

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

?

?

SCHEM, DUBLIN, M87

10/12/07

DVT

PDF PAGE

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AUDIO:CODEC

LENGO_M87_AUDIO

10/05/2007

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LENGO_M87_AUDIO

10/05/2007

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LENGO_M87_AUDIO

10/05/2007

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10/05/2007

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5V/3.3V SUPPLY

<MASTER>

<MASTER>

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PBus Supply & Batt. Charger

(Master)

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SPLIT_INVERTER

12/06/2006

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LCD Backlight Support

M88_MLB

07/05/2007

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PART#

QTY

DESCRIPTION

REFERENCE DESIGNATOR(S)

CRITICAL

BOM OPTION

051-7447

1

SCHEM, DUBLIN, M87

SW1

CRITICAL

820-2273

1

PCBF, DUBLIN, M87

PCB1

CRITICAL

DIMENSIONS ARE IN MILLIMETERS

XX ±

X.XX ±

X.XXX ±

ANGLES ±

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

METRIC

DRAFTER

ENG APPD

QA APPD

RELEASE

DESIGN CK

MFG APPD

DESIGNER

SCALE

MATERIAL/FINISH NOTED AS APPLICABLE

SIZE D

APPLE INC.

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TITLE

SCHEM, DUBLIN, M87

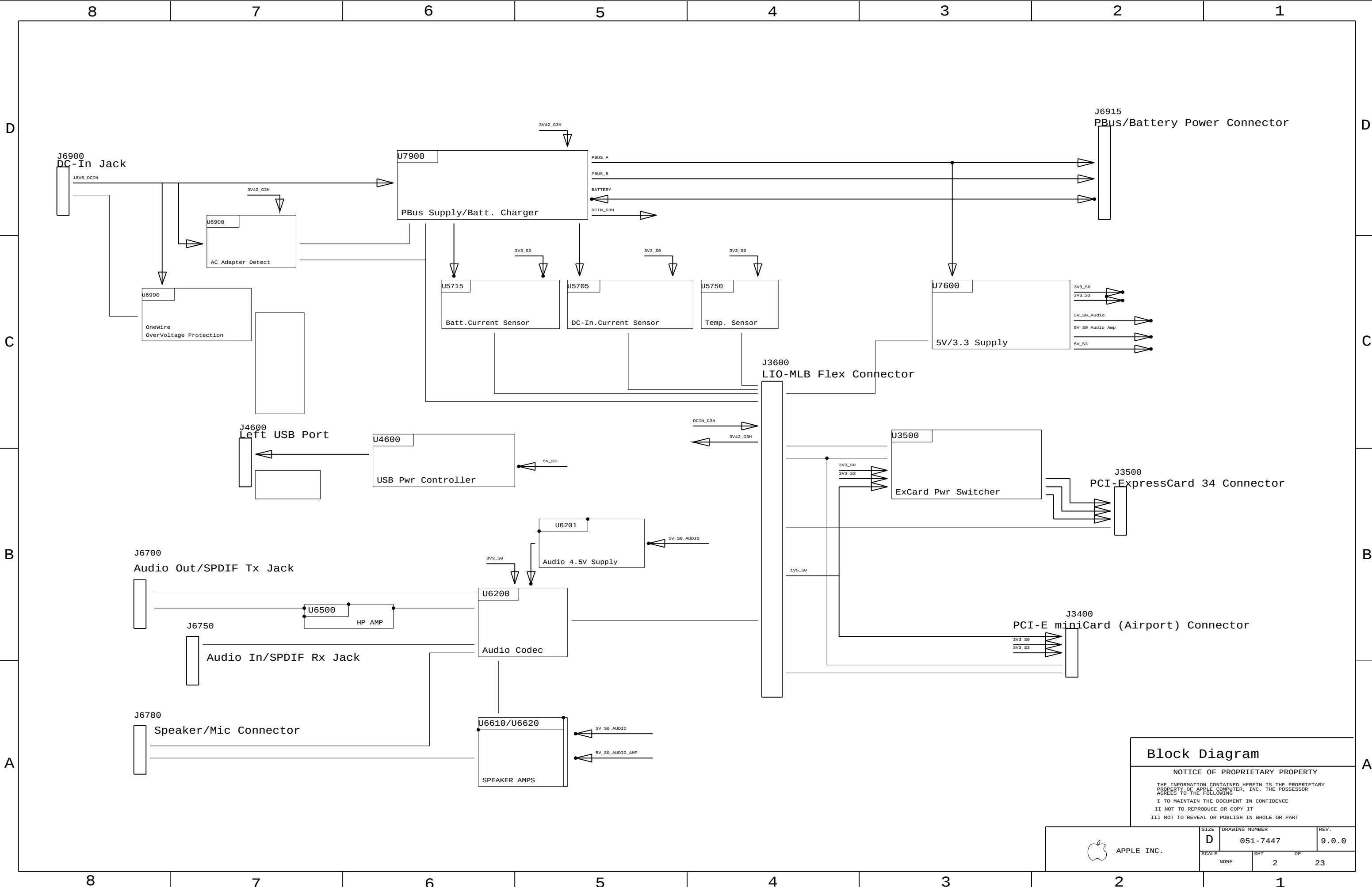
DRAWING NUMBER

051-7447

REV.

9.0.0

SHT 1 OF 23



Block Diagram

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APPLE INC.

SIZE

D

DRAWING NUMBER

051-7447

REV.

9.0.0

SCALE

NONE

SHT

2

OF

23

BOM NUMBER	BOM NAME	BOM OPTIONS
630-9094	PCBA, DUBLIN, M87	ALTERNATE, COMMON, M87_COMMON, INV_BYPASS, X5F, BKLT_LED

BOM GROUP	BOM OPTIONS
M87_COMMON	ISL6257H

Bar Code Label / EEE #'s

PART NUMBER	QTY	DESCRIPTION	REFERENCE DES	CRITICAL	BOM OPTION
000-0041	1	PLACEHOLDER FOR EEE/CCC INFO	[EEE:Z3M]	CRITICAL	X5F

Alternate Parts

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
37650448	37650445		ALL	S17806ACN for FSM6296
12850061	12850061		ALL	150uF, 6, 3V, 250MHZ, C2
12850093	12850092		ALL	33uF, 16V, 450MHZ, D2E
35351717	35351297		ALL	LM397, COMPARETOR
37650560	37650532		ALL	S179809D for S17913DN

BOM Configuration			
SYNCR_MASTER=(Master)		SYNCR_DATE=(Master)	
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SIZE	DRAWING NUMBER		REV.
D	051-7447		9.0.0
SOURCE	SHT	OF	
NONE	3	23	



APPLE INC.

SIZE	PRICE	STOCK	STATUS
S	\$10	10	In Stock
M	\$15	20	In Stock
L	\$20	30	In Stock
XL	\$25	40	In Stock
XXL	\$30	50	In Stock
XXXL	\$35	60	In Stock
XXXXL	\$40	70	In Stock
XXXXXL	\$45	80	In Stock
XXXXXXL	\$50	90	In Stock
XXXXXXXL	\$55	100	In Stock
XXXXXXXL	\$60	110	In Stock
XXXXXXXL	\$65	120	In Stock
XXXXXXXL	\$70	130	In Stock
XXXXXXXL	\$75	140	In Stock
XXXXXXXL	\$80	150	In Stock
XXXXXXXL	\$85	160	In Stock
XXXXXXXL	\$90	170	In Stock
XXXXXXXL	\$95	180	In Stock
XXXXXXXL	\$100	190	In Stock
XXXXXXXL	\$105	200	In Stock
XXXXXXXL	\$110	210	In Stock
XXXXXXXL	\$115	220	In Stock
XXXXXXXL	\$120	230	In Stock
XXXXXXXL	\$125	240	In Stock
XXXXXXXL	\$130	250	In Stock
XXXXXXXL	\$135	260	In Stock
XXXXXXXL	\$140	270	In Stock
XXXXXXXL	\$145	280	In Stock
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XXXXXXXL	\$465	920	In Stock
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XXXXXXXL	\$475	940	In Stock
XXXXXXXL	\$480	950	In Stock
XXXXXXXL	\$485	960	In Stock
XXXXXXXL	\$490	970	In Stock
XXXXXXXL	\$495	980	In Stock
XXXXXXXL	\$500	990	In Stock
XXXXXXXL	\$505	1000	

D

ING NUMBER

051-7447

REV.

9.0.0

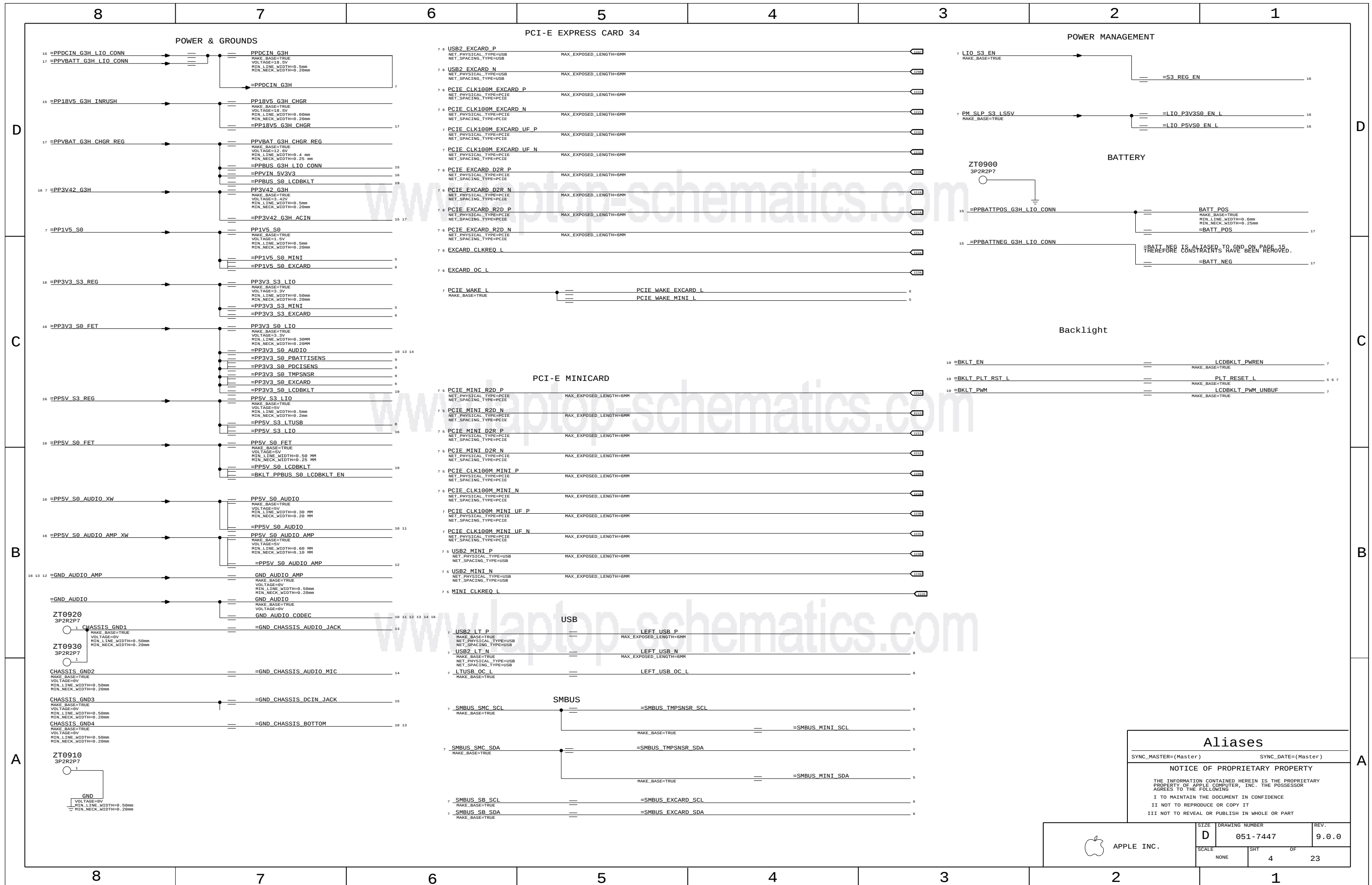
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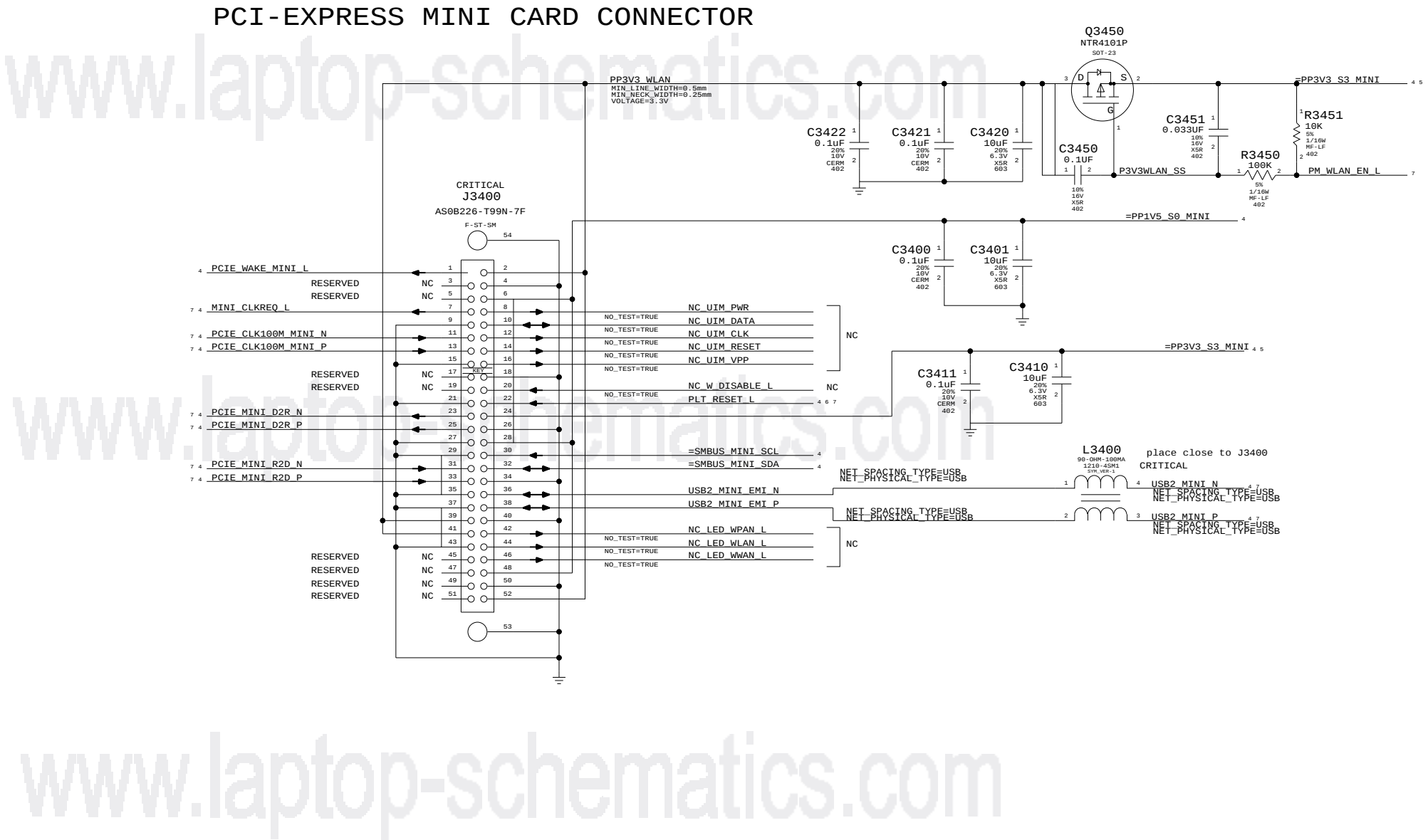
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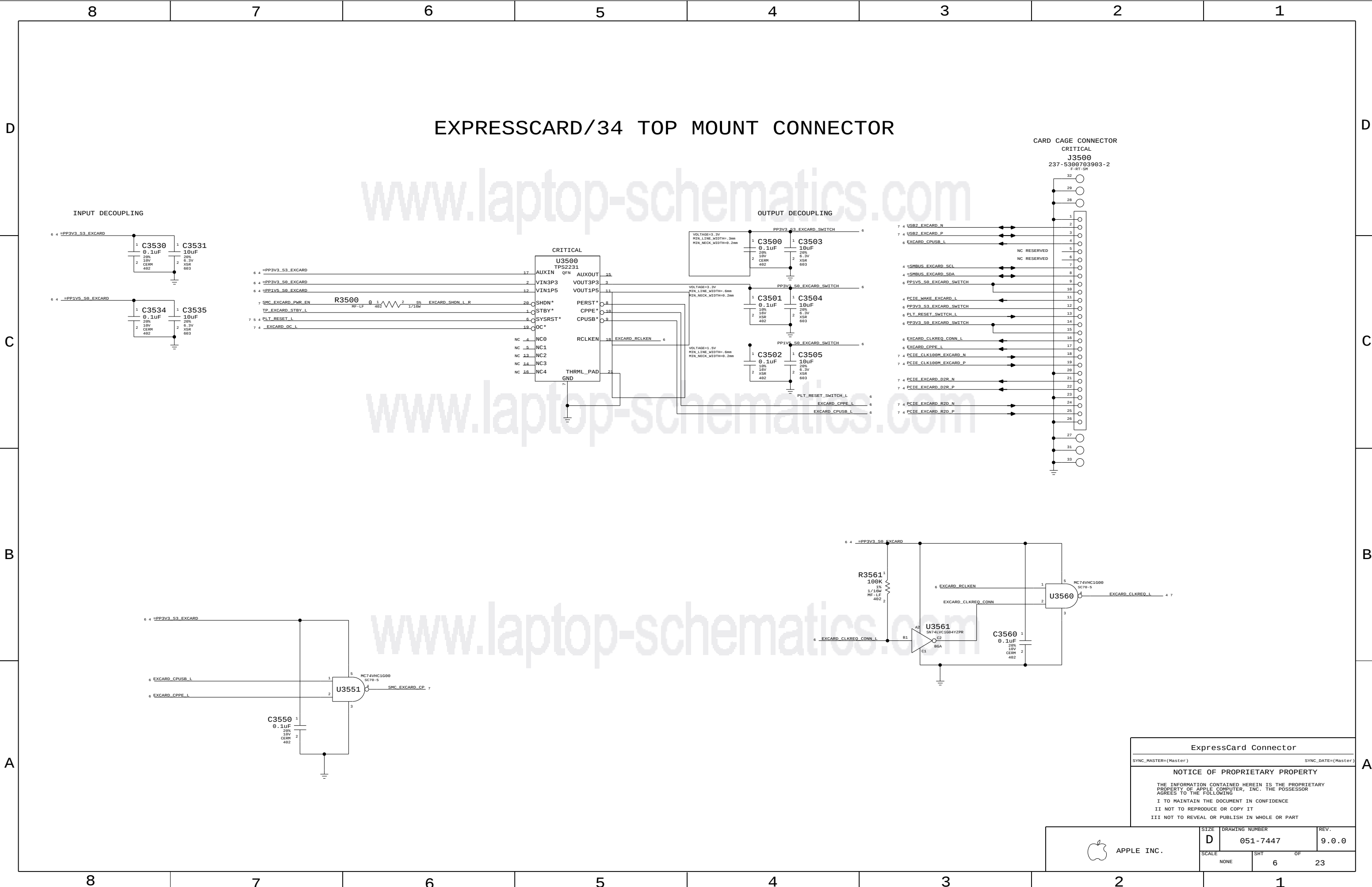
SHT

3

23







EXPRESSCARD/34 TOP MOUNT CONNECTOR

CARD CAGE CONNECTOR
CRITICAL
J3500
237-5300703903-2
P-RT-SM

ExpressCard Connector

SYNC_MASTER=(Master)

SYNC_DATA=(Master)

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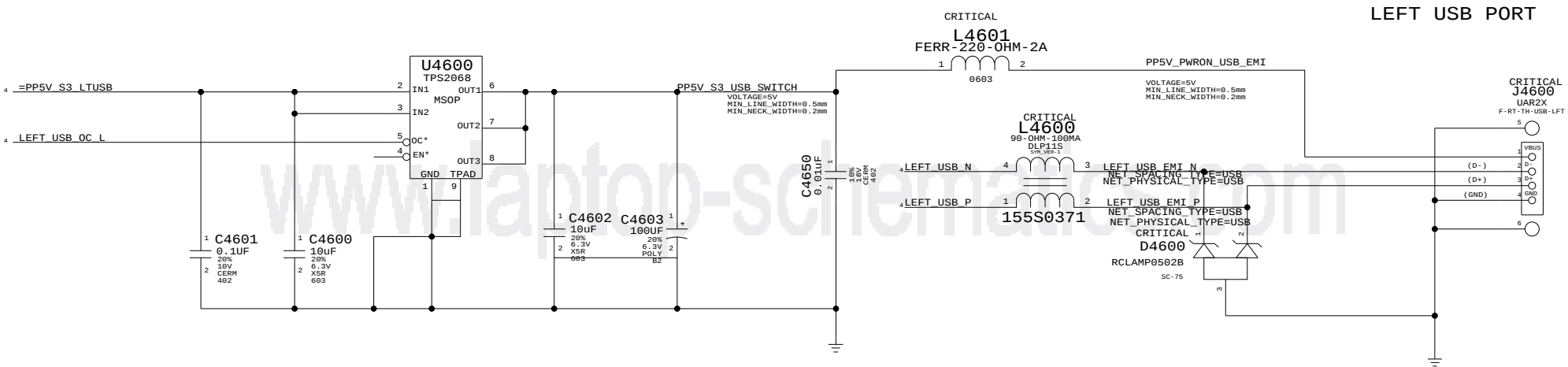
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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7447	9.0.0
SCALE		SHT	OF
NONE		6	23

www.laptop-schematics.com



PUT L4600, L4601, ACROSS THE MOAT

www.laptop-schematics.com

Left USB Port

SYNC_MASTER=(Master)

SYNC_DATE=(Master)

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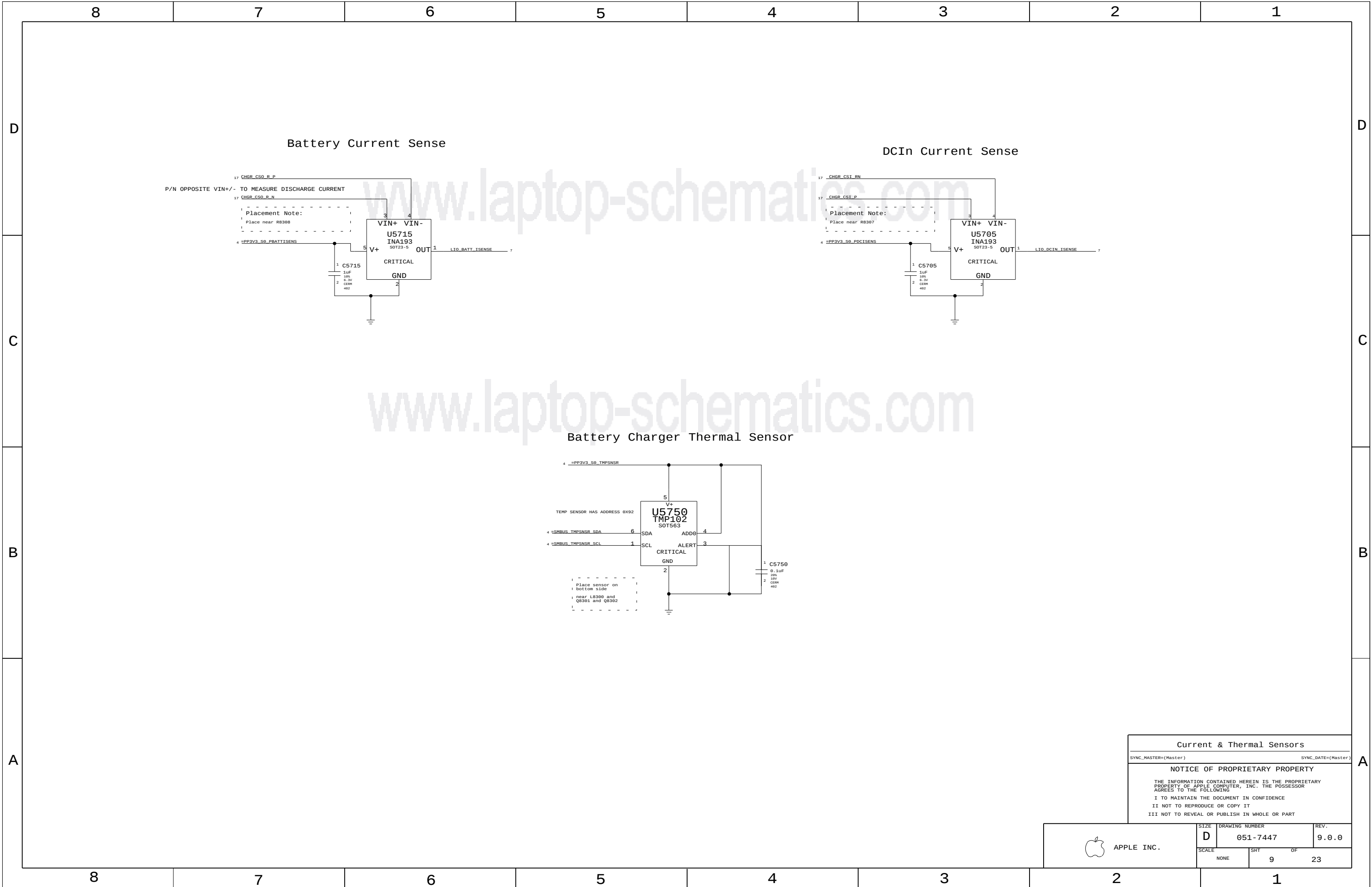
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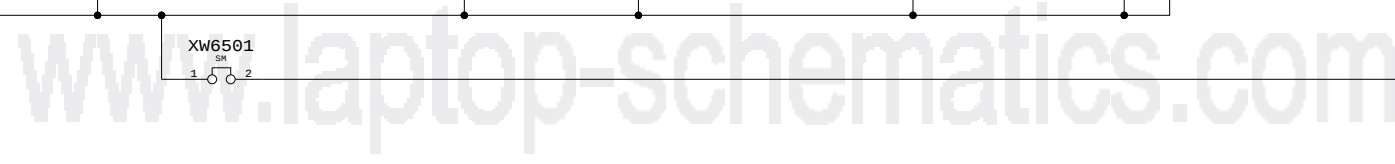
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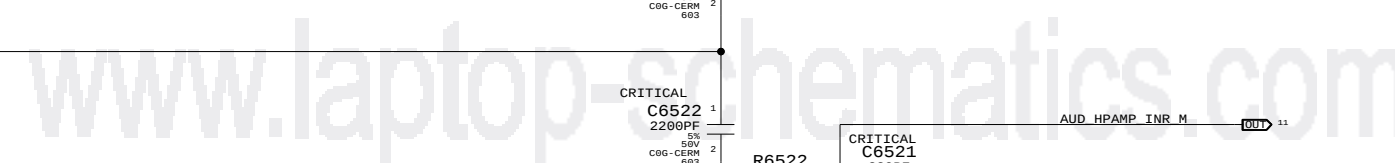
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	D	051-7447	9.0.0
SCALE		SHT	OF
NONE		8	23



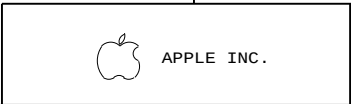
The schematic diagram shows the MAX9724A audio amplifier circuit. The IC is a MAX9724A with pins 1-12. The circuit includes two input channels (INL, INR) and two output channels (OUTL, OUTR). The circuit is powered by a 5V supply (VDD) and a 1.5V supply (VDD2). A 10uF capacitor (C6500) is connected to VDD, and a 0.001uF capacitor (C6501) is connected to VDD2. A 10k resistor (R6513) is connected between the two output channels. The circuit is labeled 'CRITICAL' and 'MAX9724A'.

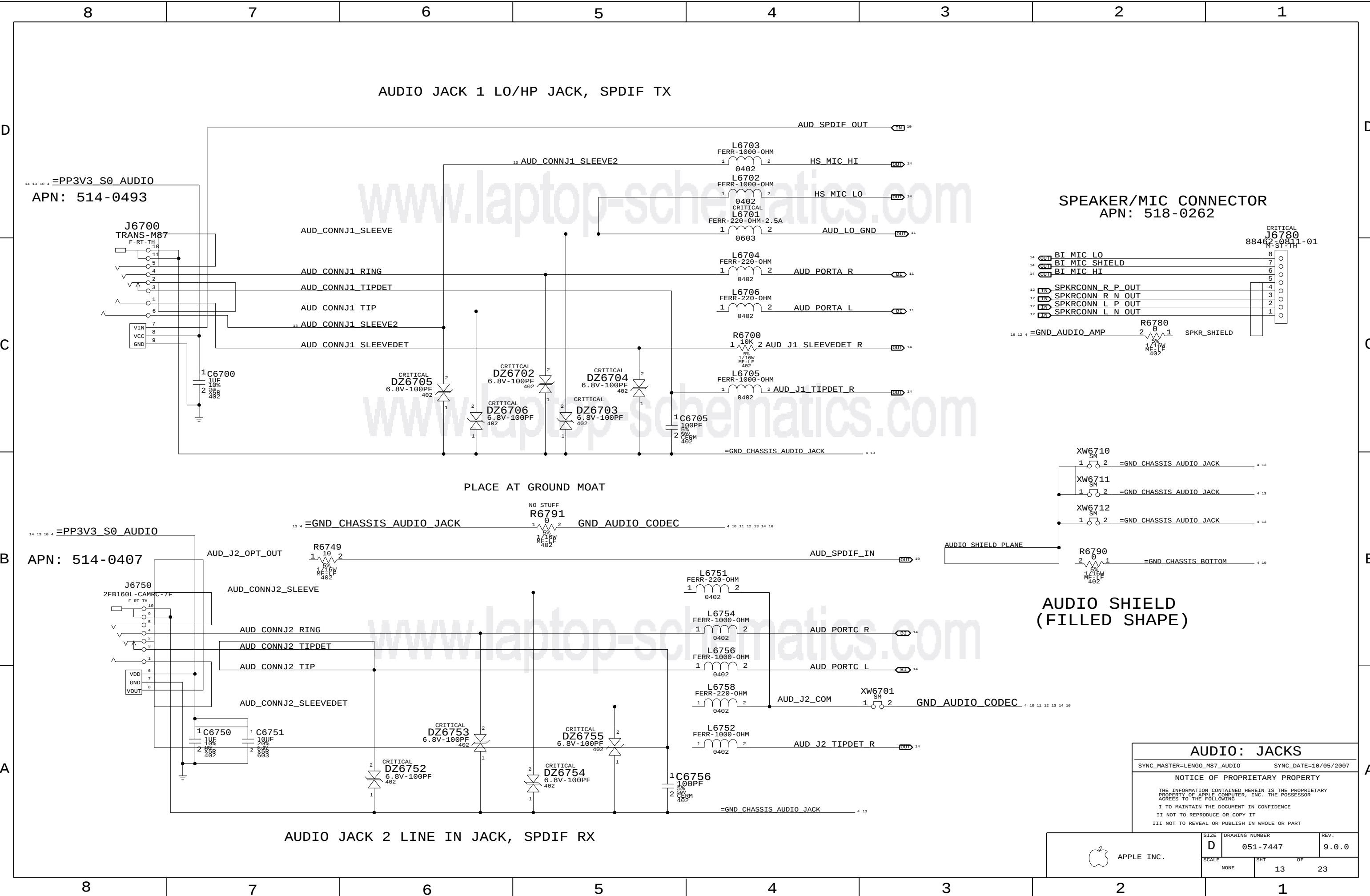


www.laptop-schematics.com



 APPLE INC.	SIZE D	DRAWING NUMBER 051-7447	REV. 9.0.0
	SCALE NONE	SHT OF 11 23	





D

C

B

A

D

C

B

A

AUDIO JACK 1 LO/HP JACK, SPDIF TX

SPEAKER/MIC CONNECTOR

AUDIO SHIELD (FILLED SHAPE)

AUDIO JACK 2 LINE IN JACK, SPDIF RX

AUDIO: JACKS

SYNC_MASTER=LENGO_M87_AUDIO		SYNC_DATE=10/05/2007	
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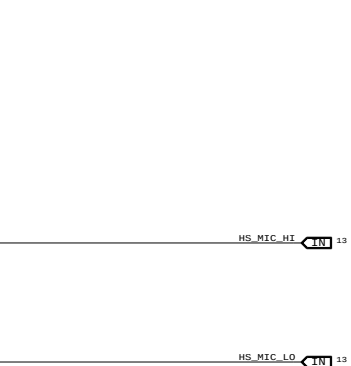
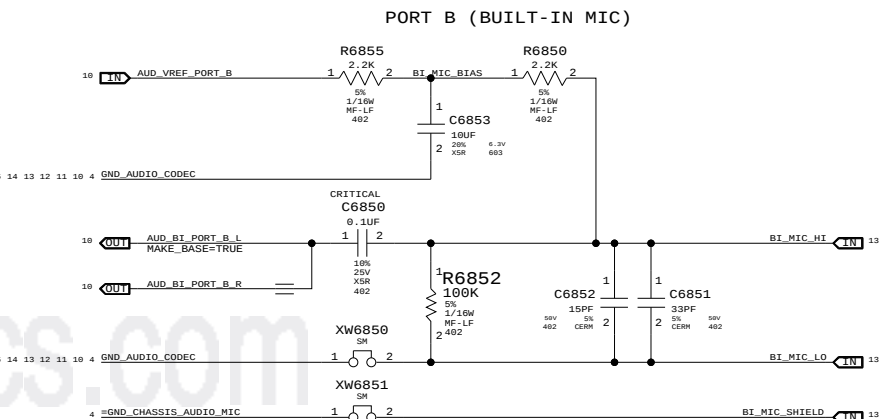
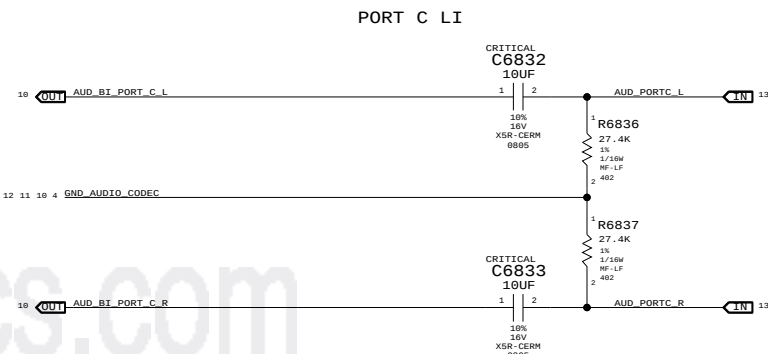


SIZE	D	DRAWING NUMBER	051-7447	REV.	9.0.0
SCALE	NONE	SHT	13	OF	23

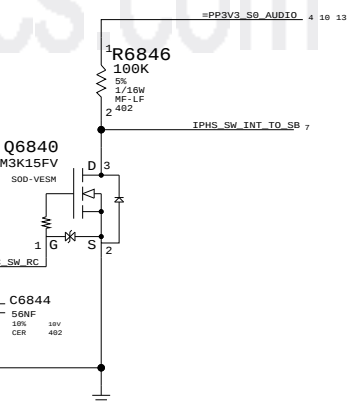
FUNCTION	VOLUME	CONVERTER
HP/LINE OUT	0X0D (15)	0X03 (3)
SPEAKER	0X26 (38)	0X25 (37)
SPDIF OUT	N/A	0X06 (6)

CODEC INPUT SIGNAL PATHS

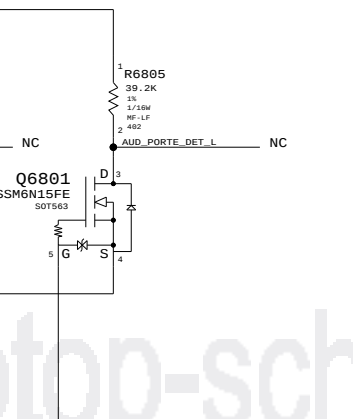
FUNCTION	MIXER(INPUT)	CONVERTER
LINE IN	0X23 (35)	0X08 (8)
SPDIF IN	N/A	0X0A (10)
MIC (BUILT IN)	0X24 (36)	0X07 (7)
MIC (HEADSET)	0X24 (36)	0X07 (7)



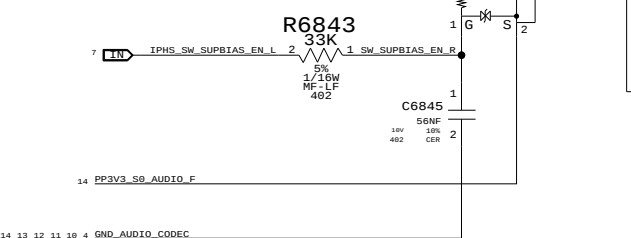
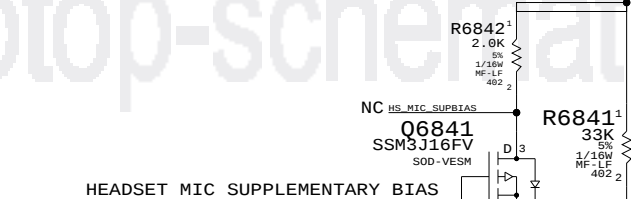
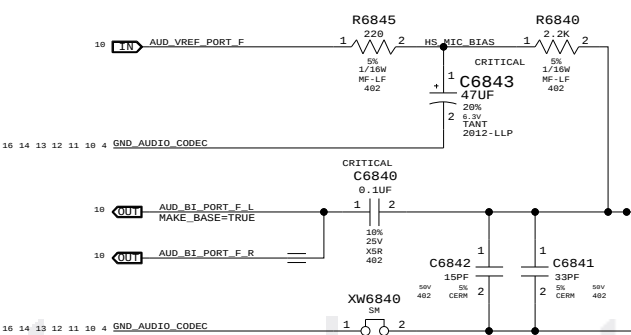
HEADSET SW INTERRUPT TO SOUTHBRIDGE



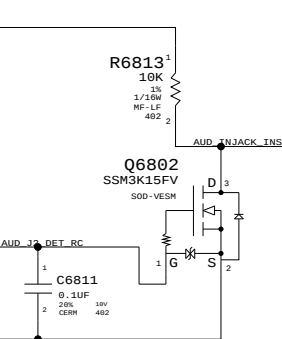
PORT E DETECT (SPDIF DELEGATE)



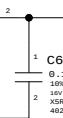
PORT F (HEADSET MIC)



Line-in (PORT C) DETECT



0/01/02



AUDIO: JACK TRANSLATORS

SYNCH MASTER+LEMO,INT7,AUG10

SYNCH DATE=18/05/2000

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APPLE INC.

SIZE
D

DRAWING NUMBER

REV.

D

051-7447

9.0.0

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SHT

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8	7	6	5	4	3	2	1
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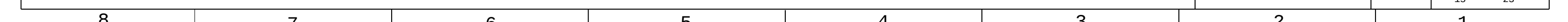


C



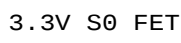
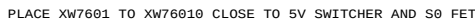
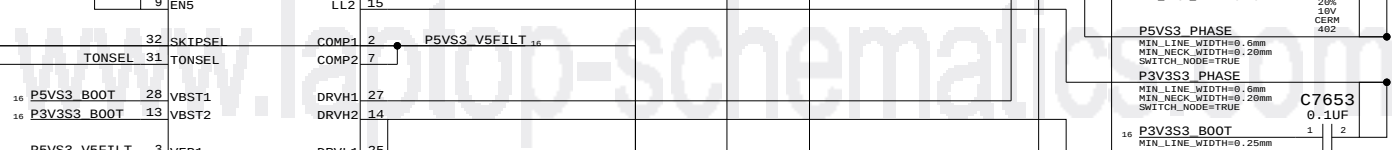
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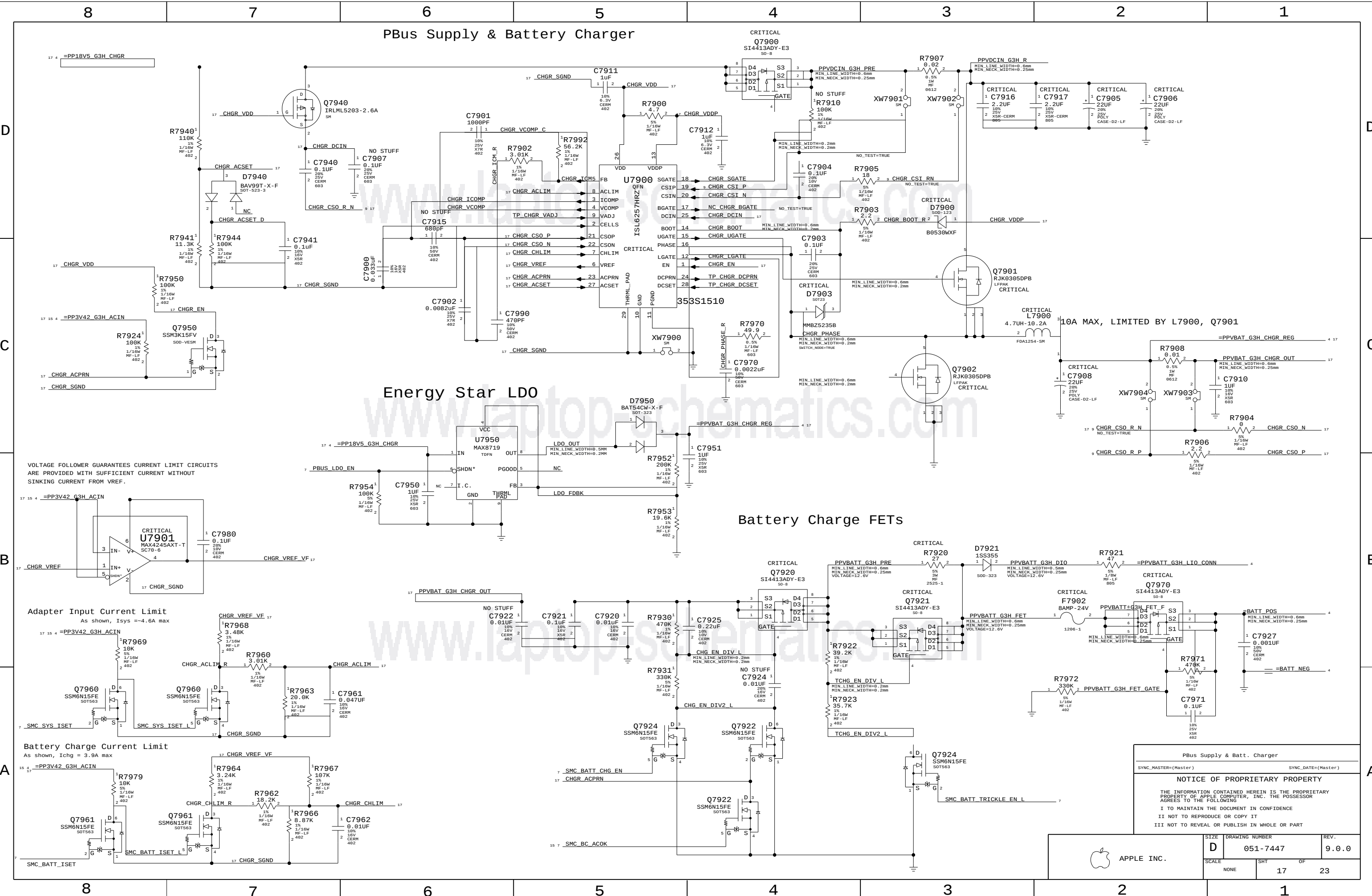
Left I/O Power Connector



 APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7447	9.0.0
	SCALE	SHT OF	
	NONE	15	23

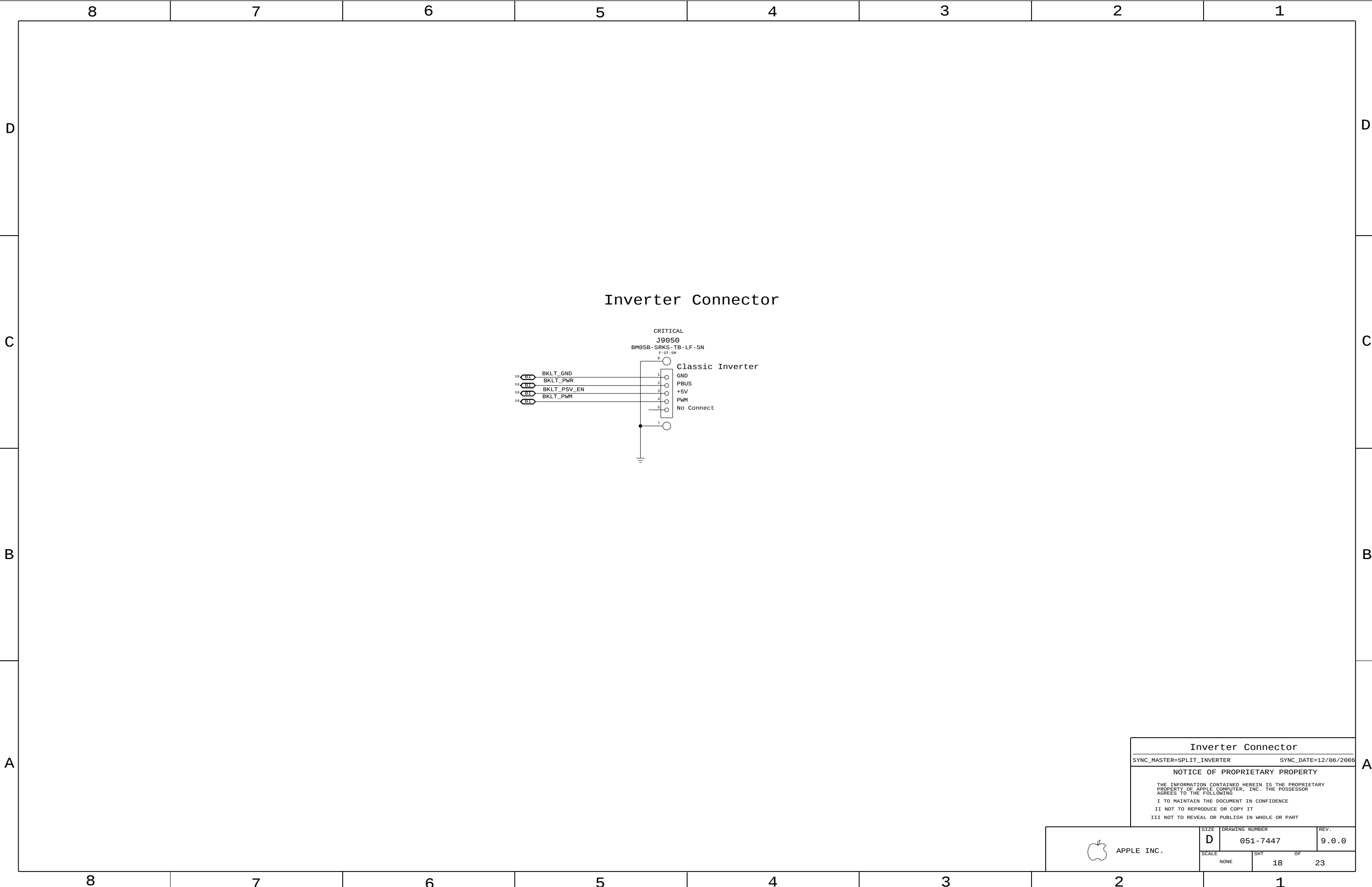
The schematic shows a power rail with two capacitors connected to it. On the left, capacitor C7620 (1uF) is connected to ground. On the right, capacitor C7625 (0.01uF) is connected to ground. The text 'CRITICAL' is placed above C7625. A watermark 'www.laptop-schematics.com' is visible across the top of the image.

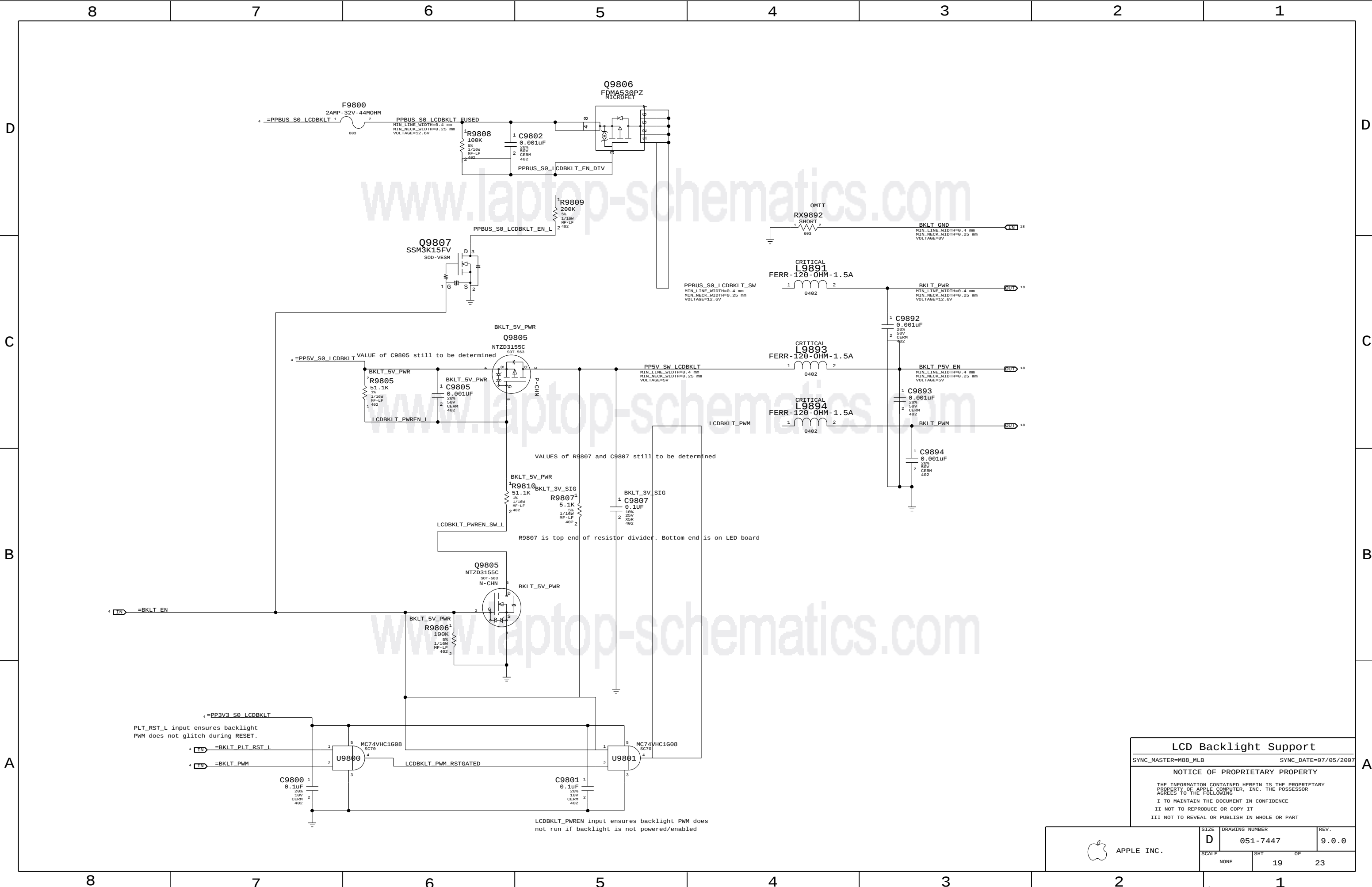
 APPLE INC.



 APPLE INC.	SIZE	DRAWING NUMBER		REV.
	D	051-7447		9.0.0
	SCALE	SHT	OF	
	NONE	17	23	







LCD Backlight Support

SYNC_MASTER=M88_MLBSYNC_DATE=07/05/2007

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	D	051-7447	9.0.0
SCALE		SHT	OF
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