

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	ZONE	ECN	DESCRIPTION OF CHANGE	CK APPD DATE	ENG APPD DATE
A				?	?



SCHEM, BUZZ, M1

EVT

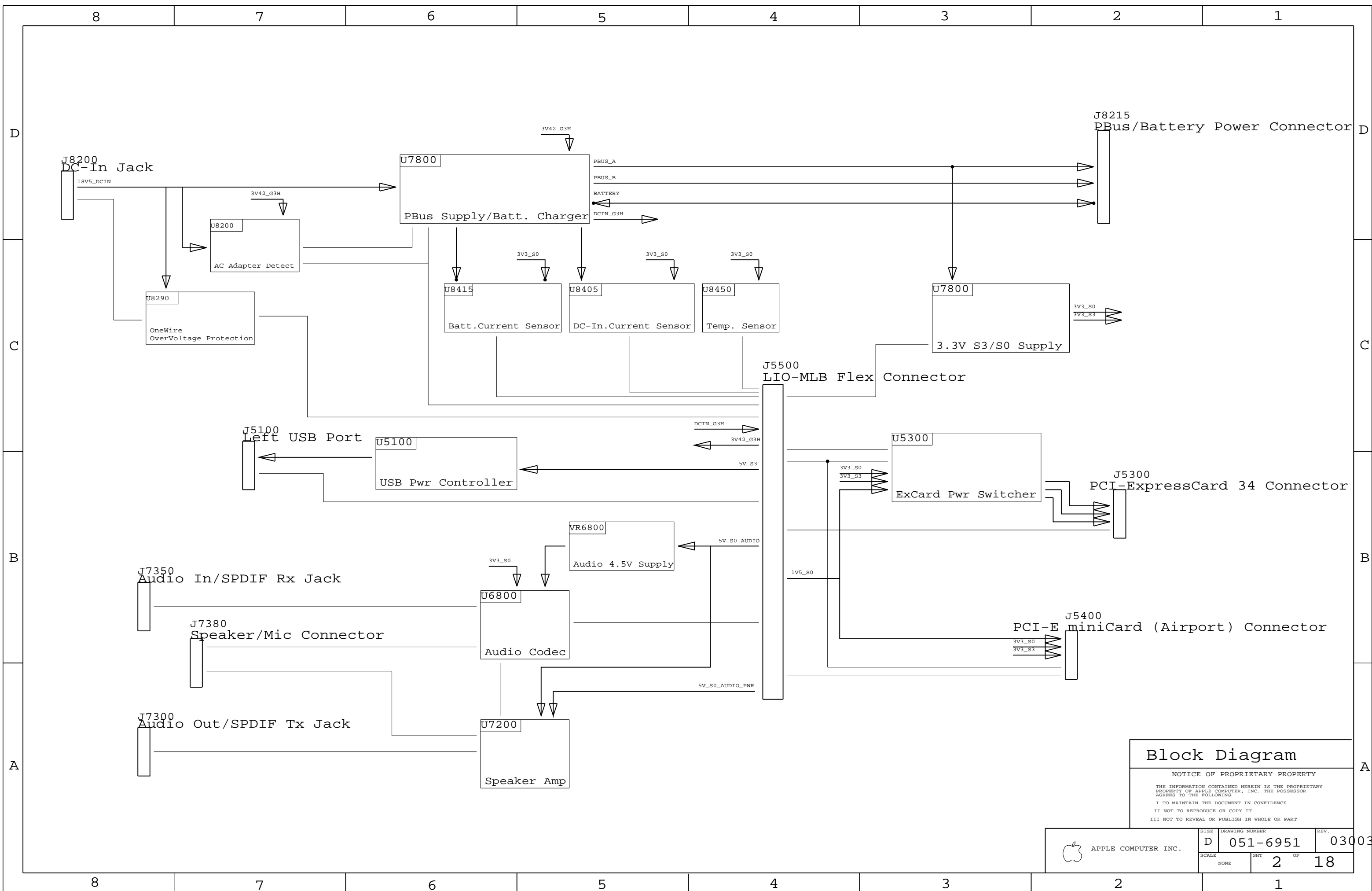
10/09/05

PDF PAGE	CSA PAGE	CONTENTS	SYNC MASTER	DATE
1	1	Table of Contents		
2	2	Block Diagram		
3	4	BOM Configuration	(Master)	(Master)
4	6	Aliases	(Master)	(Master)
5	51	Left USB Port	(Master)	(Master)
6	53	ExpressCard Connector	(Master)	(Master)
7	54	PCI-E MiniCard Connector	(Master)	(Master)
8	55	MLB I/O Board Connector	(Master)	(Master)
9	68	AUDIO: CODEC	AUDIO_REF	10/04/2005
10	72	AUDIO: SPEAKER AMPLIFIER	M1_AUDIO_REF	10/04/2005
11	73	AUDIO: CONNECTORS	M1_AUDIO_REF	10/04/2005
12	74	AUDIO: JACK TRANSLATORS	M1_AUDIO_REF	10/04/2005
13	78	3.3V Supply	(Master)	(Master)
14	82	DC-In & Battery Connectors	(Master)	(Master)
15	83	PBus Supply & Batt. Charger	(Master)	(Master)
16	84	Current & Thermal Sensors	(Master)	(Master)
17	85	Cross Reference Page		
18	86	Cross Reference Page		

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-6951	1	SCHEM, BUZZ, M1	SCH1		
820-1699	1	PCBF, BUZZ, M1	PCB1		

DIMENSIONS ARE IN MILLIMETERS		METRIC		 Apple Computer Inc.	
XX :	_____	DRAPTER	/	DESIGN CK	/
X.XX :	_____	ENG APPD	/	MFG APPD	/
X.XXX :	_____	QA APPD	/	DESIGNER	/
ANGLES :	_____	RELEASE	/	SCALE	NONE
DO NOT SCALE DRAWING		MATERIAL/FINISH NOTED AS APPLICABLE		SIZE	D
 THIRD ANGLE PROJECTION		DRAWING NUMBER		051-6951	REV 03003
SHT 1 OF 18					


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Block Diagram

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	D	051-6951	03003
SCALE	SHT	OF	
NONE	2	18	

8 7 6 5 4 3 2 1

BOM NUMBER	BOM NAME	BOM OPTIONS
630-7249	PCBA, BUZZ, M1	075-0144, 075-0145
075-0144	PROJ_PTS, BUZZ, M1	COMMON, EXCARD_3CNTL, ONEWIRE_DIV, STA9221
075-0145	LEMENU_PTS, BUZZ, M1	LEMENU

Phantom BOM #'s

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
075-0144	1	PROJ_PTS, BUZZ, M1	BOM1		075-0144
075-0145	1	LEMENU_PTS, BUZZ, M1	BOM2		075-0145

D

D

C

C

B


B

A

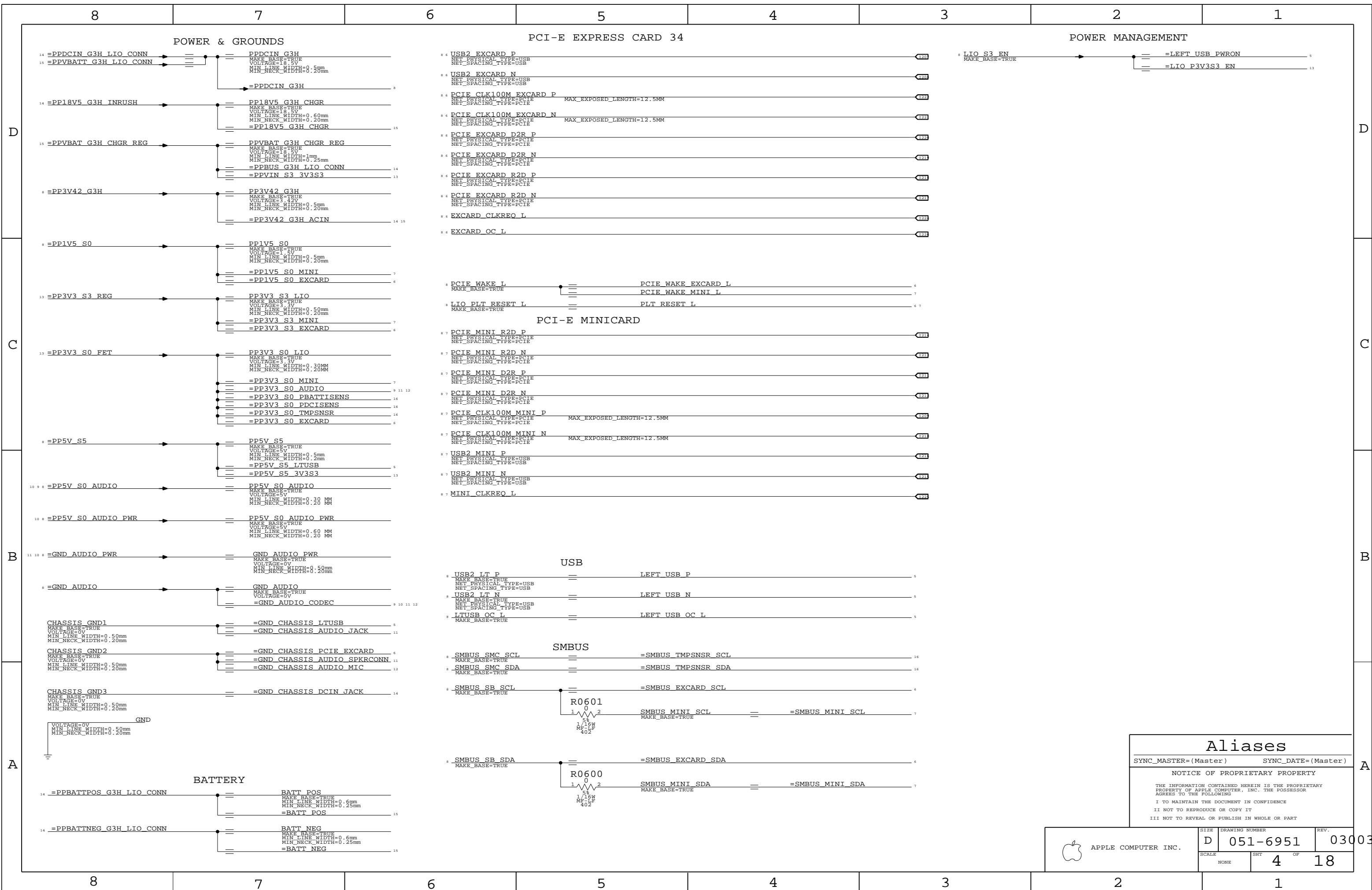
A

8 7 6 5 4 3 2 1

BOM Configuration	
SYNC_MASTER=(Master)	SYNC_DATE=(Master)
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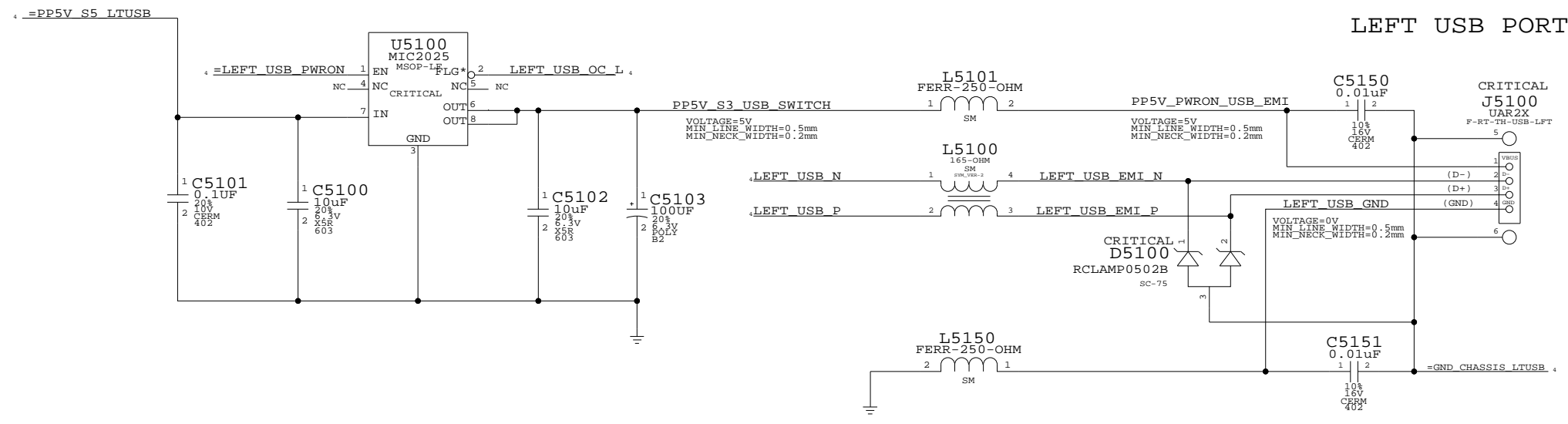
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Aliases		
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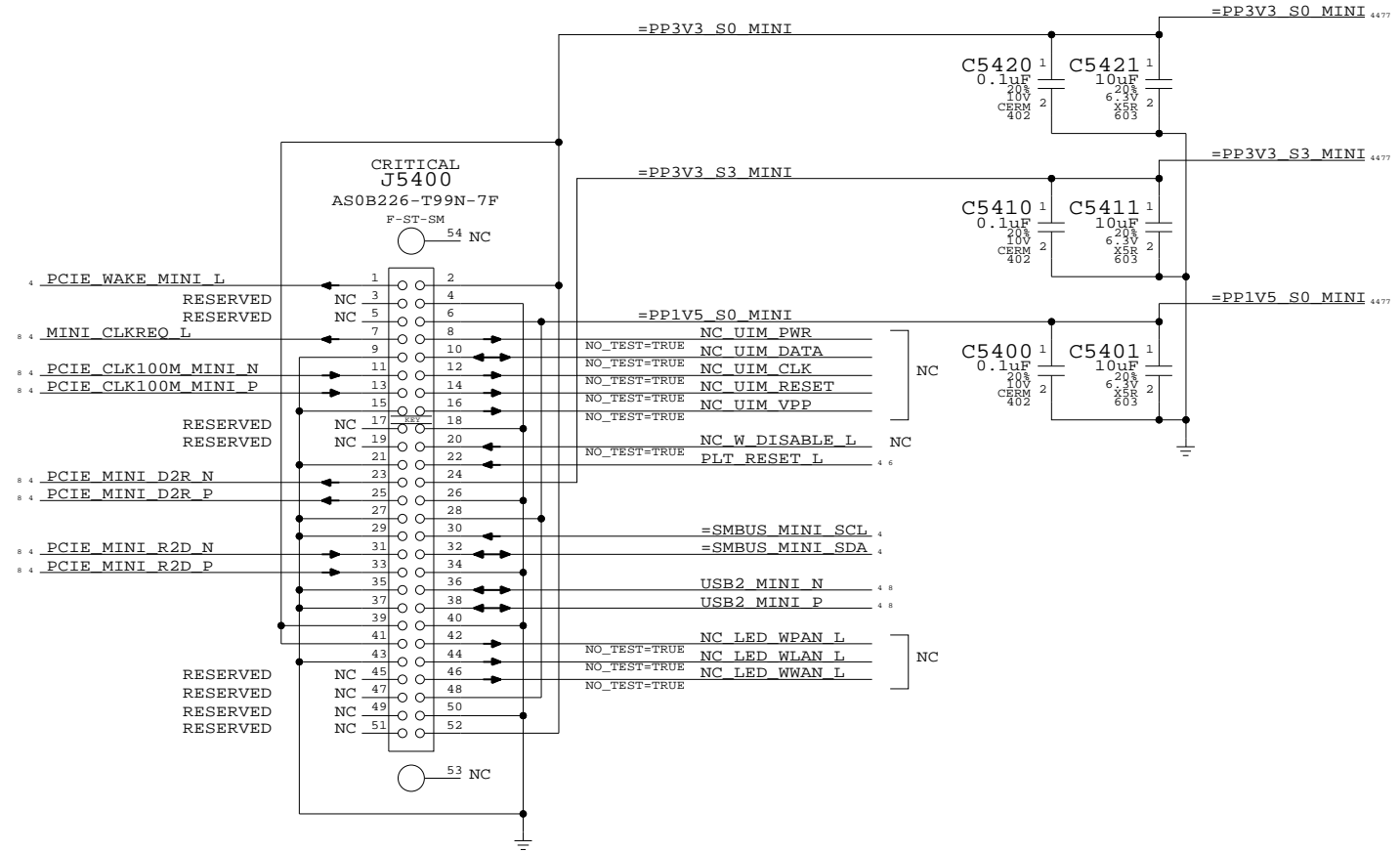
FIXME - make sure this ESD protection is approved by Yellow

PUT L5100, L5101, AND L51150 ACROSS THE MOAT

Left USB Port
 SYNC_MASTER=(Master) SYNC_DATE=(Master)
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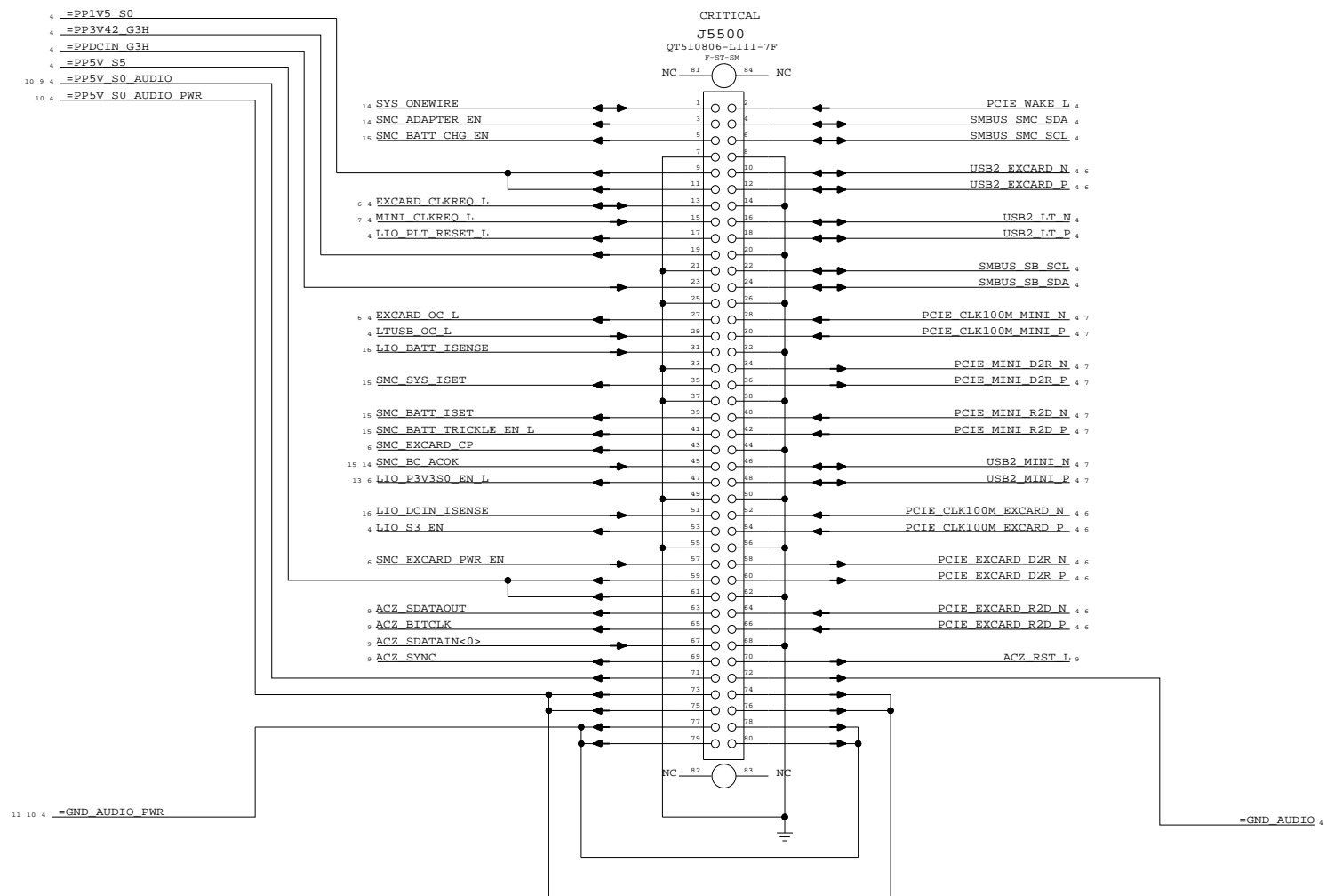
PCI-EXPRESS MINI CARD CONNECTOR



PCI-E MiniCard Connector
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SCALE	SHT	OF	
NONE	7	18	

Left I/O Board Connector

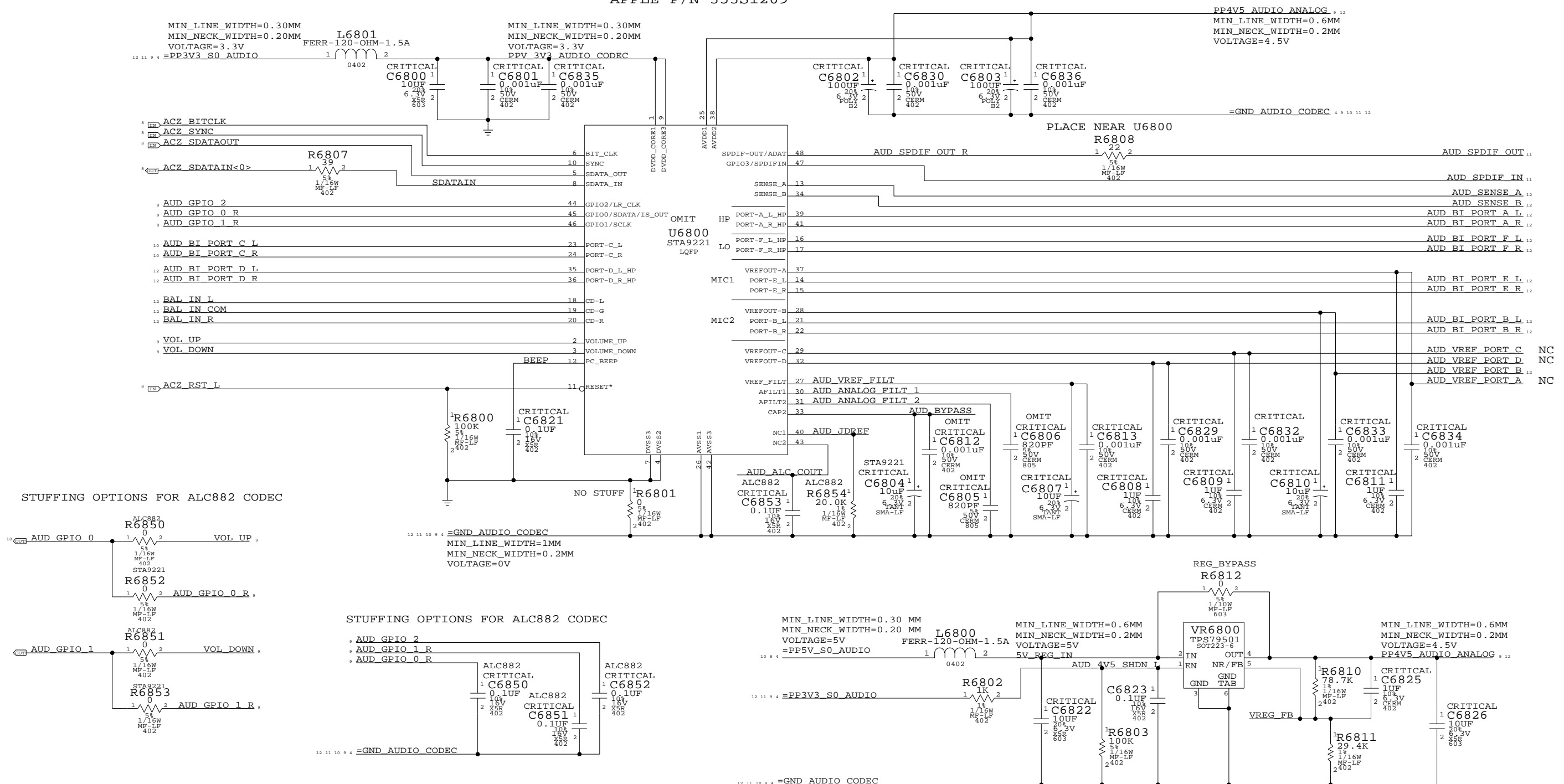


MLB I/O Board Connector
 SYNC_MASTER=(Master) SYNC_DATE=(Master)
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	D	051-6951	03003
	SCALE	SHT	OF
	NONE	8	18

AUDIO CODEC

APPLE P/N 353S1209



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S1209	1	Sigmatel STA9221 CODEC	U6800	CRITICAL	LEMENU
131S8223	1	820pF NPO Capacitor	C6805	CRITICAL	STA9221
131S8223	1	820pF NPO Capacitor	C6806	CRITICAL	STA9221
132S0045	1	0.001uF 50V 10% X7R Capacitor	C6812	CRITICAL	STA9221
353S1268	1	Realtek ALC882 CODEC	U6800	CRITICAL	ALC882
138S0541	1	1uF 10V X7R Capacitor	C6805	CRITICAL	ALC882
138S0541	1	1uF 10V X7R Capacitor	C6806	CRITICAL	ALC882
116S0004	1	0 ohms 0402 Resistor	C6812	CRITICAL	ALC882

4.5V POWER SUPPLY FOR CODEC

AUDIO: CODEC

SYNC_MASTER=AUDIO_REF SYNC_DATE=10/04/2005

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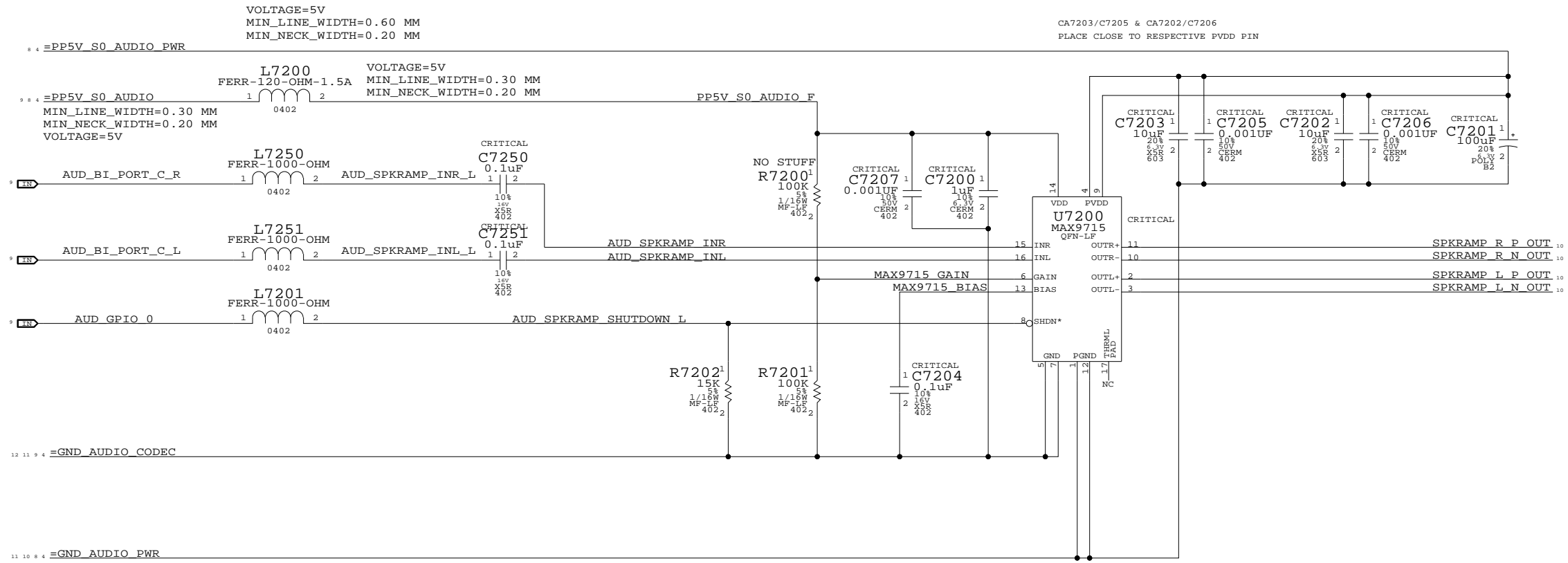
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III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

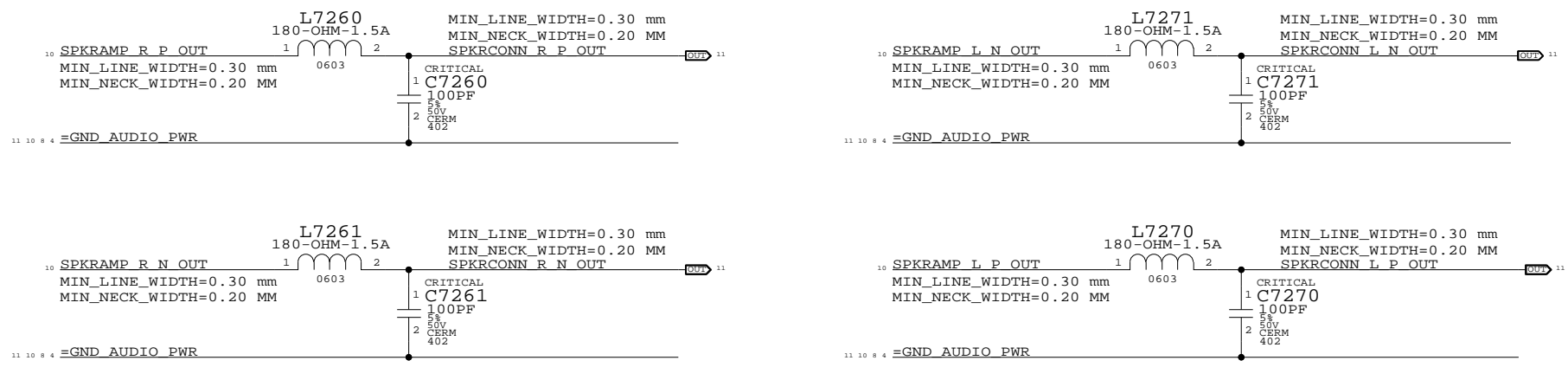
APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6951	03003
SCALE		SHT	OF
NONE		9	18

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STEREO SPEAKER AMPLIFIERS (MAX9715)
 APN: 353S1283
 Gain = 10.5dB
 118 < FC < 245Hz



EMI FILTERS FOR AMPLIFIER OUTPUTS

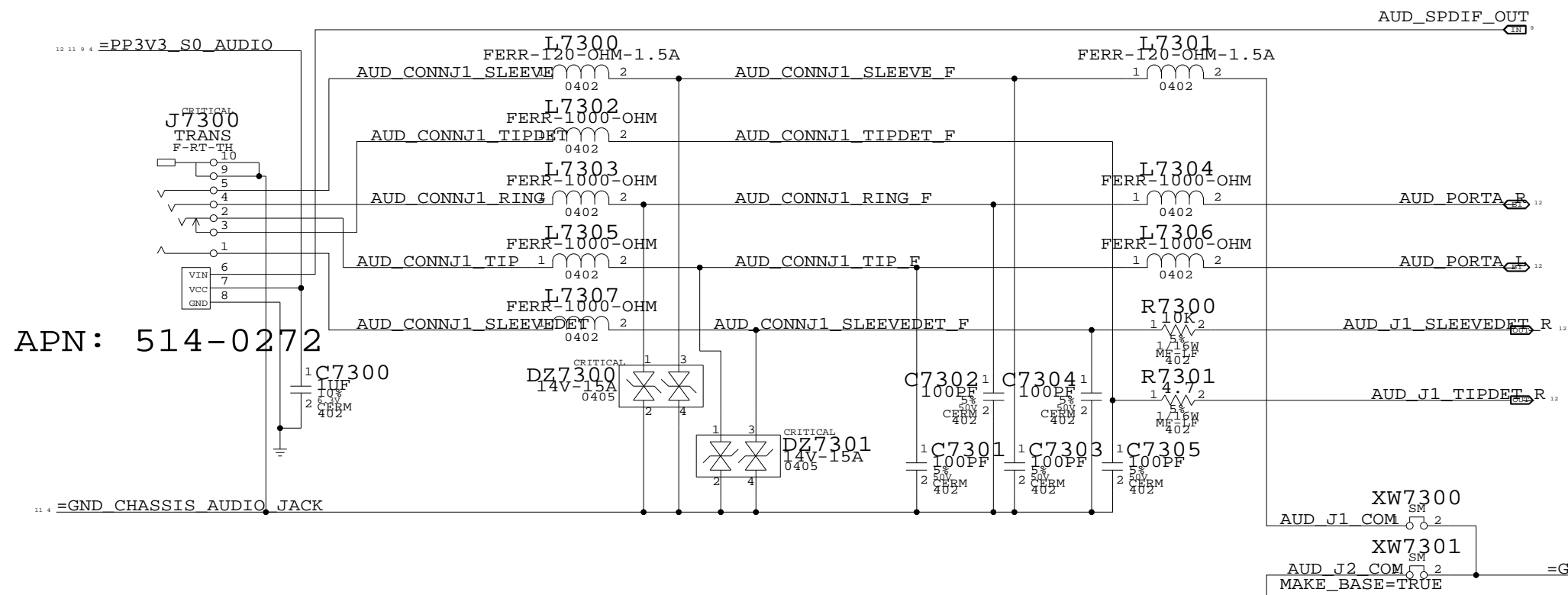


AUDIO: SPEAKER AMPLIFIER

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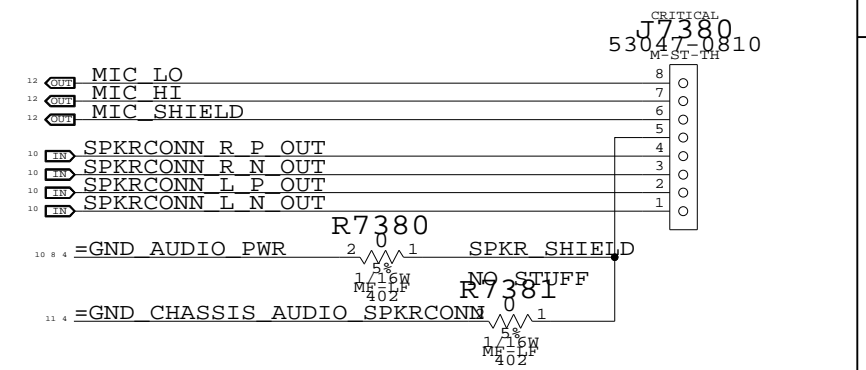
APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
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SCALE	SHT	OF	
NONE	10	18	

AUDIO JACK 1/DEFAULT LO/HP CONNECTOR, SPDIF TX

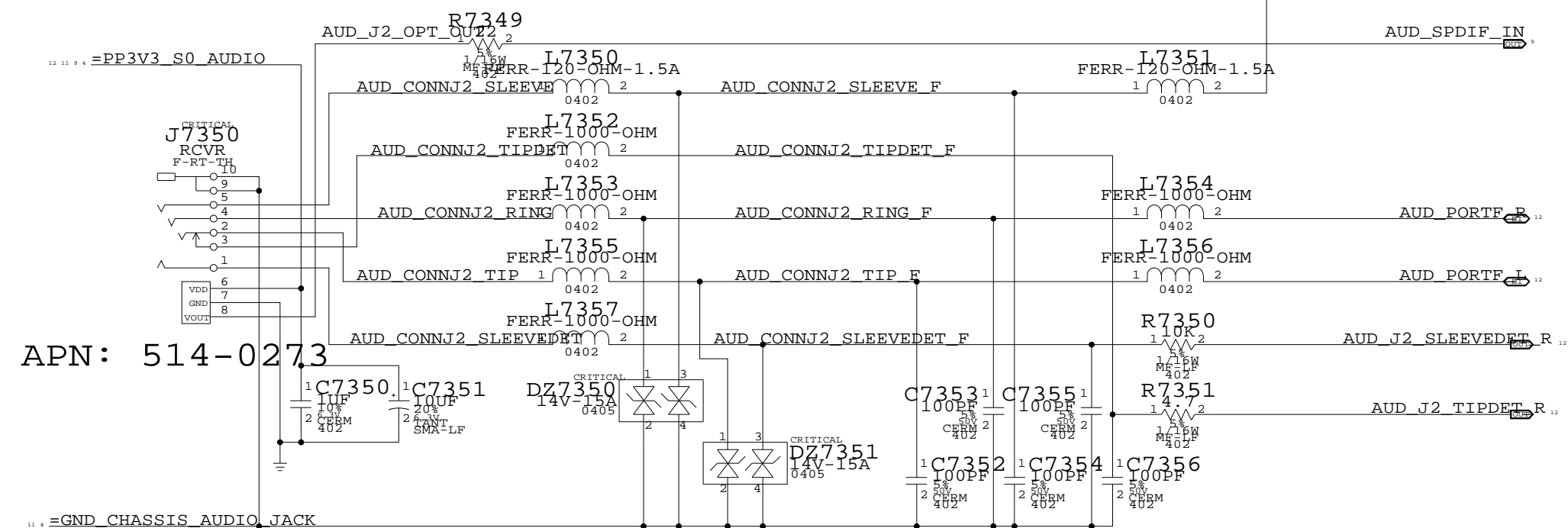


APN: 514-0272

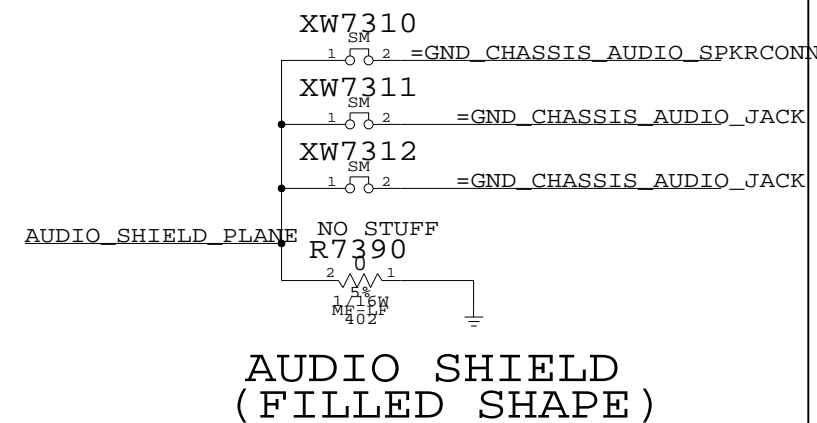
SPEAKER/MIC CONNECTOR APN: 518-0216



AUDIO JACK 2/DEFAULT LINE IN CONNECTOR, SPDIF RX



APN: 514-0273



AUDIO SHIELD (FILLED SHAPE)

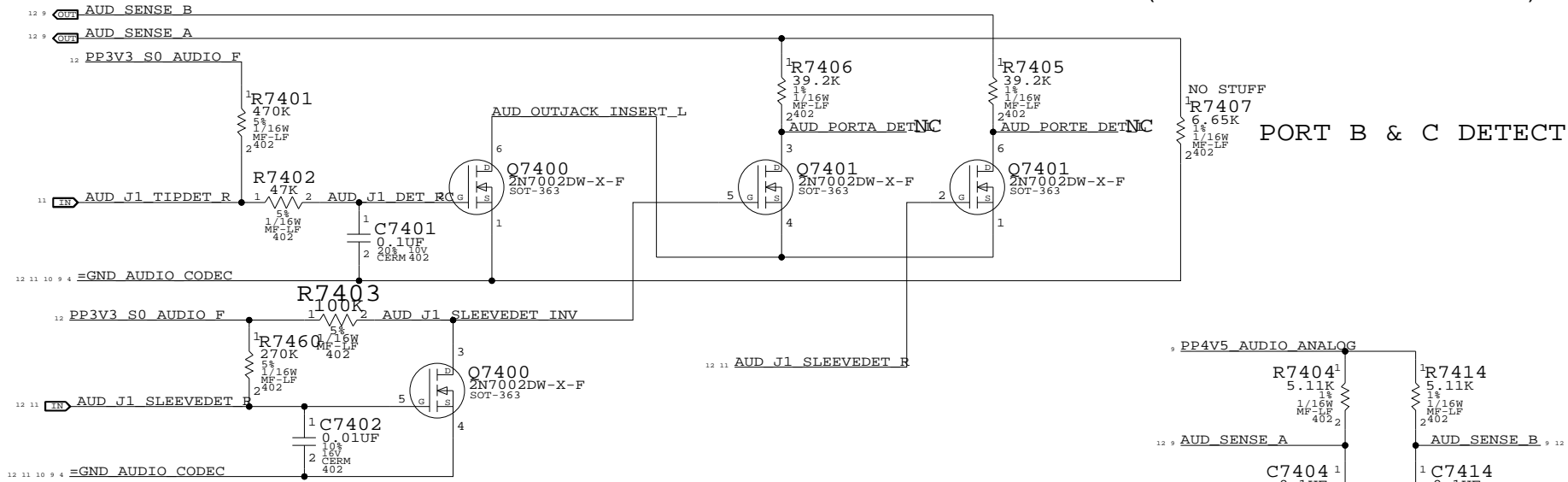
AUDIO: CONNECTORS

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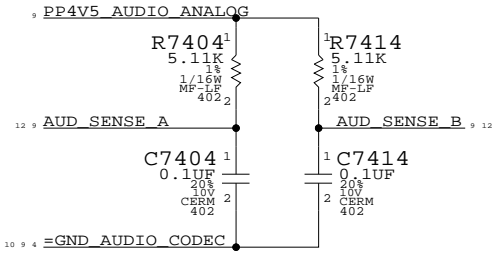
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SCALE	SHT	OF	
NONE	11	18	

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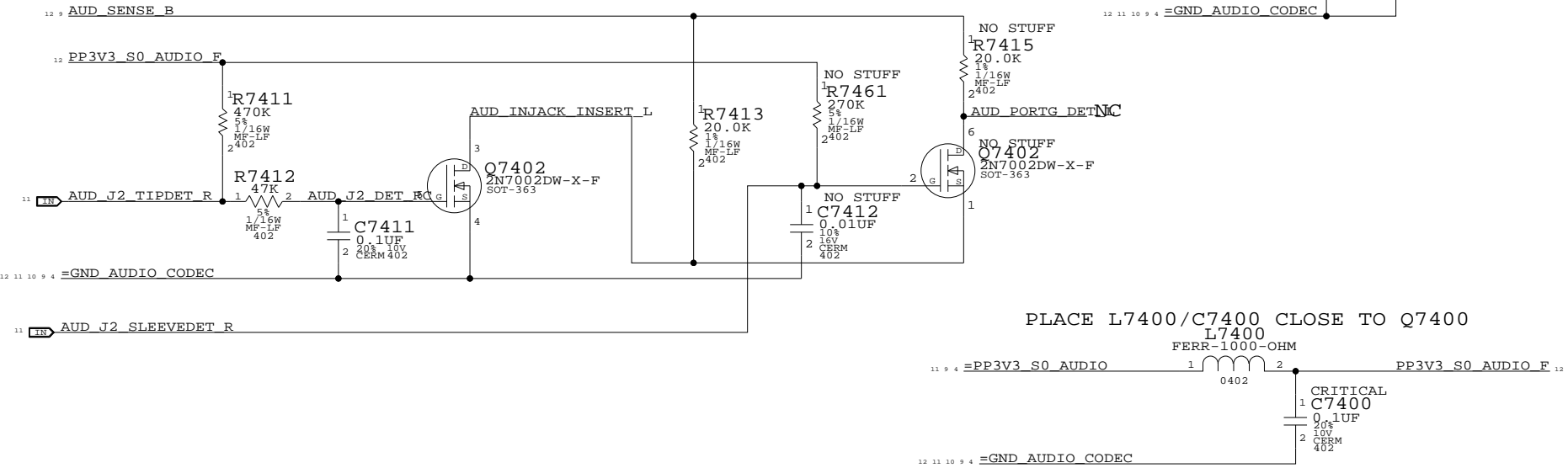
PORT A DETECT PORT E DETECT (E TELLS H TO TURN ON)



PORT B & C DETECT



PORT F DETECT PORT G DETECT

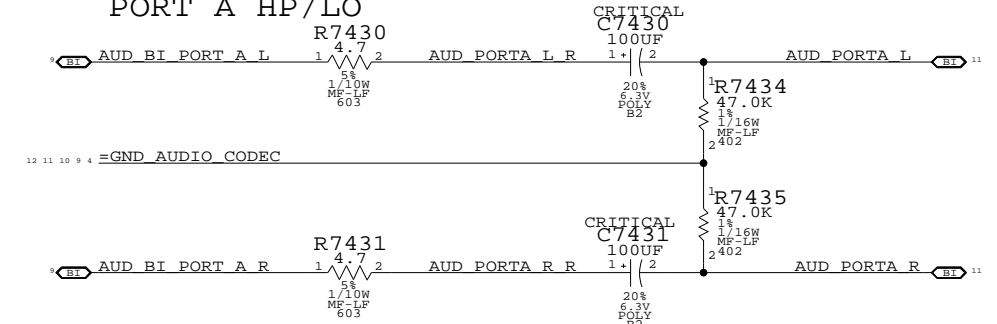


PLACE L7400/C7400 CLOSE TO Q7400

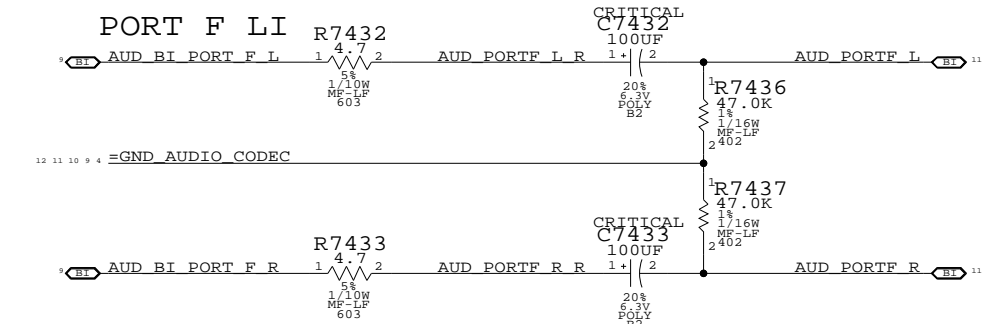
CODEC PORT ASSIGNMENTS

- PORT A : HEADPHONE/LINE OUT
- PORT B : MICROPHONE ON BOTH CH
- PORT C : SPEAKER AMP
- PORT D : UNUSED
- PORT E : SW USES TO TRIGGER DIGITAL OUT
- PORT F : LINE IN
- CD INPUT : UNUSED

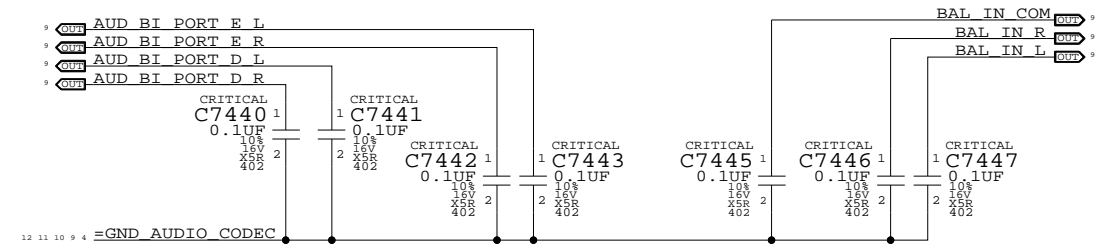
PORT A HP/LO



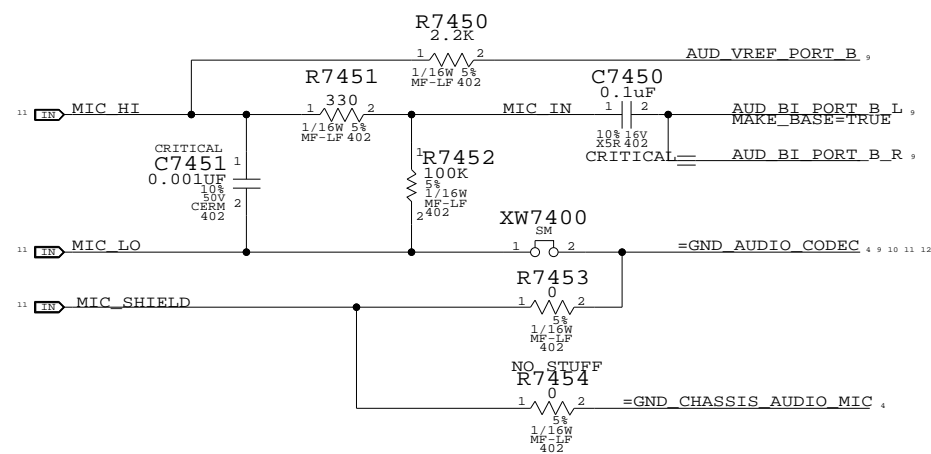
PORT F LI



UNUSED CODEC ANALOG PORT TERMINATIONS



MIC INPUT CIRCUITRY



AUDIO: JACK TRANSLATORS

SYNC_MASTER=M1_AUDIO_REF SYNC_DATE=10/04/2005

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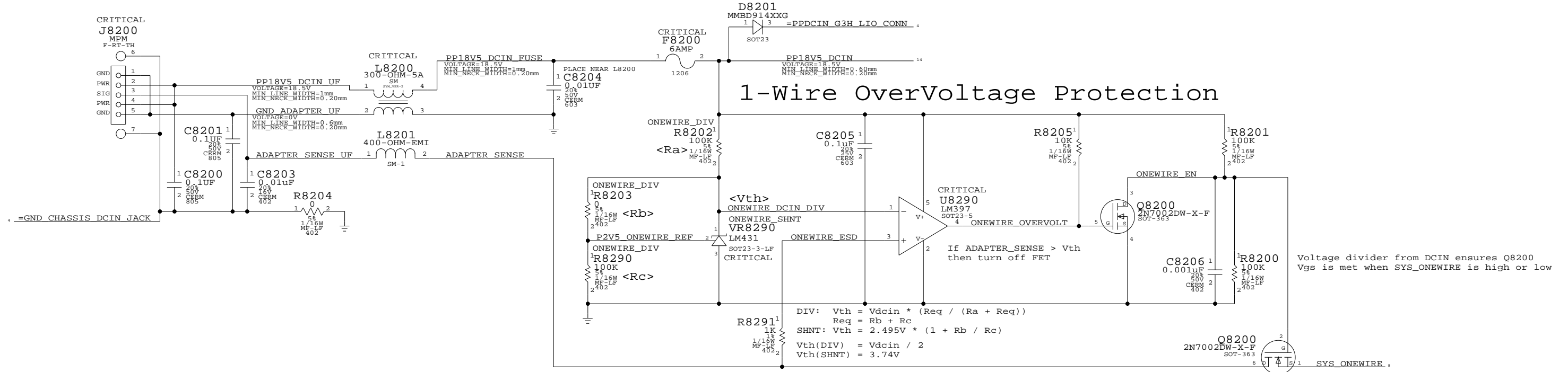
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	D	051-6951	03003
SCALE	NONE	SHT	12 OF 18

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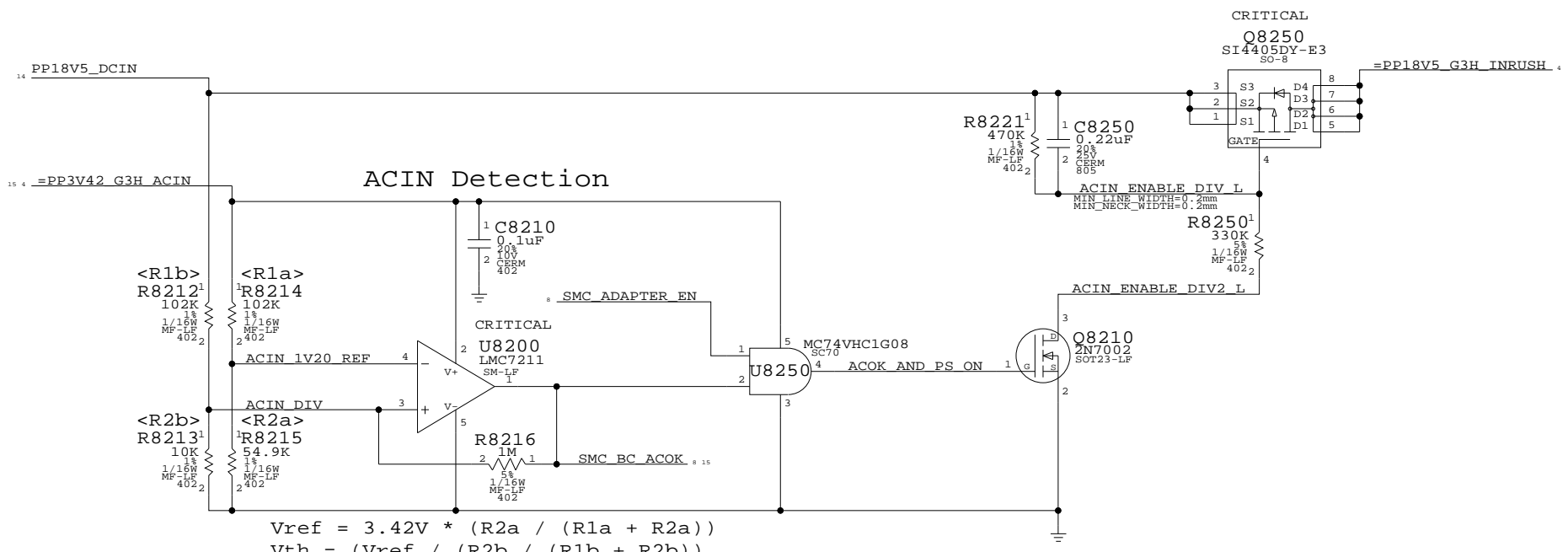
DC Power Jack



PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
116S0085	1	RES, 6.2K, 5%, 1/16W, 0402, LF	R8202		ONEWIRE_SHNT
114S0315	1	RES, 10K, 1%, 1/16W, 0402, LF	R8203		ONEWIRE_SHNT
114S0343	1	RES, 20K, 1%, 1/16W, 0402, LF	R8290		ONEWIRE_SHNT

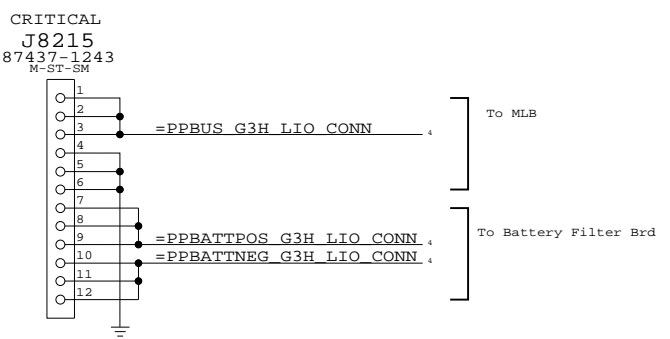
ONEWIRE_SHNT BOM option allows the use of an adjustable shunt voltage regulator to provide the reference to the LM397 comparator. This allows the protection circuit to enforce a ~3.7V max signal on ADAPTER_SENSE instead of the voltage divider DCIN/2 approach.
R8202 value ensures 1mA current for DCIN >= 13.4V per LM431 spec.

Inrush Limiter



$V_{ref} = 3.42V * (R2a / (R1a + R2a))$
 $V_{th} = (V_{ref} / (R2b / (R1b + R2b)))$
 $V_{ref} = 1.20V$
 $V_{th} = 13.4V$

Left I/O Power Connector



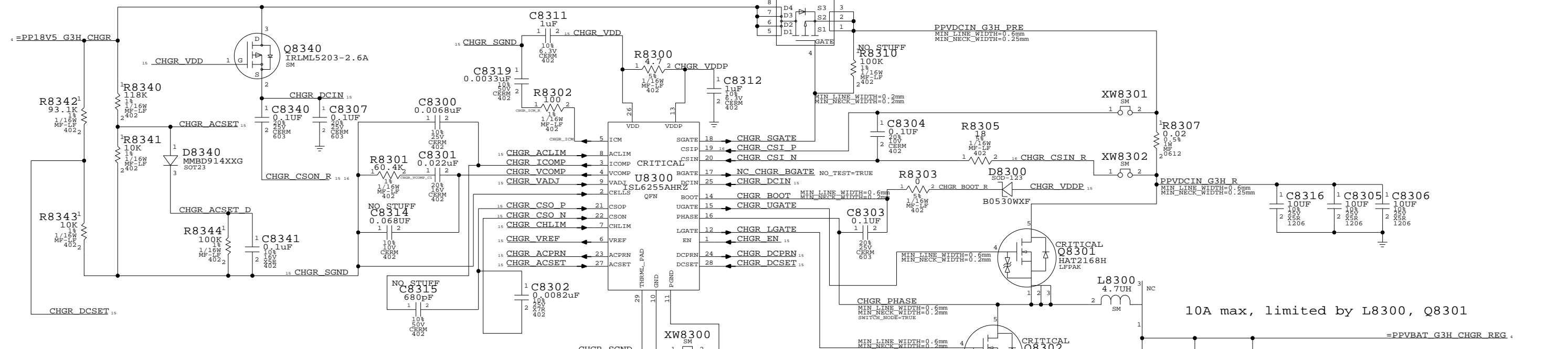
DC-In & Battery Connectors
 SYNC_MASTER=(Master) SYNC_DATE=(Master)
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SIZE	DRAWING NUMBER	REV.
D	051-6951	03003
SCALE	SHT	OF
NONE	14	18

PBUS SUPPLY

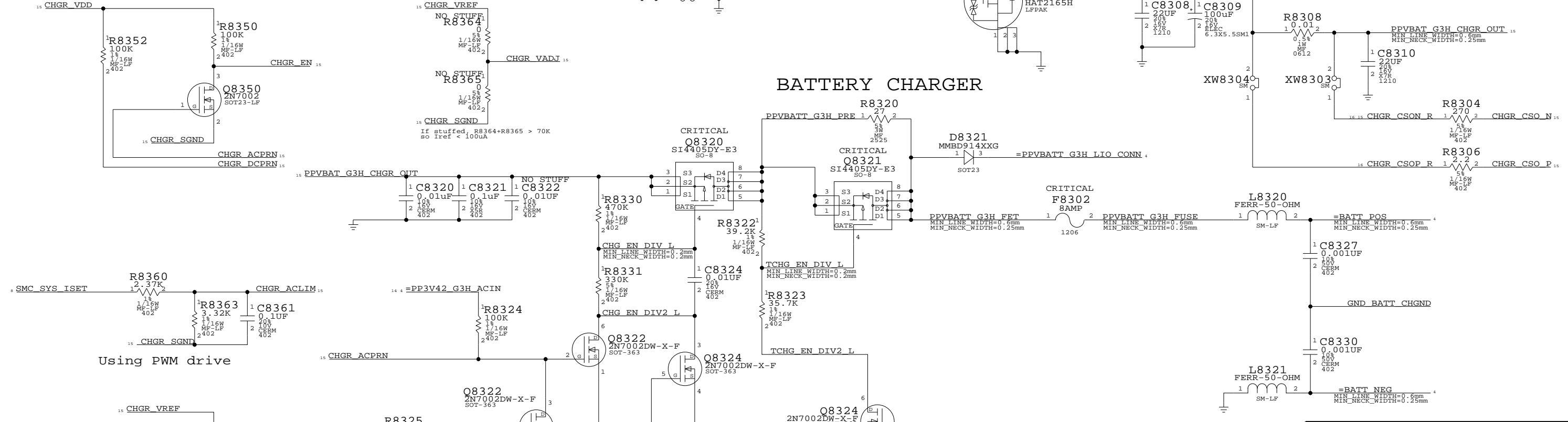
CRITICAL
Q8300
SI4405DY-E3
SO-8



BATTERY CHARGER

CRITICAL
Q8320
SI4405DY-E3
SO-8

CRITICAL
Q8321
SI4405DY-E3
SO-8



Using PWM drive

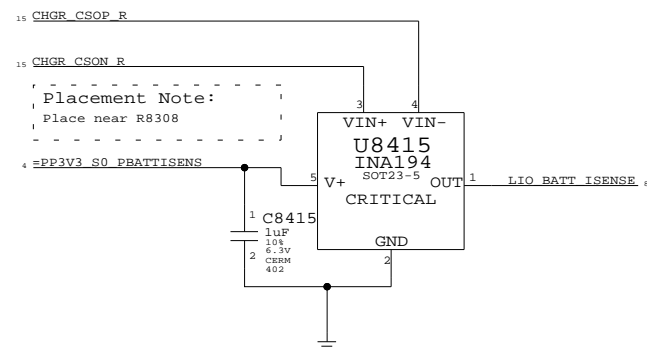
Using PWM drive

PBus Supply & Batt. Charger
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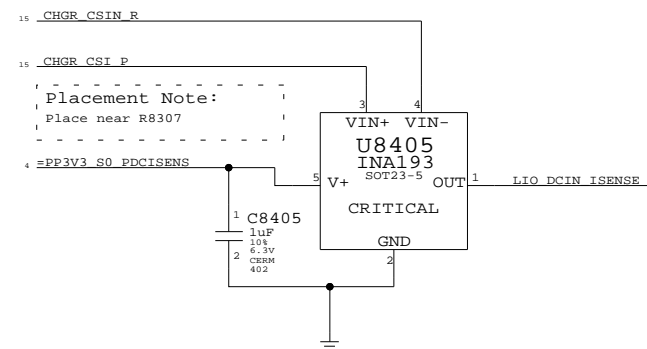
APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
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SCALE	SHT	OF	
NONE	15	18	

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Battery Current Sense

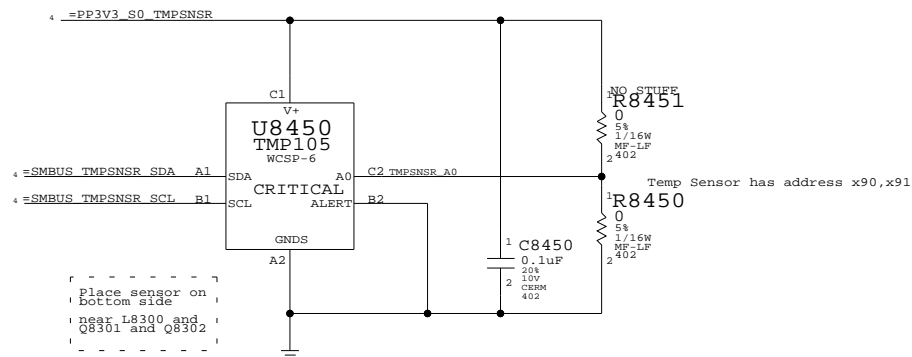


DCIn Current Sense



TMP105 Thermal Sensor

TMP105 will change to TMP106 for DVT



Current & Thermal Sensors

SYNC_MASTER=(Master) SYNC_DATE=(Master)

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SCALE	SHT	OF	
NONE	16	18	

	8	7	6	5	4	3	2	1
	Title: Cref Part Report Design: buzz Date: Oct 9 1:38:13 2005							
D	CS100 CAP_603 buzz[5C6] CS101 CAP_402 buzz[5C7] CS102 CAP_603 buzz[5C5] CS103 CAP_P_B2 buzz[5C5] CS150 CAP_402 buzz[5C3] CS151 CAP_402 buzz[5B3] CS300 CAP_402 buzz[6C4] CS301 CAP_402 buzz[6C4] CS302 CAP_402 buzz[6C4] CS303 CAP_603 buzz[6C4] CS304 CAP_603 buzz[6C4] CS305 CAP_603 buzz[6C4] CS330 CAP_603 buzz[6C7] CS331 CAP_603 buzz[6C7] CS334 CAP_402 buzz[6C8] CS335 CAP_603 buzz[6C7] CS350 CAP_402 buzz[6A7] CS351 CAP_402 buzz[6A5] CS360 CAP_402 buzz[6A3] CS400 CAP_402 buzz[7C3] CS401 CAP_603 buzz[7C3] CS410 CAP_402 buzz[7C3] CS411 CAP_603 buzz[7C3] CS420 CAP_402 buzz[7C3] CS421 CAP_603 buzz[7C3] C6800 CAP_603 buzz[9D6] C6801 CAP_402 buzz[9D6] C6802 CAP_P_B2 buzz[9D4] C6803 CAP_P_B2 buzz[9D3] C6804 CAP_P_SMA-LF buzz[9B4] C6805 CAP_805 buzz[9B4] C6806 CAP_805 buzz[9B3] C6807 CAP_P_SMA-LF buzz[9B3] C6808 CAP_402 buzz[9B3] C6809 CAP_402 buzz[9B2] C6810 CAP_P_SMA-LF buzz[9B2] C6811 CAP_402 buzz[9B2] C6812 CAP_402 buzz[9B4] C6813 CAP_402 buzz[9B3] C6821 CAP_402 buzz[9C6] C6822 CAP_603 buzz[9A3] C6823 CAP_402 buzz[9B3] C6825 CAP_402 buzz[9B2] C6826 CAP_603 buzz[9A1] C6829 CAP_402 buzz[9B3] C6830 CAP_402 buzz[9D4] C6832 CAP_402 buzz[9B2] C6833 CAP_402 buzz[9B2] C6834 CAP_402 buzz[9B2] C6835 CAP_402 buzz[9D6] C6836 CAP_402 buzz[9D3] C6850 CAP_402 buzz[9B6] C6851 CAP_402 buzz[9A5] C6852 CAP_402 buzz[9B5] C6853 CAP_402 buzz[9B4] C7200 CAP_402 buzz[10C4] C7201 CAP_P_B2 buzz[10D2] C7202 CAP_603 buzz[10D2] C7203 CAP_603 buzz[10D3] C7204 CAP_402 buzz[10C4] C7205 CAP_402 buzz[10D3] C7206 CAP_402 buzz[10D2] C7207 CAP_402 buzz[10C4] C7250 CAP_402 buzz[10C6] C7251 CAP_402 buzz[10C6] C7260 CAP_402 buzz[10B6] C7261 CAP_402 buzz[10A6] C7270 CAP_402 buzz[10A3] C7271 CAP_402 buzz[10B3] C7300 CAP_402 buzz[11C7] C7301 CAP_402 buzz[11C5] C7302 CAP_402 buzz[11C5] C7303 CAP_402 buzz[11C5] C7304 CAP_402 buzz[11C5] C7305 CAP_402 buzz[11C5] C7350 CAP_402 buzz[11A7] C7351 CAP_P_SMA-LF buzz[11A7] C7352 CAP_402 buzz[11A5] C7353 CAP_402 buzz[11A5] C7354 CAP_402 buzz[11A5] C7355 CAP_402 buzz[11A5] C7356 CAP_402 buzz[11A5] C7400 CAP_402 buzz[12B4] C7401 CAP_402 buzz[12D7] C7402 CAP_402 buzz[12C7] C7404 CAP_402 buzz[12C4] C7411 CAP_402 buzz[12B7] C7412 CAP_402 buzz[12B6] C7414 CAP_402 buzz[12C4] C7430 CAP_P_B2 buzz[12D2] C7431 CAP_P_B2 buzz[12C2] C7432 CAP_P_B2 buzz[12C2] C7433 CAP_P_B2 buzz[12B2] C7440 CAP_402 buzz[12B3] C7441 CAP_402 buzz[12B3] C7442 CAP_402 buzz[12A2] C7443 CAP_402 buzz[12A2] C7445 CAP_402 buzz[12A2] C7446 CAP_402 buzz[12A1] C7447 CAP_402 buzz[12A1] C7450 CAP_402 buzz[12A6] C7451 CAP_402 buzz[12A7] C7800 CAP_603 buzz[13C6] C7801 CAP_603 buzz[13C6] C7802 CAP_603 buzz[13C6] C7806 CAP_402 buzz[13B8] C7807 CAP_402 buzz[13B6] C7808 CAP_402 buzz[13B7] C7809 CAP_402 buzz[13C4] C7822 CAP_402 buzz[13B4] C7830 CAP_1210 buzz[13C3] C7840 CAP_805 buzz[13B2] C7841 CAP_P_SMC-LF buzz[13B2] C7842 CAP_805 buzz[13B2] C7843 CAP_402 buzz[13B2] C7890 CAP_402 buzz[13C1] C8200 CAP_805 buzz[14D7] C8201 CAP_805 buzz[14D7] C8203 CAP_402 buzz[14D7]	C8204 CAP_603 buzz[14D6] 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D8300 DIODE_SCHOT_SOD-123 buzz[15C3] D8321 DIODE_SOT23 buzz[15B4] D8340 DIODE_SOT23 buzz[15C7] D27300 SUPPR_TRANSIENT_4P1_ buzz[11C6] 0405 D27301 SUPPR_TRANSIENT_4P1_ buzz[11C6] 0405 D27350 SUPPR_TRANSIENT_4P1_ buzz[11A6] 0405 D27351 SUPPR_TRANSIENT_4P1_ buzz[11A6] 0405 F8200 FUSE_1206 buzz[14D5] F8302 FUSE_1206 buzz[15B3] J5100 CON_F4RT_USB_S2MT_TH buzz[5C2] _F-RT-TH-USB-LFT J5300 CON_F26RT_S2MT_SM_F- buzz[6D2] RT-SM J5400 CON_F52RT_D2MT_SM_F- buzz[7C5] ST-SM J5500 CON_F80BT_D4MT_SM_F- buzz[8C4] ST-SM J7300 CON_F8RT_SPDIFTRAN_T buzz[11D8] H2_F-RT-TH J7350 CON_F8RT_SPDIFRCVR_T buzz[11B8] H2_F-RT-TH J7380 CON_MBST_S_TH_M-ST-T buzz[11C1] H J8200 CON_F5RT_S2MT_TH3_F- buzz[14D8] RT-TH J8215 CON_M12ST_S_SM_M-ST- buzz[14B2] SM L5100 FILTER_4P_SM buzz[5C4] L5101 IND_SM buzz[5C4] L5150 IND_SM buzz[5B4] L6800 IND_0402 buzz[9B4] L6801 IND_0402 buzz[9B6] L7200 IND_0402 buzz[10D6] L7201 IND_0402 buzz[10C6] L7250 IND_0402 buzz[10C6] L7251 IND_0402 buzz[10C6] L7260 IND_0603 buzz[10B6] L7261 IND_0603 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TRA_2N7002DW_SOT-363 buzz[14C2 14C3] Q8210 TRA_2N7002_SOT23-LF buzz[14A5] Q8250 TRA_SI4405DY_SO-8 buzz[14B4] Q8300 TRA_SI4405DY_SO-8 buzz[15D4] Q8301 TRA_HAT2165H_LFFAK buzz[15C3] Q8302 TRA_HAT2165H_LFFAK buzz[15C3] Q8320 TRA_SI4405DY_SO-8 buzz[15B5]	Q8321 TRA_SI4405DY_SO-8 buzz[15B4] Q8322 TRA_2N7002DW_SOT-363 buzz[15A5 15A6] Q8324 TRA_2N7002DW_SOT-363 buzz[15A4 15A5] Q8340 TRA_IRLML5203_SM buzz[15D7] Q8350 TRA_2N7002_SOT23-LF buzz[15B7] R0600 RES_402 buzz[4A5] R0601 RES_402 buzz[4A5] R5300 RES_402 buzz[6C6] R5301 RES_402 buzz[6C5] R5352 RES_402 buzz[6A6] R5353 RES_402 buzz[6B5] R5354 RES_402 buzz[6B5] R5360 RES_402 buzz[6B3] R5361 RES_402 buzz[6B3] R6800 RES_402 buzz[9C6] R6801 RES_402 buzz[9B5] R6802 RES_402 buzz[9B4] R6803 RES_402 buzz[9A9] R6807 RES_402 buzz[9D7] R6808 RES_402 buzz[9D3] R6810 RES_402 buzz[9B2] R6811 RES_402 buzz[9A2] R6812 RES_603 buzz[9B2] R6850 RES_402 buzz[9B7] R6851 RES_402 buzz[9B7] R6852 RES_402 buzz[9B7] R6853 RES_402 buzz[9A7] R6854 RES_402 buzz[9B4] R7200 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