC_TEST LED_RED_CATHODE 13 14

FUNC_TEST LED_COM_ANODE 13 14

VIBE

FUNC_TEST VIBRATOR+ 14

UART

FUNC_TEST POP_TO_ACC_DOCK 2 11

FUNC_TEST ACC_TO_POP_DOCK 2 11

FUNC_TEST UART4_RXD 2

FUNC_TEST UART4_TXD 2

USB

FUNC_TEST USB_DP_CONN 11

FUNC_TEST USB_DM_CONN 11

RESET

FUNC_TEST RESET* 2 9 11

ACCESSORY DETECT

FUNC_TEST ACC_DETECT* 9 11

FUNC_TEST ACC_IDENTIFY 9 11

POWER

FUNC_TEST +1.8V 8 13

FUNC_TEST VCC_MAIN 8 9

FUNC_TEST FW_PWR 8 11

FUNC_TEST USB_PWR_NO_PROTECT 8 11

FUNC_TEST BATT_VCC_CURSNS 8 14

FUNC_TEST

FUNC_TEST FW_REG_PWR 8

FUNC_TEST USB_PWR 2 8 9

FUNC_TEST +1.0V 2 4 9

FUNC_TEST SDRAM+1.8V 3 4 9 11 13 14

FUNC_TEST +1.8V 2 3 5 6 7 9 13

FUNC_TEST ACC_3.3 9 11

FUNC_TEST VDD_IO_3V 2 4 5 7 8 9 10 11 12

FUNC_TEST VDD_VIDEO_3V 6 9

FUNC_TEST VDD_LCD 9 13 14

FUNC_TEST CODEC_3.0 7 9

FUNC_TEST NAND_SUPPLY 4

FUNC_TEST VDD_TOUCH 9 13

FUNC_TEST VDD_CAM_ANALOG 9 13

FUNC_TEST LCD_BL_CC 9 13

FUNC_TEST LCD_BL_CA 9 13


FUNC_TEST OV_FLAG* 4 8

FUNC_TEST NTC 8 14

FUNC_TEST TIMER 8

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	SCALE NONE	SHEETS 15	OF 19

	8	7	6	5	4	3	2	1
D	VDD_VDRAM_LV0	VDD_VDRAM_LV0 - @m68_aps_lib.M68_APS 4D2						
	VDD_VIDEO_3V	VDD_VIDEO_3V - @m68_aps_lib.M68_APS 6D8 9B3 15B2						
	VDD_VIDEO_AP	VDD_VIDEO_AP - @m68_aps_lib.M68_APS 6D5						
	VDD_VIDEO_DAC	VDD_VIDEO_DAC - @m68_aps_lib.M68_APS 6D5						
	VDD_VRAM_LV0	VDD_VRAM_LV0 - @m68_aps_lib.M68_APS 4B3						
	VIBRATOR*	VIBRATOR* - @m68_aps_lib.M68_APS 14A4 14C5 15C5						
	VIDEO_AMP_EN	VIDEO_AMP_EN - @m68_aps_lib.M68_APS 4D8 6C6						
	VIDEO_GND	VIDEO_GND - @m68_aps_lib.M68_APS 6A3 6A7 7A4						
	VID_C	VID_C - @m68_aps_lib.M68_APS 6C8 11A5						
	VID_COMP	VID_COMP - @m68_aps_lib.M68_APS 6C8 11B5						
VID_Y	VID_Y - @m68_aps_lib.M68_APS 6C8 11B5							
VISA	VISA - @m68_aps_lib.M68_APS 9B5 9D8							
VISC	VISC - @m68_aps_lib.M68_APS 9B5							
VNTC	VNTC - @m68_aps_lib.M68_APS 8B2							
VOL_DWN*	VOL_DWN* - @m68_aps_lib.M68_APS 2A7 2C6 14A4							
VOL_UP*	VOL_UP* - @m68_aps_lib.M68_APS 2A7 2C6 14A4							
VRL_BYP	VRL_BYP - @m68_aps_lib.M68_APS 9C1							
WALL	WALL - @m68_aps_lib.M68_APS 8B3							
WLAN_RESET	WLAN_RESET - @m68_aps_lib.M68_APS 2C6 14C5							
WLAN_SDIO_CLK	WLAN_SDIO_CLK - @m68_aps_lib.M68_APS 2B7 14D4							
WLAN_SDIO_CMD	WLAN_SDIO_CMD - @m68_aps_lib.M68_APS 2B7 14C4							
WLAN_SDIO_DATA<0>	WLAN_SDIO_DATA<0> - @m68_aps_lib.M68_APS 2B7 14D4							
WLAN_SDIO_DATA<1>	WLAN_SDIO_DATA<1> - @m68_aps_lib.M68_APS 2B7 14D4							
WLAN_SDIO_DATA<2>	WLAN_SDIO_DATA<2> - @m68_aps_lib.M68_APS 2B7 14D4							
WLAN_SDIO_DATA<3>	WLAN_SDIO_DATA<3> - @m68_aps_lib.M68_APS 2B7 14D4							
C	WM_AVDD	WM_AVDD - @m68_aps_lib.M68_APS 7D6						
	WM_DBVDD	WM_DBVDD - @m68_aps_lib.M68_APS 7D6						
	WM_DCVDD	WM_DCVDD - @m68_aps_lib.M68_APS 7D6						
	WM_VMID	WM_VMID - @m68_aps_lib.M68_APS 7C5						
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	XTAL_24M_O	XTAL_24M_O - @m68_aps_lib.M68_APS 2B6						
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	XTAL_27M_O	XTAL_27M_O - @m68_aps_lib.M68_APS 6B4						
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YOUT	YOUT - @m68_aps_lib.M68_APS 6C7							

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L42J2_UPBGA m68_apa[5C3] U4 WM8758_QFN m68_apa[7C6] U8 LIS302DL_LGA m68_apa[12D5] U9 SWREG_LT3493_DFN m68_apa[8D5] U10 74LVC2G66_BGA m68_apa[12A4 12B5] U11 PCF50635_HVQFN m68_apa[9C5] U13 FEPR_SST39LF800A_XFL m68_apa[3C4] GA U20 S5L8900X01_MOBILE_BG m68_apa[2D5] A U20 S5L8900X01_MOBILE_BG m68_apa[3C6] A U20 S5L8900X01_MOBILE_BG m68_apa[4D4 4D7] A U20 S5L8900X01_MOBILE_BG m68_apa[5C6] A U20 S5L8900X01_MOBILE_BG m68_apa[6C4] A U22 MAX4445_DFN6 m68_apa[8B8] U23 TMS318_BGA m68_apa[6C6] U26 74LVC2G66_SOT833 m68_apa[3B7 3B7] U29 FLASH_4GX8_48P4_TSOP m68_apa[4B7] U33 74LVC2G08_SOT833 m68_apa[2A3 2A3] U36 74LVC2G32GT_SOT833 m68_apa[13B5 13C5] U38 74LVC2G32GT_SOT833 m68_apa[11D7] U38 74LVC2G32GT_SOT833 m68_apa[13B5] U41 TPS61045_QFN m68_apa[8A7] U43 LTC4066_QFN m68_apa[8B3] U44 SN74ADP1T97_WCSP m68_apa[9C8] U45 74LVC2G32GT_SOT833 m68_apa[13C5 13B5] U46 SN74LVC1929_BGA m68_apa[9C8] U47 SN74LVC1929_BGA m68_apa[9D8] U48 SN74ADP1T97_WCSP m68_apa[11D7] U49 74LVC1G86_SOT891 m68_apa[9B8] U50 SUPPR_NUP412VP5_SOT9 m68_apa[11A3] 53 VR1 VREG_LP3986_BGA m68_apa[9C2] XW5 SHORT_SHORT-0201-NSM m68_apa[5C2] XW12 SHORT_SHORT-0201-NSM m68_apa[9B1] XW13 SHORT_SHORT-0201-NSM m68_apa[9A6] XW14 SHORT_SM m68_apa[9A6] XW26 SHORT8L25_WITH_ALTS m68_apa[7B4] SM XW28 SHORT_SM m68_apa[10B5] XW29 SHORT_SM m68_apa[10C5] XW35 SHORT_SHORT-0201-NSM m68_apa[4B6] XW36 SHORT_SHORT-0201-NSM m68_apa[7D7] XW37 SHORT_SHORT-0201-NSM m68_apa[7D7] XW38 SHORT_SHORT-0201-NSM m68_apa[7D6] XW39 SHORT_SM m68_apa[8C4] XW40 SHORT_SM m68_apa[10B5] XW41 SHORT_SHORT-0201-NSM m68_apa[13D1] XW44 SHORT_SM m68_apa[9C4] XW45 SHORT_SM m68_apa[9C4] XW46 SHORT_SHORT-0201-NSM m68_apa[2D6] XW47 SHORT_SHORT-0201-NSM m68_apa[2D2] XW69 SHORT_SHORT-0201-NSM m68_apa[2C2] XW70 SHORT_SHORT-0201-NSM m68_apa[2C2] XW71 SHORT_SHORT-0201-NSM m68_apa[2C2] XW72 SHORT_SHORT-0201-NSM m68_apa[2C3] XW77 SHORT_SHORT-0201-NSM m68_apa[2D2] XW82 SHORT_SHORT-0201-NSM m68_apa[3D3] XW83 SHORT_SHORT-0201-NSM m68_apa[5C7] XW84 SHORT_SHORT-0201-NSM m68_apa[4B1] XW85 SHORT_SHORT-0201-NSM m68_apa[4C1] XW87 SHORT_SHORT-0201-NSM m68_apa[6D7] XW89 SHORT_SHORT-0201-NSM m68_apa[6D3] XW90 SHORT_SHORT-0201-NSM m68_apa[9C2] XW91 SHORT_SHORT-0201-NSM m68_apa[13A3] XW92 SHORT_SHORT-0201-NSM m68_apa[13A4] XW93 SHORT_SHORT-0201-NSM m68_apa[2A1] XW98 SHORT_SM m68_apa[7B4] XW99 SHORT_SM m68_apa[7A4] XW101 SHORT_SM m68_apa[6A6] XW103 SHORT_SM m68_apa[8D2] Y1 CRYSTAL_3_2X1_5X_6-S m68_apa[9A5] M Y2 CRYSTAL_4PIN_SM-2 m68_apa[2B6]	A			
A								
	8	7	6	5	4	3	2	1

8

7

6

5

4

3

2

1

Y3 CRYSTAL_4PIN_SM-2 m68_apo[6A4]

D

D

C

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B

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Preliminary

8

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2

1