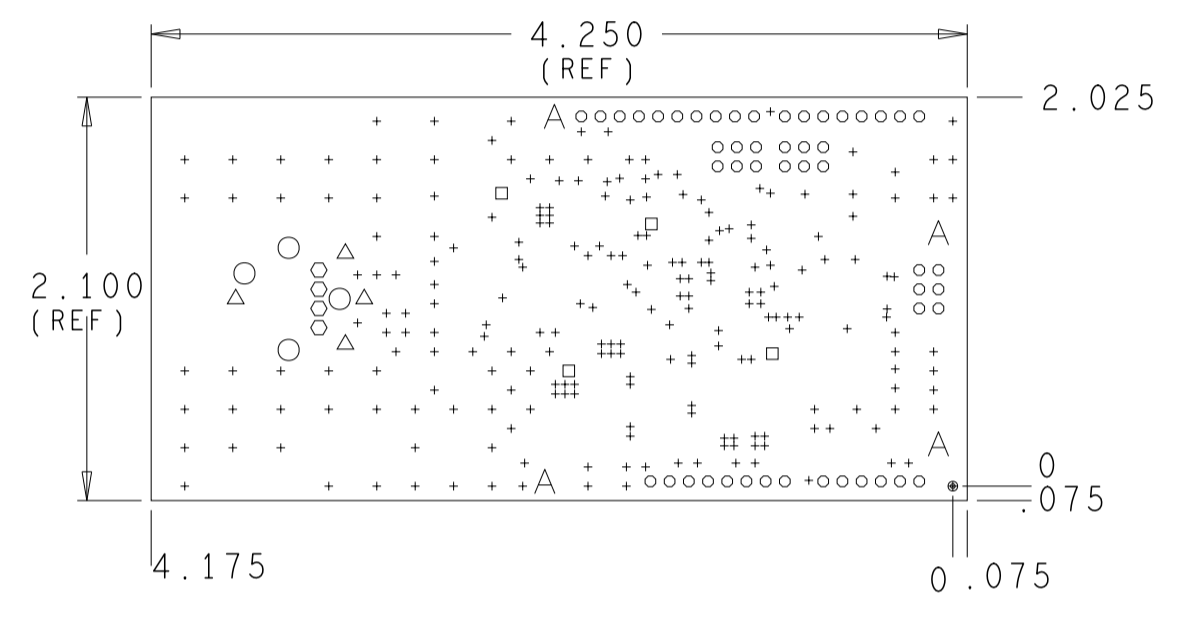


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	23APR14	J. CHUA
B	AS PER ECR NO. 046984	30JUL14	J. CHUA
C	AS PER ECR NO. 058605	19JAN16	J. CHUA


HOLE TOLERANCE

UNLESS SPECIFIED
 PLATED: +/- 3 MILS
 NON PLATED: +/- 2 MIL

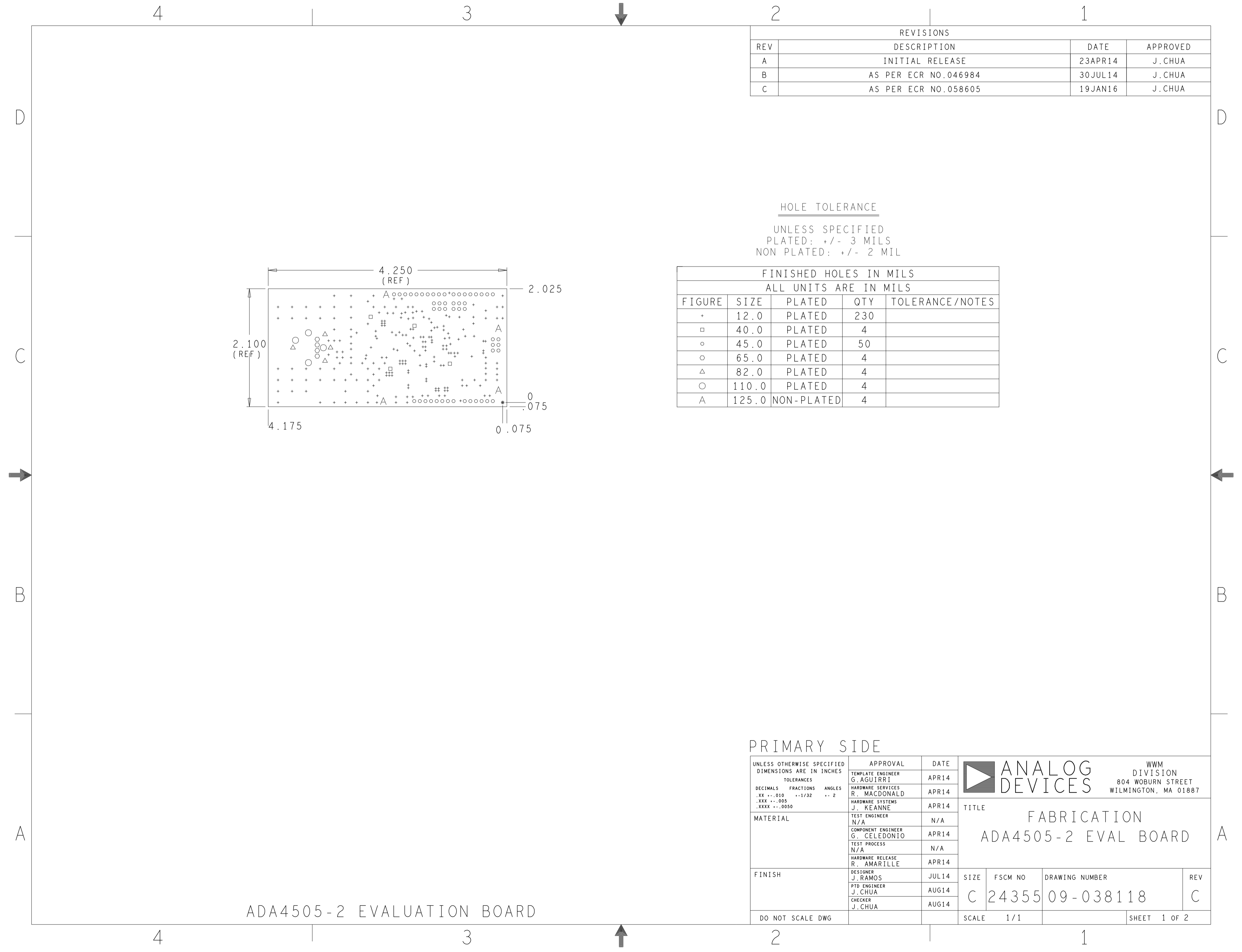
FINISHED HOLES IN MILS				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES
+	12.0	PLATED	230	
□	40.0	PLATED	4	
○	45.0	PLATED	50	
○	65.0	PLATED	4	
△	82.0	PLATED	4	
○	110.0	PLATED	4	
A	125.0	NON-PLATED	4	



PRIMARY SIDE

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

ADA4505-2 EVALUATION BOARD



4

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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.

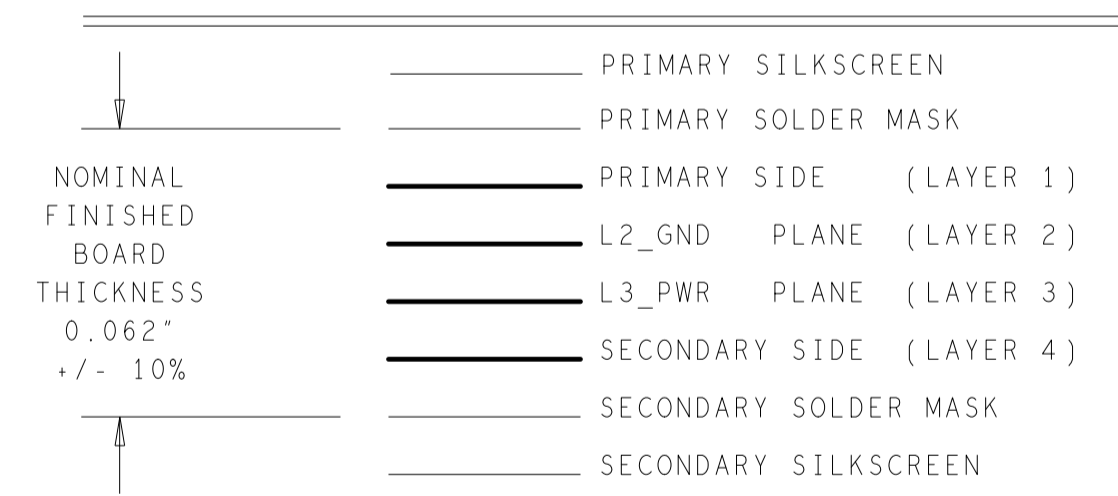
TEST REQUIREMENTS; 100% NETLIST ELECTRICAL VERIFICATION USING CUSTOMER SUPPLIED IPC-D-356 NETLIST FOR OPENS AND SHORTS WHEN "GERBER DATA" IS PROVIDED. THIS VERIFICATION ALSO REQUIRED FOR "ODB++" DATA PER EMBEDDED NETLIST.

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 address: WWM DIVISION, 804 WOBURN STREET, WILMINGTON, MA 01887. Table with columns: SIZE (C), FSCM NO (24355), DRAWING NUMBER (09-038118), REV (C), SCALE (1/1), SHEET (2 OF 2).

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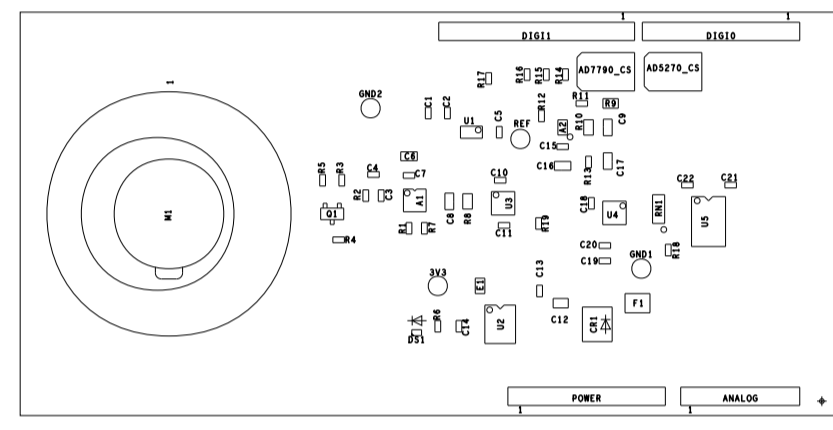
B

B

A


A

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	23APR14	J. CHUA
B	AS PER ECR NO. 046984	30JUL14	J. CHUA
C	AS PER ECR NO. 058605	19JAN16	J. CHUA



Assembly Notes:
 Don't cut the excess pins of the following connectors:
 DIGI1, DIGI0, POWER, ANALOG, ICSP

PRIMARY SIDE

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

ADA4505-2 EVALUATION BOARD

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ADA4505-2 EVALUATION BOARD

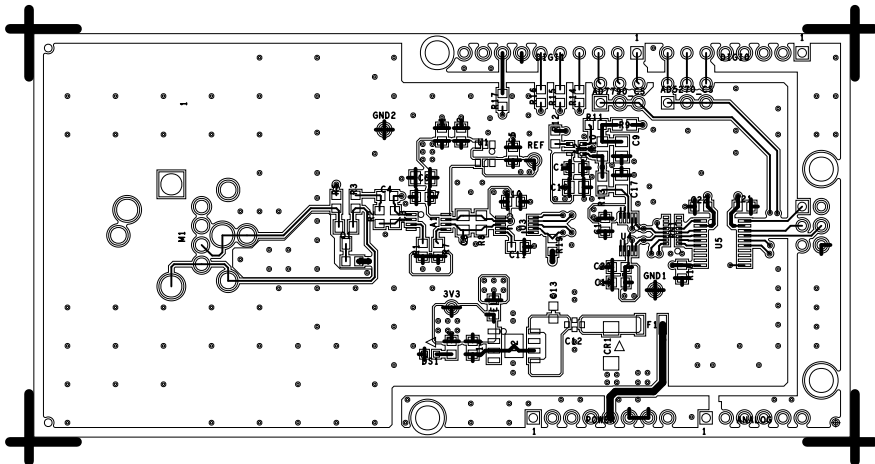
SECONDARY SIDE



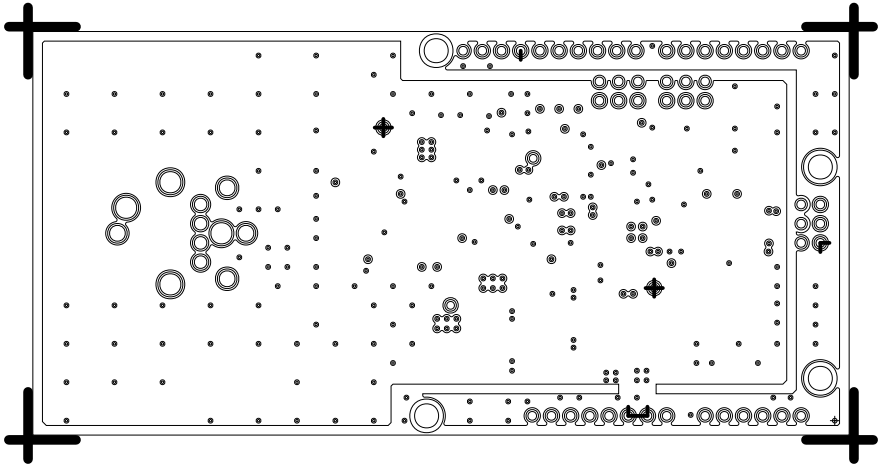
WWM
DIVISION
804 WOBURN STREET
WILMINGTON, MA 01887

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

L1 PRIMARY
08-038118-01
REV C



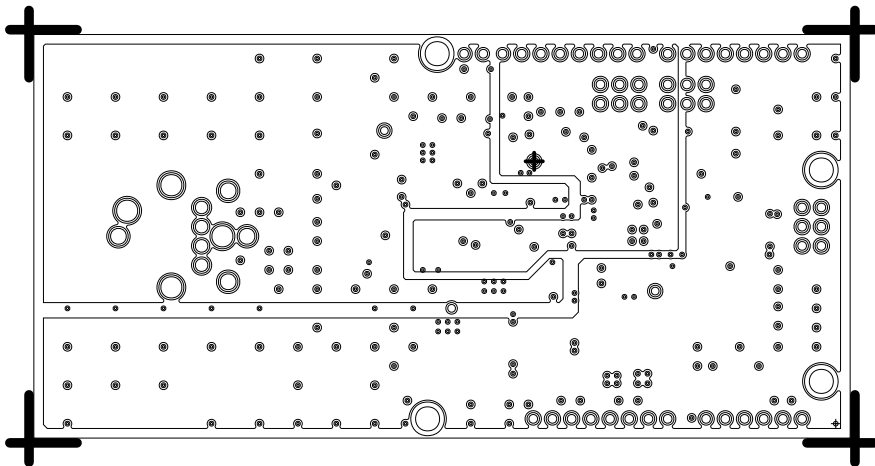
L2 GND
08-038118-07
REV C



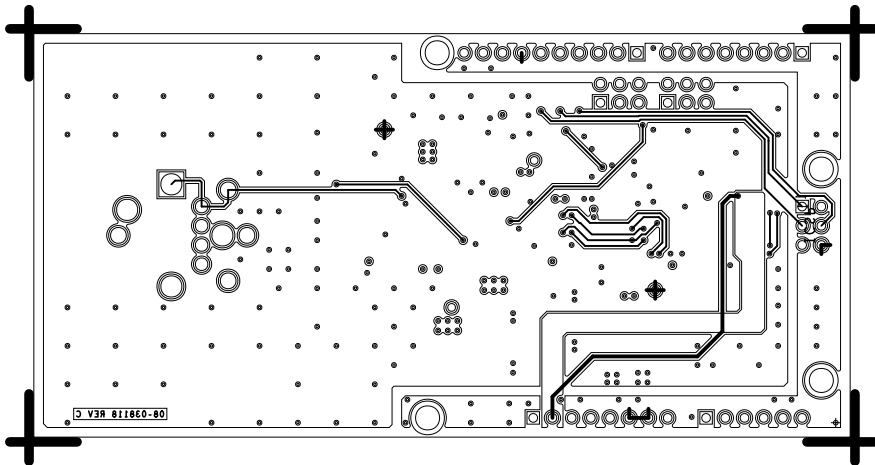
L3 PWR

08-038118-08

REV C

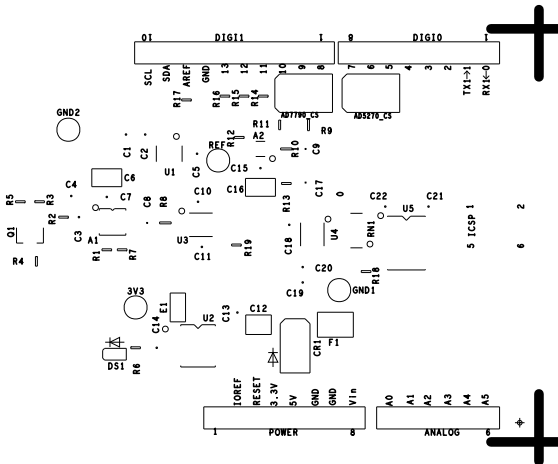
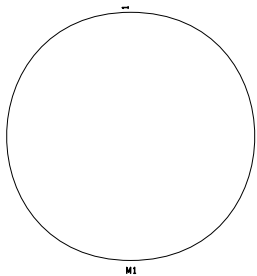


L4 SECONDARY
08-038118-02
REV C



SILKSCREEN PRIMARY
08-038118-03
REV C

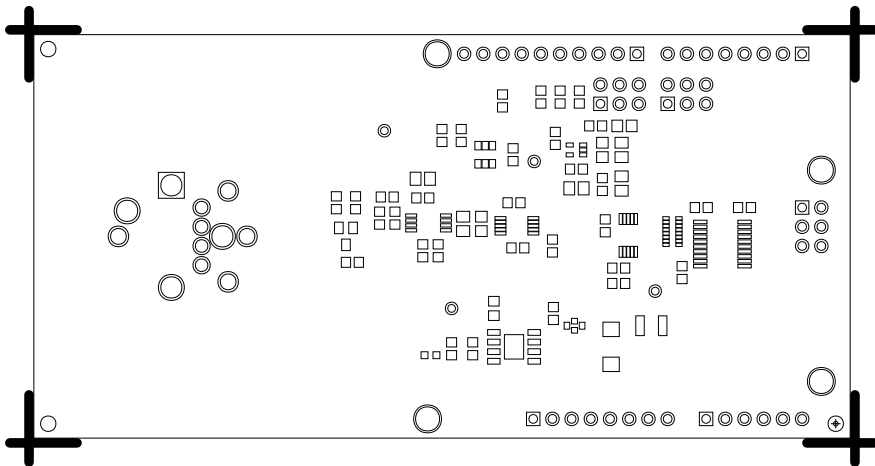
 **ANALOG
DEVICES**
EVAL-CN0357-ARDZ REV.C



SOLDERMASK PRIMARY

08-038118-04

REV C



SILKSCREEN SECONDARY
08-038118-05
REV C



DIG10 1 8 10 DIG11

ADP510_CS AD1180_CS GND5

REF

1

1M



GND1

3A3



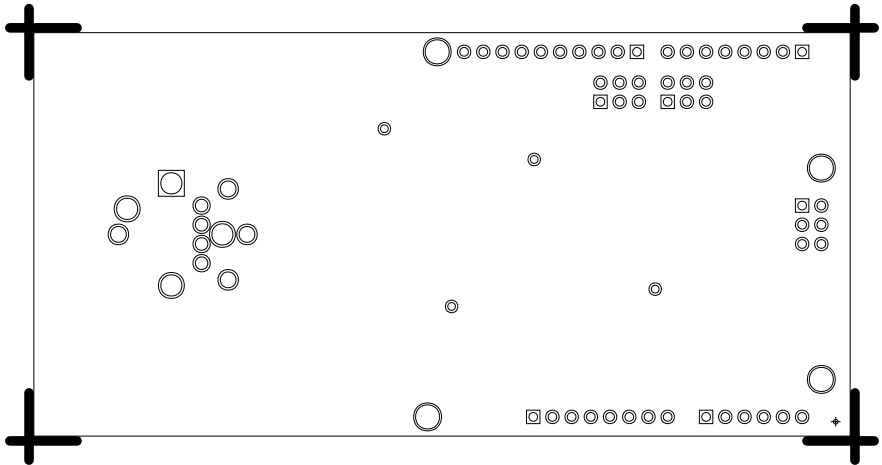
POWER 1 8 10 ANALOG 1 8



SOLDERMASK SECONDARY

08-038118-06

REV C



PASTEMASK PRIMARY

08-038118-09

REV C

