

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 |
|-----|------|--------|-----------------------|-----------------|------------------|
| B | | 358898 | PRODUCTION RELEASED | 01/07/05 | |

| PAGE | CONTENTS |
|------|---------------------------------------|
| 1 | TITLE PAGE AND CONTENTS |
| 2 | PCB NOTES AND HOLES |
| 3 | DC POWER INPUT |
| 4 | USB I/O CONNECTOR (LEFT) & ALS (LEFT) |
| 5 | SNAPPER (AUDIO) CONTROL INTERFACE |
| 6 | SPEAKER DRIVER |
| 7 | HEADPHONE DRIVER |
| 8 | MICROPHONE AMP. & LINE-IN AMP. |
| 9 | SIGNAL & POWER CONSTRAINTS |
| 10 | REVISION HISTORY |
| 11 | SIGNAL LOCATIONS |
| 12 | COMPONENT LOCATIONS |

SCHEM, LEFT I/O BRD, PB15 "

01/07/2005

| PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | BOM OPTION |
|----------|-----|---------------------------|-------------------------|------------|
| 051-6686 | 1 | SCHEM, LEFT I/O BRD, PB15 | SCH1 | |
| 820-1685 | 1 | PCBF, LEFT I/O BRD, PB15 | PCB1 | |

DIMENSIONS ARE IN MILLIMETERS


XX : _____

X.XX : _____

X.XXX : _____

ANGLES : _____


DO NOT SCALE DRAWING



THIRD ANGLE PROJECTION

METRIC

| | | | |
|-------------------------------------|---|-----------|------|
| DRAFTER | / | DESIGN CK | / |
| ENG APPD | / | MFG APPD | / |
| QA APPD | / | DESIGNER | / |
| RELEASE | / | SCALE | NONE |
| MATERIAL/FINISH NOTED AS APPLICABLE | | SIZE | D |

 Apple Computer Inc.

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TITLE

SCHEM, LEFT I/O BRD, PB15

DRAWING NUMBER

051-6686

REV.

B

SHT 1 OF 12

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

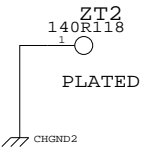
IMPEDANCE : 50 OHMS +/- 10%
DIELECTRIC: FR-4
LAYER COUNT: 10
SIGNAL TRACE WIDTH: 4 MILS
SIGNAL TRACE SPACING: 4 MILS
PREPREG THICKNESS: 3-6 MILS

SEE PCB CAD FILES FOR MORE SPECIFIC INFO.

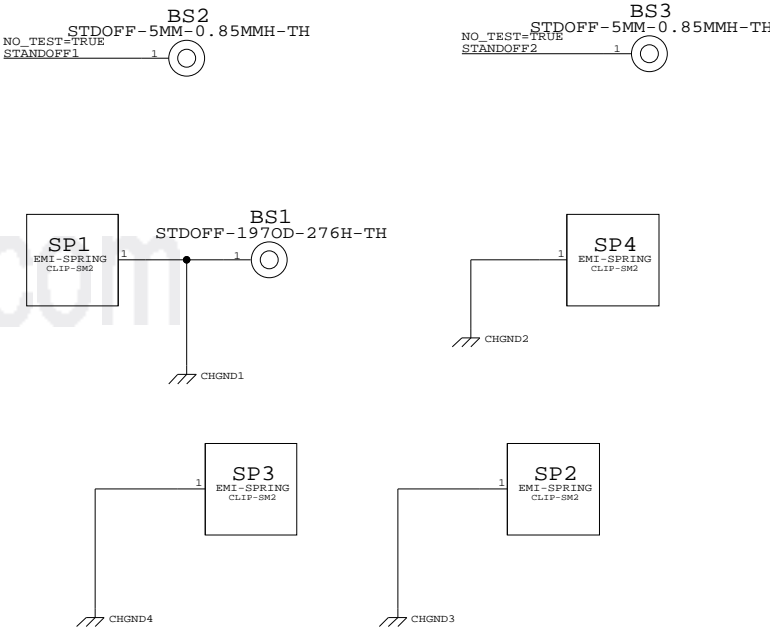
BOARD STACK-UP AND CONSTRUCTION

| | | |
|----|-----------------------------------|---|
| 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



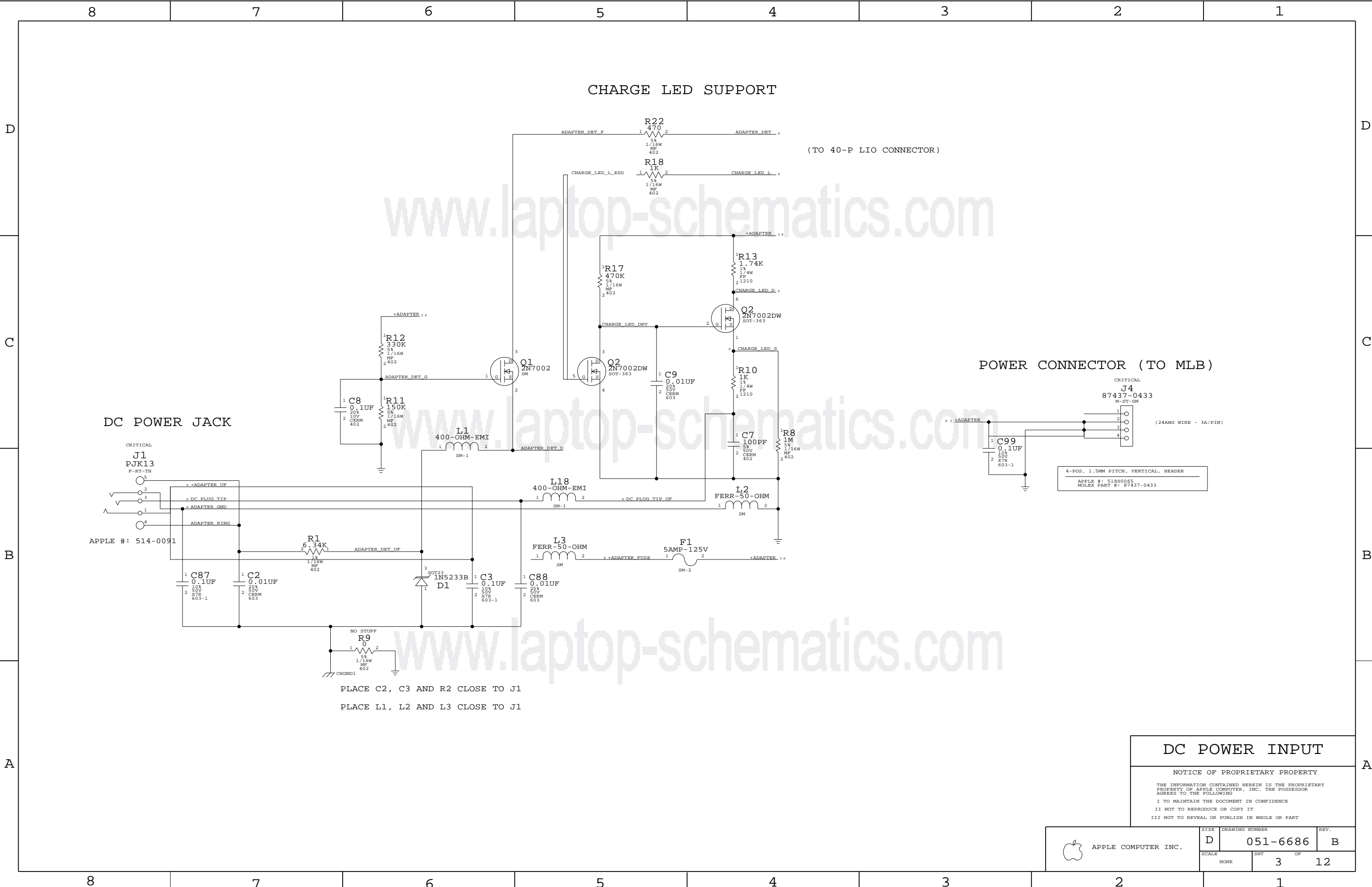
BOARD INFORMATION

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| SIZE | DRAWING NUMBER | REV. |
|-------|----------------|------|
| D | 051-6686 | B |
| SCALE | SHT | OF |
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CHARGE LED SUPPORT

POWER CONNECTOR (TO MLB)

DC POWER INPUT

NOTICE OF PROPRIETARY PROPERTY

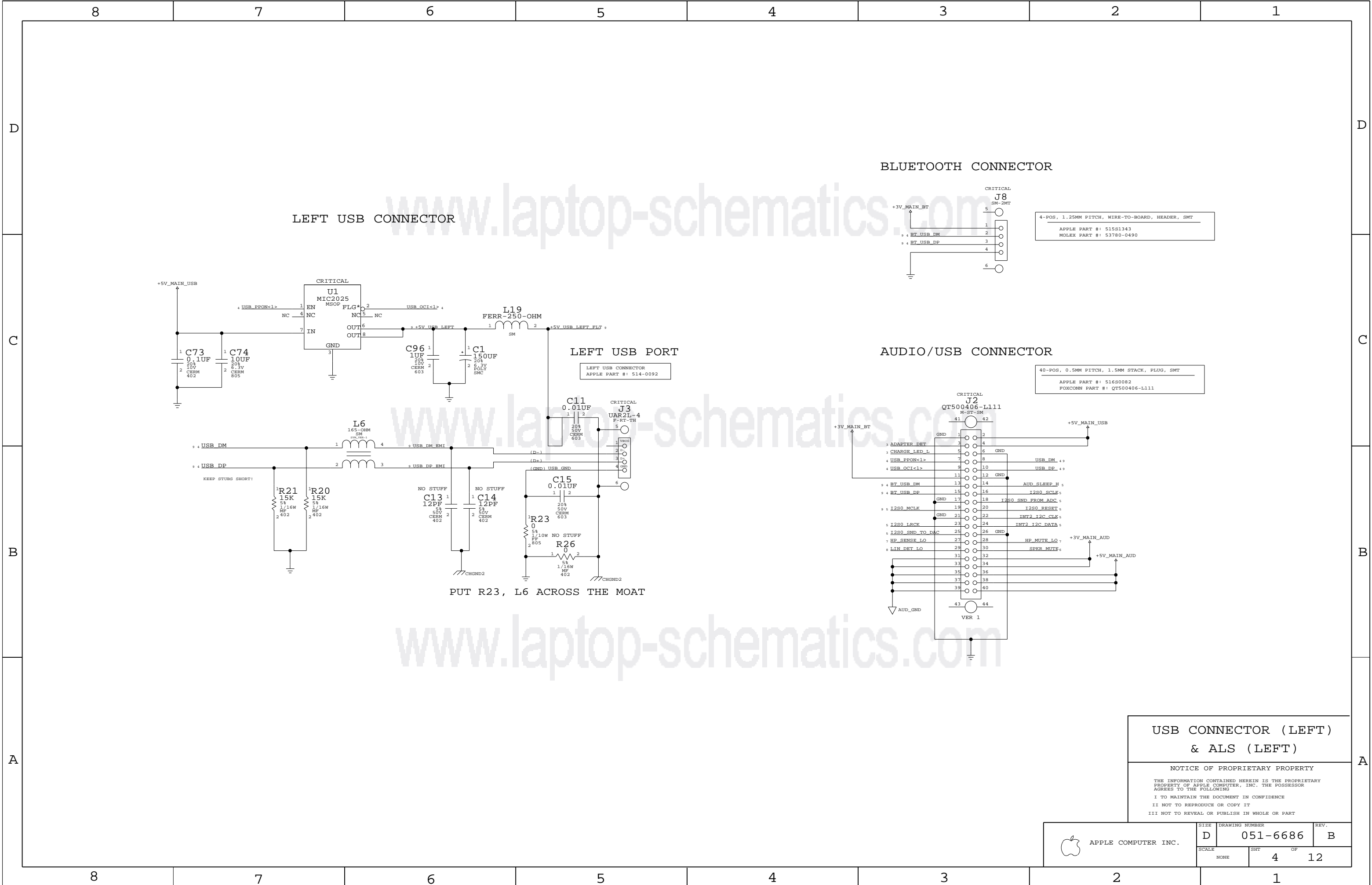
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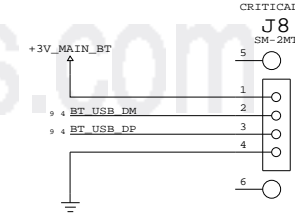
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LEFT USB CONNECTOR

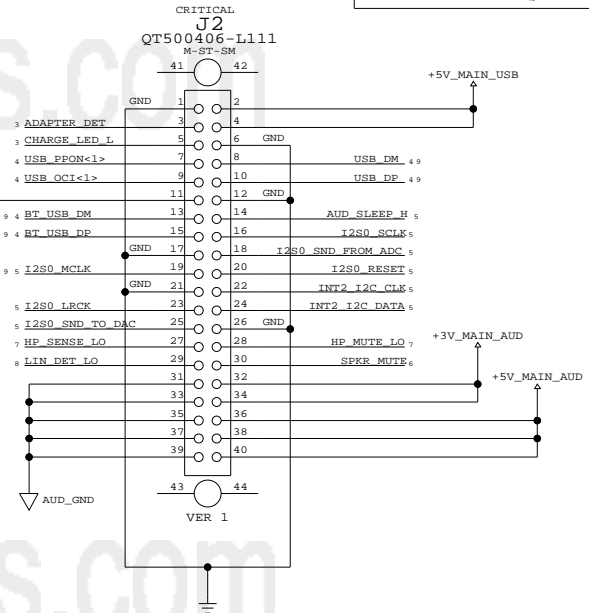
BLUETOOTH CONNECTOR



4-POS, 1.25MM PITCH, WIRE-TO-BOARD, HEADER, SMT
APPLE PART #: 515S1343
MOLEX PART #: 53780-0490

LEFT USB PORT

AUDIO/USB CONNECTOR

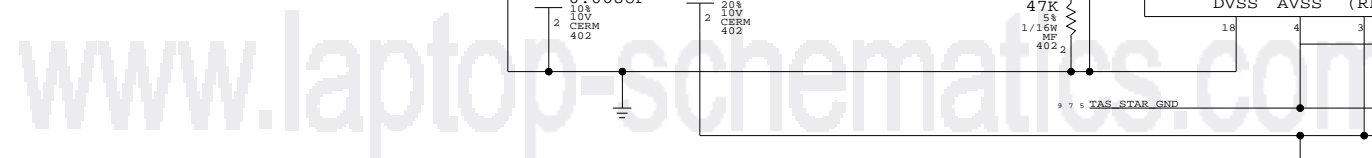


40-POS, 0.5MM PITCH, 1.5MM STACK, PLUG, SMT
APPLE PART #: 516S0082
FOXCONN PART #: QT500406-L111

USB CONNECTOR (LEFT)
& ALS (LEFT)

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SPEAKER DRIVER

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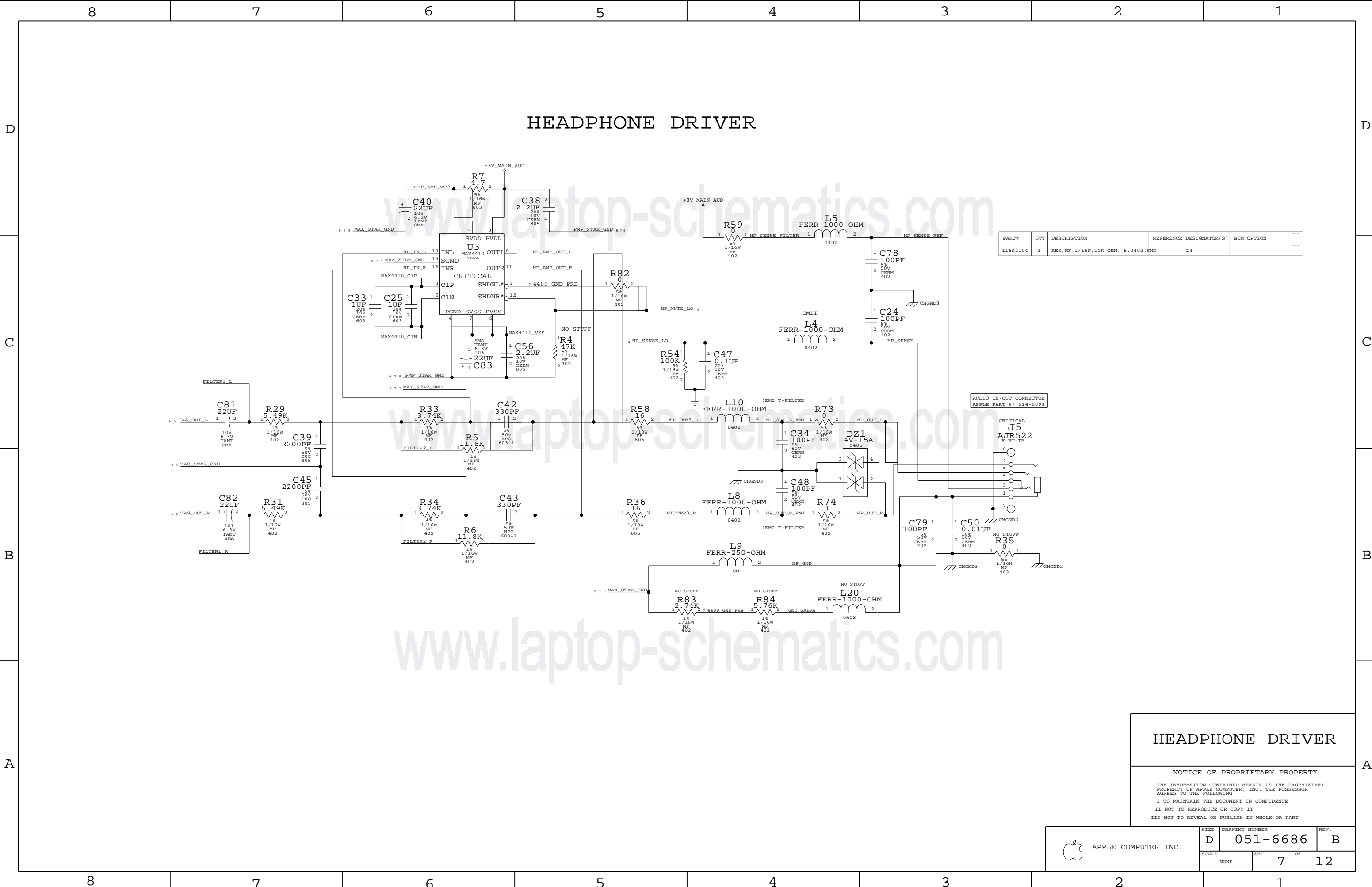
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HEADPHONE DRIVER

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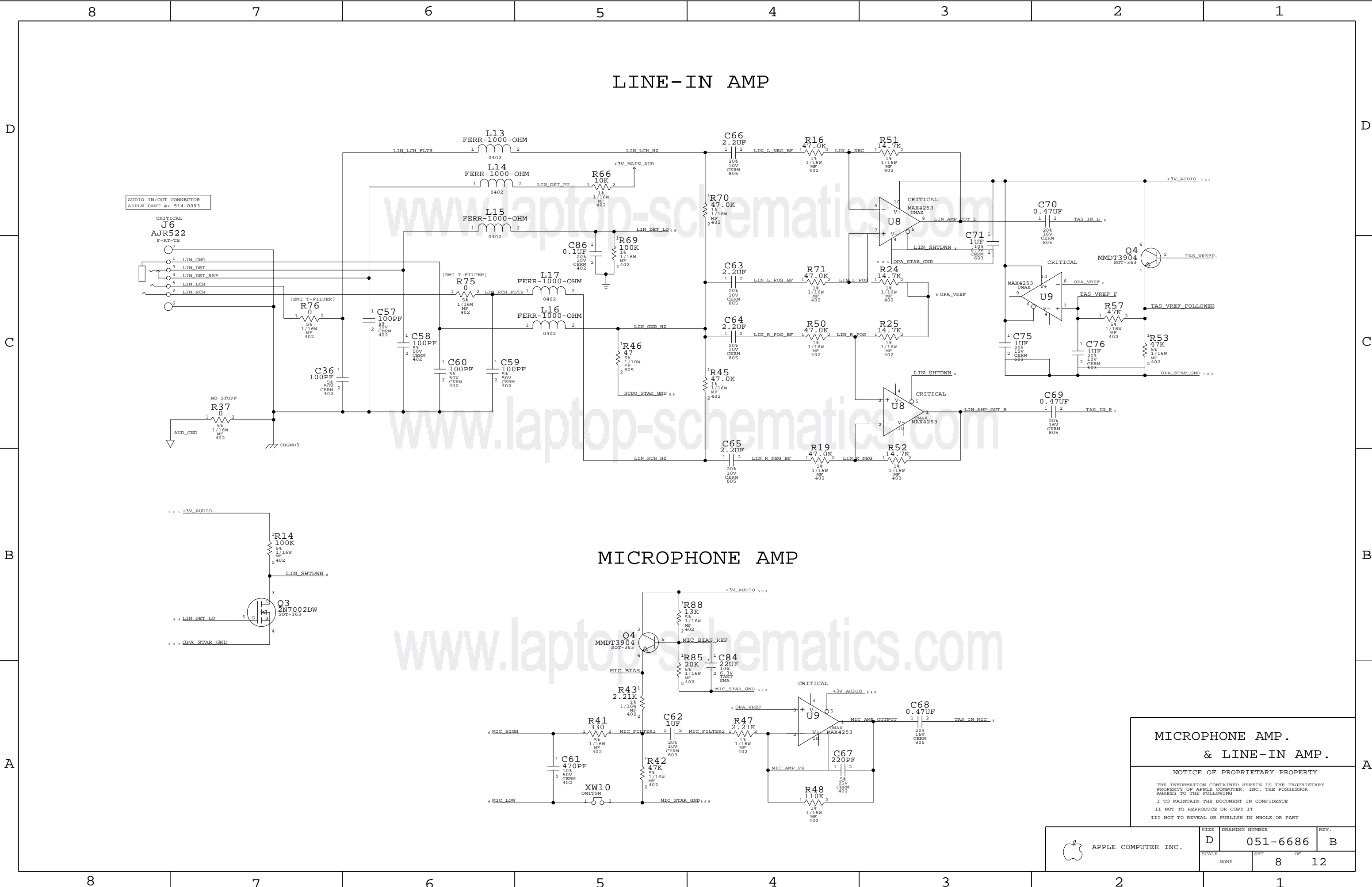
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| | D | 051-6686 | B |
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LINE-IN AMP

MICROPHONE AMP

MICROPHONE AMP.
& LINE-IN AMP.

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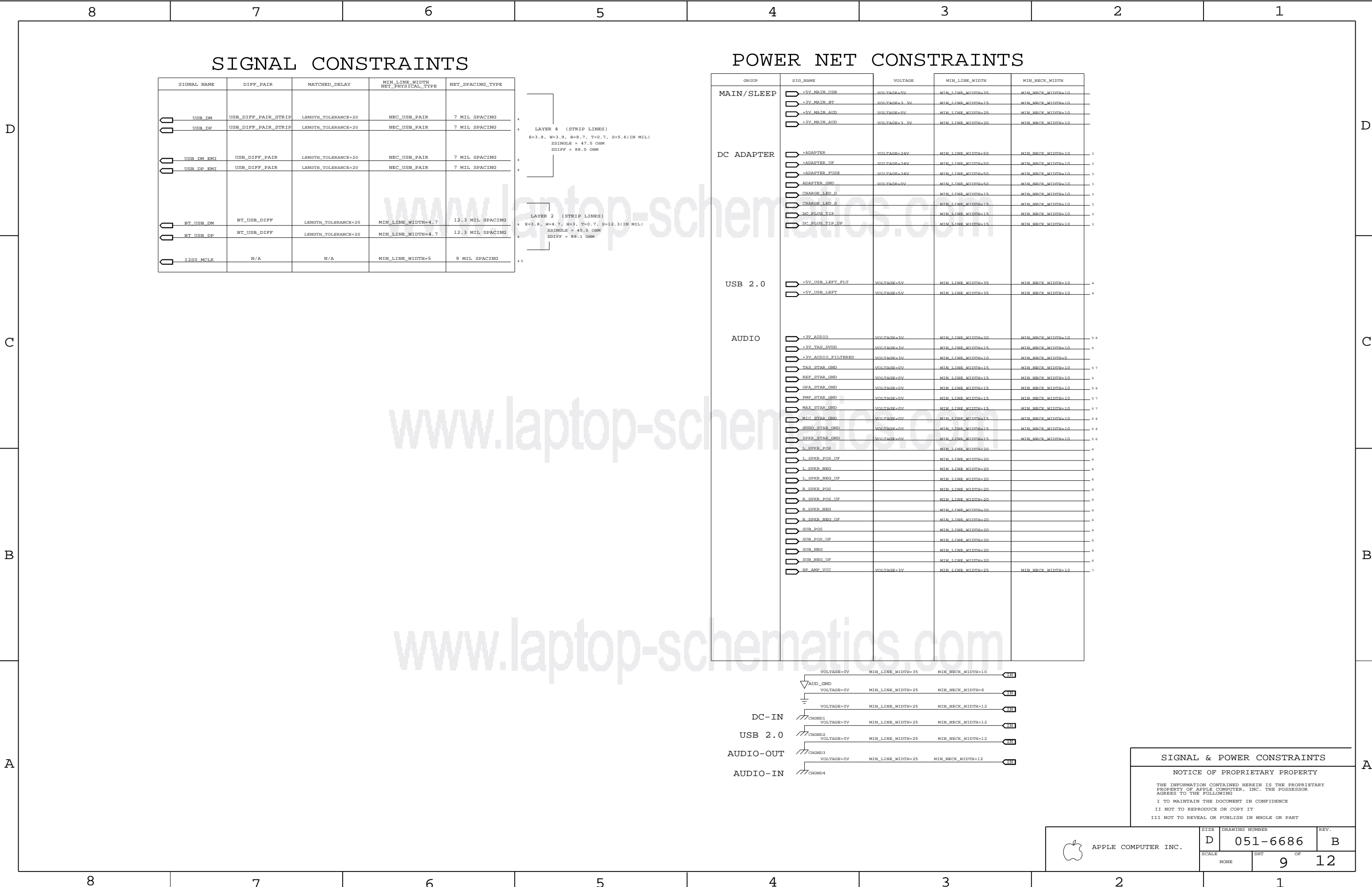
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| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| REVISION HISTORY | | | | | | | |
| <div>(REV. 01)07/07/2004 -SCHEMATIC ORIGINATED FROM Q16B L10</div> <div>(REV. A)12/17/2004 -SCHEMATIC RELEASE FOR PRODUCTION</div> | | | | | | | |
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| SCALE NONE | | | | | | SHT 10 | OF 12 |
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|------------------------------|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|
| D | *** Part Cross-Reference for the entire design *** | | | | | | | | | | | | | | |
| | R81 PCB_STANDOFF 2 | | | | | | | | | | | | | | |
| | C1 CAP_P 4 | | | | | | | | | | | | | | |
| | C2 CAP 3 | | | | | | | | | | | | | | |
| | C3 CAP 3 | | | | | | | | | | | | | | |
| | C4 CAP 6 | | | | | | | | | | | | | | |
| | C5 CAP 6 | | | | | | | | | | | | | | |
| | C6 CAP 6 | | | | | | | | | | | | | | |
| | C7 CAP 3 | | | | | | | | | | | | | | |
| | C8 CAP 3 | | | | | | | | | | | | | | |
| C | C9 CAP 3 | | | | | | | | | | | | | | |
| | C10 CAP 5 | | | | | | | | | | | | | | |
| | C11 CAP 4 | | | | | | | | | | | | | | |
| | C12 CAP 5 | | | | | | | | | | | | | | |
| | C13 CAP 4 | | | | | | | | | | | | | | |
| | C14 CAP 4 | | | | | | | | | | | | | | |
| | C15 CAP 4 | | | | | | | | | | | | | | |
| | C16 CAP 5 | | | | | | | | | | | | | | |
| | C17 CAP 5 | | | | | | | | | | | | | | |
| | C18 CAP_P 5 | | | | | | | | | | | | | | |
| B | C19 CAP 5 | | | | | | | | | | | | | | |
| | C20 CAP 5 | | | | | | | | | | | | | | |
| | C21 CAP 5 | | | | | | | | | | | | | | |
| | C22 CAP 6 | | | | | | | | | | | | | | |
| | C23 CAP 5 | | | | | | | | | | | | | | |
| | C24 CAP 7 | | | | | | | | | | | | | | |
| | C25 CAP 7 | | | | | | | | | | | | | | |
| | C26 CAP_P 5 | | | | | | | | | | | | | | |
| | C27 CAP 5 | | | | | | | | | | | | | | |
| | C28 CAP 5 | | | | | | | | | | | | | | |
| A | C29 CAP 5 | | | | | | | | | | | | | | |
| | C30 CAP_P 5 | | | | | | | | | | | | | | |
| | C31 CAP 5 | | | | | | | | | | | | | | |
| | C32 CAP_P 5 | | | | | | | | | | | | | | |
| | C33 CAP 7 | | | | | | | | | | | | | | |
| | C34 CAP 7 | | | | | | | | | | | | | | |
| | C36 CAP 8 | | | | | | | | | | | | | | |
| | C37 CAP 5 | | | | | | | | | | | | | | |
| | C38 CAP 7 | | | | | | | | | | | | | | |
| | C39 CAP 7 | | | | | | | | | | | | | | |
| C40 CAP_P 7 | | | | | | | | | | | | | | | |
| C41 CAP 5 | | | | | | | | | | | | | | | |
| C42 CAP 7 | | | | | | | | | | | | | | | |
| C43 CAP 7 | | | | | | | | | | | | | | | |
| C44 CAP 6 | | | | | | | | | | | | | | | |
| C45 CAP 7 | | | | | | | | | | | | | | | |
| C46 CAP 6 | | | | | | | | | | | | | | | |
| C47 CAP 7 | | | | | | | | | | | | | | | |
| C48 CAP 7 | | | | | | | | | | | | | | | |
| C49 CAP_P 6 | | | | | | | | | | | | | | | |
| C50 CAP 7 | | | | | | | | | | | | | | | |
| C52 CAP 6 | | | | | | | | | | | | | | | |
| C53 CAP 6 | | | | | | | | | | | | | | | |
| C54 CAP 6 | | | | | | | | | | | | | | | |
| C55 CAP 5 | | | | | | | | | | | | | | | |
| C56 CAP 7 | | | | | | | | | | | | | | | |
| C57 CAP 8 | | | | | | | | | | | | | | | |
| C58 CAP 8 | | | | | | | | | | | | | | | |
| C59 CAP 8 | | | | | | | | | | | | | | | |
| C60 CAP 8 | | | | | | | | | | | | | | | |
| C61 CAP 8 | | | | | | | | | | | | | | | |
| C62 CAP 8 | | | | | | | | | | | | | | | |
| C63 CAP 8 | | | | | | | | | | | | | | | |
| C64 CAP 8 | | | | | | | | | | | | | | | |
| C65 CAP 8 | | | | | | | | | | | | | | | |
| C66 CAP 8 | | | | | | | | | | | | | | | |
| C67 CAP 8 | | | | | | | | | | | | | | | |
| C68 CAP 8 | | | | | | | | | | | | | | | |
| C69 CAP 8 | | | | | | | | | | | | | | | |
| C70 CAP 8 | | | | | | | | | | | | | | | |
| C71 CAP 8 | | | | | | | | | | | | | | | |
| C72 CAP 6 | | | | | | | | | | | | | | | |
| C73 CAP 4 | | | | | | | | | | | | | | | |
| C74 CAP 4 | | | | | | | | | | | | | | | |
| C75 CAP 8 | | | | | | | | | | | | | | | |
| C76 CAP 8 | | | | | | | | | | | | | | | |
| C77 CAP 6 | | | | | | | | | | | | | | | |
| C78 CAP 7 | | | | | | | | | | | | | | | |
| C79 CAP 7 | | | | | | | | | | | | | | | |
| C80 CAP_P 6 | | | | | | | | | | | | | | | |
| C81 CAP_P 7 | | | | | | | | | | | | | | | |
| C82 CAP_P 7 | | | | | | | | | | | | | | | |
| C83 CAP_P 7 | | | | | | | | | | | | | | | |
| C84 CAP_P 8 | | | | | | | | | | | | | | | |
| C86 CAP 8 | | | | | | | | | | | | | | | |
| C87 CAP 3 | | | | | | | | | | | | | | | |
| C88 CAP 3 | | | | | | | | | | | | | | | |
| C89 CAP_P 5 | | | | | | | | | | | | | | | |
| C90 CAP 6 | | | | | | | | | | | | | | | |
| C91 CAP 6 | | | | | | | | | | | | | | | |
| C92 CAP 6 | | | | | | | | | | | | | | | |
| C93 CAP 6 | | | | | | | | | | | | | | | |
| C94 CAP 5 | | | | | | | | | | | | | | | |
| C96 CAP 4 | | | | | | | | | | | | | | | |
| C97 CAP 6 | | | | | | | | | | | | | | | |
| C98 CAP 6 | | | | | | | | | | | | | | | |
| C99 CAP 3 | | | | | | | | | | | | | | | |
| D1 ZENER 3 | | | | | | | | | | | | | | | |
| D21 SUPPRESS_TRANSIENT_491 7 | | | | | | | | | | | | | | | |
| F1 FUSE 3 | | | | | | | | | | | | | | | |
| J1 CON_PSWRT_S2MT_TH3 3 | | | | | | | | | | | | | | | |
| J2 CON_M4DDT_INMT_SM 4 | | | | | | | | | | | | | | | |
| J3 CON_P4RT_USB_S2MT_TH 4 | | | | | | | | | | | | | | | |
| J4 CON_M4RT_S_SW 3 | | | | | | | | | | | | | | | |
| J5 CON_PSWRT_S2MT_TH2 7 | | | | | | | | | | | | | | | |
| J6 CON_PSWRT_S2MT_TH2 8 | | | | | | | | | | | | | | | |
| J7 CON_PSWRT_S2MT_SM 6 | | | | | | | | | | | | | | | |
| J8 CON_4RT_MRTB 4 | | | | | | | | | | | | | | | |
| L1 IND 3 | | | | | | | | | | | | | | | |
| L2 IND 3 | | | | | | | | | | | | | | | |
| L3 IND 3 | | | | | | | | | | | | | | | |
| L4 IND 7 | | | | | | | | | | | | | | | |
| L5 IND 7 | | | | | | | | | | | | | | | |
| L6 FILTER_49 4 | | | | | | | | | | | | | | | |
| L7 IND 5 | | | | | | | | | | | | | | | |
| L8 IND 7 | | | | | | | | | | | | | | | |
| L9 IND 7 | | | | | | | | | | | | | | | |
| L10 IND 7 | | | | | | | | | | | | | | | |
| L13 IND 8 | | | | | | | | | | | | | | | |
| L14 IND 8 | | | | | | | | | | | | | | | |
| L15 IND 8 | | | | | | | | | | | | | | | |
| L16 IND 8 | | | | | | | | | | | | | | | |
| L17 IND 8 | | | | | | | | | | | | | | | |
| L18 IND 3 | | | | | | | | | | | | | | | |
| L19 IND 4 | | | | | | | | | | | | | | | |
| L20 IND 7 | | | | | | | | | | | | | | | |
| Q1 TRA_2N7002 3 | | | | | | | | | | | | | | | |
| Q2 TRA_2N7002DM 3 | | | | | | | | | | | | | | | |
| Q3 TRA_2N7002DM 5 8 | | | | | | | | | | | | | | | |
| Q4 TRA_DUAL_3M073904 8 | | | | | | | | | | | | | | | |
| R1 RES 3 | | | | | | | | | | | | | | | |
| R2 RES 5 | | | | | | | | | | | | | | | |
| R3 RES 6 | | | | | | | | | | | | | | | |
| R4 RES 7 | | | | | | | | | | | | | | | |
| R5 RES 7 | | | | | | | | | | | | | | | |
| R6 RES 7 | | | | | | | | | | | | | | | |
| R7 RES 7 | | | | | | | | | | | | | | | |
| R8 RES 3 | | | | | | | | | | | | | | | |
| R9 RES 3 | | | | | | | | | | | | | | | |
| R10 RES 3 | | | | | | | | | | | | | | | |
| R11 RES 3 | | | | | | | | | | | | | | | |
| R12 RES 3 | | | | | | | | | | | | | | | |
| R13 RES 3 | | | | | | | | | | | | | | | |
| R14 RES 8 | | | | | | | | | | | | | | | |
| R15 RES 5 | | | | | | | | | | | | | | | |
| R16 RES 8 | | | | | | | | | | | | | | | |
| R17 RES 3 | | | | | | | | | | | | | | | |
| R18 RES 3 | | | | | | | | | | | | | | | |
| R19 RES 8 | | | | | | | | | | | | | | | |
| R20 RES 4 | | | | | | | | | | | | | | | |
| R21 RES 4 | | | | | | | | | | | | | | | |
| R22 RES 3 | | | | | | | | | | | | | | | |
| R23 RES 4 | | | | | | | | | | | | | | | |
| R24 RES 8 | | | | | | | | | | | | | | | |
| R25 RES 8 | | | | | | | | | | | | | | | |
| R26 RES 4 | | | | | | | | | | | | | | | |
| R27 RES 5 | | | | | | | | | | | | | | | |
| R28 RES 5 | | | | | | | | | | | | | | | |
| R29 RES 7 | | | | | | | | | | | | | | | |
| R31 RES 7 | | | | | | | | | | | | | | | |
| R32 RES 6 | | | | | | | | | | | | | | | |
| R33 RES 7 | | | | | | | | | | | | | | | |
| R34 RES 7 | | | | | | | | | | | | | | | |
| R35 RES 7 | | | | | | | | | | | | | | | |
| R36 RES 7 | | | | | | | | | | | | | | | |
| R37 RES 8 | | | | | | | | | | | | | | | |
| R38 RES 5 | | | | | | | | | | | | | | | |
| R39 RES 6 | | | | | | | | | | | | | | | |
| R40 RES 6 | | | | | | | | | | | | | | | |
| R41 RES 8 | | | | | | | | | | | | | | | |
| R42 RES 8 | | | | | | | | | | | | | | | |
| R43 RES 8 | | | | | | | | | | | | | | | |
| R44 RES 6 | | | | | | | | | | | | | | | |
| R45 RES 8 | | | | | | | | | | | | | | | |
| R46 RES 8 | | | | | | | | | | | | | | | |
| R47 RES 8 | | | | | | | | | | | | | | | |
| R48 RES 8 | | | | | | | | | | | | | | | |
| R49 RES 6 | | | | | | | | | | | | | | | |
| R50 RES 8 | | | | | | | | | | | | | | | |
| R51 RES 8 | | | | | | | | | | | | | | | |
| R52 RES 8 | | | | | | | | | | | | | | | |
| R53 RES 8 | | | | | | | | | | | | | | | |
| R54 RES 7 | | | | | | | | | | | | | | | |
| R55 RES 6 | | | | | | | | | | | | | | | |
| R56 RES 6 | | | | | | | | | | | | | | | |
| R57 RES 8 | | | | | | | | | | | | | | | |
| R58 RES 7 | | | | | | | | | | | | | | | |
| R59 RES 7 | | | | | | | | | | | | | | | |
| R60 RES 6 | | | | | | | | | | | | | | | |
| R61 RES 6 | | | | | | | | | | | | | | | |
| R62 RES 6 | | | | | | | | | | | | | | | |
| R63 RES 6 | | | | | | | | | | | | | | | |
| R64 RES 6 | | | | | | | | | | | | | | | |
| R65 RES 6 | | | | | | | | | | | | | | | |
| R66 RES 8 | | | | | | | | | | | | | | | |
| R67 RES 5 | | | | | | | | | | | | | | | |
| R68 RES 5 | | | | | | | | | | | | | | | |
| R69 RES 8 | | | | | | | | | | | | | | | |
| R70 RES 8 | | | | | | | | | | | | | | | |
| R71 RES 8 | | | | | | | | | | | | | | | |
| R72 RES 5 | | | | | | | | | | | | | | | |
| R73 RES 7 | | | | | | | | | | | | | | | |
| R74 RES 7 | | | | | | | | | | | | | | | |
| R75 RES 8 | | | | | | | | | | | | | | | |
| R76 RES 8 | | | | | | | | | | | | | | | |
| R77 RES 5 | | | | | | | | | | | | | | | |
| R78 RES 5 | | | | | | | | | | | | | | | |
| R81 RES 5 | | | | | | | | | | | | | | | |
| R82 RES 7 | | | | | | | | | | | | | | | |
| R83 RES 7 | | | | | | | | | | | | | | | |
| R84 RES 7 | | | | | | | | | | | | | | | |
| R85 RES 8 | | | | | | | | | | | | | | | |
| R88 RES 8 | | | | | | | | | | | | | | | |
| SP1 SPRING_CLIP_1P_EMI 2 | | | | | | | | | | | | | | | |
| SP2 SPRING_CLIP_1P_EMI 2 | | | | | | | | | | | | | | | |
| SP3 SPRING_CLIP_1P_EMI 2 | | | | | | | | | | | | | | | |
| SP4 SPRING_CLIP_1P_EMI 2 | | | | | | | | | | | | | | | |
| U1 SWT_MIC2025 4 | | | | | | | | | | | | | | | |
| U2 AUDIO_1M4991LD 6 | | | | | | | | | | | | | | | |
| U3 MAX4410 7 | | | | | | | | | | | | | | | |
| U4 AUDIO_1M4991LD 6 | | | | | | | | | | | | | | | |
| U5 TAS3004 5 | | | | | | | | | | | | | | | |
| U6 AUDIO_1M4991LD 6 | | | | | | | | | | | | | | | |
| U8 OPAMP_MAX4253 8 | | | | | | | | | | | | | | | |
| U9 OPAMP_MAX4253 8 | | | | | | | | | | | | | | | |
| VRS2 VRS2_1D3985 5 | | | | | | | | | | | | | | | |
| XW1 SHORT 5 | | | | | | | | | | | | | | | |
| XW2 SHORT 5 | | | | | | | | | | | | | | | |
| XW3 SHORT 5 | | | | | | | | | | | | | | | |
| XW4 SHORT 5 | | | | | | | | | | | | | | | |
| XW6 SHORT 5 | | | | | | | | | | | | | | | |
| XW7 SHORT 5 | | | | | | | | | | | | | | | |
| XW8 SHORT 5 | | | | | | | | | | | | | | | |
| XW9 SHORT 5 | | | | | | | | | | | | | | | |
| XW10 SHORT 8 | | | | | | | | | | | | | | | |
| ZT2 MTOHOLE 2 | | | | | | | | | | | | | | | |

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