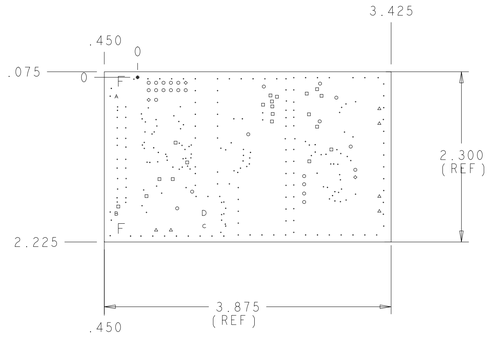
ART FILM - fab1

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	SEP13	E. REYTA
B	INITIAL RELEASE	DEC13	E. REYTA

HOLE TOLERANCE

UNLESS SPECIFIED
PLATED: +/- .003
NON PLATED: +/- .001

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	12.0	+3.0/-3.0	PLATED	237
□	20.0	+3.0/-3.0	PLATED	20
○	45.0	+3.0/-3.0	PLATED	26
◇	45.0	+3.0/-3.0	PLATED	3
△	50.0	+3.0/-3.0	PLATED	6
A	28.0	+2.0/-2.0	NON-PLATED	1
B	43.0	+2.0/-2.0	NON-PLATED	1
C	63.0	+2.0/-2.0	NON-PLATED	1
D	71.0	+2.0/-2.0	NON-PLATED	1
F	136.0	+2.0/-2.0	NON-PLATED	2



PRIMARY SIDE

PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES .XX +-.010 +-1/32 +- 2 .XXX +-.005 .XXXX +-.0050	APPROVAL	DATE
	TEMPLATE ENGINEER g i o	DEC13
	HARDWARE SERVICES R. Macdonald	DEC13
	HARDWARE SYSTEMS J. Keane	DEC13
MATERIAL	TEST ENGINEER N/A	N/A
	COMPONENT ENGINEER G. Celedonio	DEC13
	TEST PROCESS N/A	N/A
	HARDWARE RELEASE R. Amarille	DEC13
FINISH	DESIGNER J.Ramos	DEC13
	PTD ENGINEER E.REYTA	DEC13
	CHECKER E.REYTA	DEC13
DO NOT SCALE DWG		

ANALOG DEVICES
WWM
DIVISION
804 WOBURN STREET
WILMINGTON, MA 01887

TITLE
FABRICATION
AD5292 EVAL BOARD

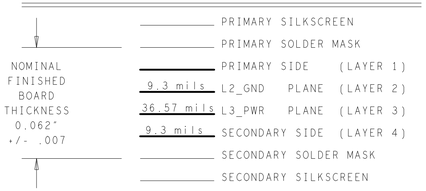
SIZE	FSCM NO	DRAWING NUMBER	REV
D	24355	09-037158-00	B

SCALE 1/1 SHEET 1 OF 2

ART FILM - fab1

ART FILE - Tab1

4 LAYER STACKUP



CHARACTERISTIC IMPEDANCE = NONE
ARTWORK LINE WIDTH FOR IMPEDANCE CONTROLLED LINES = N/A

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.
INTERNAL SIGNAL LAYERS .5 OZ. COPPER.
INTERNAL PLANE LAYERS 1 OZ. COPPER.

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; IF SUPPLIED DATA INCLUDES A FILE "READ_ME.2", THEN INTENTIONAL NET SHORTS EXIST. CUSTOMER REVIEW AND APPROVAL IS REQUIRED IF SUPPLIED DATA REPORTS ANY CONDITION THAT DOES NOT MATCH "READ_ME.2" FILE PROVIDED.

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 .008 INCH.
9. MINIMUM DESIGN SPACING IS .005 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
    B. DATE CODE (STAMP).
    C. LOT NUMBER
    D. MFGR LOGO
    E. SUCCESSFUL ELECTRICAL TEST.
14. REPAIRS PER IPC-7711/21 (LATEST REV.) ARE ALLOWED.

PRIMARY SIDE

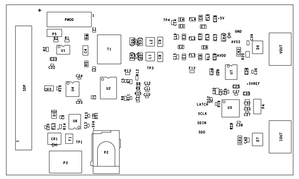
ANALOG DEVICES
WWM DIVISION
804 WOBURN STREET
WILMINGTON, MA 01887

SIZE	FSCM NO	DRAWING NUMBER	REV
D	24355	09-037158	B
SCALE 1/1		SHEET 2 OF 2	

ART FILE - Tab2

ART FILM - assy1

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	SEP13	E. REYTA
B	INITIAL RELEASE	DEC13	E. REYTA



PRIMARY SIDE

PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES .XX +-.010 +-1/32 +- 2 .XXX +-.005 .XXXX +-.0050	APPROVAL	DATE
	TEMPLATE ENGINEER gio	DEC13
	HARDWARE SERVICES R. Macdonald	DEC13
	HARDWARE SYSTEMS J. Keane	DEC13
MATERIAL	TEST ENGINEER N/A	N/A
	COMPONENT ENGINEER G. Celedonio	DEC13
	TEST PROCESS N/A	N/A
	HARDWARE RELEASE R. Amarille	DEC13
FINISH	DESIGNER J.Ramos	DEC13
	PTD ENGINEER E.REYTA	DEC13
	CHECKER E.REYTA	DEC13
DO NOT SCALE DWG		

ANALOG DEVICES

WWM
DIVISION
804 WOBURN STREET
WILMINGTON, MA 01887

TITLE

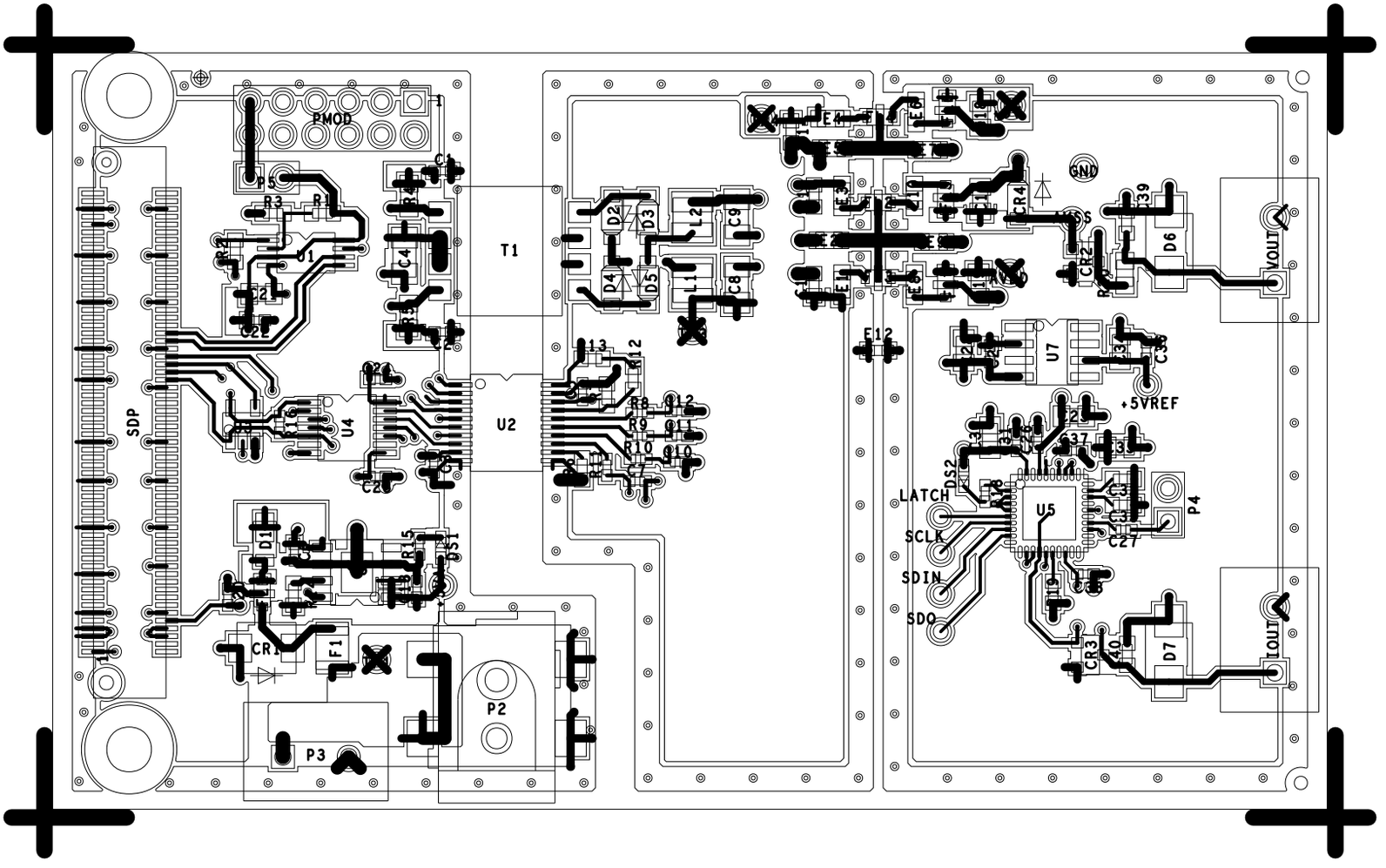
ASSEMBLY
AD5292 EVAL BOARD

SIZE	FSCM NO	DRAWING NUMBER	REV
D	24355	01-037158-00	B

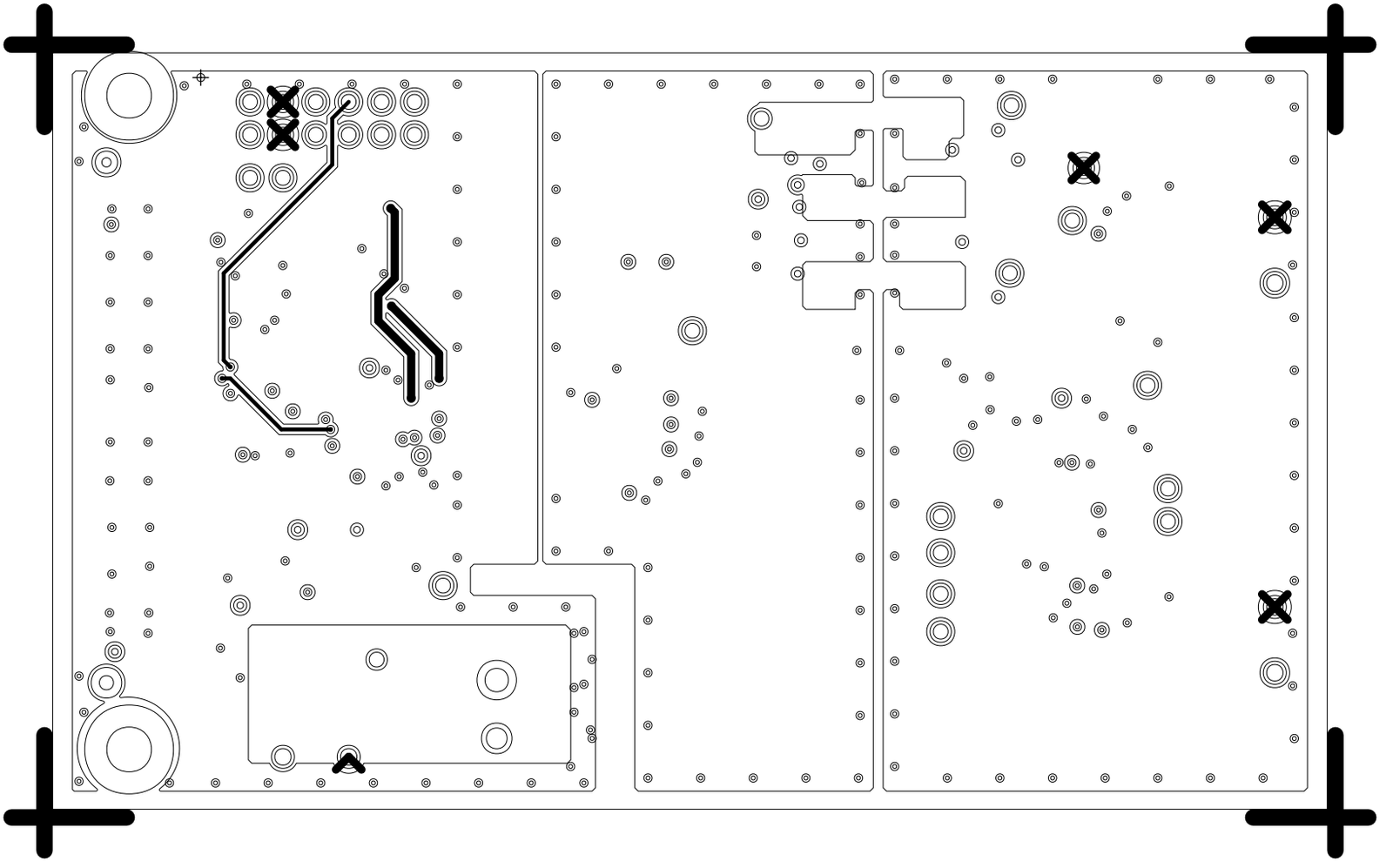
SCALE 1/1 SHEET 1 OF 1

ART FILM - assy1

L1 PRIMARY
08-037158-01
REV B



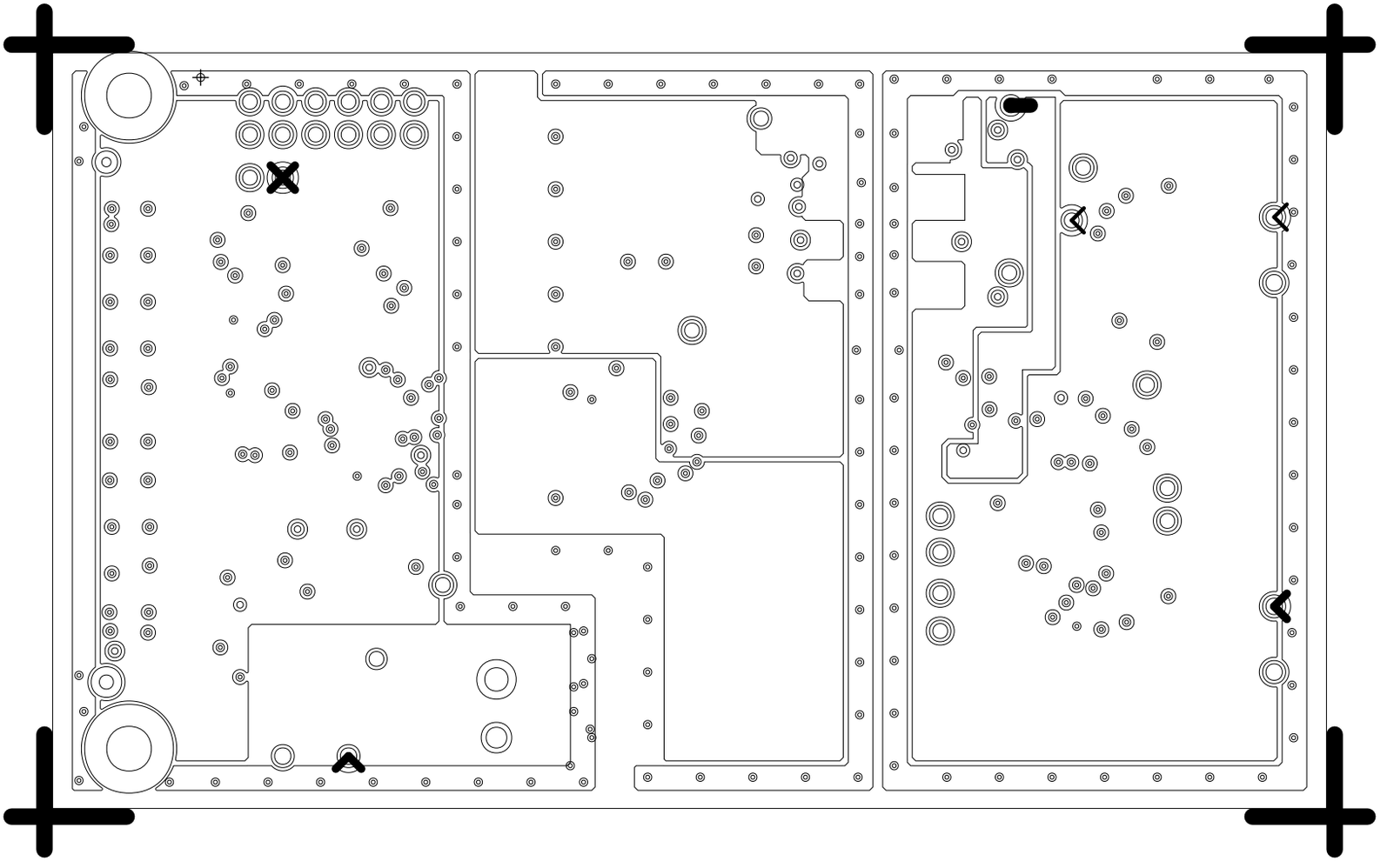
L2 GND
08-037158-07
REV B



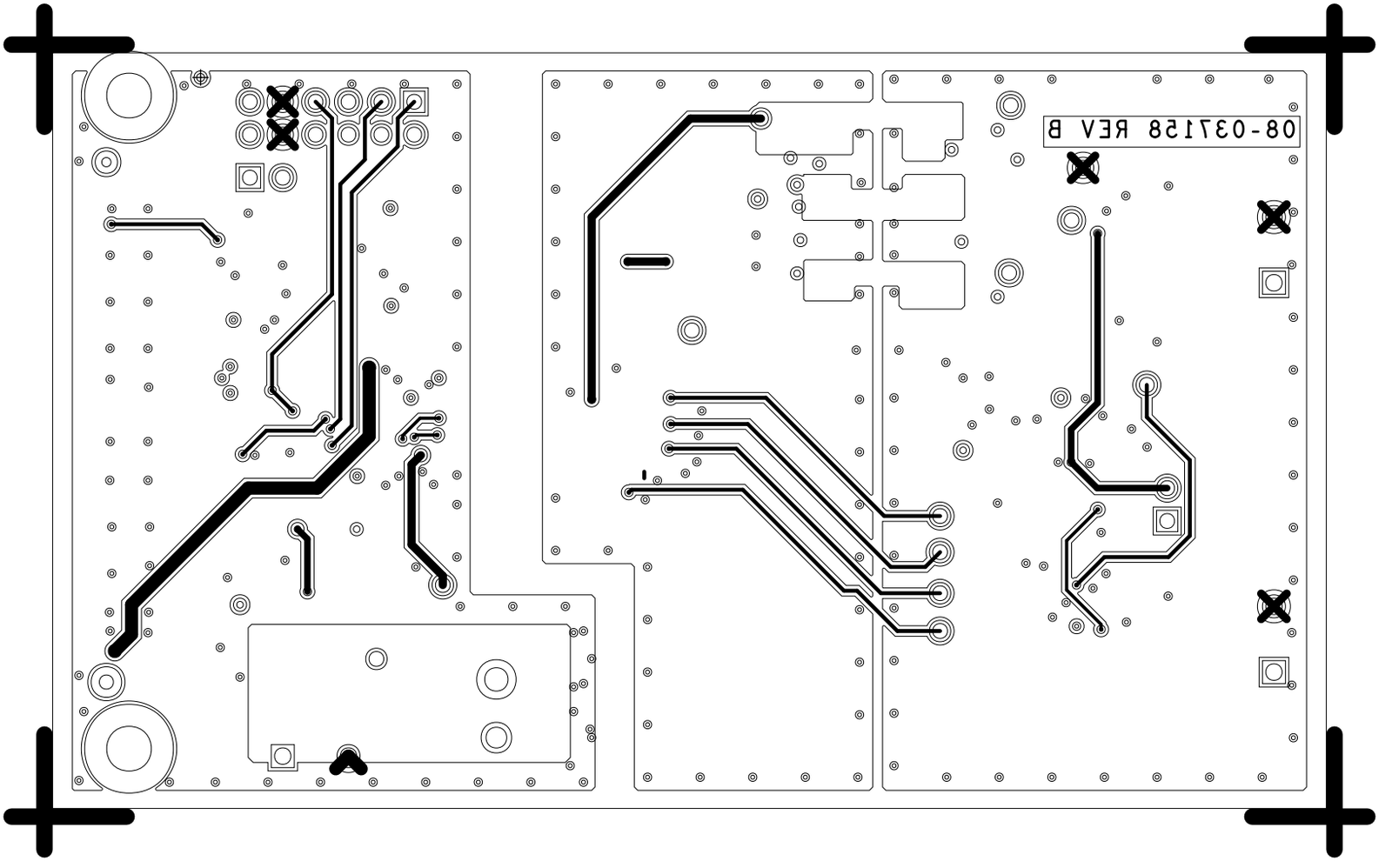
L3 PWR

08-037158-08

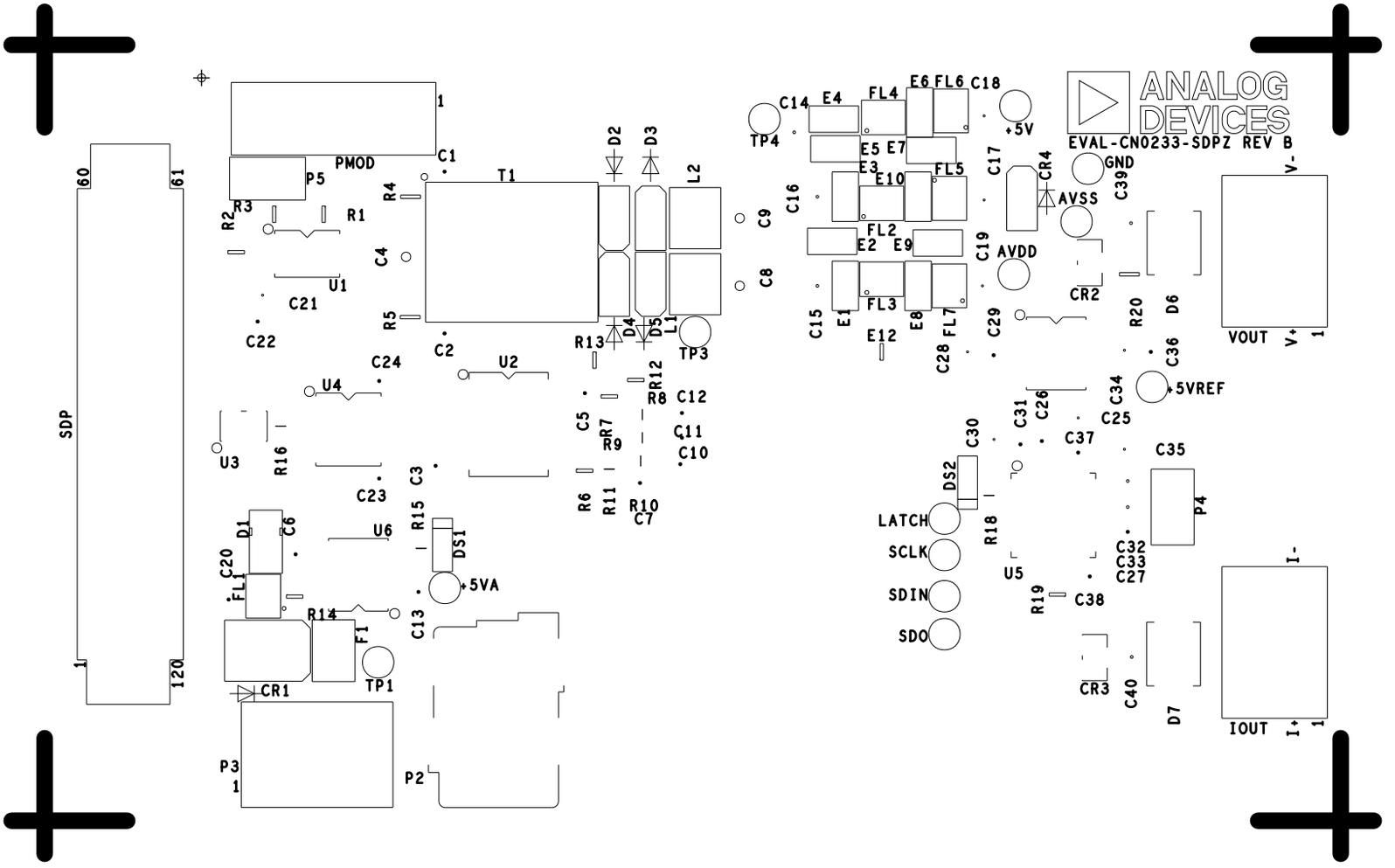
REV B



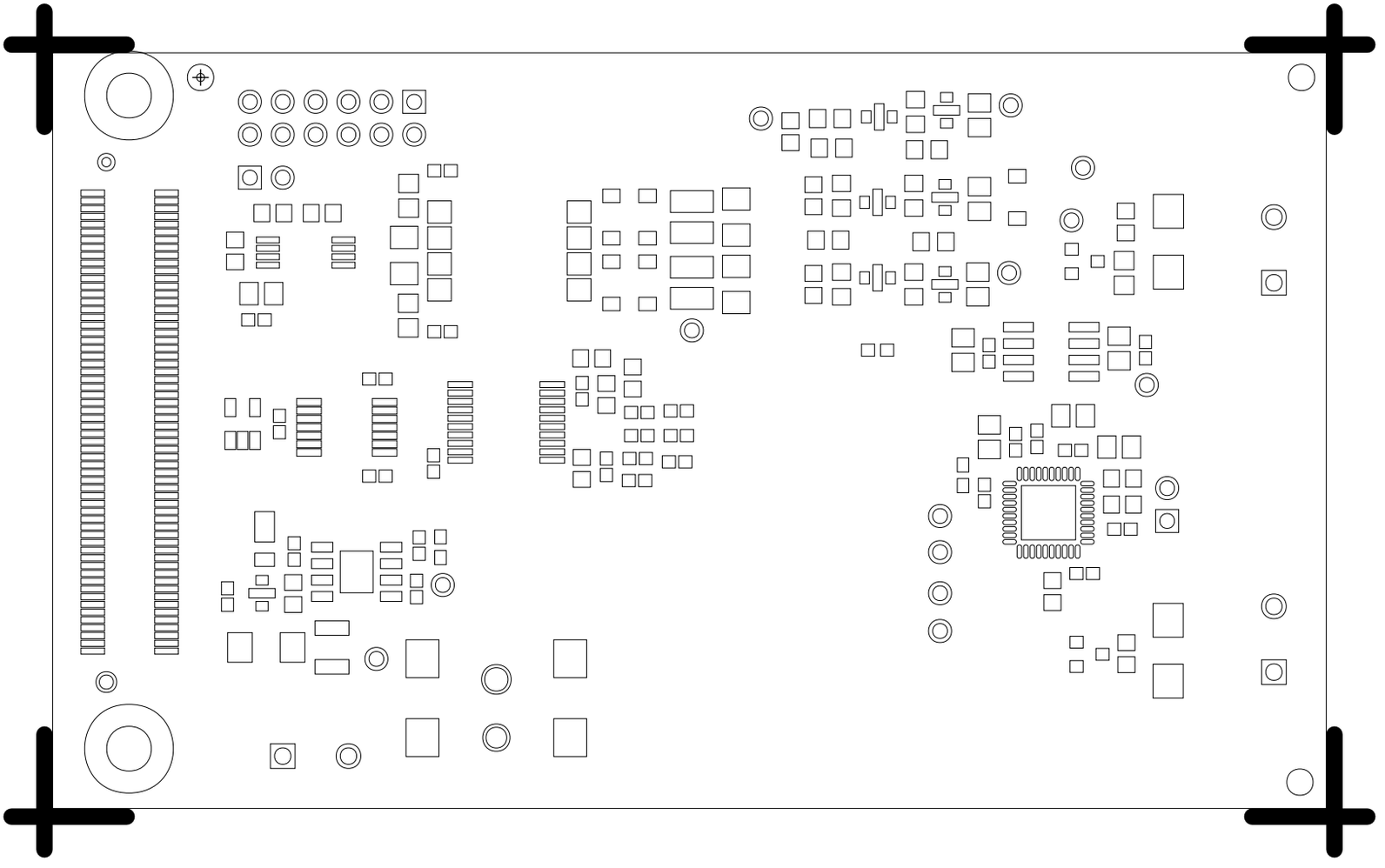
L4 SECONDARY
08-037158-02
REV B



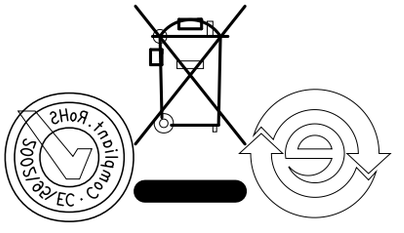
SILKSCREEN PRIMARY
08-037158-03
REV B



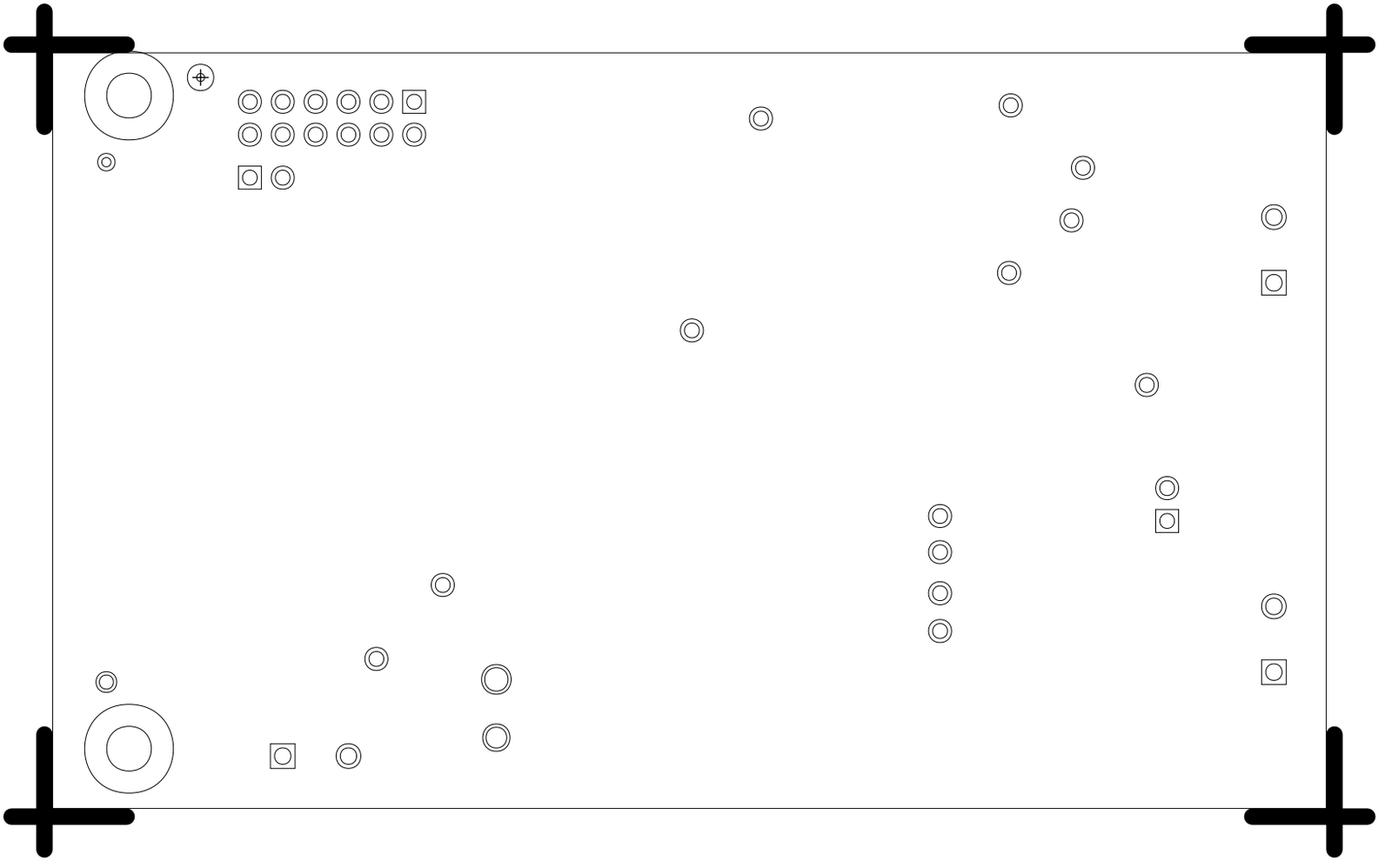
SOLDERMASK PRIMARY
08-037158-04
REV B



SILKSCREEN SECONDARY
08-037158-05
REV B



SOLDERMASK SECONDARY
08-037158-06
REV B



PASTEMASK PRIMARY
08-037158-13
REV B