



8

7

6

5

4

3

2

1

D

C

B

A

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: 12

SIGNAL TRACE WIDTH: 4 MILS

SIGNAL TRACE SPACING: 4 MILS

PREPREG THICKNESS: 2-3 MILS

SEE PCB CAD FILES FOR MORE SPECIFIC INFO.

BOARD STACK-UP AND CONSTRUCTION

1

2

3

4

5

6

7

8

9

10

11

12

20R10 TH VIA OR VIA IN PAD

SIGNAL (1/3 OZ + COPPER PLATING)

GROUND (1/2 OZ)

SIGNAL (1/2 OZ)

SIGNAL (1/2 OZ)

GROUND (1/2 OZ)

CUT POWER PLANE(1 OZ)

CUT POWER PLANE(1 OZ)

GROUND (1/2 OZ)

SIGNAL (1/2 OZ)

SIGNAL (1/2 OZ)

GROUND (1/2 OZ)

SIGNAL (1/3 OZ + COPPER PLATING)

BOARD HOLES

14

ZT1

195R106

PLATED

1

PCB BOARD STANDOFFS

BOARD INFORMATION

NOTICE OF PROPRIETARY PROPERTY

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II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE COMPUTER INC.

SIZE

D

DRAWING NUMBER

405671

REV.

AA

SCALE

NONE

SHT

2

OF

9

8

7

6

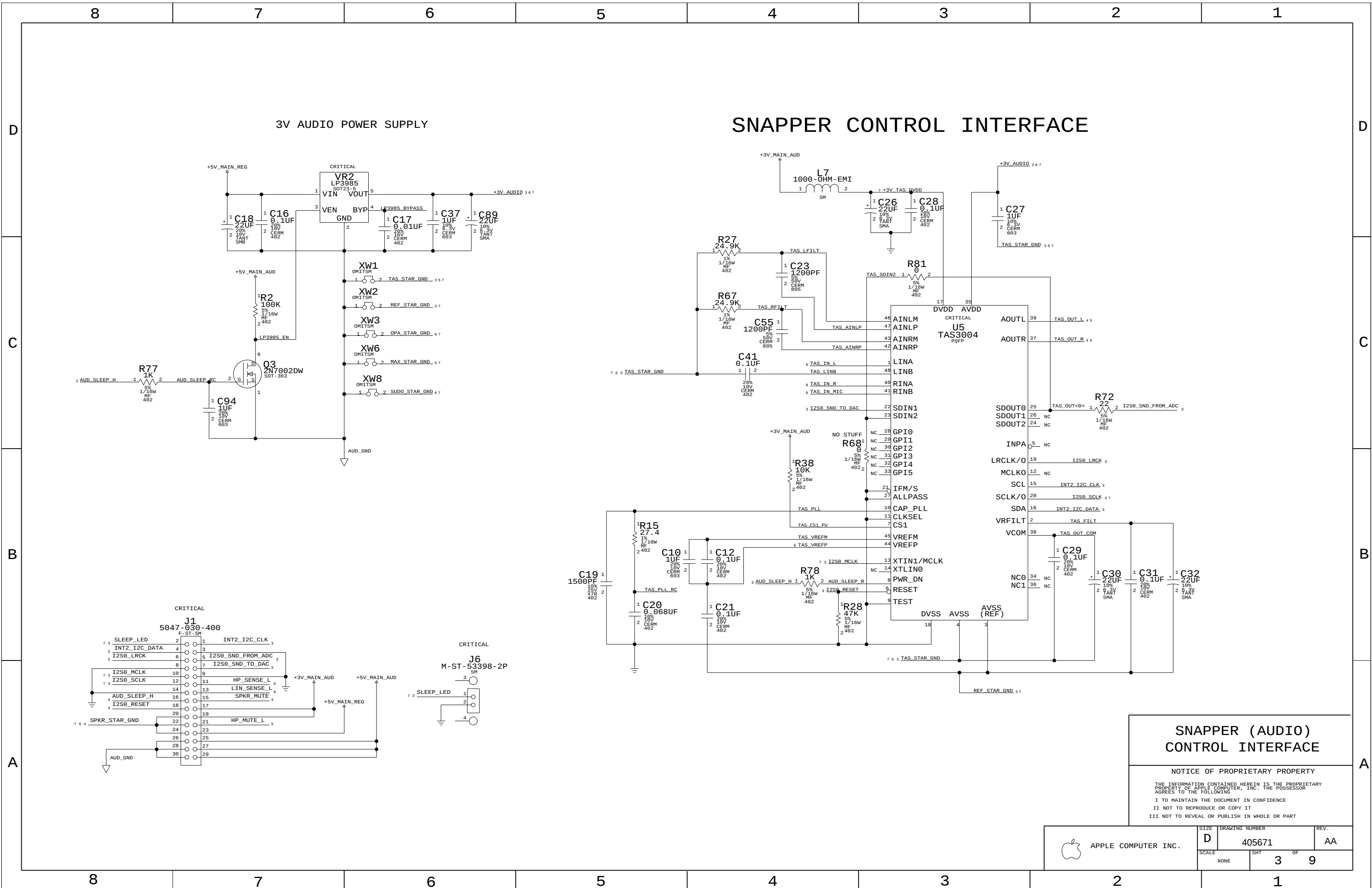
5

4

3

2

1



SNAPPER (AUDIO)  
CONTROL INTERFACE

NOTICE OF PROPRIETARY PROPERTY

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## D



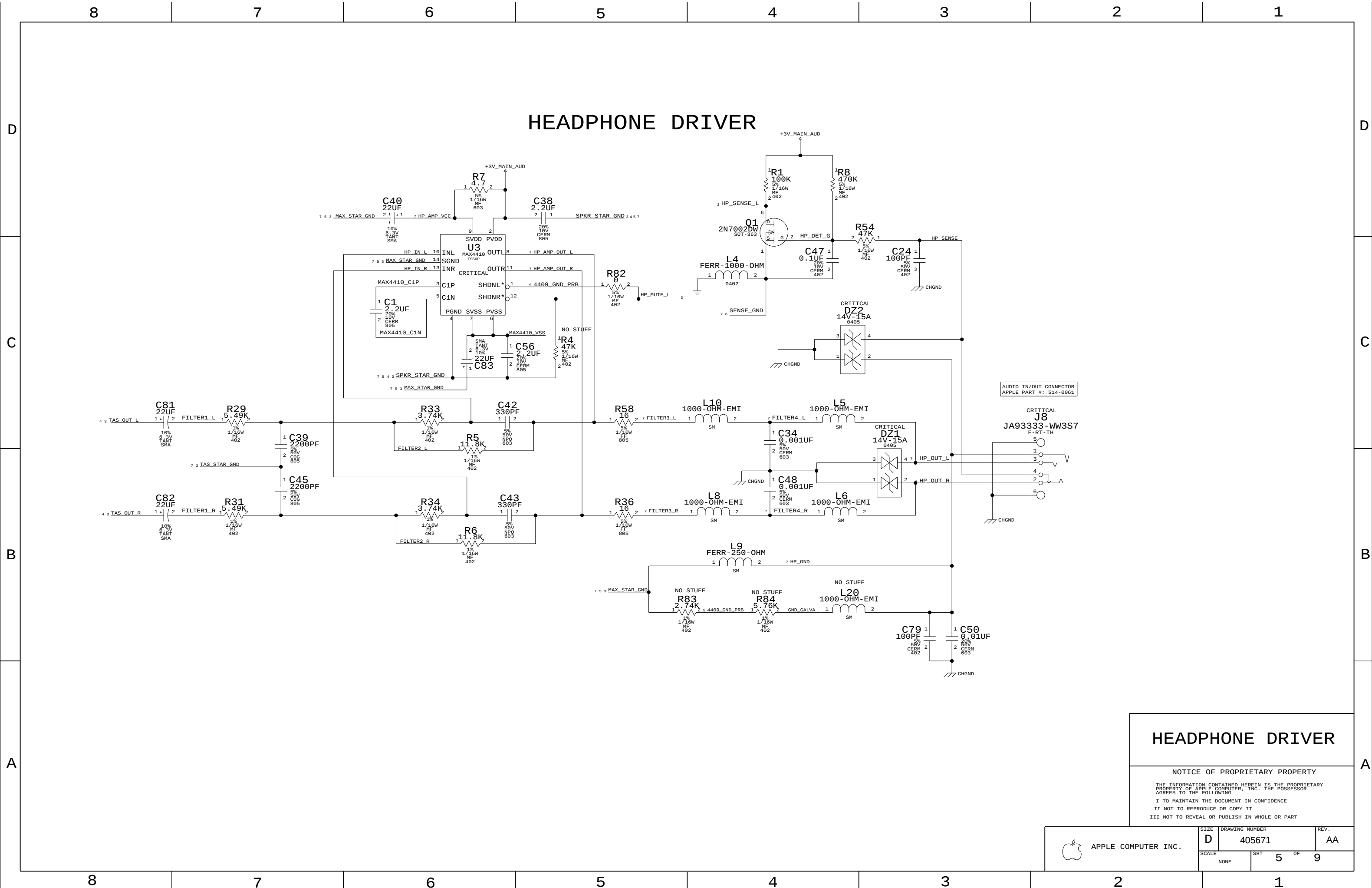
## E

*A*



|                      |                                 |                   |
|----------------------|---------------------------------|-------------------|
| SIZE<br><b>D</b>     | DRAWING NUMBER<br><b>405671</b> | REV.<br><b>AA</b> |
| SCALE<br><b>NONE</b> | SHT<br><b>4</b>                 | OF<br><b>9</b>    |

|       |     |    |
|-------|-----|----|
| SCALE | SHT | OF |
| NONE  | 4   | 9  |









| 8 |   | 7 |   | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 5 |  | 4 |  | 3 |  | 2 |  | 1 |  |   |   |   |   |
|---|---|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|--|---|--|---|--|---|--|---|--|---|---|---|---|
| D | C | B | A | *** Part Cross-Reference for the entire design ***                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |   |  |   |  |   |  |   |  |   |  | D | C | B | A |
|   |   |   |   | <div>C1 CAP 5</div> <div>C4 CAP 4</div> <div>C5 CAP 4</div> <div>C6 CAP 4</div> <div>C10 CAP 3</div> <div>C12 CAP 3</div> <div>C16 CAP 3</div> <div>C17 CAP 3</div> <div>C18 CAP_P 3</div> <div>C19 CAP 3</div> <div>C20 CAP 3</div> <div>C21 CAP 3</div> <div>C22 CAP 4</div> <div>C23 CAP 3</div> <div>C24 CAP 5</div> <div>C26 CAP_P 3</div> <div>C27 CAP 3</div> <div>C28 CAP 3</div> <div>C29 CAP 3</div> <div>C30 CAP_P 3</div> <div>C31 CAP 3</div> <div>C32 CAP_P 3</div> <div>C34 CAP 5</div> <div>C36 CAP 6</div> <div>C37 CAP 3</div> <div>C38 CAP 5</div> <div>C39 CAP 5</div> <div>C40 CAP_P 5</div> <div>C41 CAP 3</div> <div>C42 CAP 5</div> <div>C43 CAP 5</div> <div>C44 CAP 4</div> <div>C45 CAP 5</div> <div>C46 CAP 4</div> <div>C47 CAP 5</div> <div>C48 CAP 5</div> <div>C49 CAP_P 4</div> <div>C50 CAP 5</div> <div>C55 CAP 3</div> <div>C56 CAP 5</div> <div>C58 CAP 6</div> <div>C59 CAP 6</div> <div>C60 CAP 6</div> <div>C61 CAP 6</div> <div>C62 CAP 6</div> <div>C63 CAP 6</div> <div>C64 CAP 6</div> <div>C65 CAP 6</div> <div>C66 CAP 6</div> <div>C67 CAP 6</div> <div>C68 CAP 6</div> <div>C69 CAP 6</div> <div>C70 CAP 6</div> <div>C71 CAP 6</div> <div>C75 CAP 6</div> <div>C76 CAP 6</div> <div>C79 CAP 5</div> <div>C81 CAP_P 5</div> <div>C82 CAP_P 5</div> <div>C83 CAP_P 5</div> <div>C84 CAP_P 6</div> <div>C86 CAP 6</div> <div>C89 CAP_P 3</div> <div>C90 CAP 4</div> <div>C91 CAP 4</div> <div>C92 CAP 4</div> <div>C93 CAP 4</div> <div>C94 CAP 3</div> <div>D21 SUPPR_TRANSIENT_4P1 5</div> <div>D22 SUPPR_TRANSIENT_4P1 5</div> <div>J1 CON_F38ST_ID_SM 3</div> <div>J4 CON_F4RT_S2MT_TH3 6</div> <div>J6 CON_M2ST_S2MT_SM 3</div> <div>J7 CON_M8RT_W8TB 4</div> <div>J8 CON_F4RT_S2MT_TH3 5</div> <div>L4 IND 5</div> <div>L5 IND 5</div> <div>L6 IND 5</div> <div>L7 IND 3</div> <div>L8 IND 5</div> <div>L9 IND 5</div> <div>L10 IND 5</div> <div>L13 IND 6</div> <div>L15 IND 6</div> <div>L16 IND 6</div> <div>L17 IND 6</div> <div>L20 IND 5</div> <div>Q1 TRA_ZN7002DW 5 6</div> <div>Q3 TRA_ZN7002DW 3 6</div> <div>Q4 TRA_DUAL_W8T3884 6</div> <div>R1 RES 5</div> <div>R2 RES 3</div> <div>R3 RES 4</div> <div>R4 RES 5</div> <div>R5 RES 5</div> <div>R6 RES 5</div> <div>R7 RES 5</div> <div>R8 RES 5</div> <div>R9 RES 6</div> <div>R10 RES 6</div> <div>R11 RES 6</div> <div>R14 RES 6</div> <div>R15 RES 3</div> <div>R16 RES 6</div> <div>R19 RES 6</div> <div>R24 RES 6</div> <div>R25 RES 6</div> <div>R27 RES 3</div> <div>R28 RES 3</div> <div>R29 RES 5</div> <div>R31 RES 5</div> <div>R33 RES 5</div> <div>R34 RES 5</div> <div>R36 RES 5</div> <div>R38 RES 3</div> <div>R39 RES 4</div> <div>R40 RES 4</div> <div>R41 RES 6</div> <div>R42 RES 6</div> <div>R43 RES 6</div> <div>R44 RES 4</div> <div>R45 RES 6</div> <div>R46 RES 6</div> <div>R47 RES 6</div> <div>R48 RES 6</div> <div>R50 RES 6</div> <div>R51 RES 6</div> <div>R52 RES 6</div> <div>R53 RES 6</div> <div>R54 RES 5</div> <div>R57 RES 6</div> <div>R58 RES 5</div> <div>R67 RES 3</div> <div>R68 RES 3</div> <div>R70 RES 6</div> <div>R71 RES 6</div> <div>R72 RES 3</div> <div>R77 RES 3</div> <div>R78 RES 3</div> <div>R81 RES 3</div> <div>R82 RES 5</div> <div>R83 RES 5</div> <div>R84 RES 5</div> <div>R85 RES 6</div> <div>R88 RES 6</div> <div>U2 AUDIO_LM4991LD 4</div> <div>U3 MAX4410 5</div> <div>U4 AUDIO_LM4991LD 4</div> <div>U5 TAS3884 3</div> <div>U8 OPAMP_MAX4253 6</div> <div>U9 OPAMP_MAX4253 6</div> <div>V62 VREG_LP3985 3</div> <div>Xw1 SHORT 3</div> <div>Xw2 SHORT 3</div> <div>Xw3 SHORT 3</div> <div>Xw6 SHORT 3</div> <div>Xw8 SHORT 3</div> <div>Xw10 SHORT 6</div> <div>ZT1 MTGHOLE 2</div> |  |   |  |   |  |   |  |   |  |   |  |   |   |   |   |
| 8 |   | 7 |   | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 5 |  | 4 |  | 3 |  | 2 |  | 1 |  |   |   |   |   |