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87654321

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.

CK APPDENG APPD

REVZONEECNDESCRIPTION OF CHANGE

DATE DATE

02262657ENGINEERING RELEASED02/19/03?

PAGECONTENTS

1TITLE PAGE AND CONTENTS

2PCB NOTES AND HOLES

3DC POWER INPUT

4USB I/O CONNECTOR (LEFT) &
ALS (LEFT)

5SNAPPER (AUDIO) CONTROL INTERFACE

6SPEAKER DRIVER

7HEADPHONE DRIVER

8MICROPHONE AMP. & LINE-IN AMP.

9SIGNAL & POWER CONSTRAINTS

10REVISION HISTORY

11SIGNAL LOCATIONS

12COMPONENT LOCATIONS

SICHEM,TT,Q16A

Mon Oct 27 19:25:53 2003

PART#QTYDESCRIPTIONREFERENCE DESIGNATOR(S)BOM OPTION

051-65721SCHEM,TT,Q16ASCH1

820-16021PCBF,TT,Q16APCB1

MATERIAL/FINISH NOTED AS APPLICABLESIZE DTHIRD ANGLE PROJECTION

METRIC

DRAFTERDESIGN CK

ENG APPDMFG APPD

QA APPDDESIGNER

RELEASESCALE NONE

DRAWING NUMBER051-6572REV.01

Apple Computer Inc.

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TITLE SCHEM,TT,Q16A

SHOOT 1 OF 12

87654321

PCB SPECS

THICKNESS : 1.2 MM / 0.047 IN
1/2 OZ CU THICKNESS: 0.7 MILS
1.0 OZ CU THICKNESS: 1.4 MILS

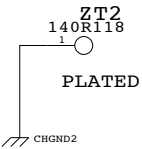
IMPEDANCE : 50 OHMS +/- 10%
DIELECTRIC: FR-4
LAYER COUNT: 10
SIGNAL TRACE WIDTH: 4 MILS
SIGNAL TRACE SPACING: 4 MILS
PREPREG THICKNESS: 3-6 MILS

SEE PCB CAD FILES FOR MORE SPECIFIC INFO.

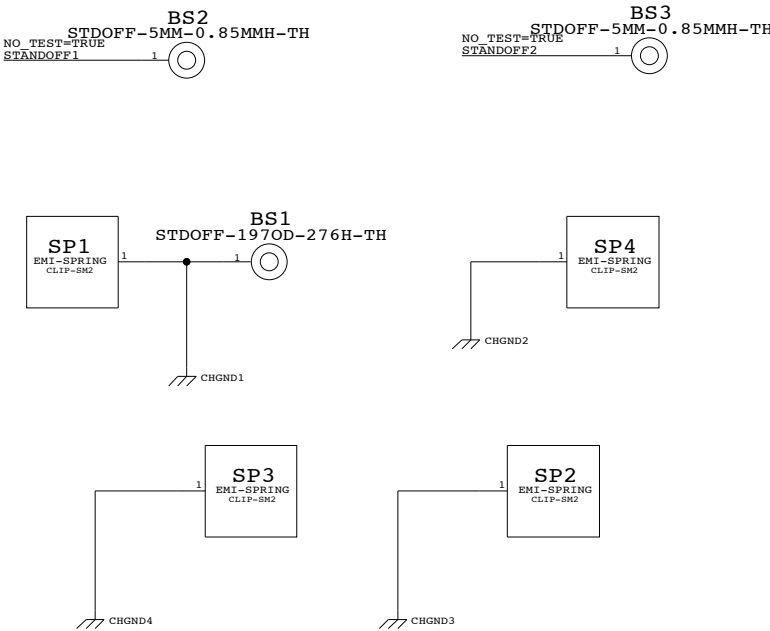
BOARD STACK-UP AND CONSTRUCTION

1	Micro Via (Blind) 20R10 TH Via	SIGNAL (1/2 OZ)
2	20R10 Buried Via	SIGNAL (1/2 OZ)
3		GROUND (1/2 OZ)
4		SIGNAL (1/2 OZ)
5		CUT POWER PLANE(DEFAULT 3V) POWER (1 OZ)
6		CUT POWER PLANE(DEFAULT 5V) POWER (1 OZ)
7		SIGNAL (1/2 OZ)
8		GROUND (1/2 OZ)
9		SIGNAL (1/2 OZ)
10		SIGNAL (1/2 OZ)

BOARD HOLES



PCB BOARD STANDOFFS / FINGER SPRINGS



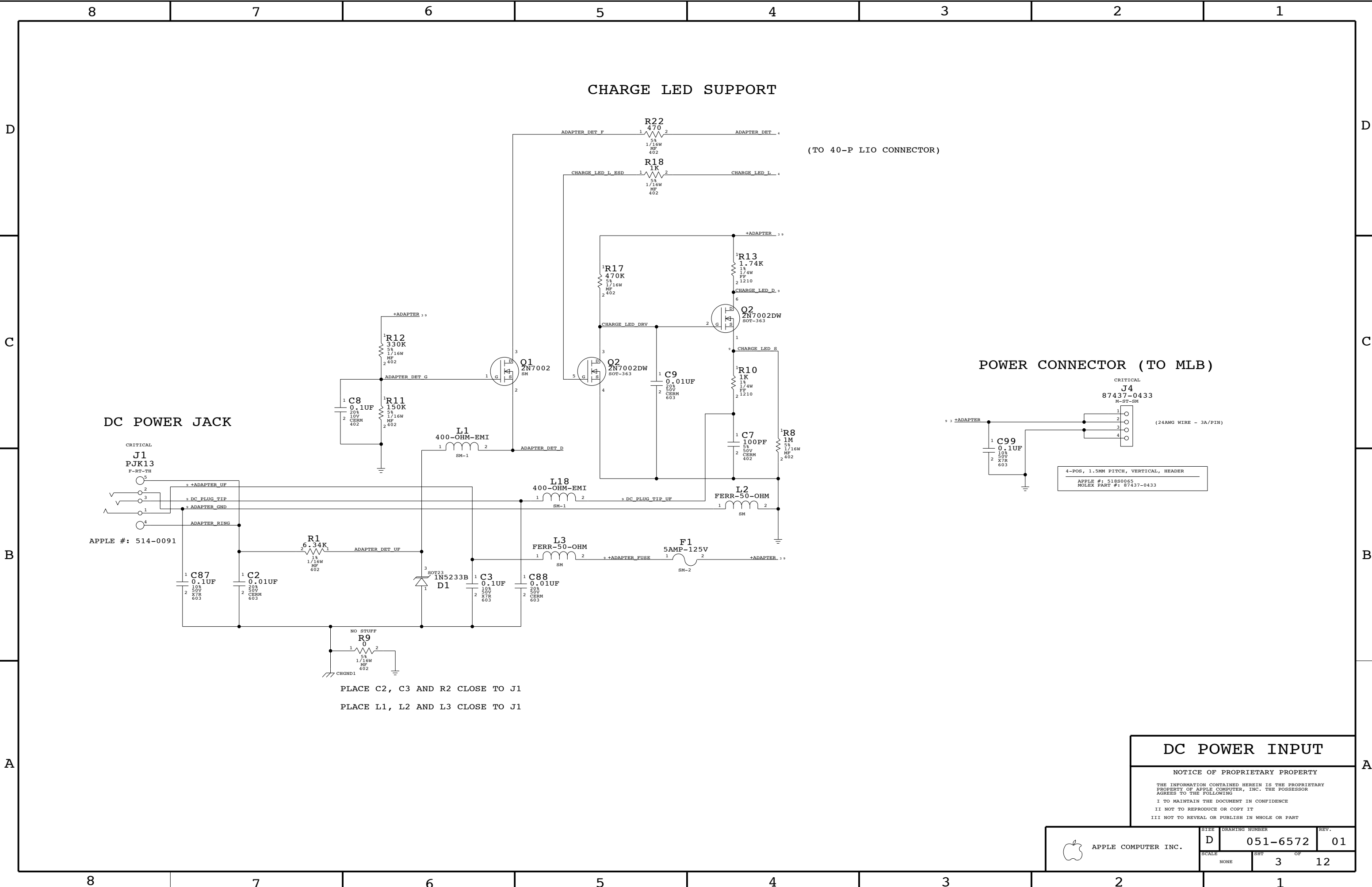
BOARD INFORMATION

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SIZE	DRAWING NUMBER	REV.
D	051-6572	01
SCALE	SHT	OF
NONE	2	12



DC POWER JACK

CHARGE LED SUPPORT

POWER CONNECTOR (TO MLB)

DC POWER INPUT

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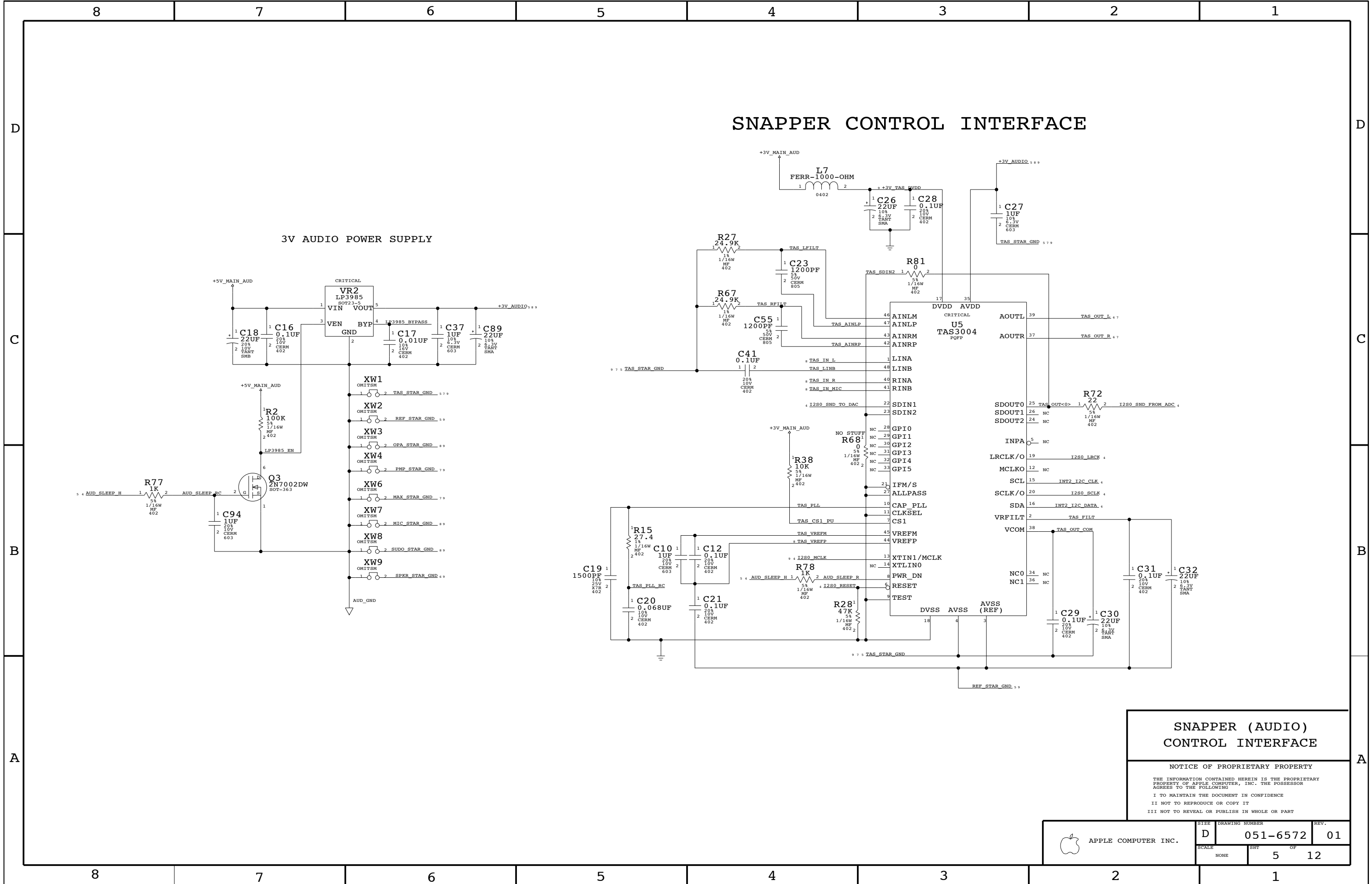


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SIZE DRAWING NUMBER REV.

D 051-6572 01

SCALE SHEET OF 12



SNAPPER (AUDIO) CONTROL INTERFACE

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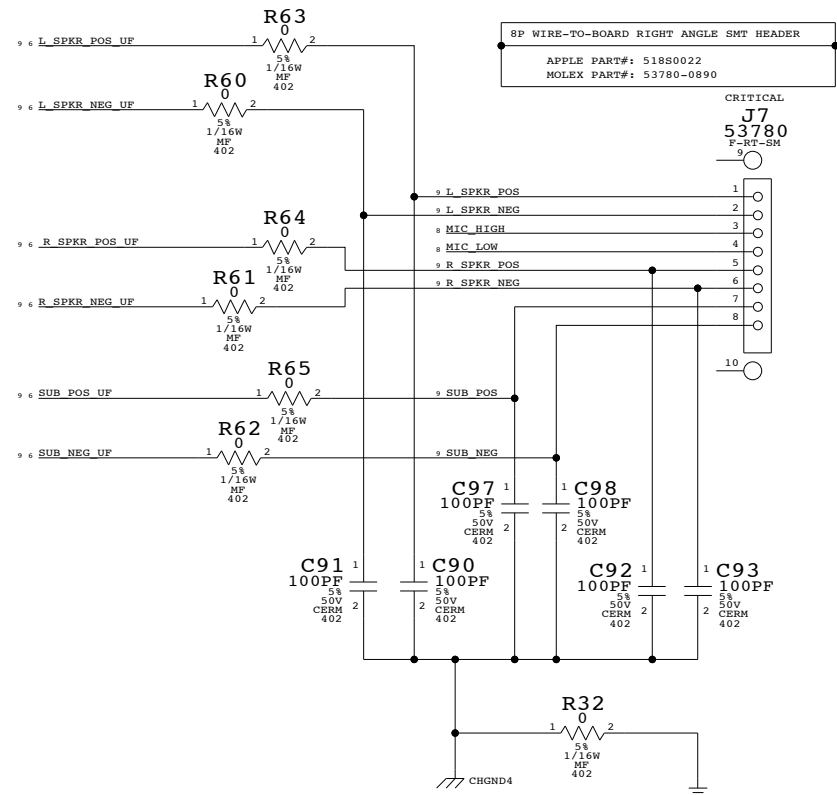
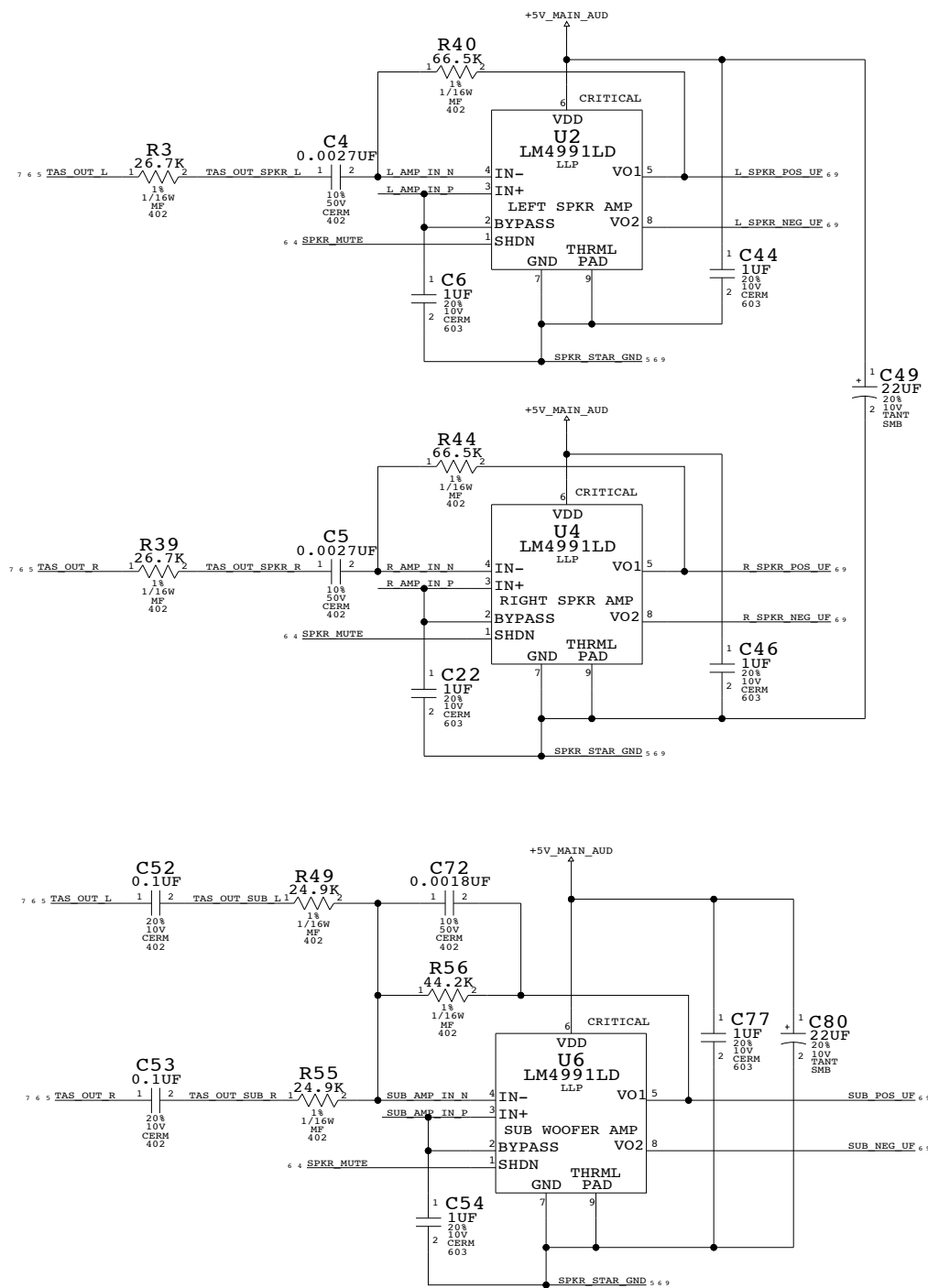
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D	051-6572	01
SCALE	SHT	OF
NONE	5	12

SPEAKER DRIVER



SPEAKER DRIVERS

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SIZE DRAWING NUMBER REV.

D 051-6572 01

SCALE NONE SHT 6 OF 12

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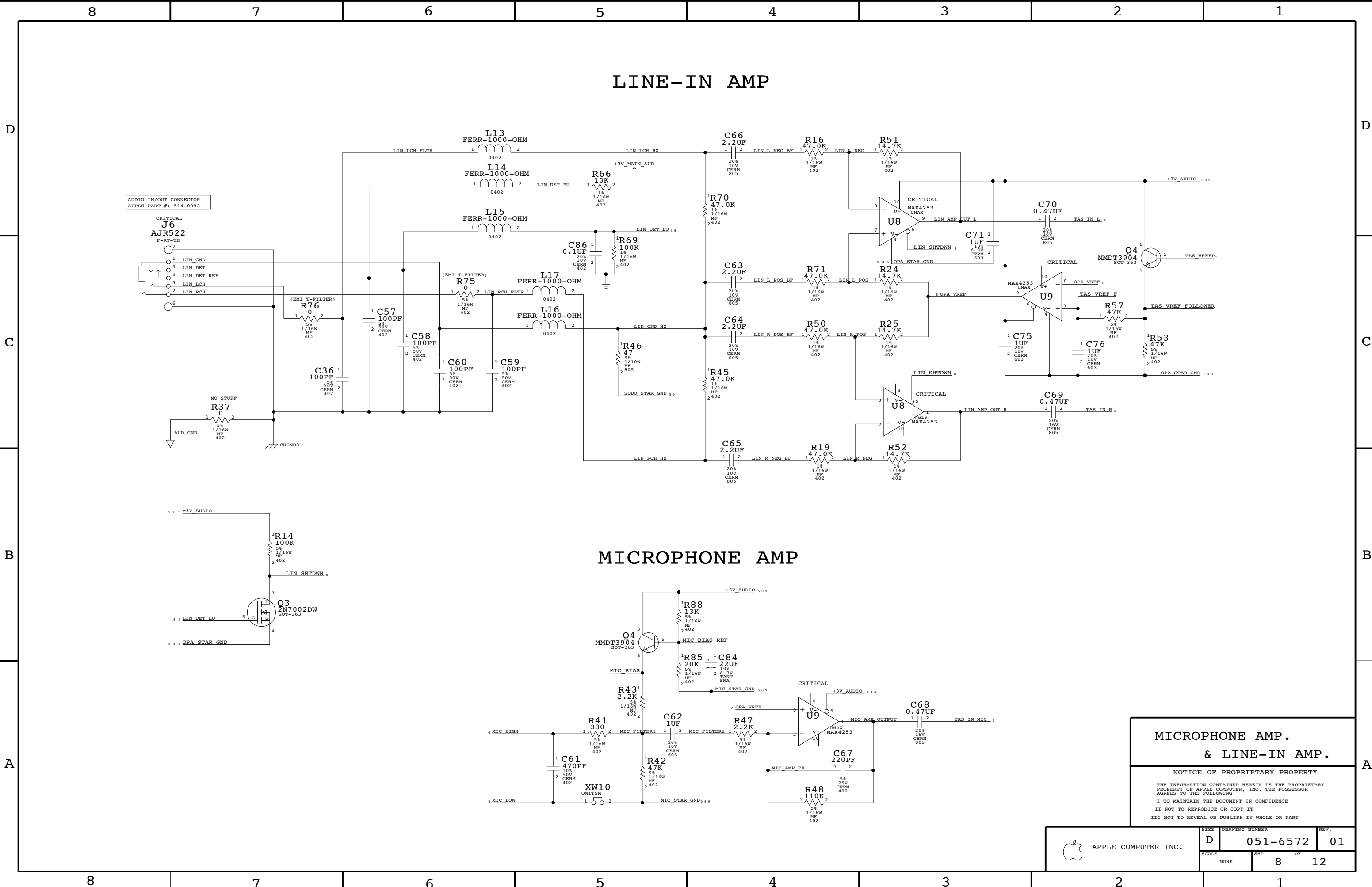
D

C

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LINE-IN AMP

MICROPHONE AMP

MICROPHONE AMP.
& LINE-IN AMP.

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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6572	01
SCALE		SHT	OF
NONE		8	12

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      LAYER 2 (STRIP LINES)
      E=3.8, W=5, H=3, T=0.7, S=12(IN MIL
      ZSINGLE = 45.0 OHM
      ZDIFF = 89.1 OHM

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SIZE	DRAWING NUMBER	REV.
D	051-6572	01
SCALE	SHT	OF
NONE	9	12

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REVISION HISTORY

(REV. 01) 10/27/2003 - SCHEMATIC ORIGINATED FROM Q16 LIO

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SIZE	DRAWING NUMBER	REV.
D	051-6572	0

SCALE	SHT	OF
NONE	10	12



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[illegible]

[illegible]