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- 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
02		421247	ENGINEERING RELEASED	01/19/06?	



# SCHEM, SYMPHONY, M9

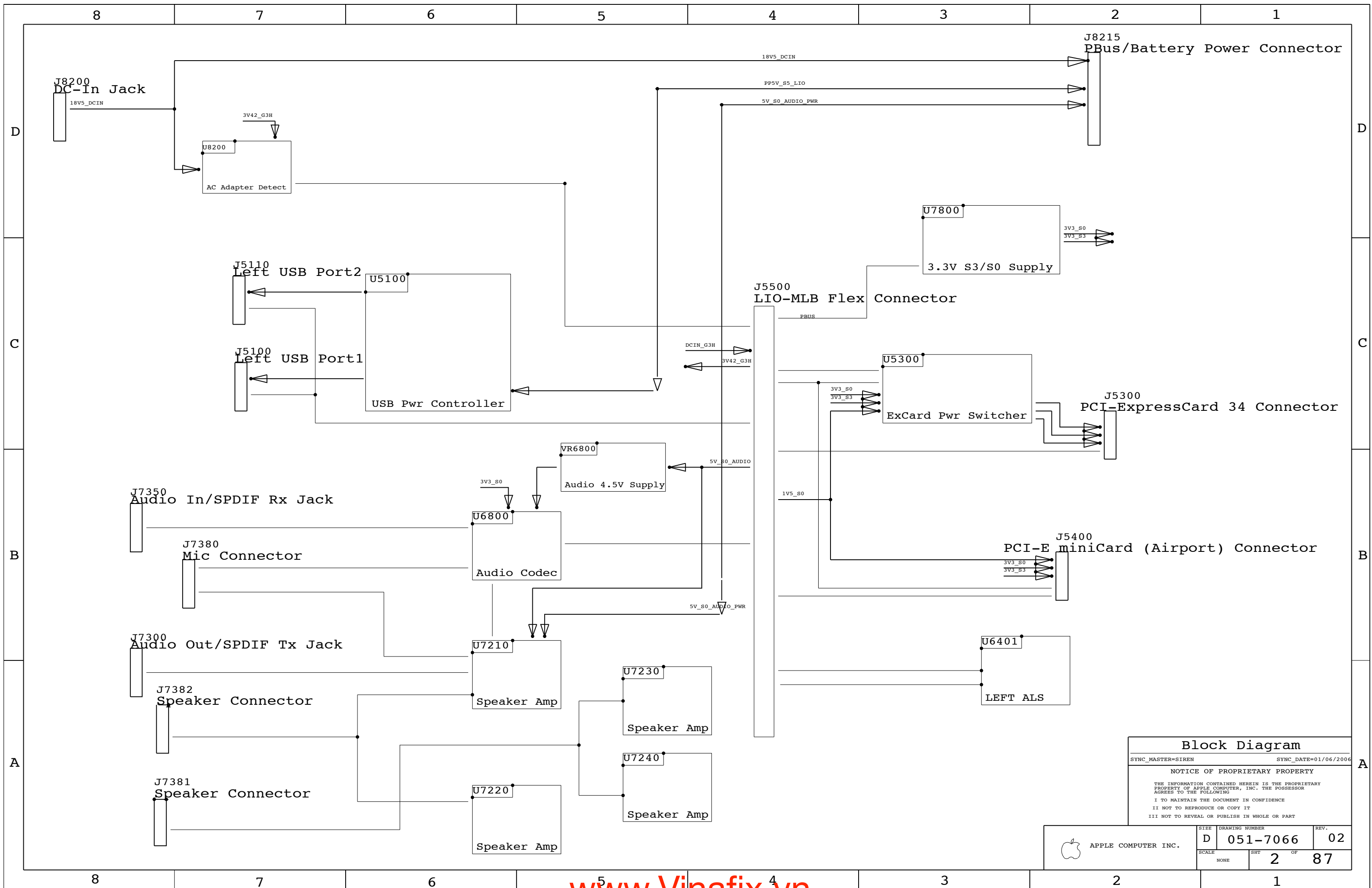
## EVT

### 1/19/06

PDF PAGE	CSA PAGE	CONTENTS	SYNC MASTER	DATE
1	1	Table of Contents	N/A	N/A
2	2	Block Diagram	SIREN	01/06/2006
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11	70	AUDIO: LINE IN	AUDIO_M9_PRO_LIO	01/06/2006
12	71	AUDIO: HEADPHONE AMP	AUDIO_M9_PRO_LIO	01/06/2006
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20	86	Cross Reference Page		
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PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
051-7066	1	SCHEM, SYMPHONY, NEW, M9	SCH1	
820-1970	1	PCBF, SYMPHONY, M9	PCB1	

DIMENSIONS ARE IN MILLIMETERS		<b>METRIC</b>		 Apple Computer Inc.	
XX : _____	_____	DRAPFER	DESIGN CK	<b>NOTICE OF PROPRIETARY PROPERTY</b> THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THE DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART	
X.XX : _____	_____	ENG APPD	MFG APPD		
X.XXX : _____	_____	QA APPD	DESIGNER		
ANGLES : _____	_____	RELEASE	SCALE		
DO NOT SCALE DRAWING		SCALE NONE		TITLE	
 THIRD ANGLE PROJECTION		MATERIAL/FINISH NOTED AS APPLICABLE		SIZE D	SCHEM, SYMPHONY, NEW, M9 DRAWING NUMBER <b>051-7066</b> REV. <b>02</b>
				SHT 1 OF 87	



**Block Diagram**

SYNC\_MASTER=SIREN      SYNC\_DATE=01/06/2006

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	D	051-7066	02
SCALE	SHT	OF	
NONE	2	87	

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1

BOM NUMBER	BOM NAME	BOM OPTIONS
630-7510	PCBA, SYMPHONY, NEW, M9	075-0199, 075-0200
075-0200	PROJ_PTS, SYMPHONY, NEW, M9	COMMON, EXCARD_3CNTL, ONEWIRE_DIV, ONEWIRE_PWRCTL
075-0199	LEMENU_PTS, SYMPHONY, NEW, M9	LEMENU

PHANTOM BOM #'S

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
075-0200	1	PROJ_PTS, SYMPHONY, M9	BOM1		075-0200
075-0199	1	LEMENU_PTS, SYMPHONY, M9	BOM2		075-0199

BAR CODE LABEL / EEE#'S

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
000-0041	1	PLACEHOLDER FOR EEE/CCC INFO	[EEE:V3P]	CRITICAL	

D

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C

C


B

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A

A

BOM CONFIGURATION	
SYNC_MASTER=(MASTER)	SYNC_DATE=(MASTER)
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	D	051-7066	02
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NONE	4	87	

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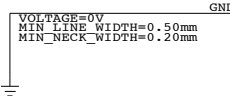
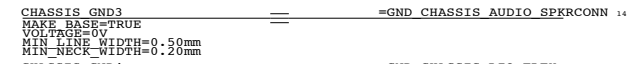
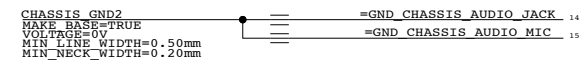
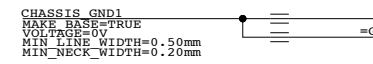
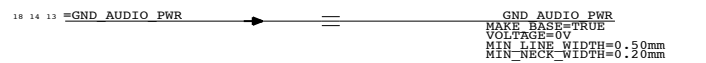
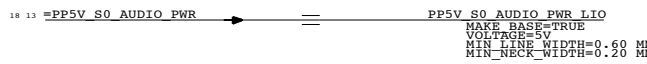
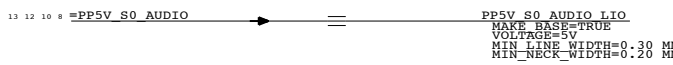
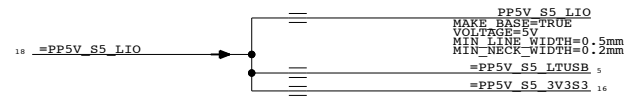
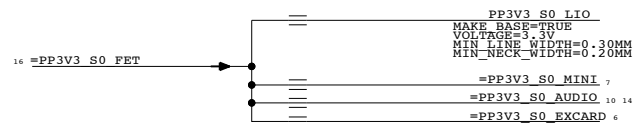
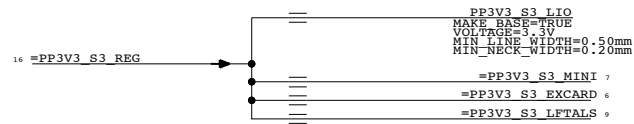
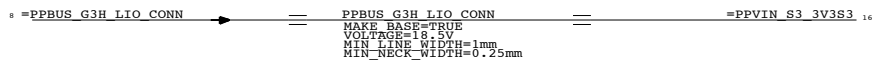
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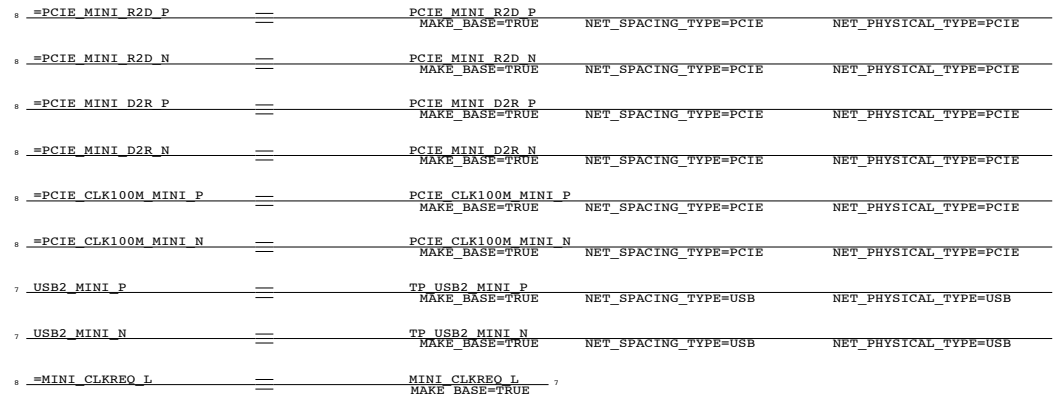
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POWER & GROUNDS

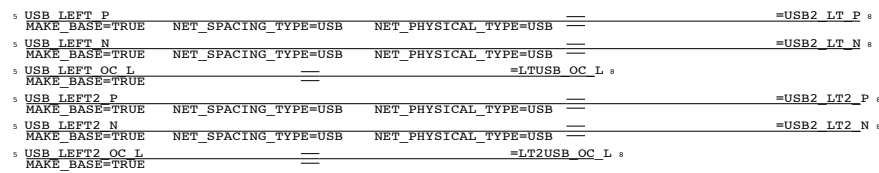
PCI-E EXPRESS CARD 34



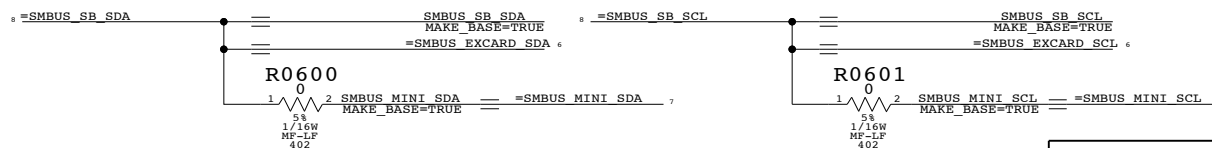
PCI-E MINICARD



USB



SMBUS



Aliases

SYNC\_MASTER=SIREN SYNC\_DATE=01/06/2006

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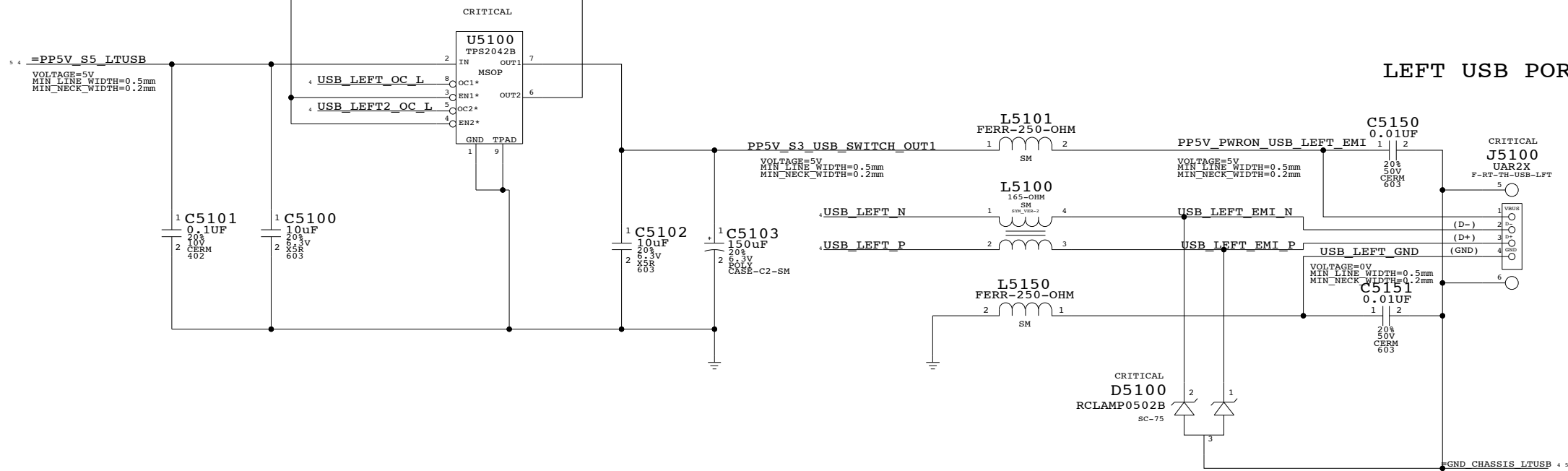
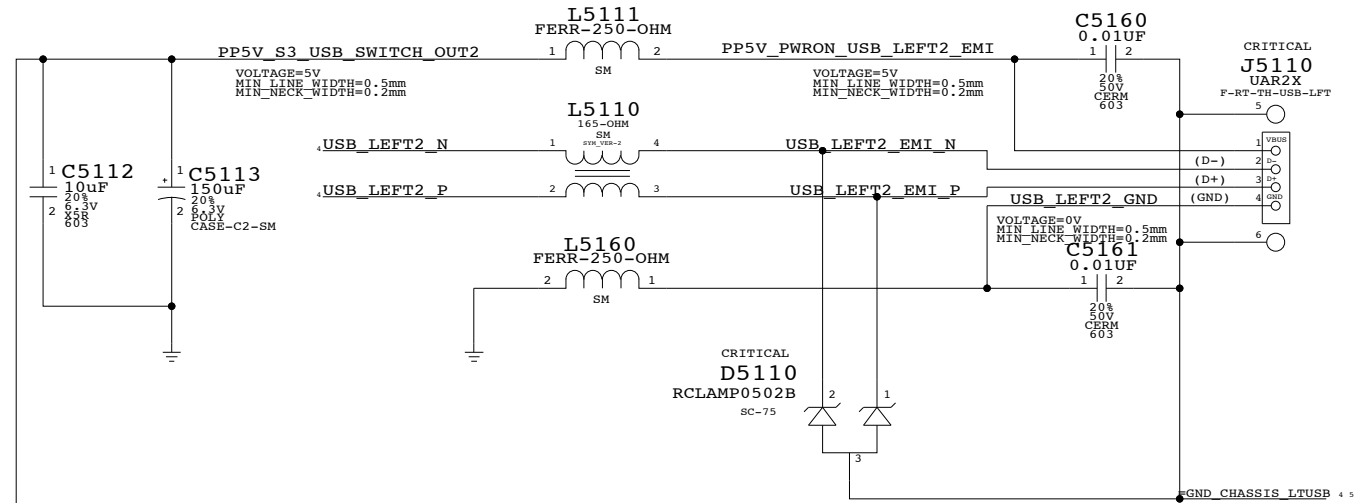
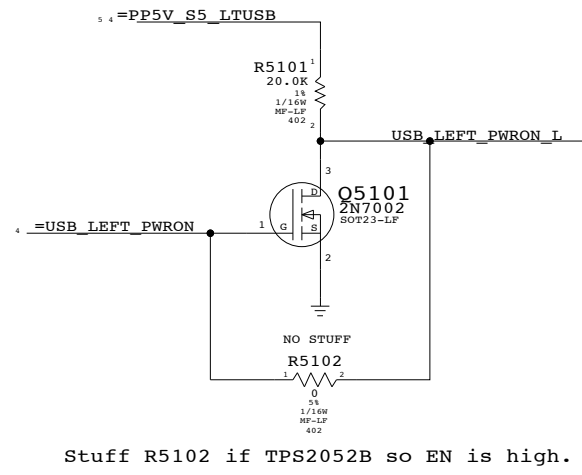
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	D	051-7066	02
SCALE	SHT	OF	
NONE	6	87	



**Left USB Port**

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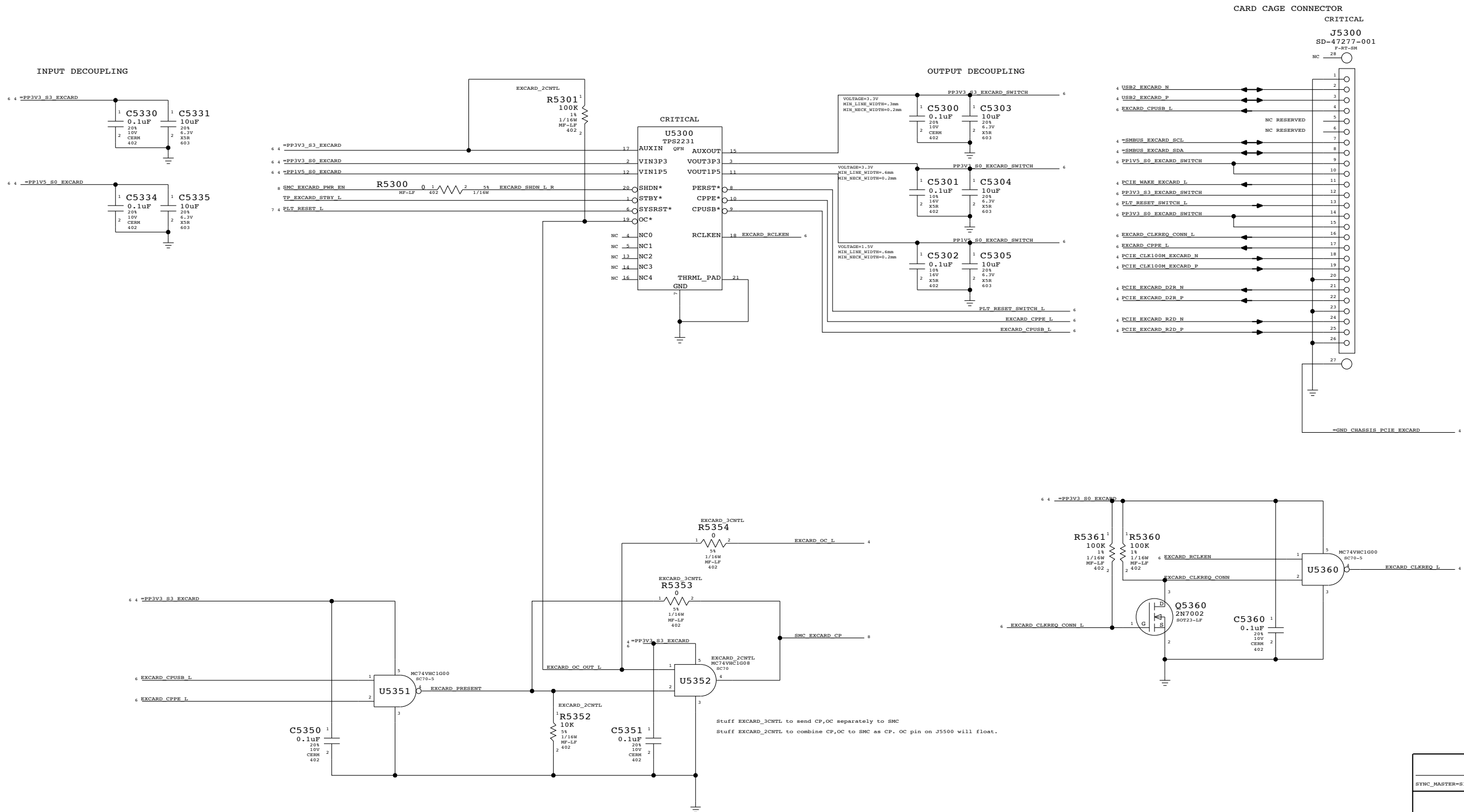
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
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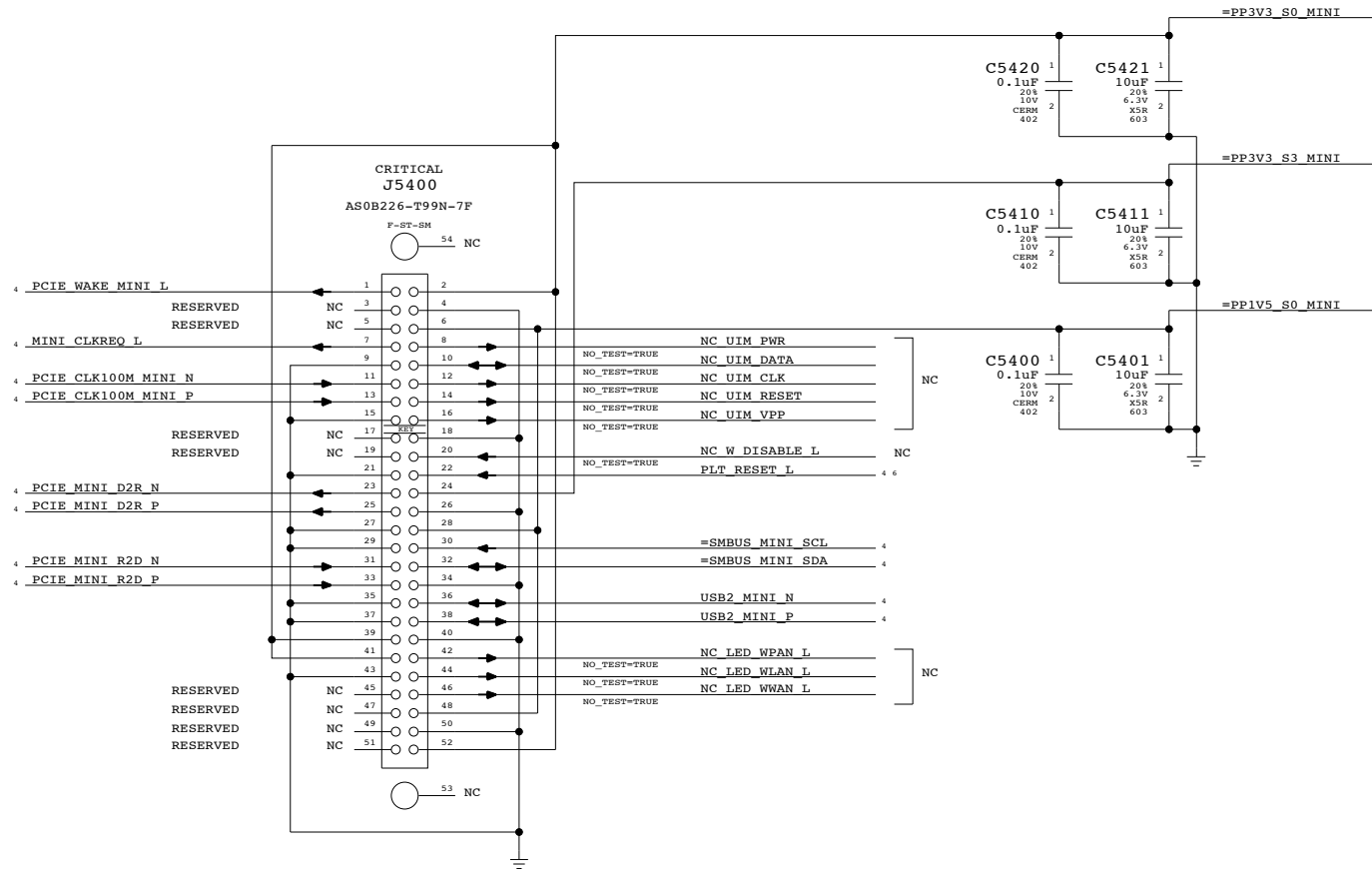
# PCI-EXPRESS CARD 34 TOP MOUNT CONNECTOR



ExpressCard Connector  
 SYNC\_MASTER=SIREN SYNC\_DATE=01/06/2006  
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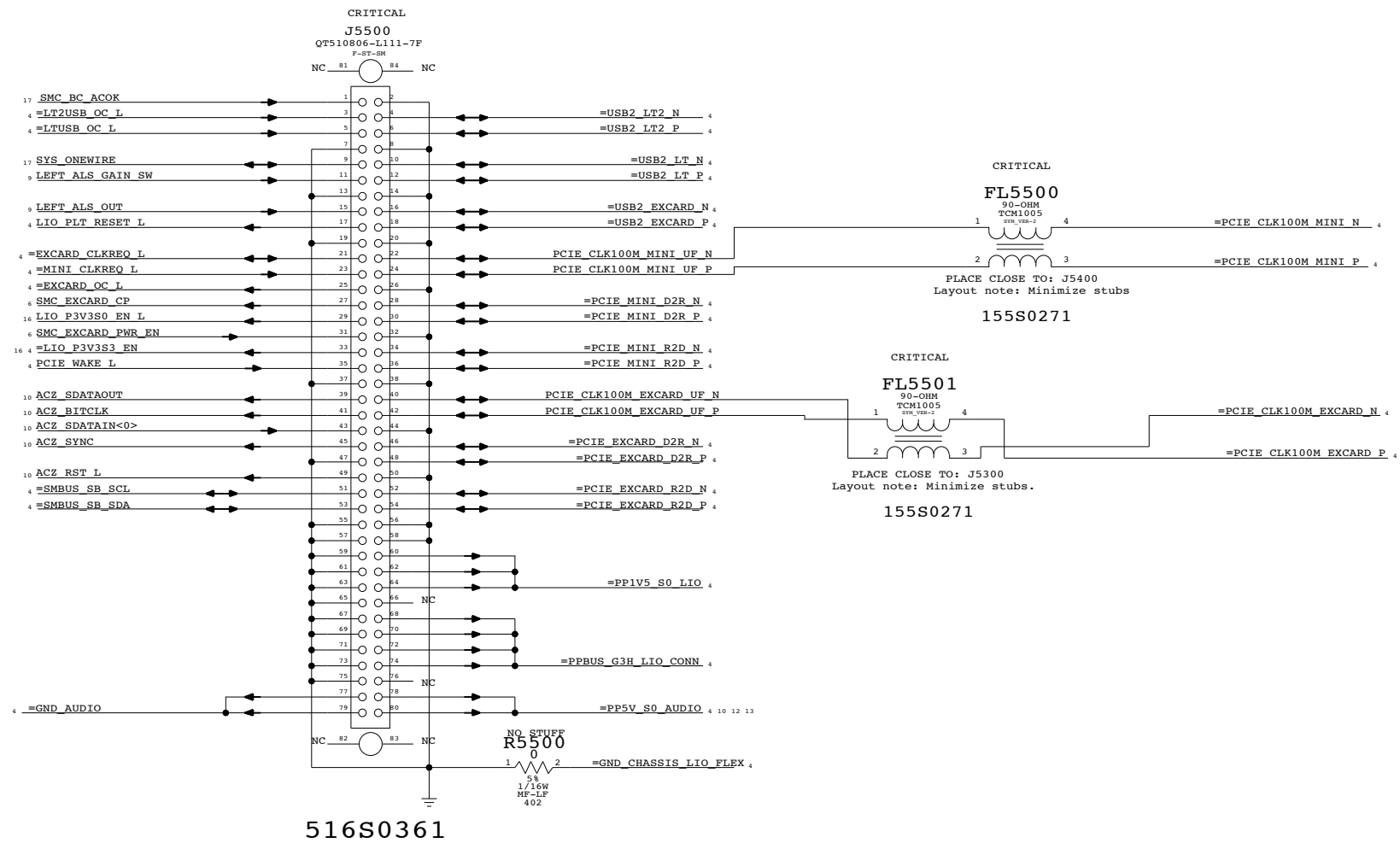
# PCI-EXPRESS MINI CARD CONNECTOR



PCI-E MiniCard Connector  
 SYNC\_MASTER=SIREN SYNC\_DATE=01/06/2006  
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SCALE	SHT		
NONE	54 OF		87

# Left I/O Board Connector



## MLB I/O Board Connector

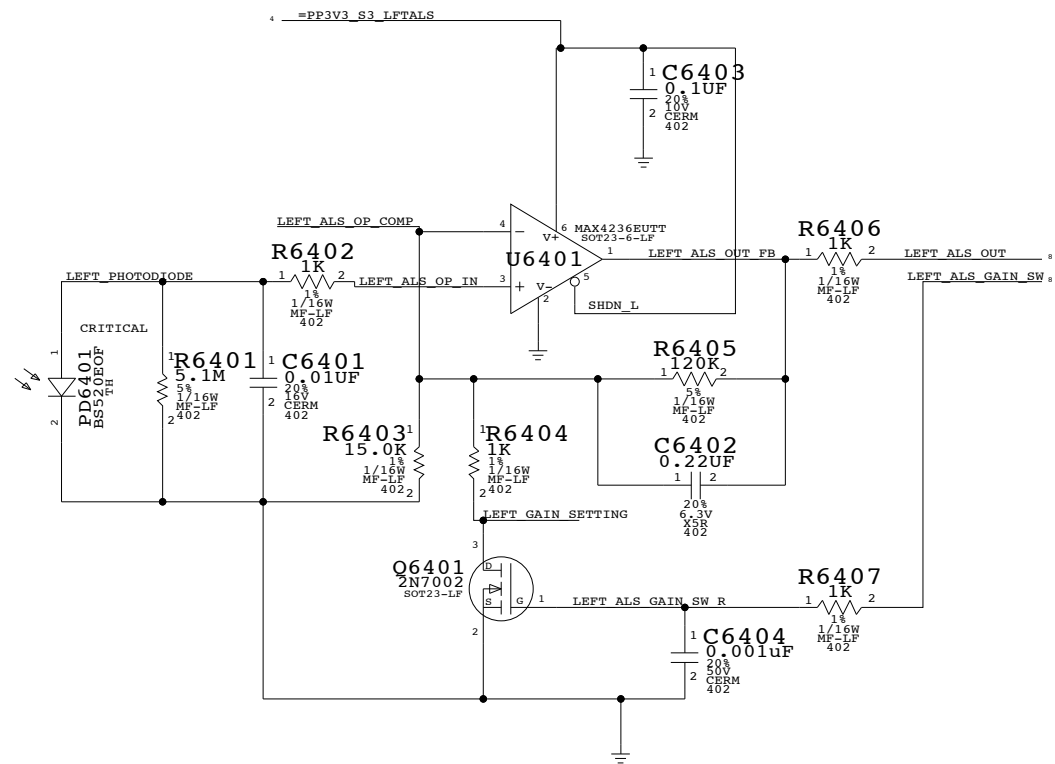
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
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SCALE	SHT		OF
NONE	55		87





**Left ALS**

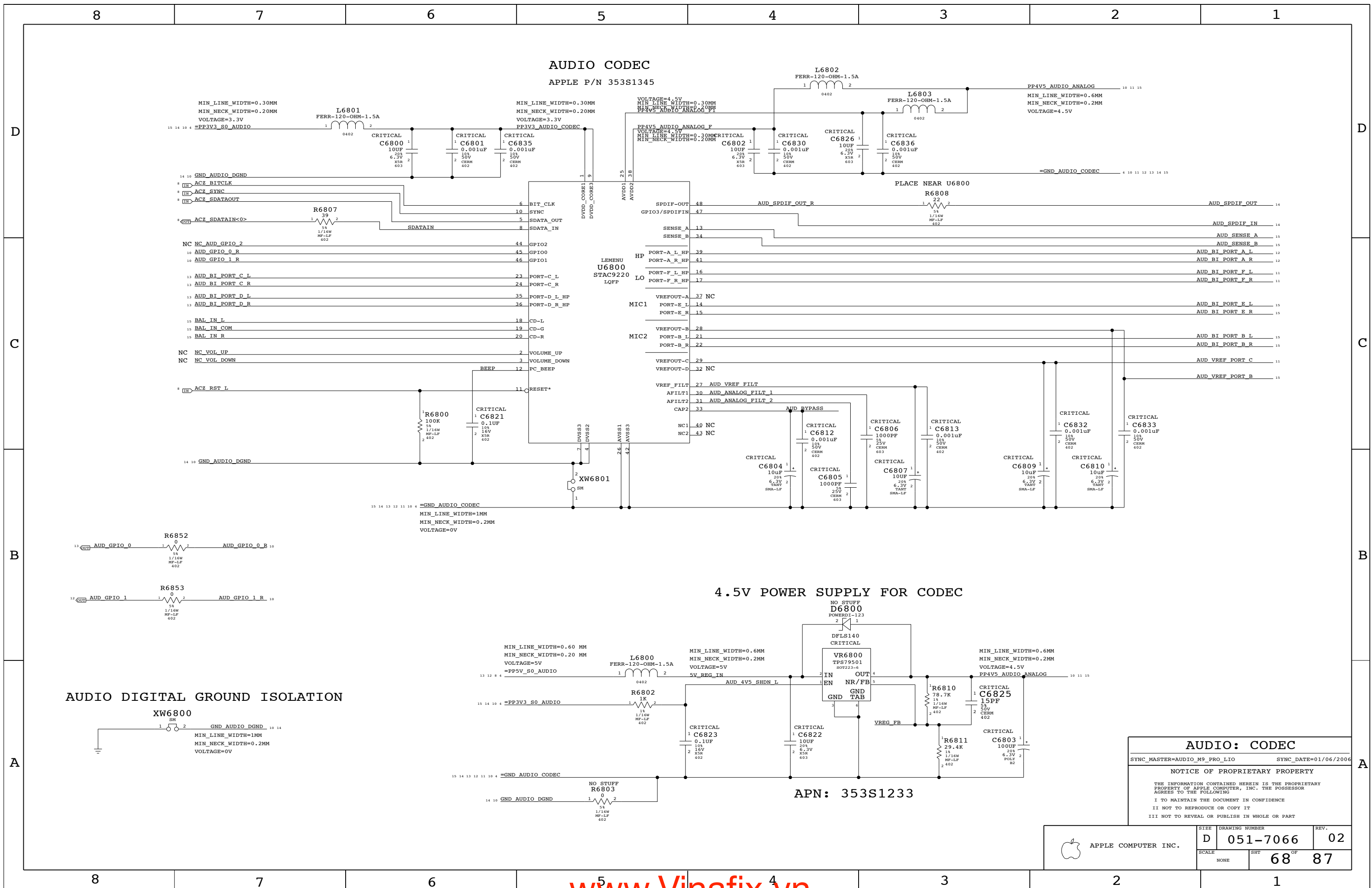
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	D	051-7066	02
SCALE	NONE	SHT	64 OF 87



**AUDIO CODEC**  
APPLE P/N 353S1345

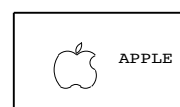
**4.5V POWER SUPPLY FOR CODEC**

**AUDIO DIGITAL GROUND ISOLATION**

**AUDIO: CODEC**

SYNC\_MASTER=AUDIO\_M9\_PRO\_LIO SYNC\_DATE=01/06/2006  
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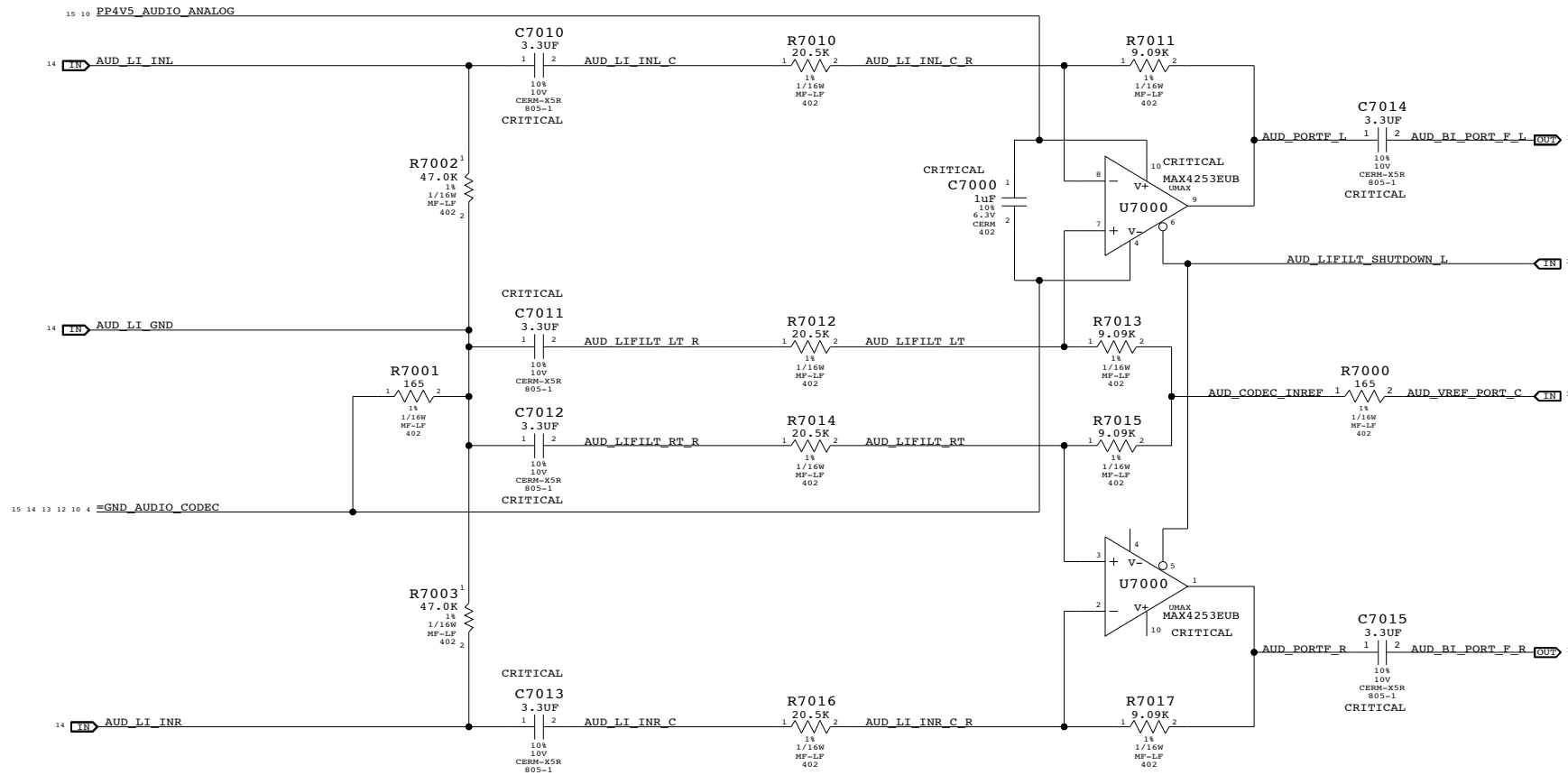
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SCALE	SHT	OF
NONE	68	87



APPLE COMPUTER INC.

APN: 353S1233

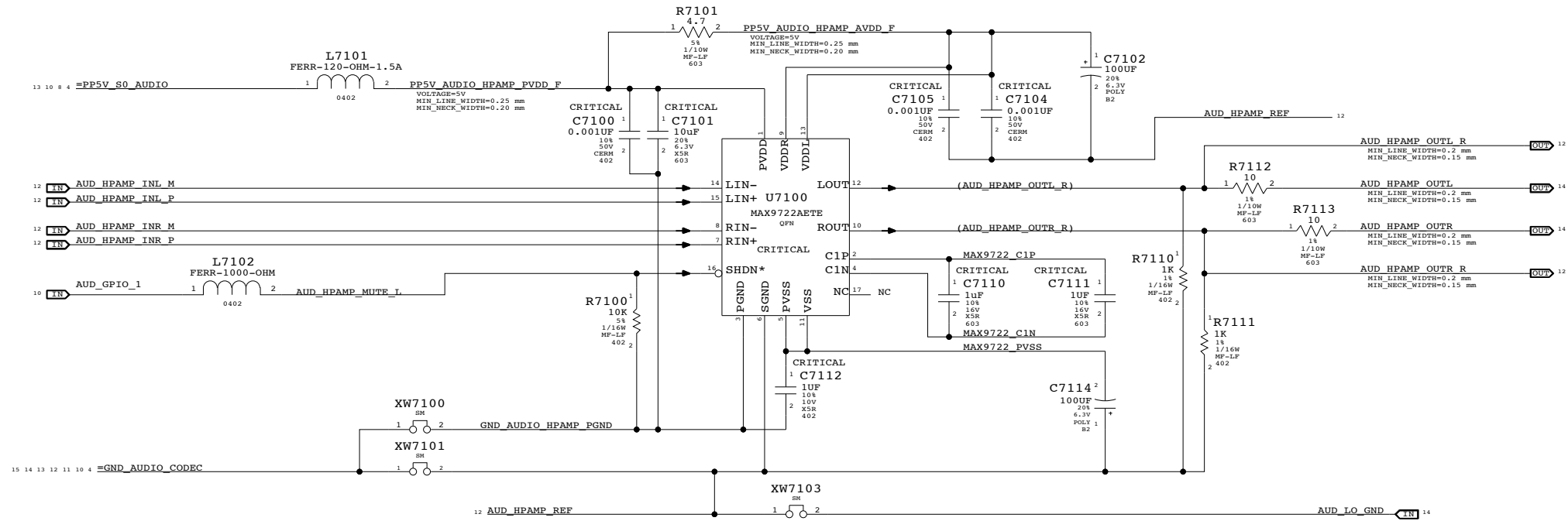
Pseudo-Diff Line-In Filter  
 GAIN = -7.1DB AV = 0.44  
 FC = 2.4 HZ



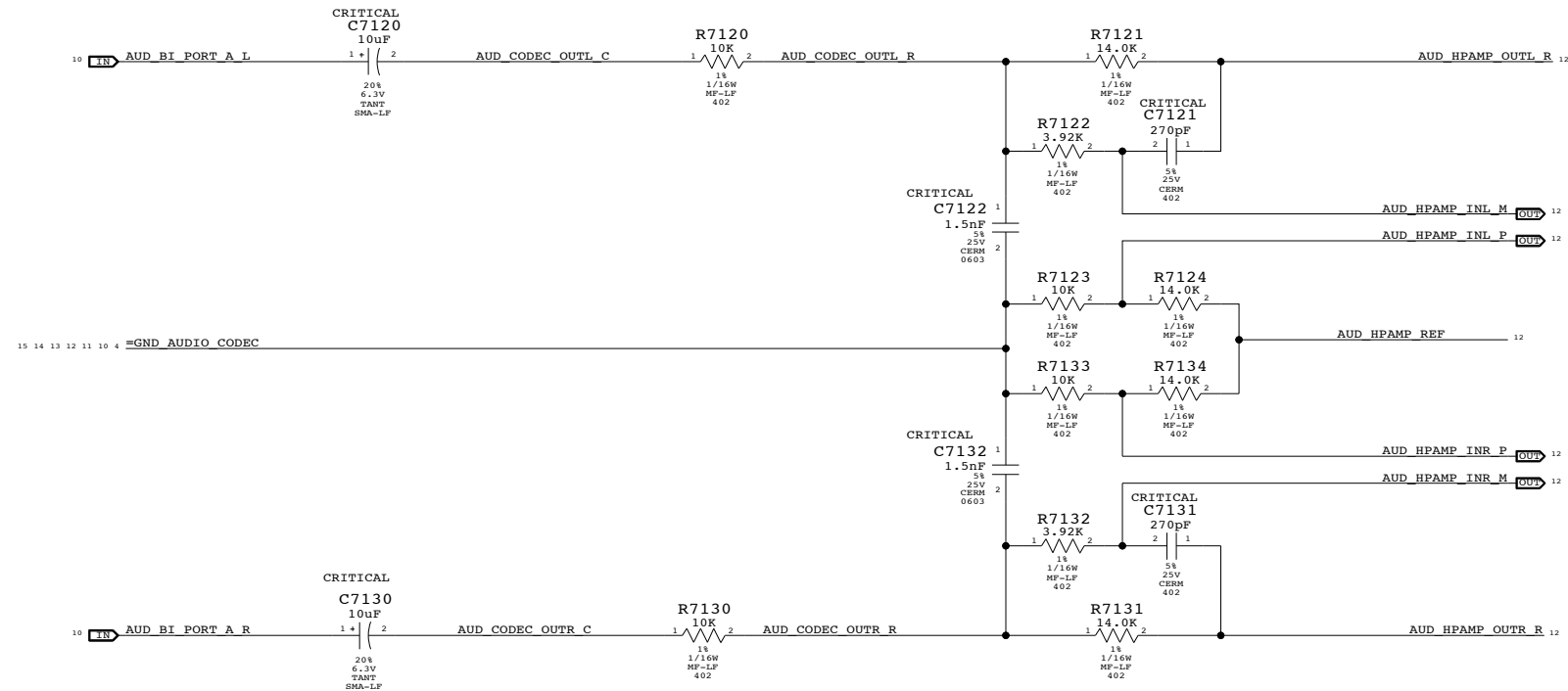
**AUDIO: LINE IN**  
 SYNC\_MASTER=AUDIO\_M9\_PRO\_LIO SYNC\_DATE=01/06/2006  
 NOTICE OF PROPRIETARY PROPERTY  
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	NONE	051-7066	02
SCALE		SHT	OF
NONE		70	87

Headphone Amplifier (MAX9722)  
 APN:353S0959  
 VOLTAGE GAIN:1.4



2nd Order DAC Filter  
 HP:1.6 HZ



AUDIO: HEADPHONE AMP

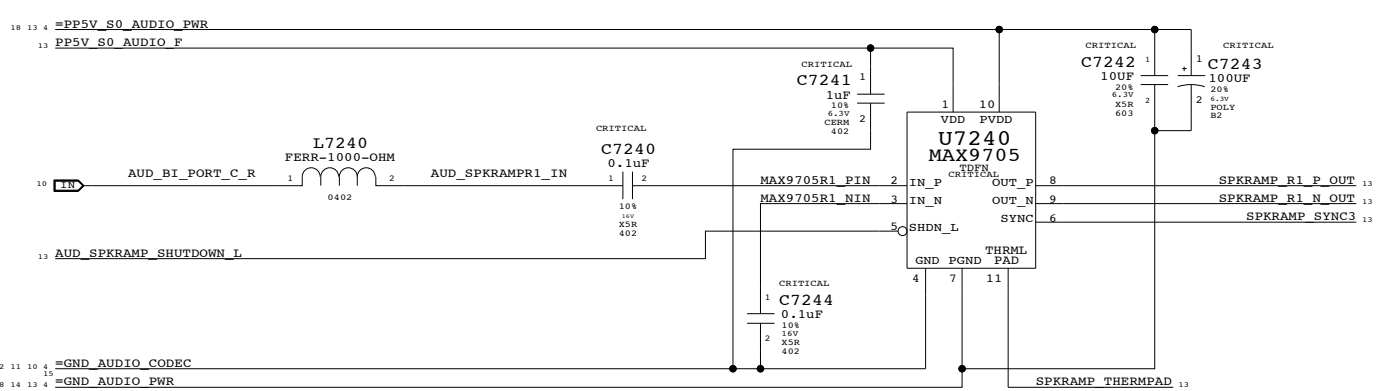
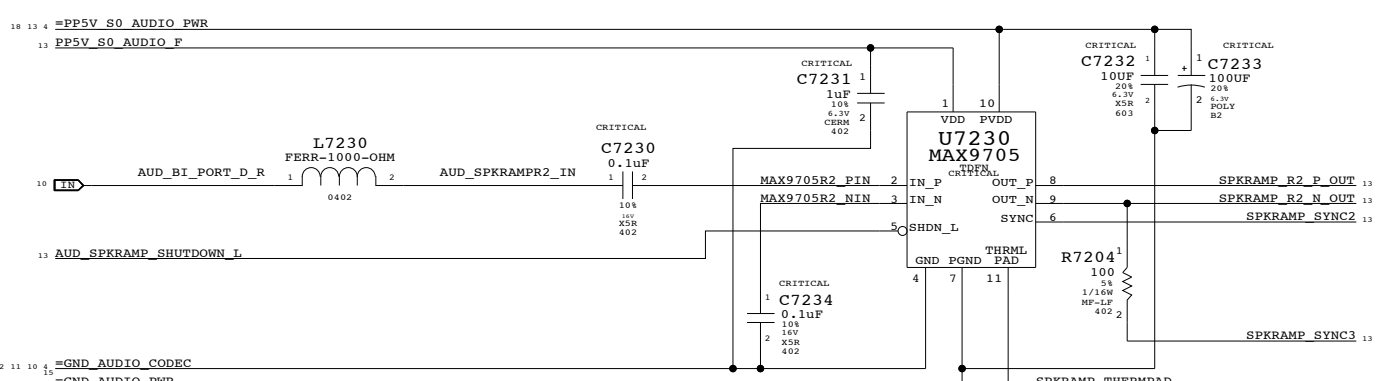
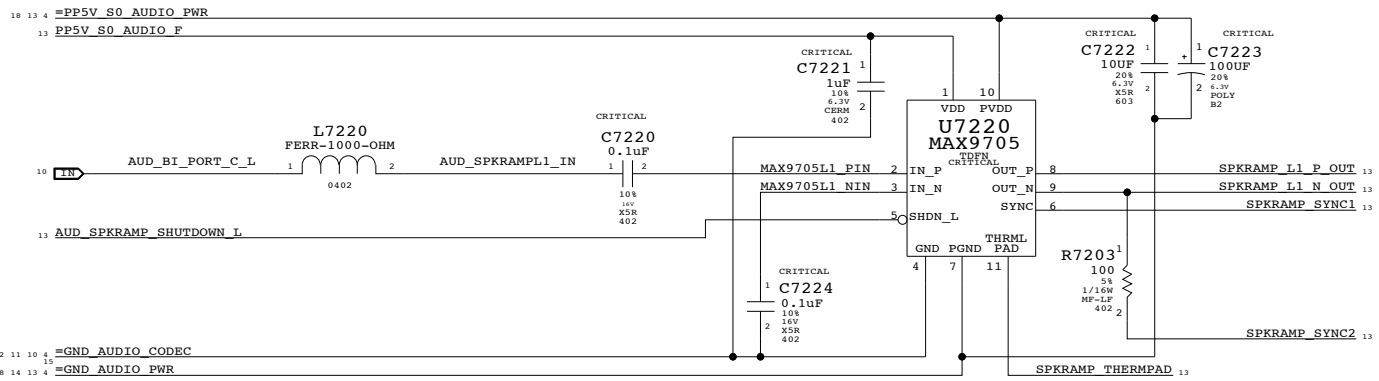
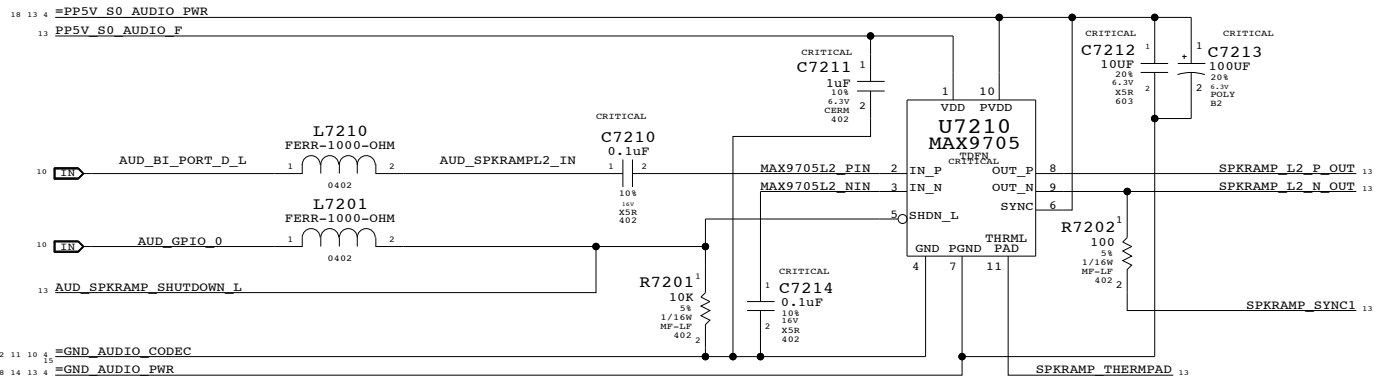
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NOTICE OF PROPRIETARY PROPERTY

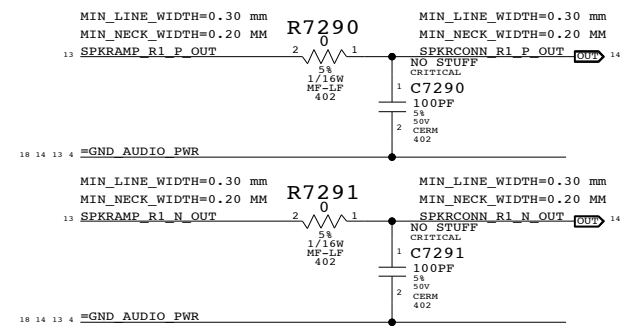
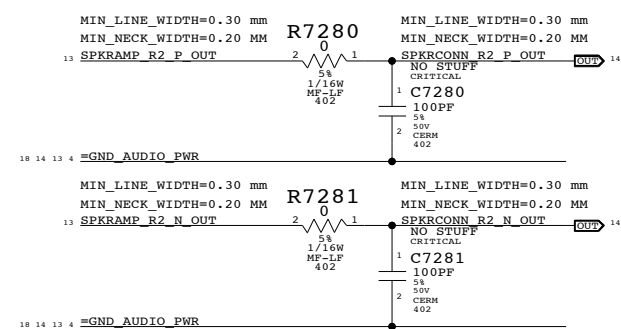
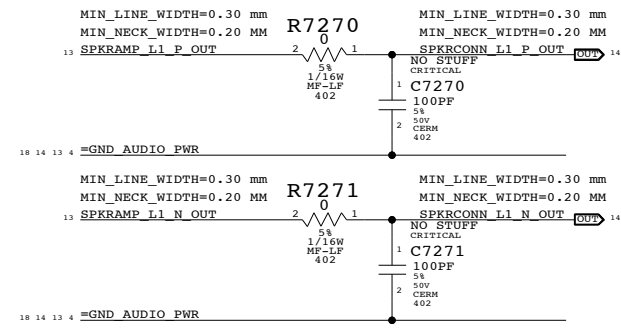
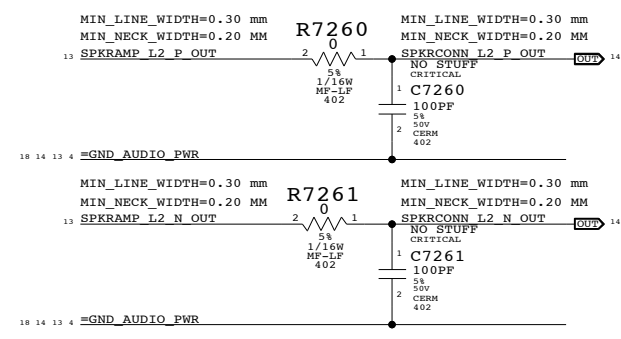
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SCALE	NONE	SHT	71 OF 87

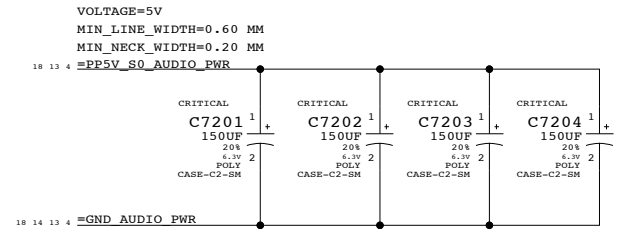
SPEAKER AMPLIFIERS (MAX9705) APN: 353S1355 TURN ON TIME: 30MS  
Gain = 6dB 80 < FC < 132Hz TURN ON DELAY: 60MS



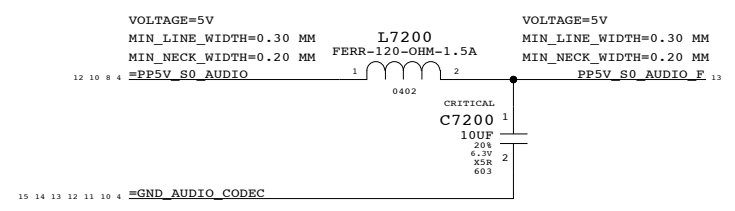
EMI FILTERS FOR AMPLIFIER OUTPUTS



POWER AMPLIFIER SUPPLY BULK CAPS



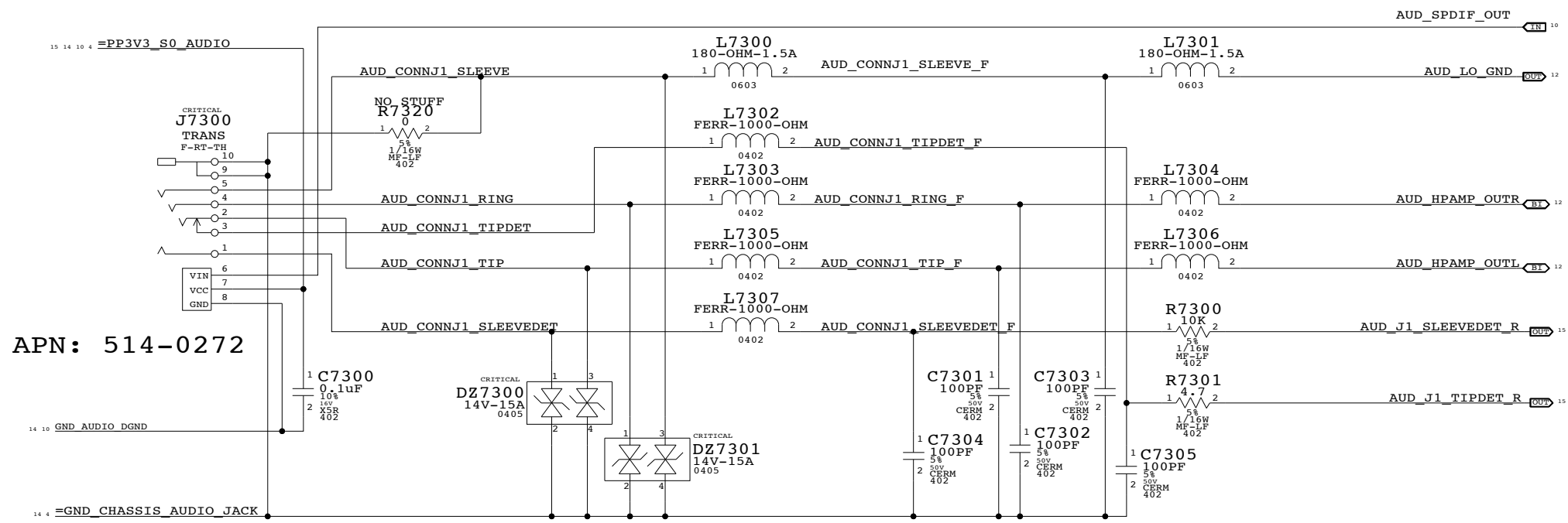
ANALOG POWER RAIL



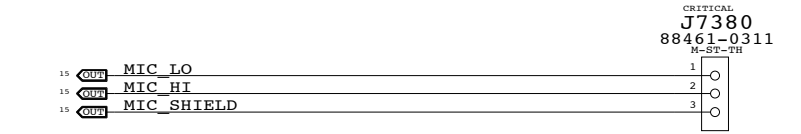
**AUDIO: SPEAKER AMP**  
SYNC\_MASTER=AUDIO\_M9\_PRO\_LIO SYNC\_DATE=01/06/2006  
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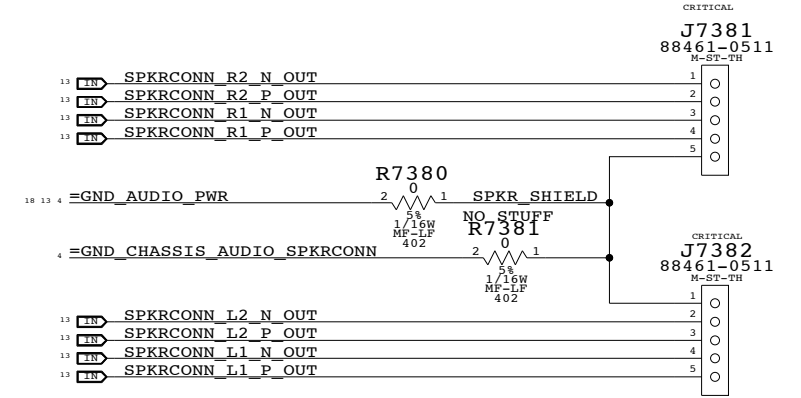
AUDIO JACK 1/DEFAULT LO/HP CONNECTOR, SPDIF TX



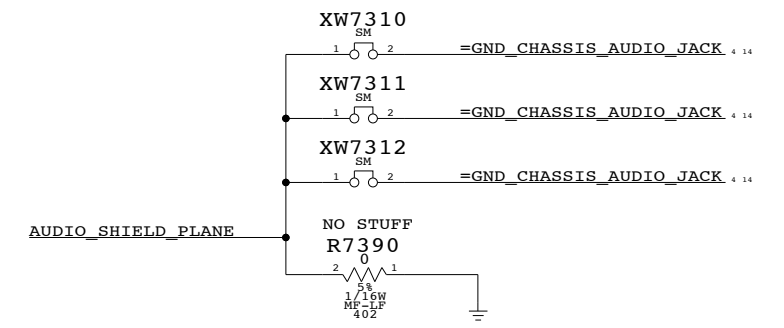
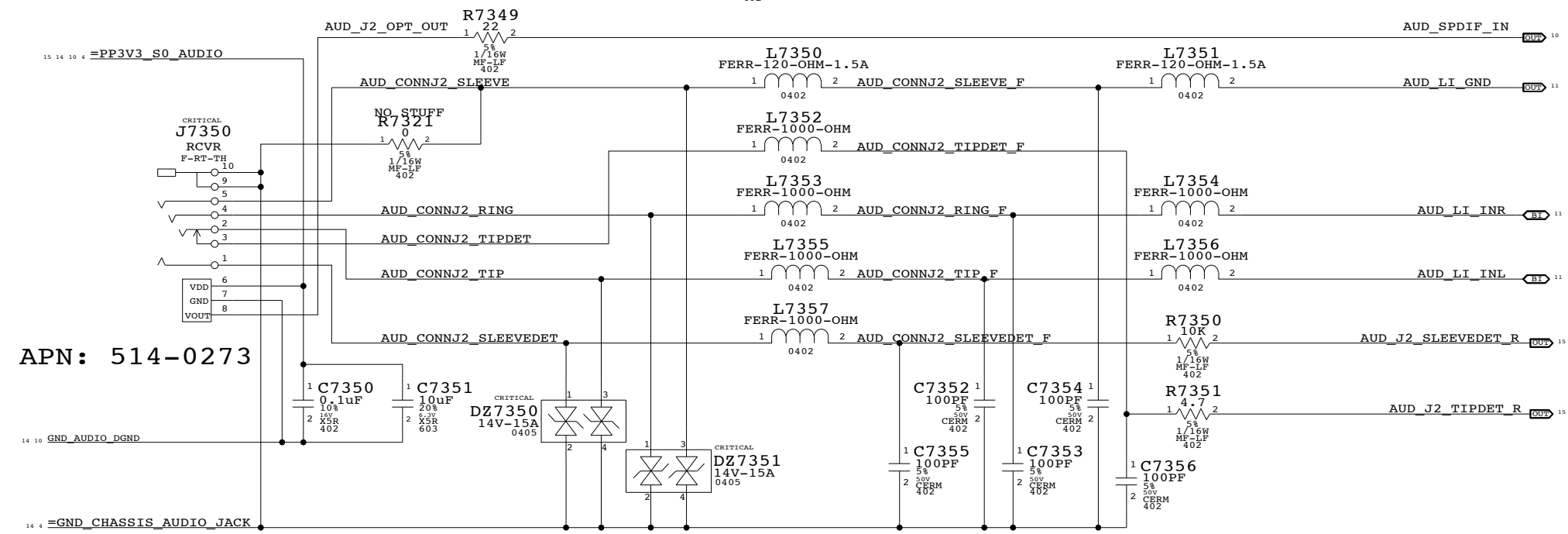
MIC CONNECTOR  
APN: 518-0230



SPEAKER CONNECTORS  
APN: 518-0229



AUDIO JACK 2/DEFAULT LINE IN CONNECTOR, SPDIF RX



AUDIO: JACKS

SYNC\_MASTER=AUDIO\_M9\_PRO\_LIO SYNC\_DATE=01/19/2006

NOTICE OF PROPRIETARY PROPERTY

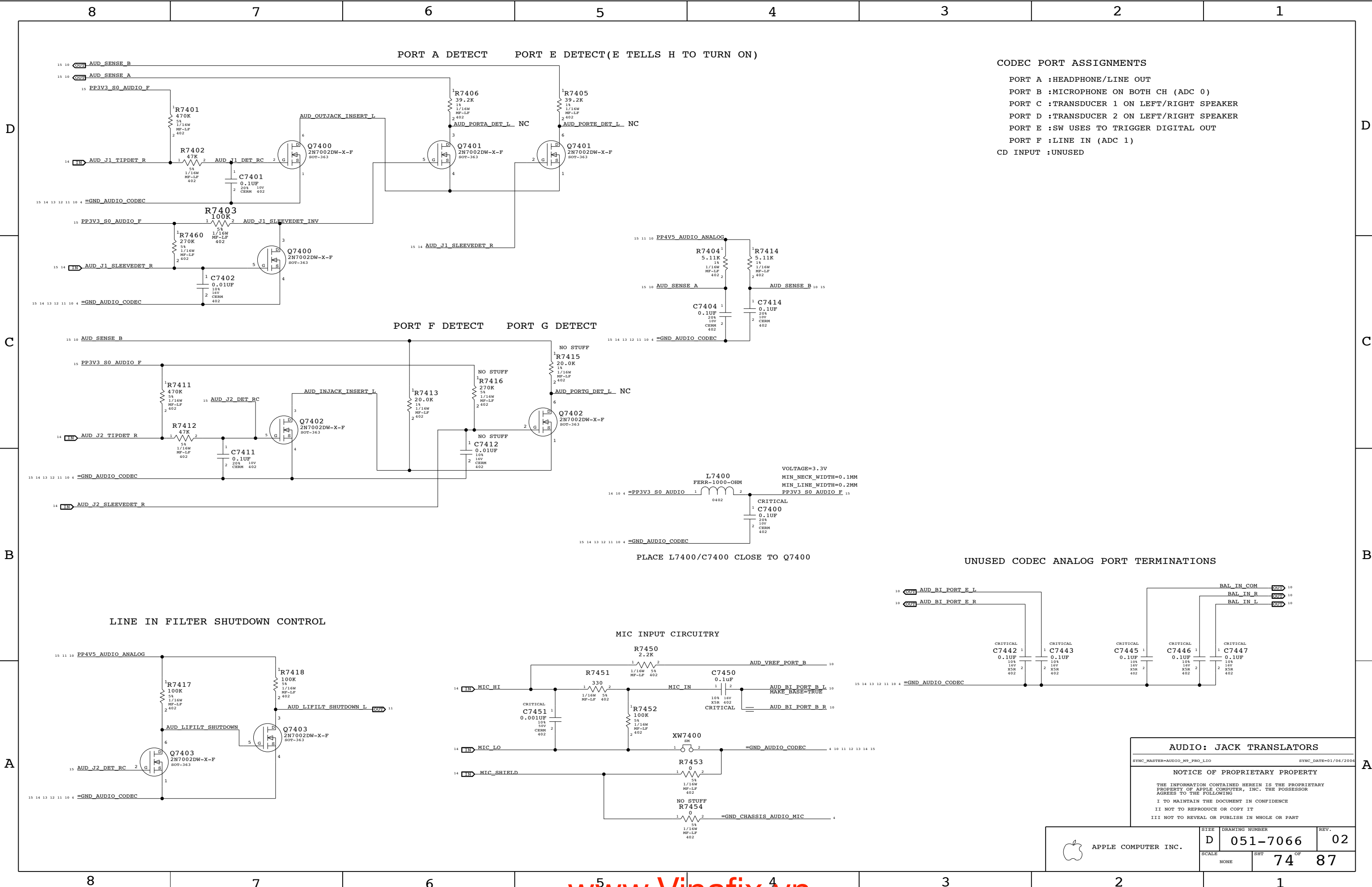
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	D	051-7066	02
SCALE	SHT		OF
NONE	73		87



**CODEC PORT ASSIGNMENTS**

- PORT A : HEADPHONE/LINE OUT
- PORT B : MICROPHONE ON BOTH CH (ADC 0)
- PORT C : TRANSDUCER 1 ON LEFT/RIGHT SPEAKER
- PORT D : TRANSDUCER 2 ON LEFT/RIGHT SPEAKER
- PORT E : SW USES TO TRIGGER DIGITAL OUT
- PORT F : LINE IN (ADC 1)
- CD INPUT : UNUSED

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

PORT F DETECT    PORT G DETECT

LINE IN FILTER SHUTDOWN CONTROL

MIC INPUT CIRCUITRY

UNUSED CODEC ANALOG PORT TERMINATIONS

**AUDIO: JACK TRANSLATORS**

SYNC\_MASTER=AUDIO\_M9\_PRO\_L10    SYNC\_DATE=01/06/2006

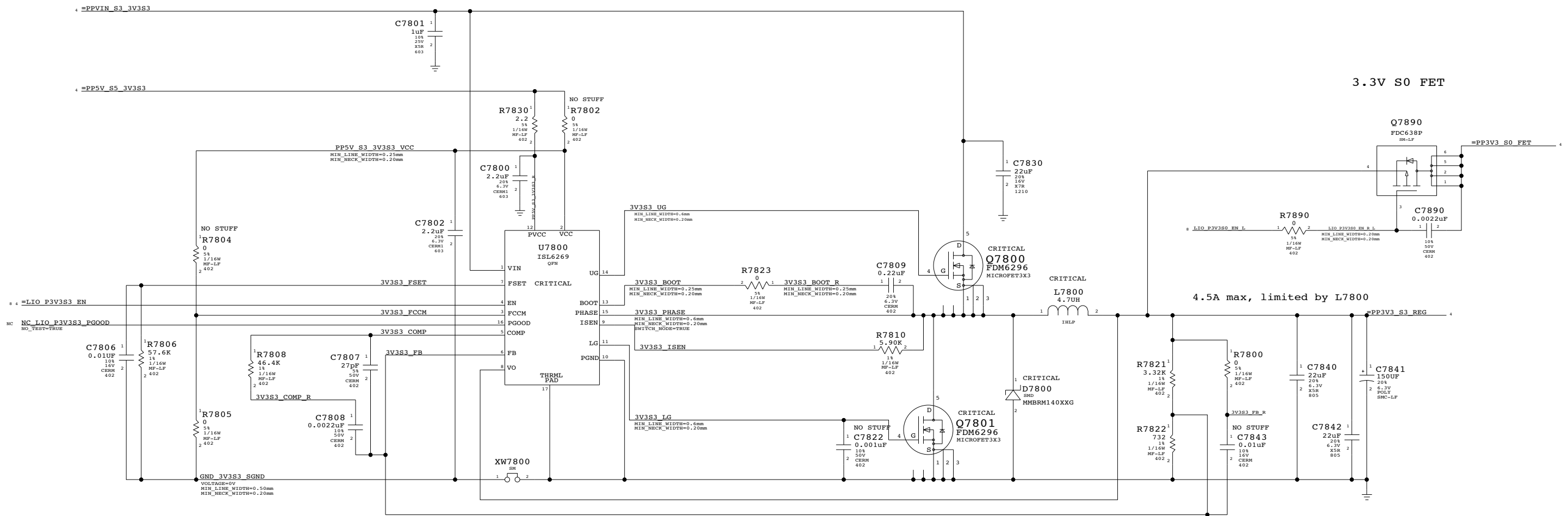
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	NONE	051-7066	02
SCALE		SHT	74 OF 87

### 3.3V S3/S0 Power Supply



**3.3V Supply**

SYNC\_MASTER=SIREN SYNC\_DATE=01/06/2006

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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7066	02
SCALE	SHT	REV.	
NONE	78 OF 87		





8

7

6

5

4

3

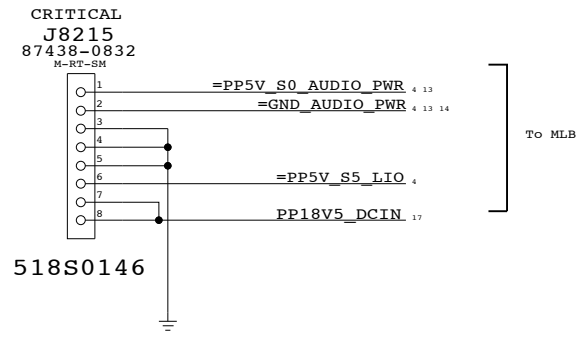
2

1

D

D

### Left I/O Power Connector



C

C

B

B

A

A

8

7

6

5

4

3

2

1

#### LEFT I/O POWER CONNECTOR

SYNC\_MASTER=SIREN SYNC\_DATE=01/06/2006

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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7066	02
SCALE	SHT		
NONE	84 OF		87



	8	7	6	5	4	3	2	1
D	MIC_SHIELD	MIC_SHIELD - @alt_l1o.lib.ALT_L1O	14D3 15A6					
	NC_AUD_GPIO_2	NC_AUD_GPIO_2 - @alt_l1o.lib.ALT_L1O	10C7					
	NC_LED_WLAN_L	NC_LED_WLAN_L - @alt_l1o.lib.ALT_L1O	7B3					
	NC_LED_WPAN_L	NC_LED_WPAN_L - @alt_l1o.lib.ALT_L1O	7B3					
	NC_LED_WWAN_L	NC_LED_WWAN_L - @alt_l1o.lib.ALT_L1O	7B3					
	NC_L1O_P3V3S3_PGOOD	NC_L1O_P3V3S3_PGOOD - @alt_l1o.lib.ALT_L1O	16B8					
	NC_UIM_CLK	NC_UIM_CLK - @alt_l1o.lib.ALT_L1O	7C3					
	NC_UIM_DATA	NC_UIM_DATA - @alt_l1o.lib.ALT_L1O	7C3					
	NC_UIM_PWR	NC_UIM_PWR - @alt_l1o.lib.ALT_L1O	7C3					
	NC_UIM_RESET	NC_UIM_RESET - @alt_l1o.lib.ALT_L1O	7C3					
C	NC_UIM_VFP	NC_UIM_VFP - @alt_l1o.lib.ALT_L1O	7C3					
	NC_VOL_DOWN	NC_VOL_DOWN - @alt_l1o.lib.ALT_L1O	10C7					
	NC_VOL_UP	NC_VOL_UP - @alt_l1o.lib.ALT_L1O	10C7					
	NC_W_DISABLE_L	NC_W_DISABLE_L - @alt_l1o.lib.ALT_L1O	7C3					
	ONEWIRE_DCIN_DIV	ONEWIRE_DCIN_DIV - @alt_l1o.lib.ALT_L1O	17C5					
	ONEWIRE_EN	ONEWIRE_EN - @alt_l1o.lib.ALT_L1O	17D3					
	ONEWIRE_ESD	ONEWIRE_ESD - @alt_l1o.lib.ALT_L1O	17C4					
	ONEWIRE_OVERVOLT	ONEWIRE_OVERVOLT - @alt_l1o.lib.ALT_L1O	17C4					
	ONEWIRE_PWR_EN_L	ONEWIRE_PWR_EN_L - @alt_l1o.lib.ALT_L1O	17C2					
	ONEWIRE_PWR_EN_L_DIV	ONEWIRE_PWR_EN_L_DIV - @alt_l1o.lib.ALT_L1O	17D2					
B	P2V5_ONEWIRE_REF	P2V5_ONEWIRE_REF - @alt_l1o.lib.ALT_L1O	17C5					
	PCIE_CLK100M_EXCARD_UF_N	PCIE_CLK100M_EXCARD_UF_N - @alt_l1o.lib.ALT_L1O	8C4					
	PCIE_CLK100M_EXCARD_UF_P	PCIE_CLK100M_EXCARD_UF_P - @alt_l1o.lib.ALT_L1O	8B4					
	PCIE_CLK100M_MINI_UF_N	PCIE_CLK100M_MINI_UF_N - @alt_l1o.lib.ALT_L1O	8C4					
	PCIE_CLK100M_MINI_UF_P	PCIE_CLK100M_MINI_UF_P - @alt_l1o.lib.ALT_L1O	8C4					
	PCIE_WAKE_EXCARD_L	PCIE_WAKE_EXCARD_L - @alt_l1o.lib.ALT_L1O	4C3 6C3					
	PCIE_WAKE_L	PCIE_WAKE_L - @alt_l1o.lib.ALT_L1O	4C4 8C6					
	PCIE_WAKE_MINI_L	PCIE_WAKE_MINI_L - @alt_l1o.lib.ALT_L1O	4C3 7C6					
	PLT_RESET_SWITCH_L	PLT_RESET_SWITCH_L - @alt_l1o.lib.ALT_L1O	4C4 8C6					
	PP1V5_S0_EXCARD_SWIT	PP1V5_S0_EXCARD_SWIT - @alt_l1o.lib.ALT_L1O	6C3 6C3					
A	PP3V3_AUDIO_CODECC	PP3V3_AUDIO_CODECC - @alt_l1o.lib.ALT_L1O	10D6					
	PP3V3_S0_AUDIO_F	PP3V3_S0_AUDIO_F - @alt_l1o.lib.ALT_L1O	15B4 15C8 15C8 15D8					
	PP3V3_S0_EXCARD_SWIT	PP3V3_S0_EXCARD_SWIT - @alt_l1o.lib.ALT_L1O	6C3 6C3					
	PP3V3_S3_EXCARD_SWIT	PP3V3_S3_EXCARD_SWIT - @alt_l1o.lib.ALT_L1O	6C3 6C3					
	PP4V5_AUDIO_ANALOG	PP4V5_AUDIO_ANALOG - @alt_l1o.lib.ALT_L1O	10A2 10D2 11C7 15A8 15C5					
	PP4V5_AUDIO_ANALOG_F	PP4V5_AUDIO_ANALOG_F - @alt_l1o.lib.ALT_L1O	10D5					
	PP4V5_AUDIO_ANALOG_F1	PP4V5_AUDIO_ANALOG_F1 - @alt_l1o.lib.ALT_L1O	10D5					
	PP5V_AUDIO_HPAMP_AVD	PP5V_AUDIO_HPAMP_AVD - @alt_l1o.lib.ALT_L1O	12D4					
	PP5V_AUDIO_HPAMP_FVD	PP5V_AUDIO_HPAMP_FVD - @alt_l1o.lib.ALT_L1O	12D5					
	PP5V_PWRON_USB_LEFT2	PP5V_PWRON_USB_LEFT2 - @alt_l1o.lib.ALT_L1O	5D4					
A	PP5V_PWRON_USB_LEFT	PP5V_PWRON_USB_LEFT - @alt_l1o.lib.ALT_L1O	5B4					
	PP5V_S0_AUDIO_F	PP5V_S0_AUDIO_F - @alt_l1o.lib.ALT_L1O	13A8 13B1 13B8 13C8 13D8					
	PP5V_S3_3V3S3_R	PP5V_S3_3V3S3_R - @alt_l1o.lib.ALT_L1O	16C6					
	PP5V_S3_3V3S3_VCC	PP5V_S3_3V3S3_VCC - @alt_l1o.lib.ALT_L1O	16C7					
	PP5V_S3_USB_SWITCH_O	PP5V_S3_USB_SWITCH_OUT1 - @alt_l1o.lib.ALT_L1O	5B5					
	UT1	PP5V_S3_USB_SWITCH_OUT2 - @alt_l1o.lib.ALT_L1O	5D5					
	UT2	PP5V_S3_USB_SWITCH_OUT2 - @alt_l1o.lib.ALT_L1O	5D5					
	PP18V5_DCIN	PP18V5_DCIN - @alt_l1o.lib.ALT_L1O	17D1 18C4					
	PP18V5_DCIN_FUSE	PP18V5_DCIN_FUSE - @alt_l1o.lib.ALT_L1O	17D6					
	PP18V5_DCIN_ONEWIRE	PP18V5_DCIN_ONEWIRE - @alt_l1o.lib.ALT_L1O	17D5					
A	PP18V5_DCIN_UF	PP18V5_DCIN_UF - @alt_l1o.lib.ALT_L1O	17D7					
	SDATAIN	SDATAIN - @alt_l1o.lib.ALT_L1O	10C6					
	SMC_BC_ACOK	SMC_BC_ACOK - @alt_l1o.lib.ALT_L1O	8C6 17C1					
	SMC_EXCARD_CP	SMC_EXCARD_CP - @alt_l1o.lib.ALT_L1O	6A4 8C6					
	SMC_EXCARD_PWR_EN	SMC_EXCARD_PWR_EN - @alt_l1o.lib.ALT_L1O	6C7 8C6					
	SPKRAMP_L1_N_OUT	SPKRAMP_L1_N_OUT - @alt_l1o.lib.ALT_L1O	13C4 13C5					
	SPKRAMP_L1_P_OUT	SPKRAMP_L1_P_OUT - @alt_l1o.lib.ALT_L1O	13C4 13C5					
	SPKRAMP_L2_N_OUT	SPKRAMP_L2_N_OUT - @alt_l1o.lib.ALT_L1O	13D4 13D5					
	SPKRAMP_L2_P_OUT	SPKRAMP_L2_P_OUT - @alt_l1o.lib.ALT_L1O	13D4 13D5					
	SPKRAMP_R1_N_OUT	SPKRAMP_R1_N_OUT - @alt_l1o.lib.ALT_L1O	13A4 13A5					
SPKRAMP_R1_P_OUT	SPKRAMP_R1_P_OUT - @alt_l1o.lib.ALT_L1O	13A4 13A5						
SPKRAMP_R2_N_OUT	SPKRAMP_R2_N_OUT - @alt_l1o.lib.ALT_L1O	13B4 13B5						
SPKRAMP_R2_P_OUT	SPKRAMP_R2_P_OUT - @alt_l1o.lib.ALT_L1O	13B4 13B5						
SPKRAMP_SYNC1	SPKRAMP_SYNC1 - @alt_l1o.lib.ALT_L1O	13C5 13D5						
SPKRAMP_SYNC2	SPKRAMP_SYNC2 - @alt_l1o.lib.ALT_L1O	13B5 13C5						
SPKRAMP_SYNC3	SPKRAMP_SYNC3 - @alt_l1o.lib.ALT_L1O	13A5 13B5						
SPKRAMP_THERMPAD	SPKRAMP_THERMPAD - @alt_l1o.lib.ALT_L1O	13A5 13B5 13B5 13C5 13C5						
SPKRCOONN_L1_N_OUT	SPKRCOONN_L1_N_OUT - @alt_l1o.lib.ALT_L1O	13C3 14C3						
SPKRCOONN_L1_P_OUT	SPKRCOONN_L1_P_OUT - @alt_l1o.lib.ALT_L1O	13C3 14C3						
SPKRCOONN_L2_N_OUT	SPKRCOONN_L2_N_OUT - @alt_l1o.lib.ALT_L1O	13D3 14C3						
SPKRCONN_L2_P_OUT	SPKRCONN_L2_P_OUT - @alt_l1o.lib.ALT_L1O	13D3 14C3						
SPKRCONN_R1_N_OUT	SPKRCONN_R1_N_OUT - @alt_l1o.lib.ALT_L1O	13A3 14C3						
SPKRCONN_R1_P_OUT	SPKRCONN_R1_P_OUT - @alt_l1o.lib.ALT_L1O	13A3 14C3						
SPKRCONN_R2_N_OUT	SPKRCONN_R2_N_OUT - @alt_l1o.lib.ALT_L1O	13B3 14C3						
SPKRCONN_R2_P_OUT	SPKRCONN_R2_P_OUT - @alt_l1o.lib.ALT_L1O	13B3 14C3						
TP_EXCARD_STBY_L	TP_EXCARD_STBY_L - @alt_l1o.lib.ALT_L1O	6C7						
TP_USB2_MINI_N	TP_USB2_MINI_N - @alt_l1o.lib.ALT_L1O	4B2						
TP_USB2_MINI_P	TP_USB2_MINI_P - @alt_l1o.lib.ALT_L1O	4B2						
USB_LEFT2_EMI_N	USB_LEFT2_EMI_N - @alt_l1o.lib.ALT_L1O	5C4						
USB_LEFT2_EMI_P	USB_LEFT2_EMI_P - @alt_l1o.lib.ALT_L1O	5C4						
USB_LEFT2_GND	USB_LEFT2_GND - @alt_l1o.lib.ALT_L1O	5C3						
USB_LEFT_EMI_N	USB_LEFT_EMI_N - @alt_l1o.lib.ALT_L1O	5B4						
USB_LEFT_EMI_P	USB_LEFT_EMI_P - @alt_l1o.lib.ALT_L1O	5B4						
USB_LEFT_GND	USB_LEFT_GND - @alt_l1o.lib.ALT_L1O	5B3						
USB_LEFT_PWRON_L	USB_LEFT_PWRON_L - @alt_l1o.lib.ALT_L1O	5D7						
VREG_FB	VREG_FB - @alt_l1o.lib.ALT_L1O	10A3						

