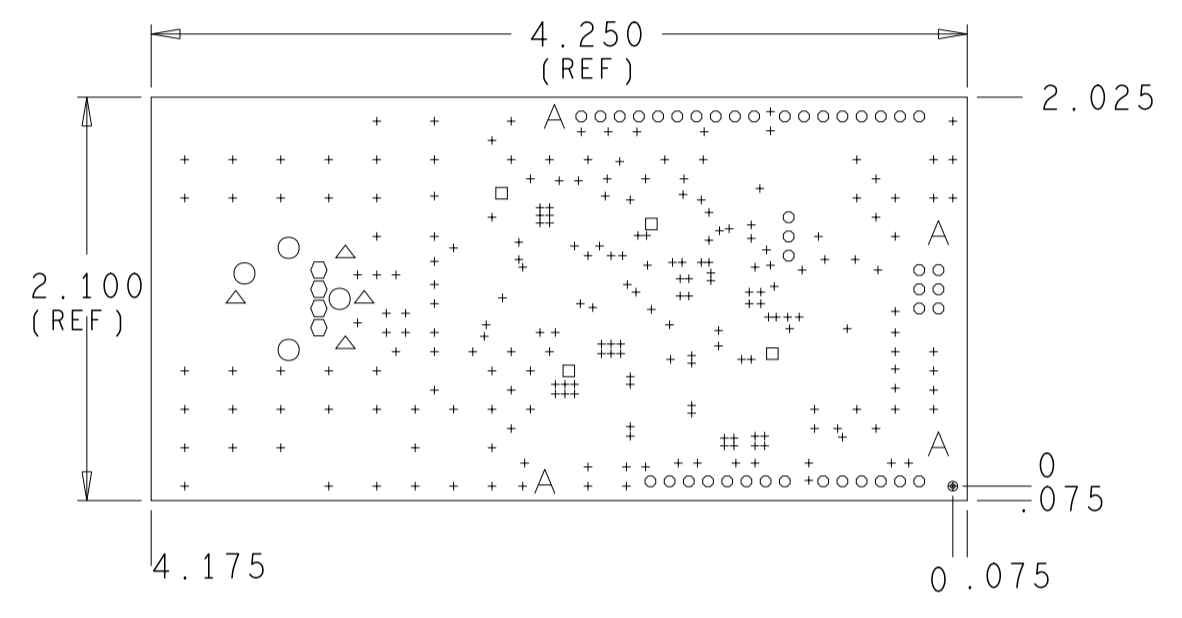


| REVISIONS |                      |         |          |
|-----------|----------------------|---------|----------|
| REV       | DESCRIPTION          | DATE    | APPROVED |
| A         | INITIAL RELEASE      | 23APR14 | J.CHUA   |
| B         | AS PER ECR NO.046984 | 30JUL14 | J.CHUA   |



| DRILL CHART: TOP to BOTTOM |       |           |            |     |
|----------------------------|-------|-----------|------------|-----|
| ALL UNITS ARE IN MILS      |       |           |            |     |
| FIGURE                     | SIZE  | TOLERANCE | PLATED     | QTY |
| +                          | 12.0  | +3.0/-3.0 | PLATED     | 228 |
| □                          | 40.0  | +3.0/-3.0 | PLATED     | 4   |
| ○                          | 45.0  | +3.0/-3.0 | PLATED     | 41  |
| ○                          | 65.0  | +3.0/-3.0 | PLATED     | 4   |
| △                          | 82.0  | +3.0/-3.0 | PLATED     | 4   |
| ○                          | 110.0 | +3.0/-3.0 | PLATED     | 4   |
| A                          | 125.0 | +2.0/-2.0 | NON-PLATED | 4   |

PRIMARY SIDE

|                                                                                                                                                         |                                             |               |                                              |                                                              |                             |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|----------------------------------------------|--------------------------------------------------------------|-----------------------------|----------|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES<br>DECIMALS FRACTIONS ANGLES<br>.XX -.010 --1/32 --2<br>.XXX -.005<br>.XXXX -.0050 | APPROVAL<br>TEMPLATE ENGINEER<br>G. AGUIRRI | DATE<br>APR14 | ANALOG<br>DEVICES                            | WWM<br>DIVISION<br>804 WOBURN STREET<br>WILMINGTON, MA 01887 |                             |          |
|                                                                                                                                                         | HARDWARE SERVICES<br>R. MACDONALD           | APR14         |                                              |                                                              |                             |          |
| MATERIAL                                                                                                                                                | HARDWARE SYSTEMS<br>J. KEANNE               | APR14         | TITLE<br>FABRICATION<br>ADA4505-2 EVAL BOARD |                                                              |                             |          |
|                                                                                                                                                         | TEST ENGINEER<br>N/A                        | N/A           |                                              |                                                              |                             |          |
|                                                                                                                                                         | COMPONENT ENGINEER<br>G. CELEDONIO          | APR14         |                                              |                                                              |                             |          |
|                                                                                                                                                         | TEST PROCESS<br>N/A                         | N/A           |                                              |                                                              |                             |          |
| FINISH                                                                                                                                                  | HARDWARE RELEASE<br>R. AMARILLE             | APR14         | SIZE<br>C                                    | FSCM NO<br>24355                                             | DRAWING NUMBER<br>09-038118 | REV<br>B |
|                                                                                                                                                         | DESIGNER<br>J. RAMOS                        | JUL14         |                                              |                                                              |                             |          |
|                                                                                                                                                         | PTD ENGINEER<br>J. CHUA                     | AUG14         |                                              |                                                              |                             |          |
| DO NOT SCALE DWG                                                                                                                                        | CHECKER<br>J. CHUA                          | AUG14         | SCALE<br>1/1                                 | SHEET 1 OF 2                                                 |                             |          |

ADA4505-2 EVALUATION BOARD

4

3

2

1

SPECIFICATIONS:

MATERIALS; ALL LAMINATES AND BONDING MATERIALS SHOULD BE SELECTED FROM IPC-4101 OR IPC-4103, MINIMUM Tg>170degC, Td>300degC, U.L. RATING OF 94 V-0

MATERIAL FAMILY; FR4

CLADDING; EXTERNAL LAYERS .5 OZ. COPPER, OVERPLATE TO 1.5 OZ.

NOTE: IF THE LAYER STACKUP CONFLICTS WITH THE ABOVE CLADDING SPECIFICATIONS THEN THE LAYER STACKUP SHALL TAKE PRECEDENCE.

SOLDER MASK; SHALL BE LIQUID PHOTOIMAGEABLE (LPI) APPLIED ON BOTH SIDES OVER BARE COPPER OR GOLD. COLOR GREEN.

SILK SCREEN; SHALL BE PERMANENT NON-CONDUCTIVE EPOXY INK, COLOR: WHITE SYNTHETIC INKJET PRINTING ALLOWED FOR DENSE BOARDS, COLOR: WHITE

SURFACE FINISH; ENIG (Electroless Nickel/Immersion Gold) 100 MICRO INCHES NICKEL/ 3-5 MICRO INCHES GOLD

INTENTIONAL SHORTS; NO INTENTIONAL SHORTS FOR THIS DESIGN.

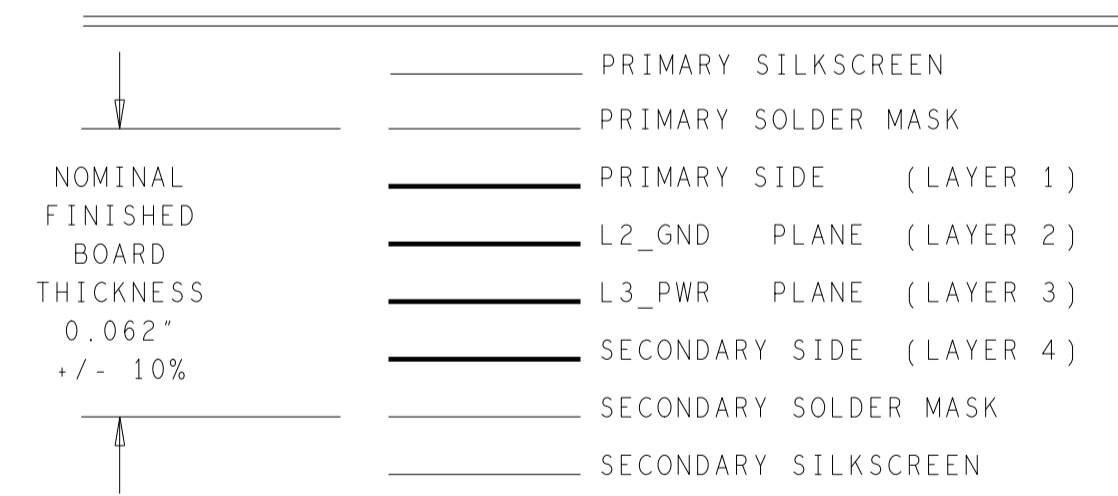
TEST REQUIREMENTS; 100% NETLIST ELECTRICAL VERIFICATION USING CUSTOMER SUPPLIED IPC-D-356 NETLIST FOR OPENS AND SHORTS WHEN "GERBER DATA" IS PROVIDED. THIS VERIFICATION ALSO REQUIRED FOR "ODB++" DATA PER EMBEDDED NETLIST.

ROHS COMPLIANCE NOTE: HOMOGENOUS MATERIALS IN THIS BOARD SHALL BE COMPLIANT THE EU ROHS DIRECTIVE 2002/95/EC

REQUIREMENTS:

- 1. REFER TO IPC-6010 SERIES (LATEST REV.), CLASS 2 FOR FABRICATION UNLESS OTHERWISE SPECIFIED.
2. ACCEPTABILITY PER ANALOG DEVICES, INC. SPECIFICATION TST00115, (LATEST REVISION.)
3. MODIFICATIONS TO THE ARTWORK ARE NOT ALLOWED WITHOUT WRITTEN AUTHORIZATION.
4. HOLE PATTERN TOLERANCES FOR UNDIMENSIONED HOLES SHALL BE A DIAMETER OF 0.005 INCHES FROM THEIR TRUE POSITION.
5. PLATED HOLE WALL THICKNESS SHALL NOT BE LESS THAN 0.001 INCH MINIMUM AVERAGE, WITH NO READING LESS THAN .0008 BY CROSS SECTION.
6. HOLE DIAMETERS APPLY AFTER PLATING.
7. FINISHED CONDUCTOR WIDTHS SHALL NOT BE REDUCED FROM THE NOMINAL INDICATED ON THE MASTER PATTERN, BY MORE THAN THE CONDUCTOR THICKNESS.
8. MINIMUM DESIGN LINE WIDTH IS .010 INCH.
9. MINIMUM DESIGN SPACING IS .0075 INCH.
10. NON-FUNCTIONAL PAD REMOVAL FROM INNER SIGNAL LAYERS MAY BE PERFORMED AFTER CUSTOMER APPROVAL.
11. IF PAD SIZES PROVIDED ARE NOT LARGE ENOUGH TO MAINTAIN ANNULAR RING REQUIREMENT, MFGR. MAY REQUEST APPROVAL TO TEAR DROP PADS TO MAINTAIN ANNULAR RING. (AT PAD TO TRACE INTERSECTION ONLY AND ELECTRICAL INTEGRITY MUST BE MAINTAINED.)
12. THIEVING MAY BE ADDED TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN ONLY AFTER REVIEW AND APPROVAL FROM THE CUSTOMER:
A. THIEVING TO CARD EDGE, FIDUCIALS, NON-PLATED THROUGH HOLES, ALL OTHER FEATURES TO BE 0.200 INCH MINIMUM.
B. THERE SHALL BE NO THIEVING IN ANY AREAS FREE OF SOLDER MASK OR INTERNAL COPPER PLANES.
13. MFGR. TO LEGIBLY ETCH OR STAMP/SCREEN WITH PERMANENT NON-CONDUCTIVE INK ON SECONDARY SIDE IN A CLEAR AREA UNLESS OTHERWISE INDICATED;
A. U.L. CODE-FLAMMABILITY RATING D. MFGR LOGO
B. DATE CODE (STAMP). E. SUCCESSFUL ELECTRICAL TEST.
C. LOT NUMBER
14. REPAIRS PER IPC-7711/21 (LATEST REV.) ARE ALLOWED.

4 LAYER STACKUP



AD4505-2 CUSTOMER EVALUATION BOARD

PRIMARY SIDE

ANALOG DEVICES logo and company address: WWM DIVISION, 804 WOBURN STREET, WILMINGTON, MA 01887. Includes a table with fields for SIZE (C), FSCM NO (24355), DRAWING NUMBER (09-038118), REV (B), SCALE (1/1), and SHEET (2 OF 2).

4

3

2

1

4

3

2

1

D

D

C

C

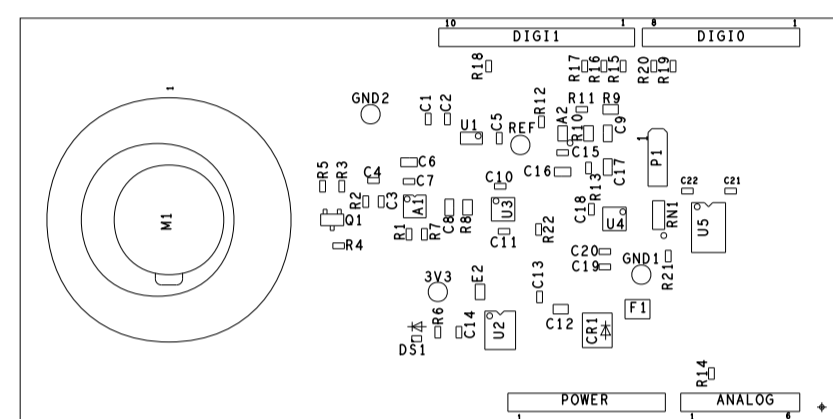
B

B


A

A

| REVISIONS |                      |         |          |
|-----------|----------------------|---------|----------|
| REV       | DESCRIPTION          | DATE    | APPROVED |
| A         | INITIAL RELEASE      | 23APR14 | J.CHUA   |
| B         | AS PER ECR NO.046984 | 30JUL14 | J.CHUA   |



PRIMARY SIDE

|                                                                                                                                                          |                                    |       |                                                                                                                                                    |         |                |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|-----|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES<br>DECIMALS FRACTIONS ANGLES<br>.XX -.010 --1/32 -- 2<br>.XXX -.005<br>.XXXX -.0050 | APPROVAL                           | DATE  |  WWM<br>DIVISION<br>804 WOBURN STREET<br>WILMINGTON, MA 01887 |         |                |     |
|                                                                                                                                                          | TEMPLATE ENGINEER<br>G. AGUIRRI    | APR14 |                                                                                                                                                    |         |                |     |
|                                                                                                                                                          | HARDWARE SERVICES<br>R. MACDONALD  | APR14 |                                                                                                                                                    |         |                |     |
|                                                                                                                                                          | HARDWARE SYSTEMS<br>J. KEANNE      | APR14 |                                                                                                                                                    |         |                |     |
| MATERIAL                                                                                                                                                 | TEST ENGINEER<br>N/A               | N/A   | TITLE<br>ASSEMBLY<br>ADA4505-2 EVAL BOARD                                                                                                          |         |                |     |
|                                                                                                                                                          | COMPONENT ENGINEER<br>G. CELEDONIO | APR14 |                                                                                                                                                    |         |                |     |
|                                                                                                                                                          | TEST PROCESS<br>N/A                | N/A   |                                                                                                                                                    |         |                |     |
|                                                                                                                                                          | HARDWARE RELEASE<br>R. AMARILLE    | APR14 | SIZE                                                                                                                                               | FSCM NO | DRAWING NUMBER | REV |
| FINISH                                                                                                                                                   | DESIGNER<br>J. RAMOS               | JUL14 | C                                                                                                                                                  | 24355   | 01-038118      | B   |
|                                                                                                                                                          | PTD ENGINEER<br>J. CHUA            | AUG14 |                                                                                                                                                    |         |                |     |
|                                                                                                                                                          | CHECKER<br>J. CHUA                 | AUG14 |                                                                                                                                                    |         |                |     |
| DO NOT SCALE DWG                                                                                                                                         |                                    |       | SCALE                                                                                                                                              | 1/1     | SHEET 1 OF 2   |     |

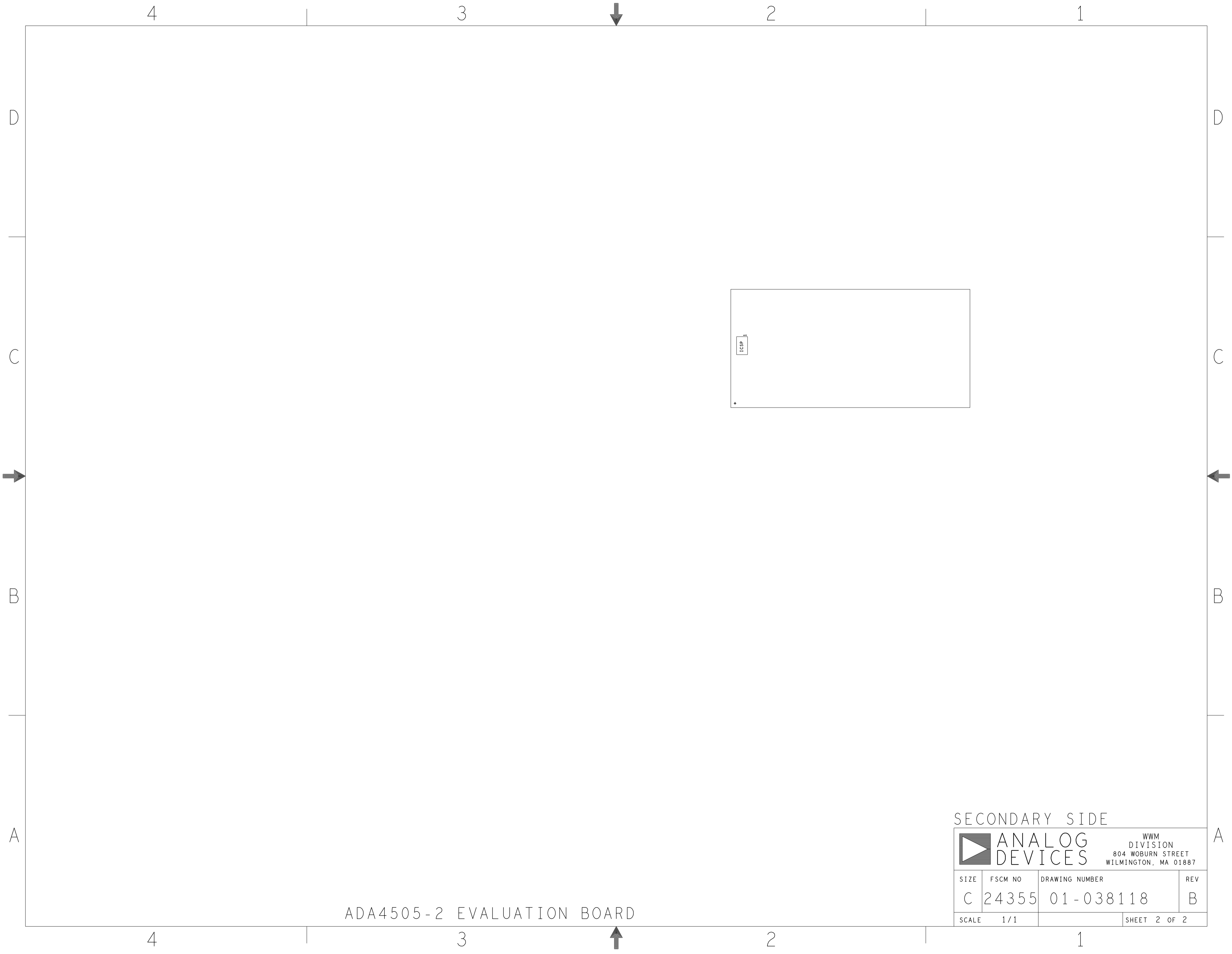
ADA4505-2 EVALUATION BOARD

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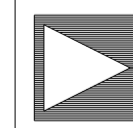
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ADA4505-2 EVALUATION BOARD

SECONDARY SIDE

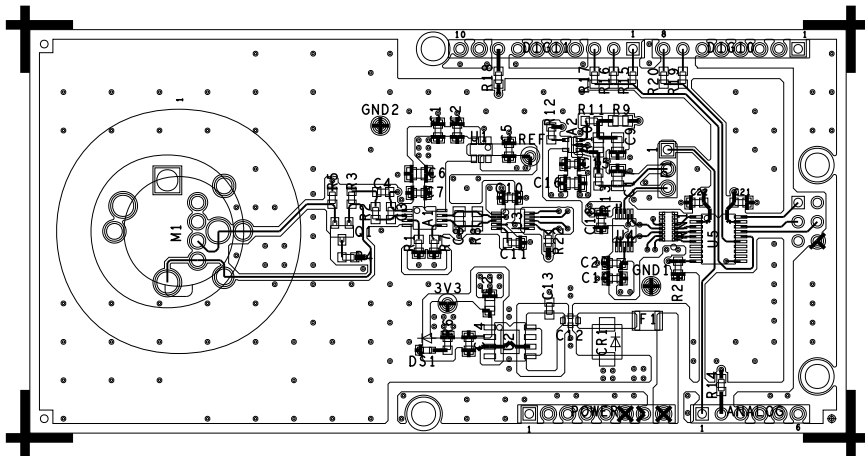


ANALOG  
DEVICES

WWM  
DIVISION  
804 WOBURN STREET  
WILMINGTON, MA 01887

|       |         |                |     |
|-------|---------|----------------|-----|
| SIZE  | FSCM NO | DRAWING NUMBER | REV |
| C     | 24355   | 01-038118      | B   |
| SCALE | 1/1     | SHEET 2 OF 2   |     |

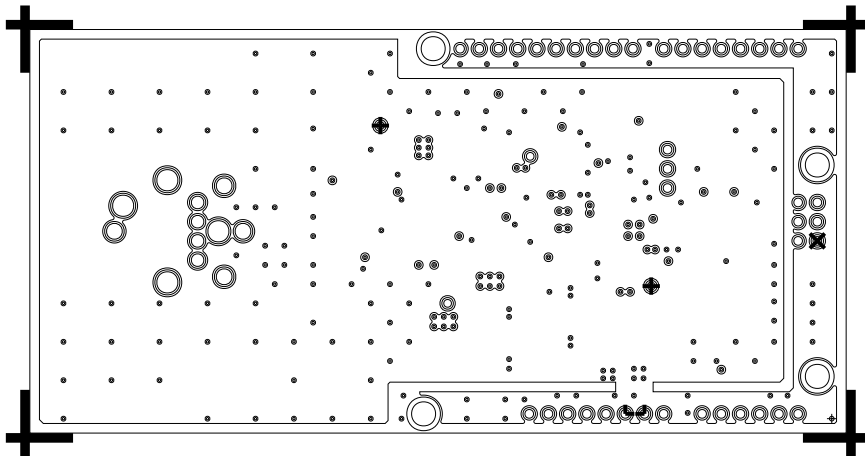
L1 PRIMARY  
08-038118-01  
REV B



L2 GND

08-038118-07

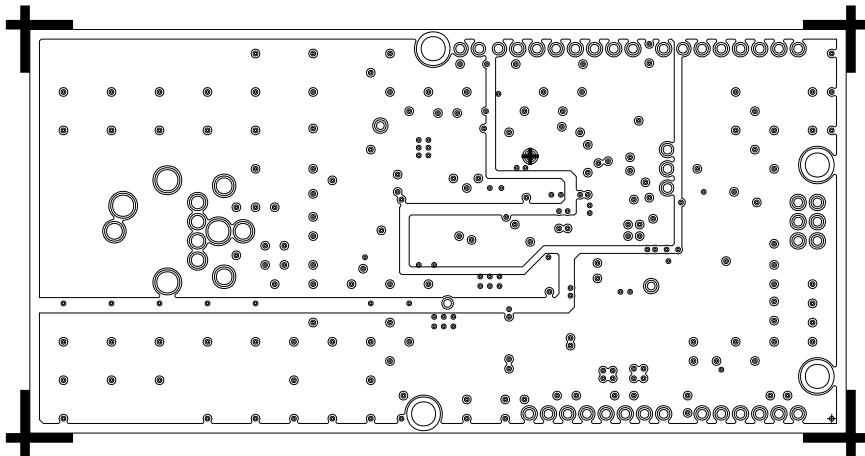
REV B



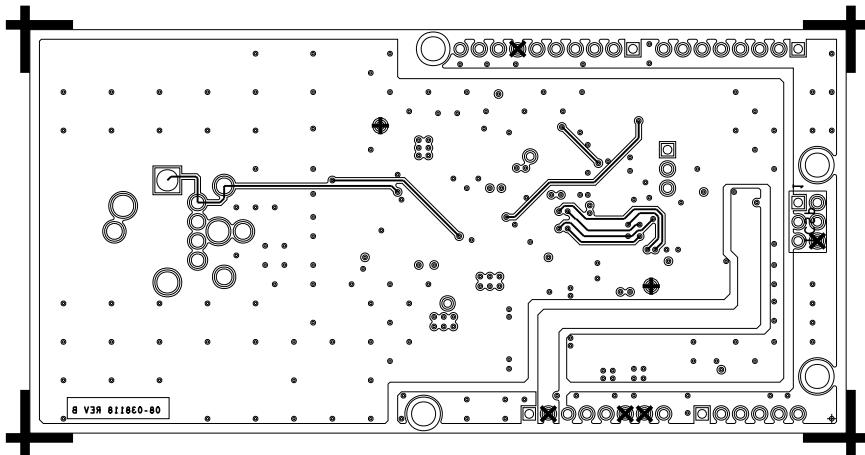
L3 PWR

08-038118-08

REV B



L4 SECONDARY  
08-038118-02  
REV B



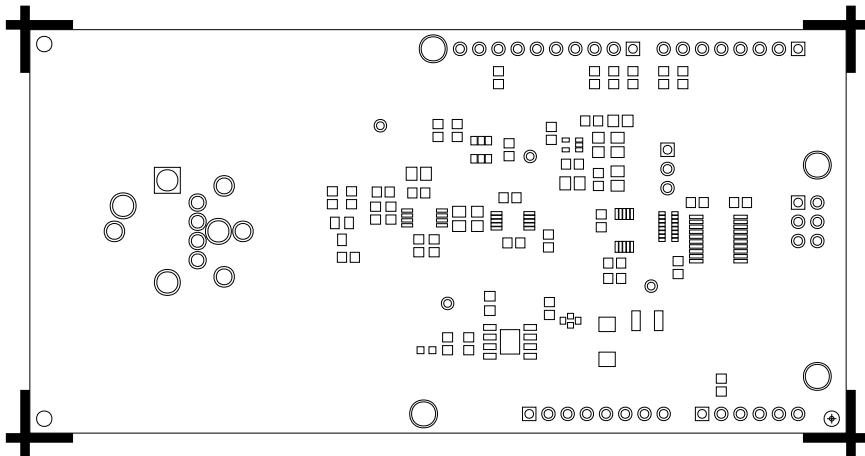




SOLDERMASK PRIMARY

08-038118-04

REV B



# SILKSCREEN SECONDARY

08-038118-05

REV B



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DIGIT

DIGIT

GND5

REF

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LM



GND1

3A3



POWER

ANALOG

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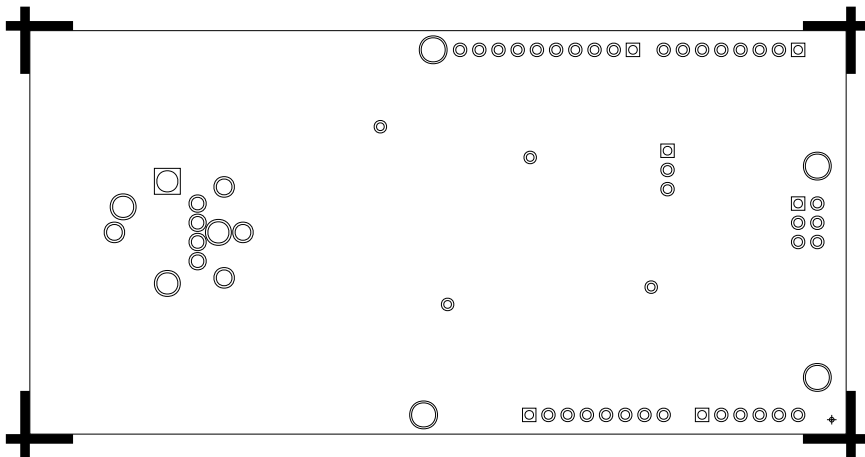
6



SOLDERMASK SECONDARY

08-038118-06

REV B



PASTEMASK PRIMARY

08-038118-09

REV B

