

PRIMARY SIDE

10 LAYER STACKUP

PRIMARY SILKSCREEN
PRIMARY SOLDER MASK
PRIMARY SIDE (LAYER 1)
0.008" GROUND PLANE (LAYER 2)
0.003" POWER PLANE (LAYER 3)
GROUND PLANE (LAYER 4)
POWER LAYER (LAYER 5)
POWER PLANE (LAYER 6)
GROUND PLANE (LAYER 7)
POWER PLANE (LAYER 8)
0.003" GROUND PLANE (LAYER 9)
0.008" SECONDARY SIDE (LAYER 10)
SECONDARY SOLDER MASK
SECONDARY SILKSCREEN

CHARACTERISTIC IMPEDANCE = 50 OHMS +/- 10%
 ARTWORK LINE WIDTH FOR IMPEDANCE CONTROLLED LINES = 0.0135" FOR LAYER 1 AND 10.
 DIFFERENTIAL IMPEDANCE = 100 OHMS +/- 10%
 ARTWORK LINE WIDTH FOR IMPEDANCE CONTROLLED LINES = 0.0100" FOR LAYER 1 AND 10.

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

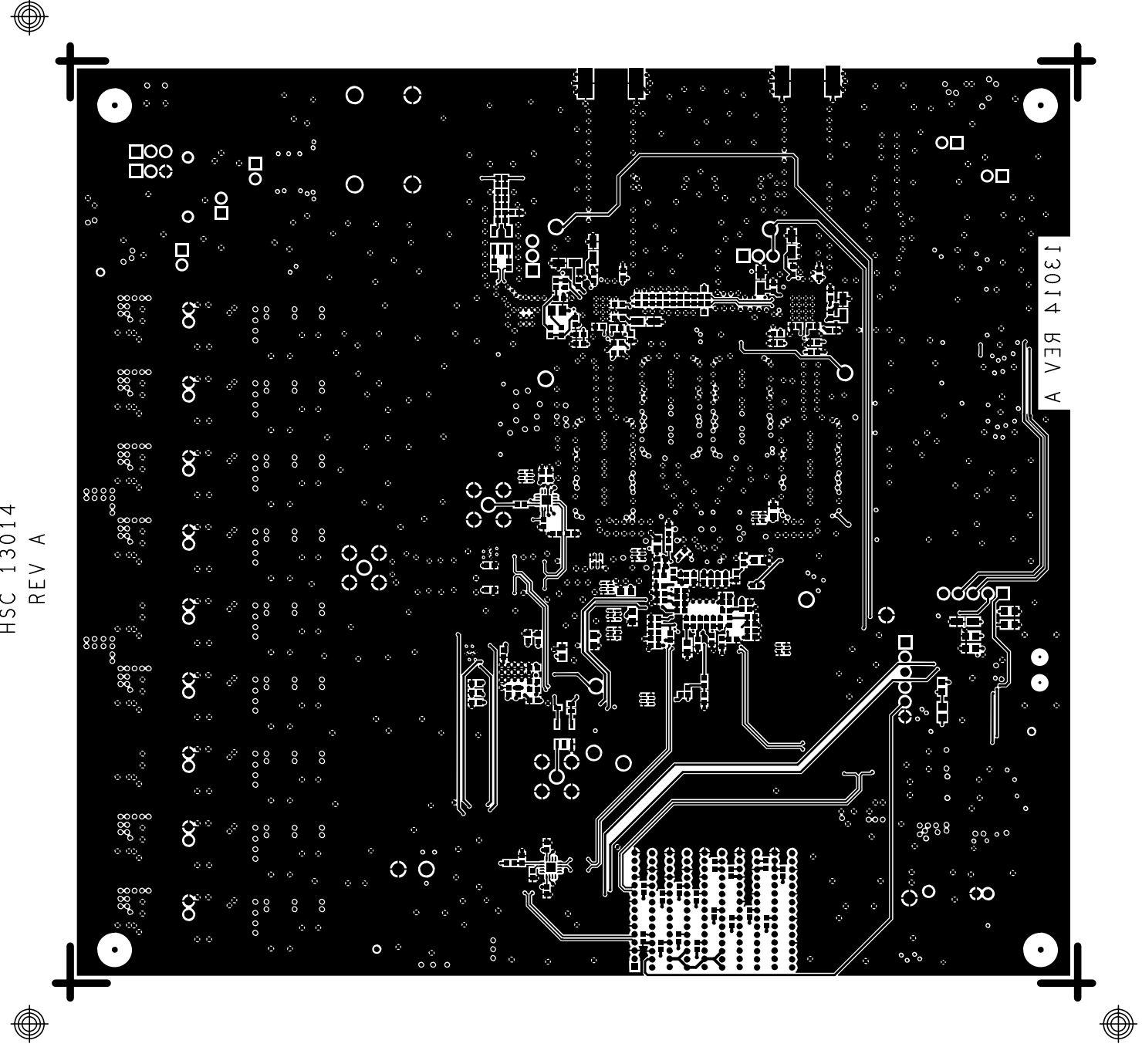
FINISHED HOLES IN MILS			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY TOLERANCE/NOTES
•	6.0	PLATED	88
•	10.0	PLATED	272 SEE NOTE 15
•	12.0	PLATED	456
•	15.0	PLATED	853 SEE NOTE 15
•	16.0	PLATED	50 SEE NOTE 15
•	25.0	PLATED	150
•	35.0	PLATED	2
•	40.0	PLATED	10
•	42.0	PLATED	21
•	45.0	PLATED	23
•	60.0	PLATED	15
•	63.0	PLATED	12
•	75.0	PLATED	4
•	40.0	NON-PLATED	2
•	155.0	NON-PLATED	4

- NOTES:
- MATERIALS: FR-408HR, IN ACCORDANCE WITH IS410 (LATEST REV.), GLASS FABRIC BASE, EPOXY RESIN, FIRE RESISTANT.
 BONDING AGENT: PREIMPREGNATED B STAGE EPOXY GLASS CLOTH IN ACCORDANCE WITH IPC-L-109 (LATEST REV.).
 CLADDING: INTERNAL PLANE LAYERS 1/2 OZ., COPPER, OVERPLATE TO 1 1/2 OZ.
 SOLDER MASK: SHALL BE BLUE LIQUID PHOTOIMAGABLE (LPI) APPLIED ON BOTH SIDES OVER BARE COPPER AND SHALL MEET IPC-SM-840 (LATEST REV.) CLASS 3.
 SILK SCREEN: SHALL BE PERMANENT NON-CONDUCTIVE EPOXY INK, COLOR WHITE.
 U.L. RATING: 94V0 MINIMUM.
- FABRICATION:
- REFER TO IPC-6010 SERIES (LATEST REV.), CLASS 2 FOR FABRICATION UNLESS OTHERWISE SPECIFIED.
 - UNDIMENSIONED HOLES TO BE LOCATED WITHIN +/- .005 OF THEIR TRUE POSITION WITH RESPECT TO ARTWORK.
 - PLATED HOLE WALL THICKNESS SHALL NOT BE LESS THAN .001 INCH MINIMUM AVERAGE, WITH NO READING LESS THAN .0008 BY CROSS SECTION.
 - HOLE DIAMETERS, APPLY AFTER PLATING.
 - FINISHED CONDUCTOR WIDTHS SHALL NOT BE REDUCED FROM THE NOMINAL INDICATED ON THE MASTER PATTERN, BY MORE THAN THE CONDUCTOR THICKNESS.
 - MINIMUM DESIGN LINE WIDTH IS .005 INCH.
 - MINIMUM DESIGN SPACING IS .005 INCH.
 - BOARD/PANEL MUST MEET IPC-A-600 (LATEST REV.) CLASS 2 FOR FLATNESS.
 - 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 B. MFGR. LOGO C. FLAMMABILITY RATING D. DATE CODE (STAMP) E. SUCCESSFUL ELECTRICAL BOARD TEST.
 - NON-FUNCTIONAL PADS MAY BE REMOVED FROM INNER SIGNAL LAYERS AT MFGR. DISCRETION.
 - IF PAD SIZES PROVIDED ARE NOT LARGE ENOUGH TO MAINTAIN ANNULAR RING REQUIREMENT, MFGR. MAY TEAR DROP PADS TO MAINTAIN ANNULAR RING AT PAD TO CIRCUIT INTERFACE ONLY AND MUST INSURE ELECTRICAL INTEGRITY.
 - REPAIRS PER IPC-R-700 ARE ALLOWED.
 - MODIFICATIONS TO THE ARTWORK, OTHER THAN THOSE DESCRIBED ON THE FABRICATION DRAWING, ARE NOT ALLOWED WITHOUT WRITTEN AUTHORIZATION.
 - FINISH: SURFACES SHALL HAVE ENIG FINISH PLATED WITH 2-6 MICROINCHES OF IMMERSION GOLD OVER 100-200 MICROINCHES OF ELECTROLESS NICKEL. VIAS INDICATED TO BE NON-CONDUCTIVE EPOXY FILLED, AND GROUND FLUSH PRIOR TO OVER PLATING.

REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	26MAR13	T.G.

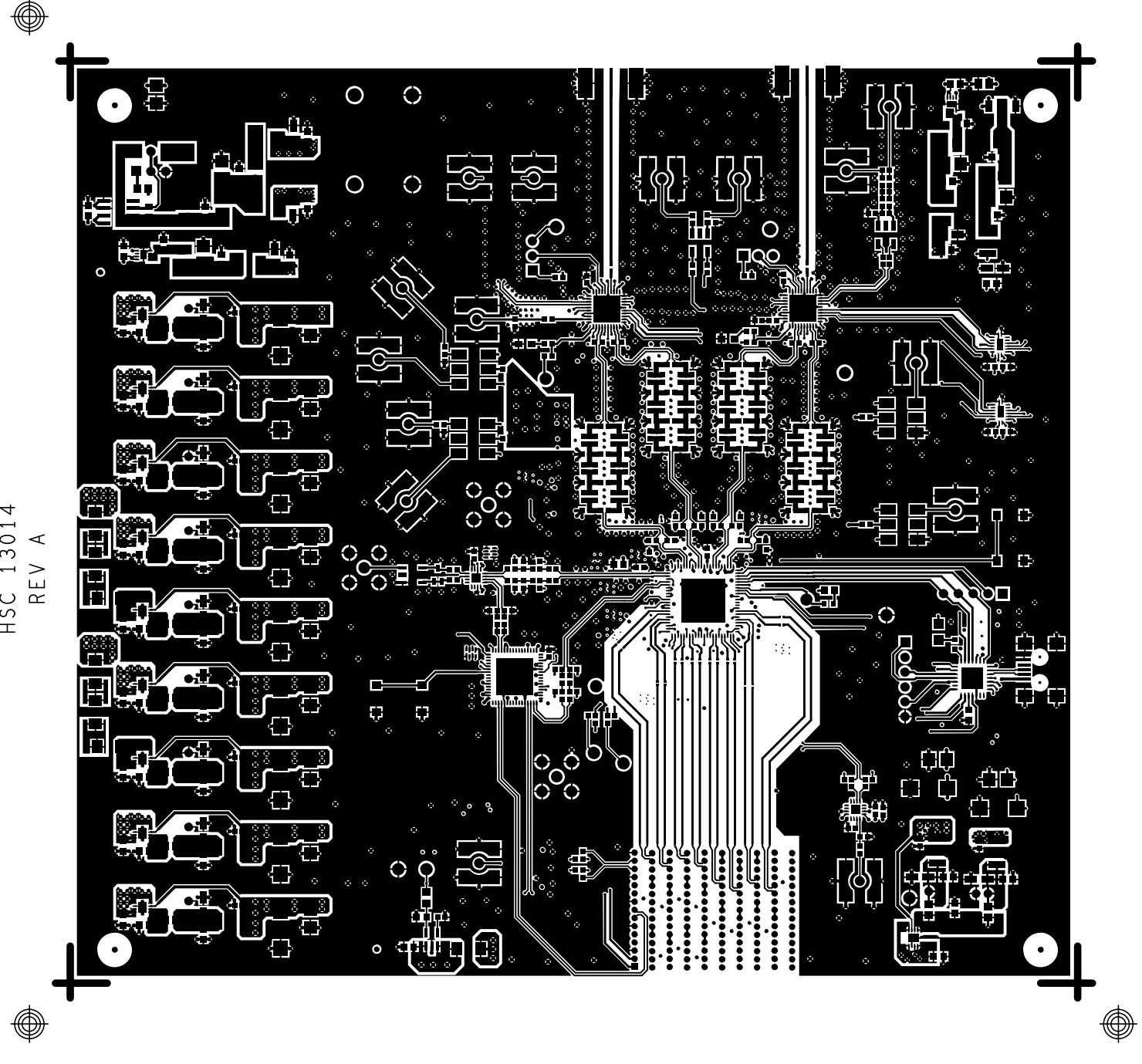
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS FRACTIONS ANGLES .XX .XXX .000 .11.32 .1.2	 ANALOG DEVICES HSC DIVISION 804 WILMINGTON ROAD WILMINGTON, MA 01887	TITLE	AD9154 EVAL BOARD
		DATE	14MAR13
MATERIAL		APPROVAL	
		DESIGNED	
		CHECKED	
		APPROVED	
FINISH		FSCM NO	DRAWING NUMBER
		D	HSC 13014
		SCALE	1/1
DO NOT SCALE DWG		SHEET	1 OF 1

L10 SECONDARY
HSC 13014
REV. A

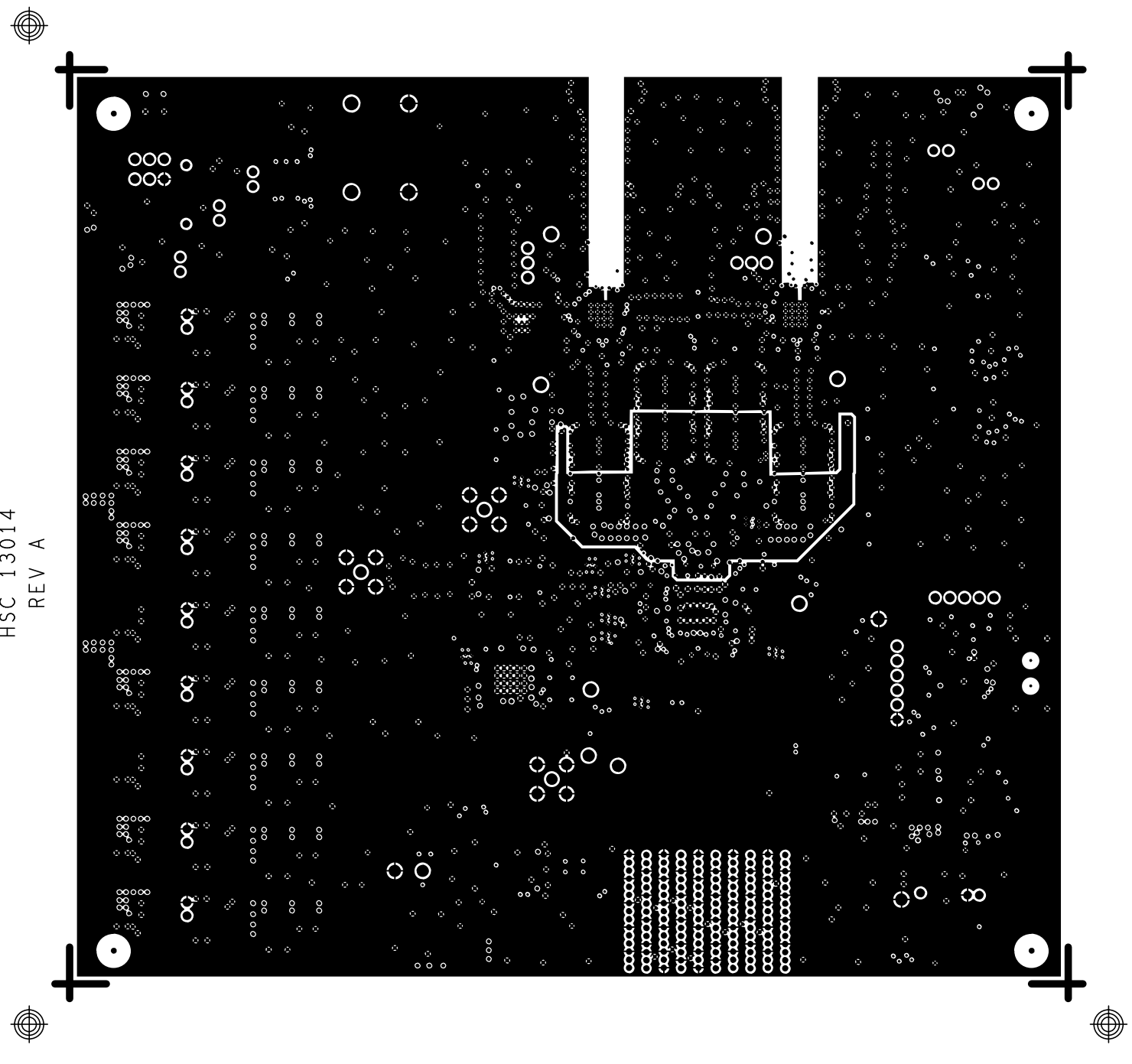


13014 REV. A

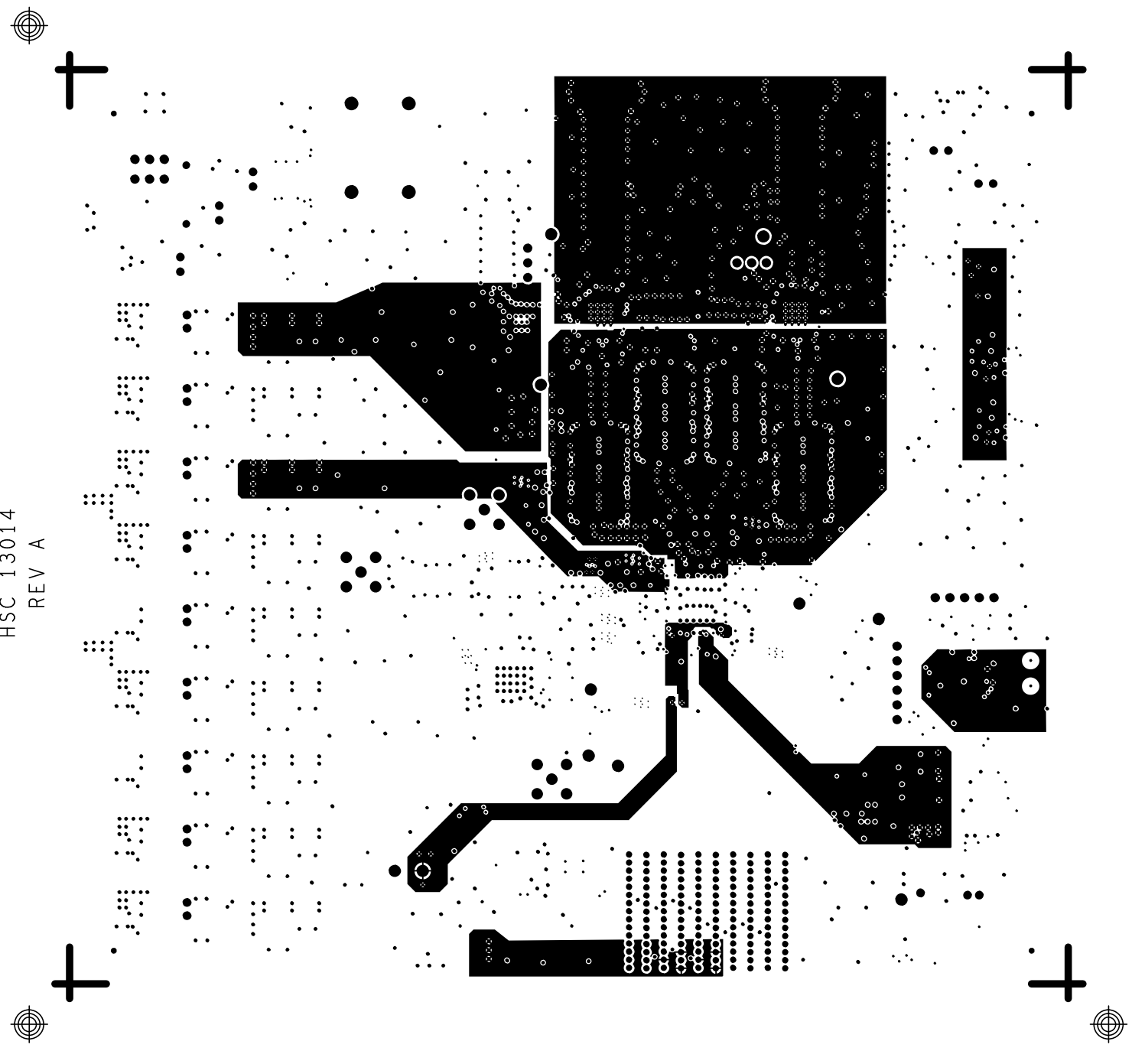
L1 PRIMARY
HSC 13014
REV A



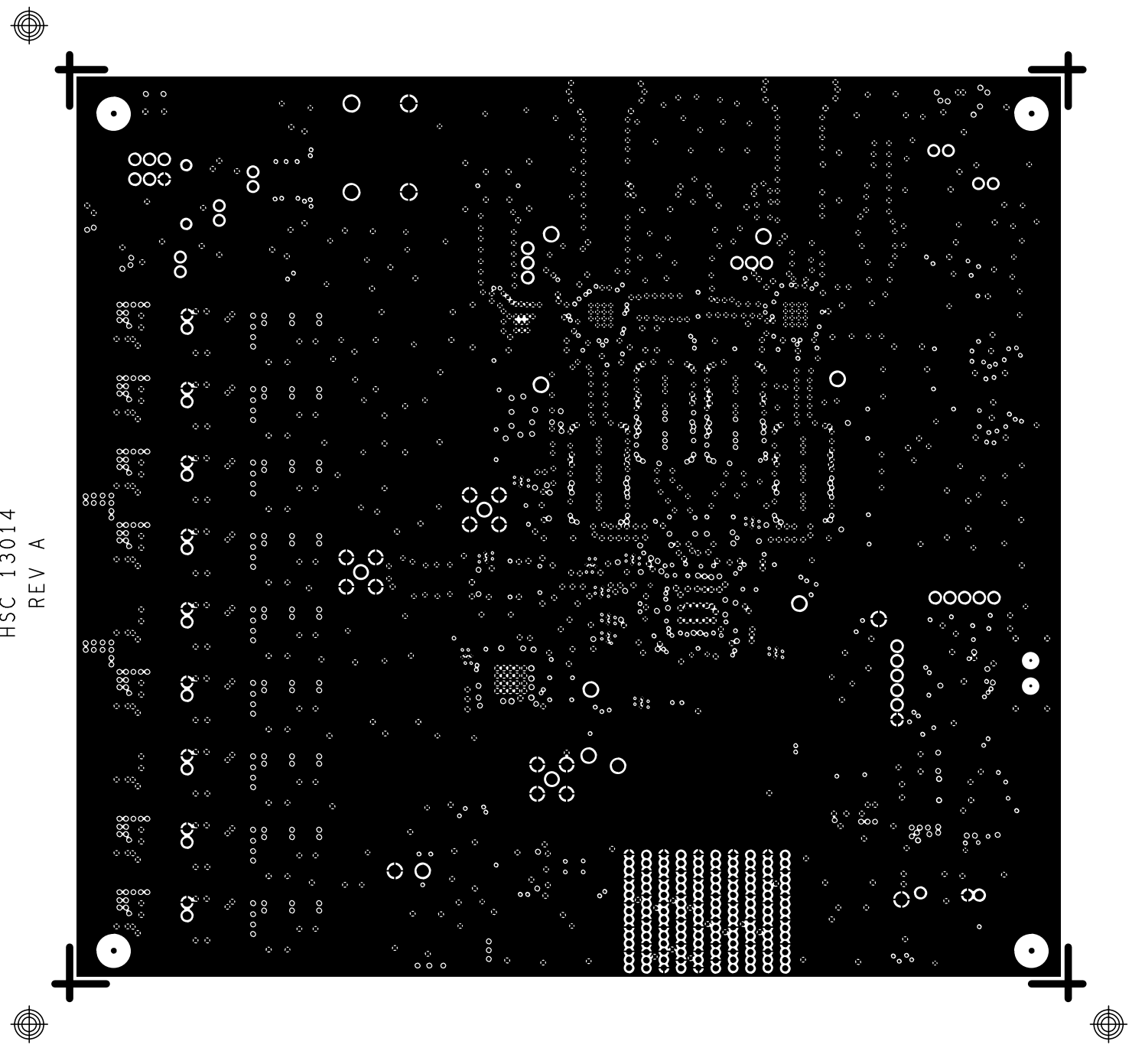
L2 GROUND
HSC 13014
REV A



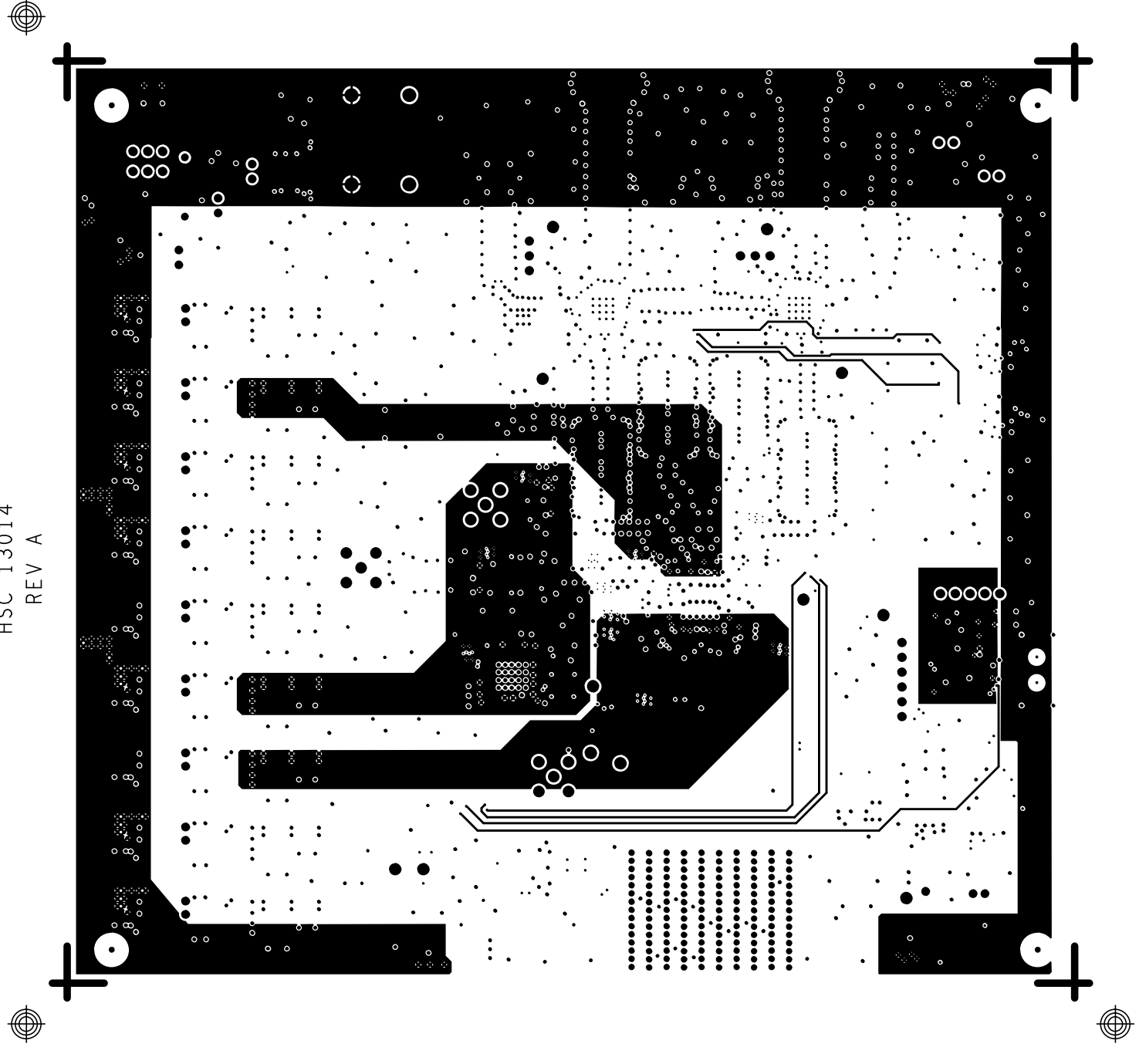
L3 POWER
HSC 13014
REV A



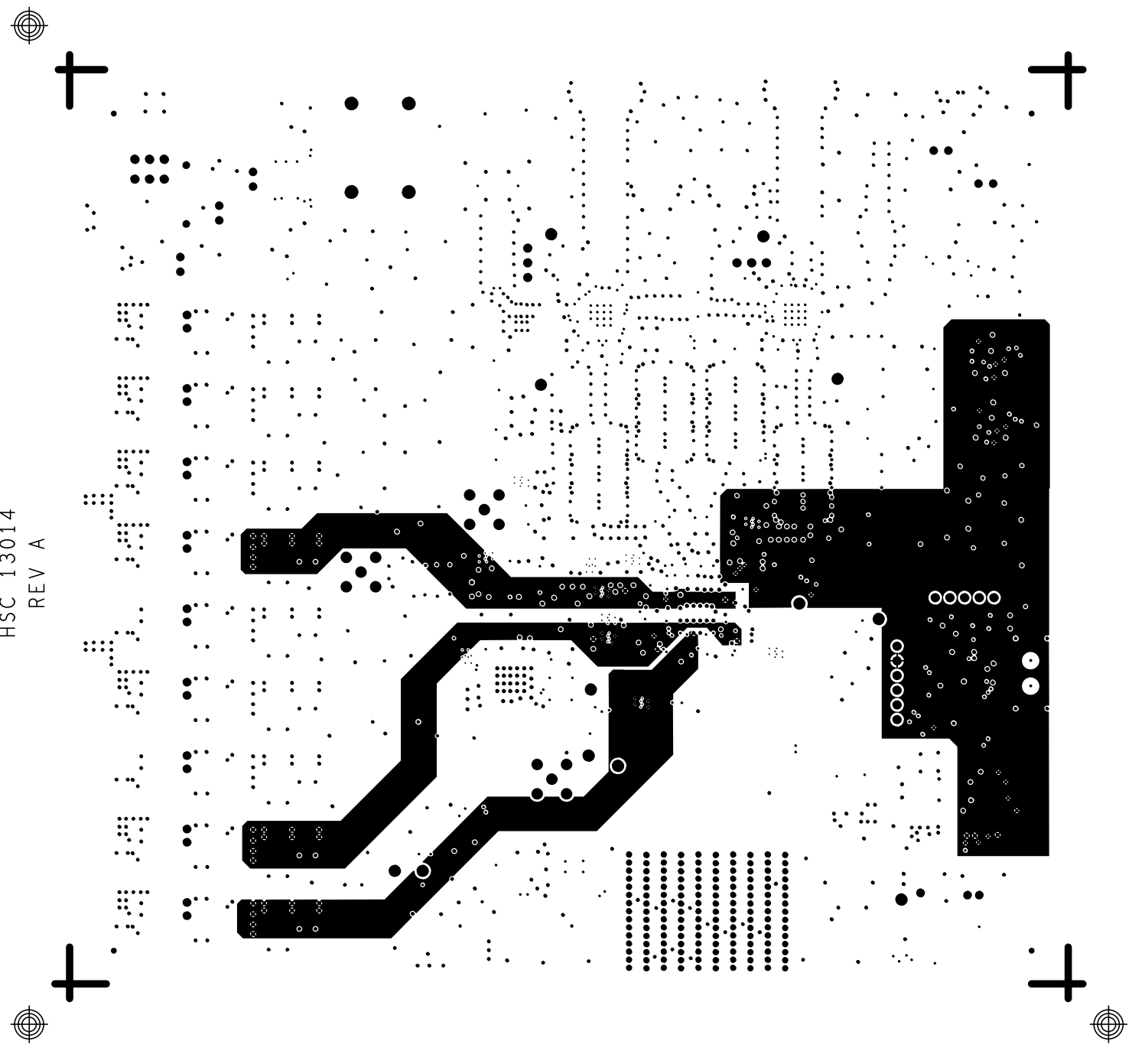
L4 GROUND
HSC 13014
REV A



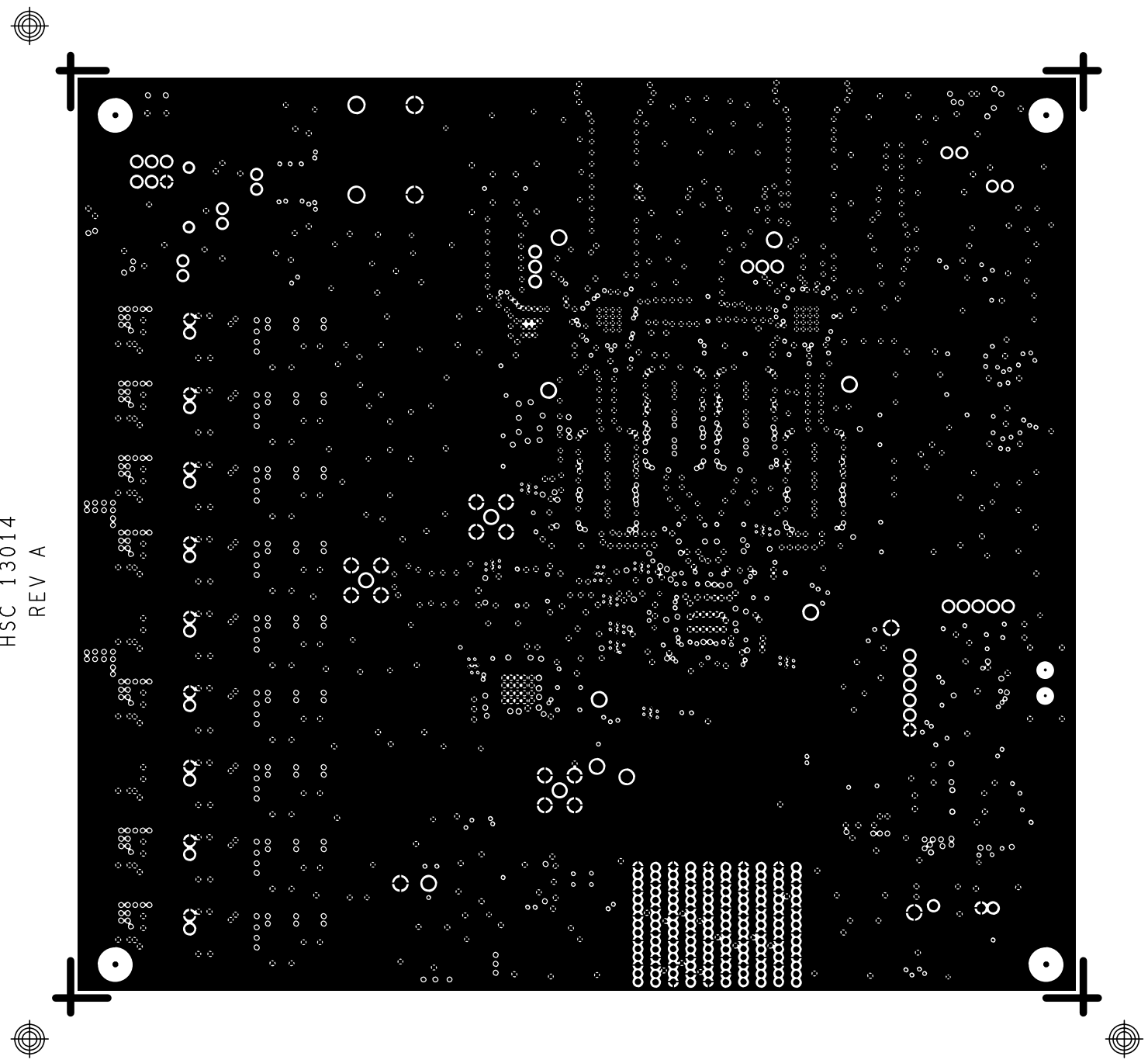
L5 POWER
HSC 13014
REV A



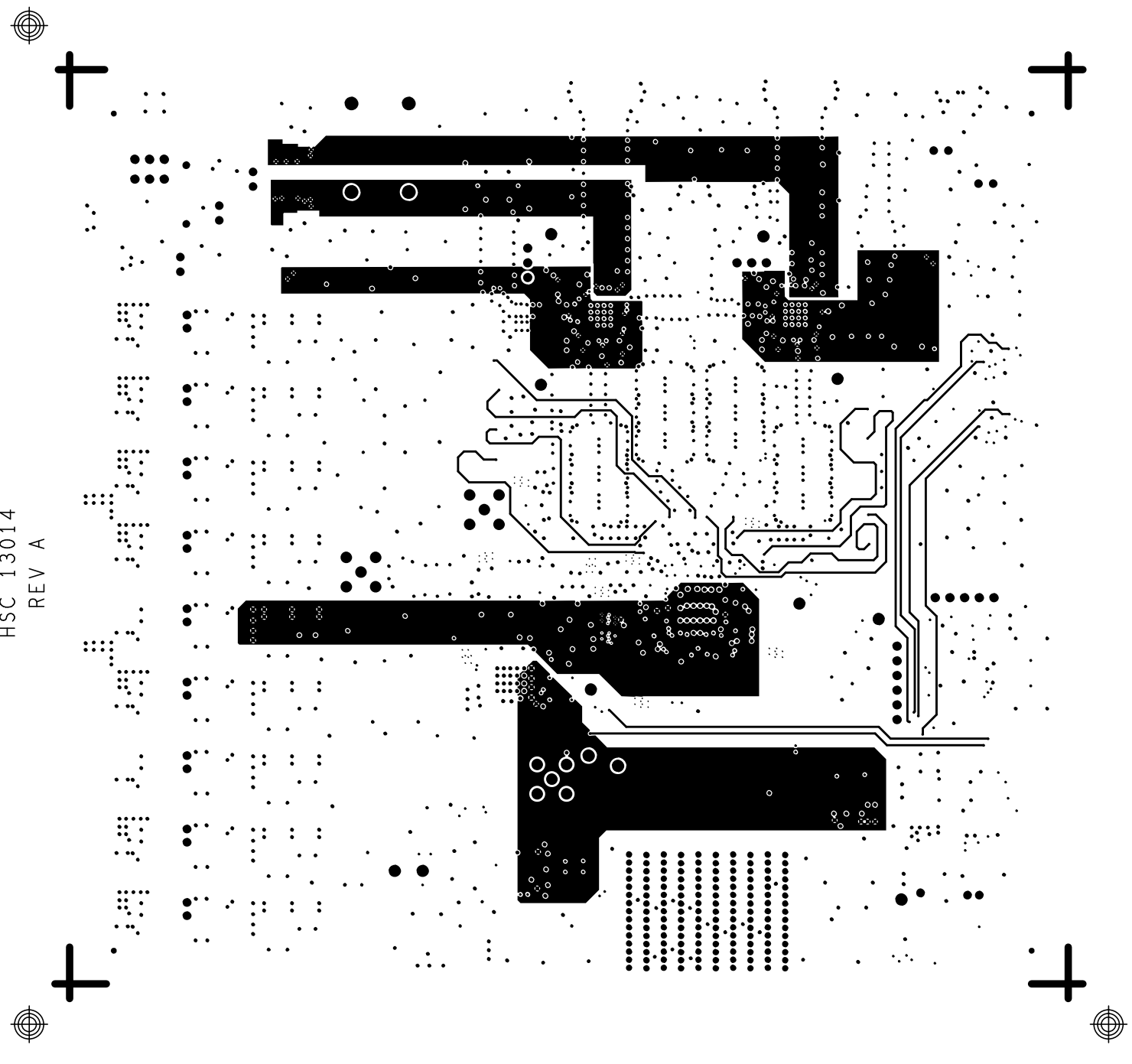
L6 POWER
HSC 13014
REV A



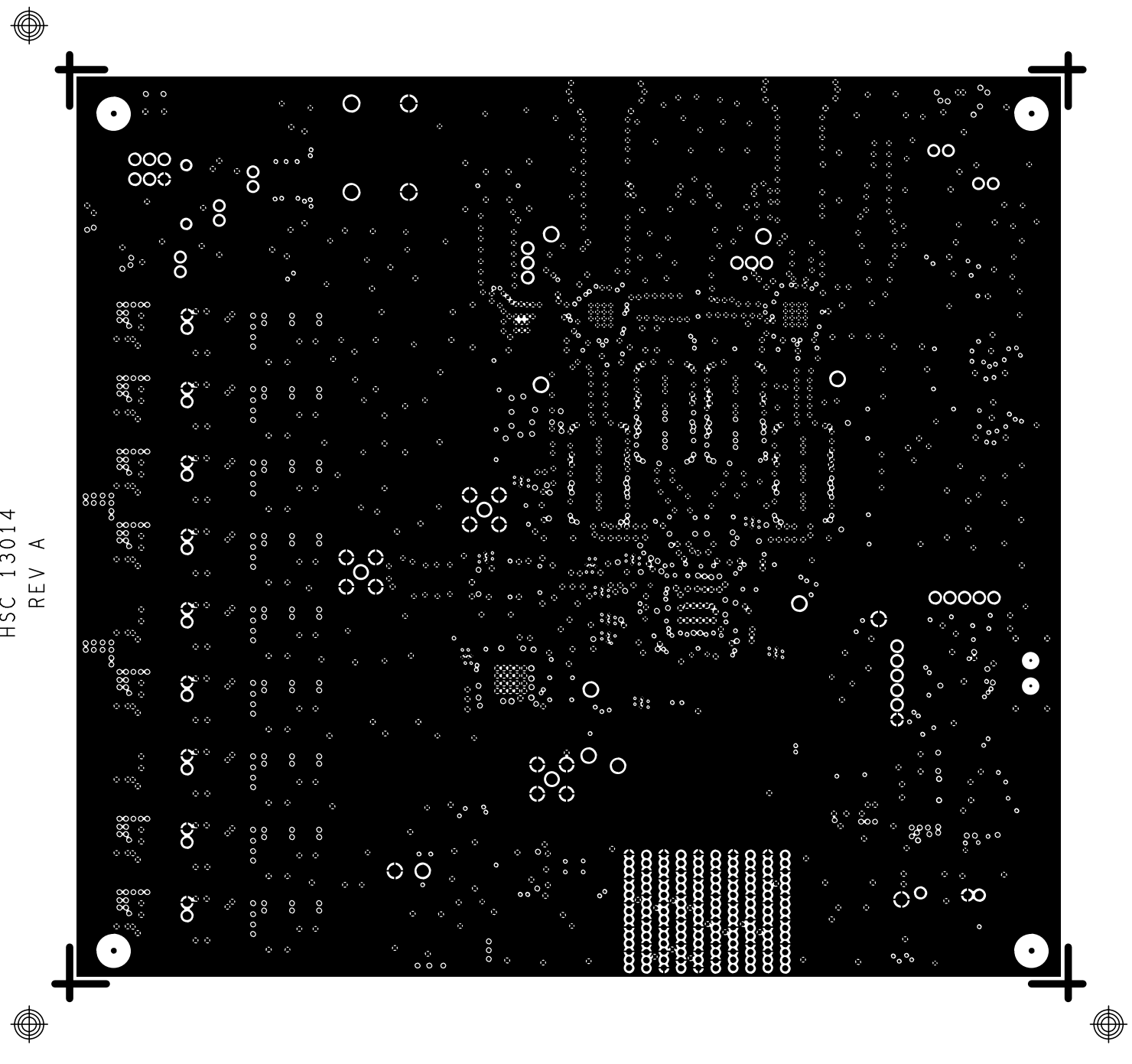
L7 GROUND
HSC 13014
REV A



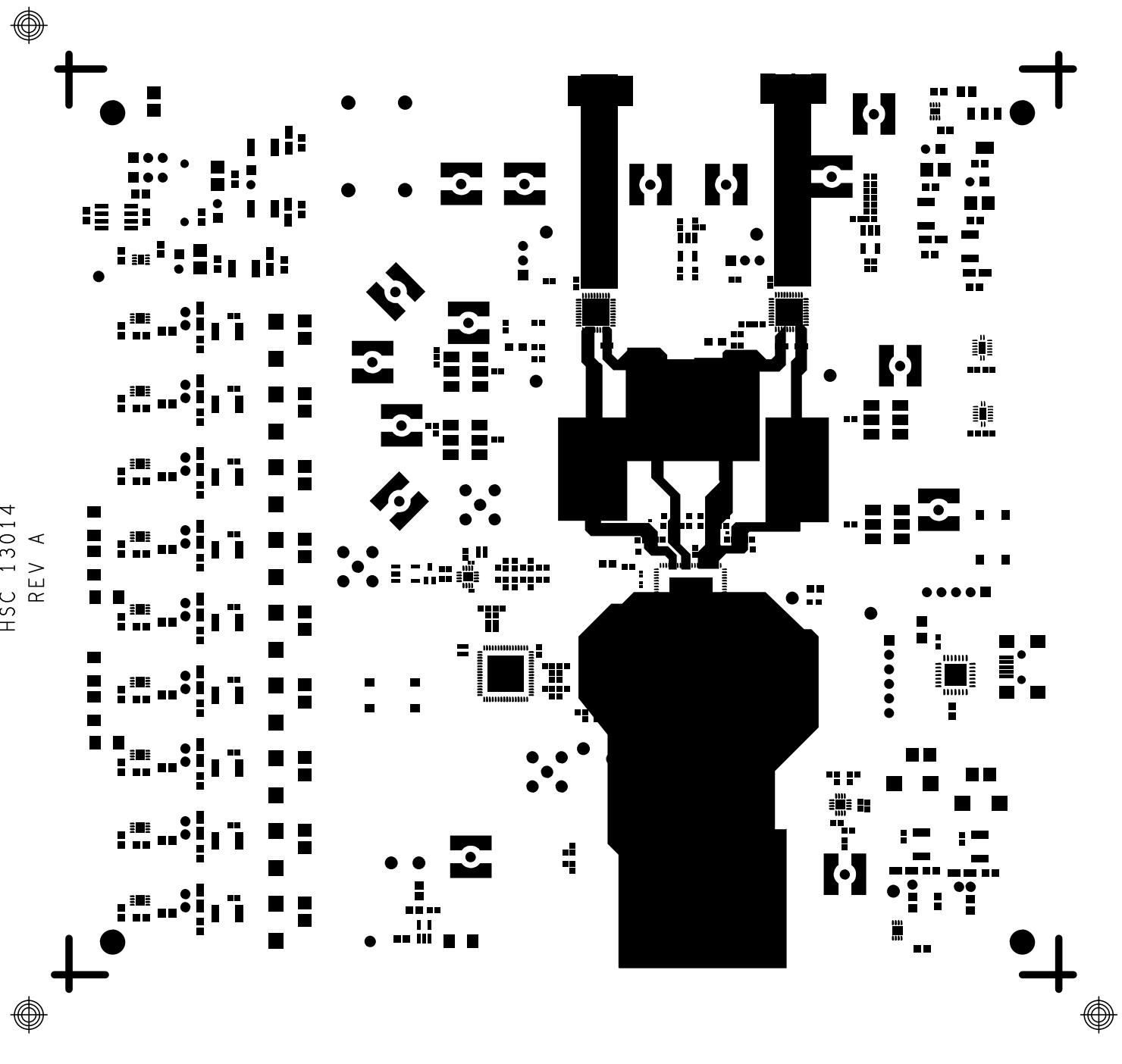
L8 POWER
HSC 13014
REV A



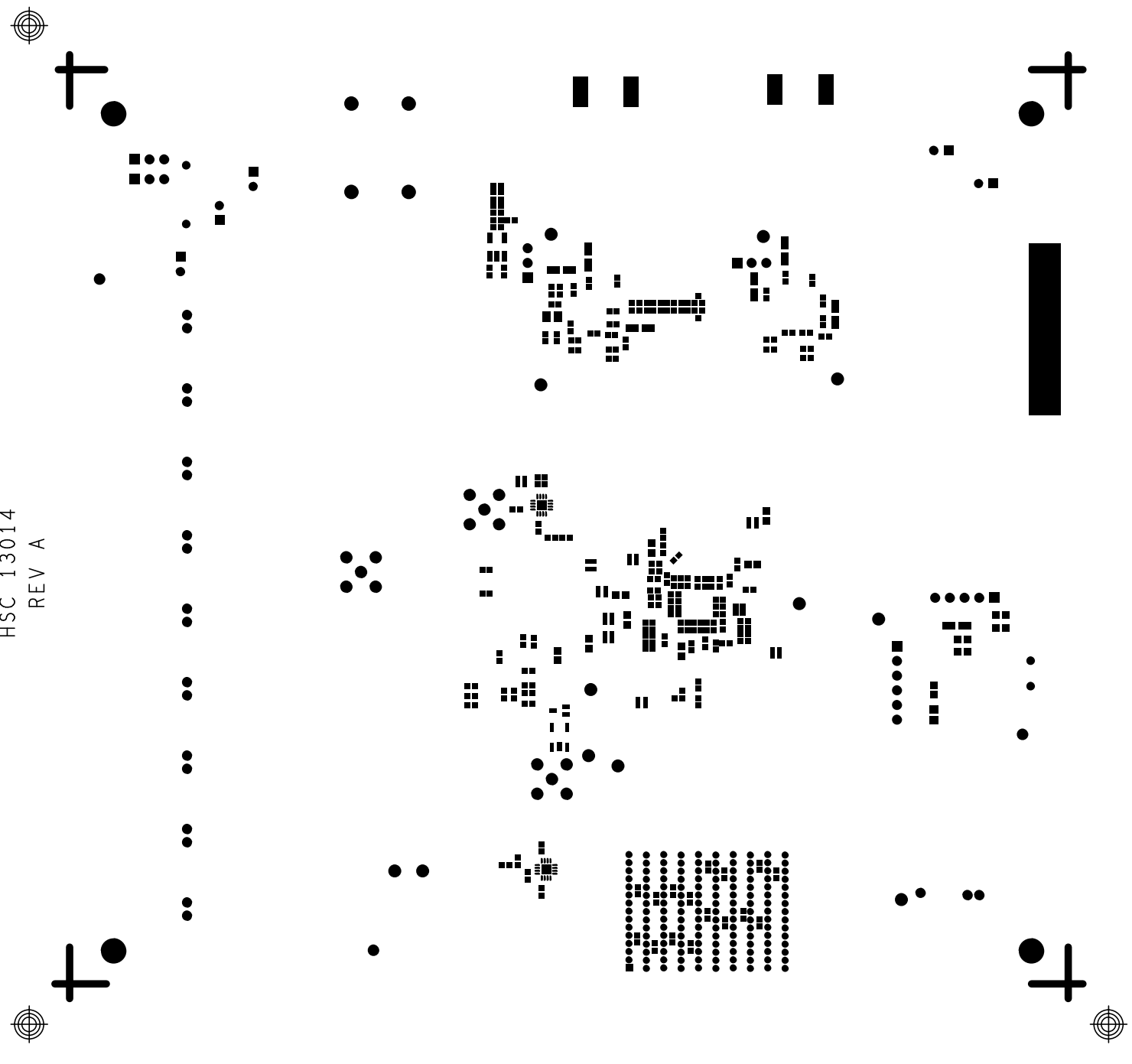
L9 GROUND
HSC 13014
REV A



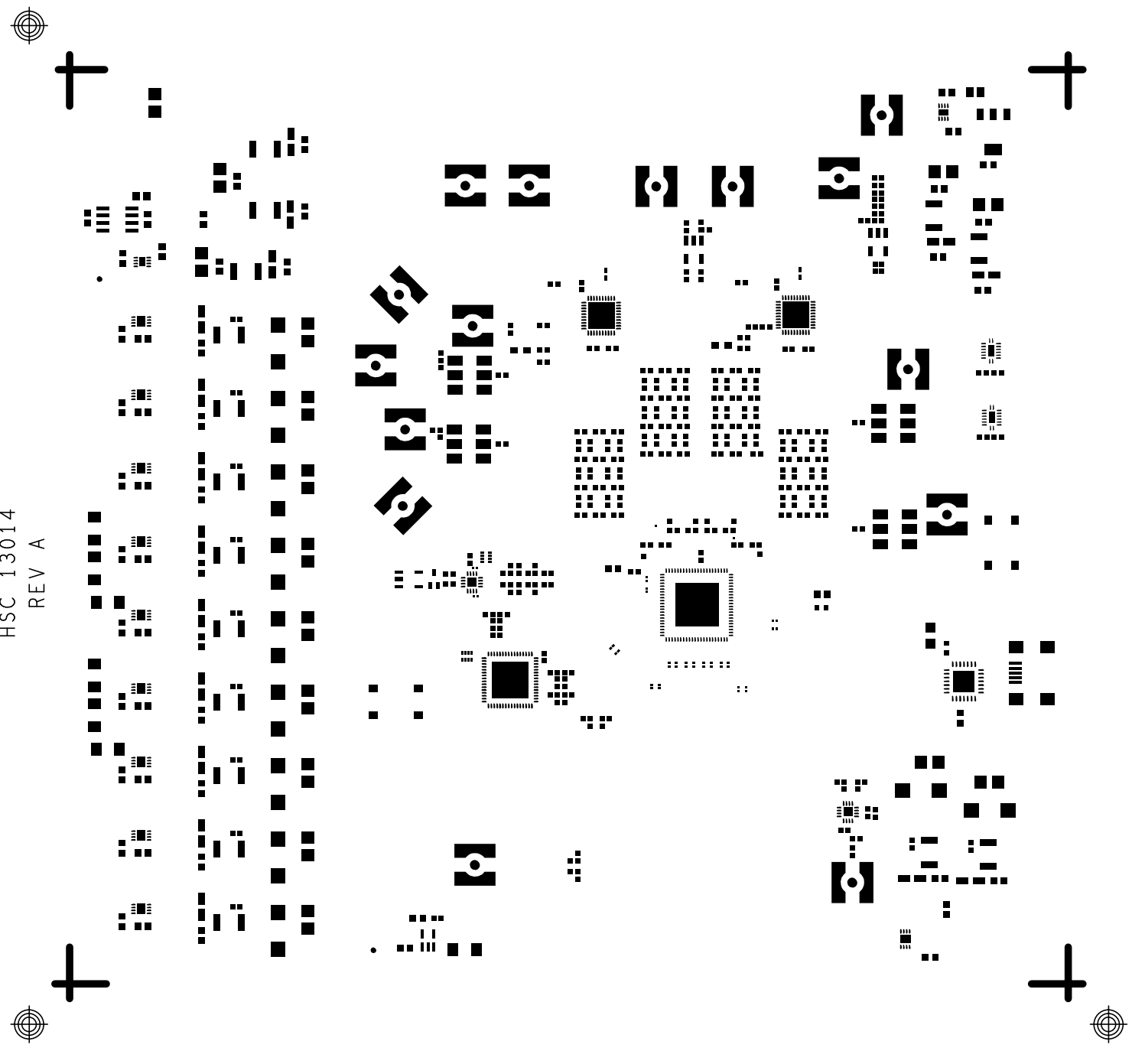
SOLDERMASK_PRIMARY
HSC_13014
REV_A



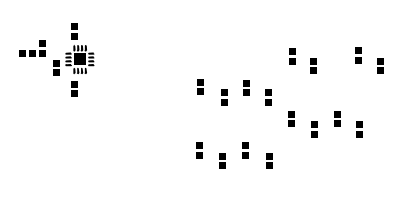
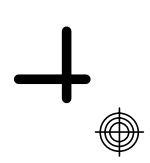
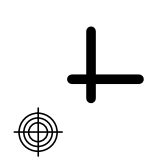
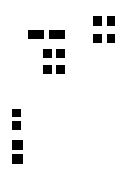
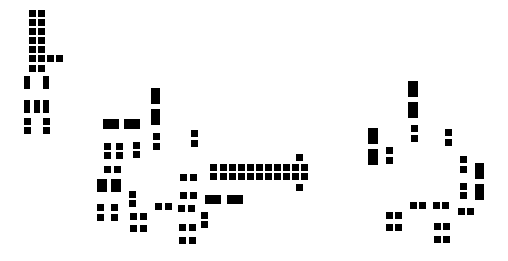
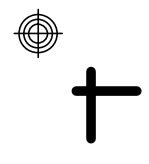
SOLDERMASK_SECONDARY
HSC_13014
REV_A



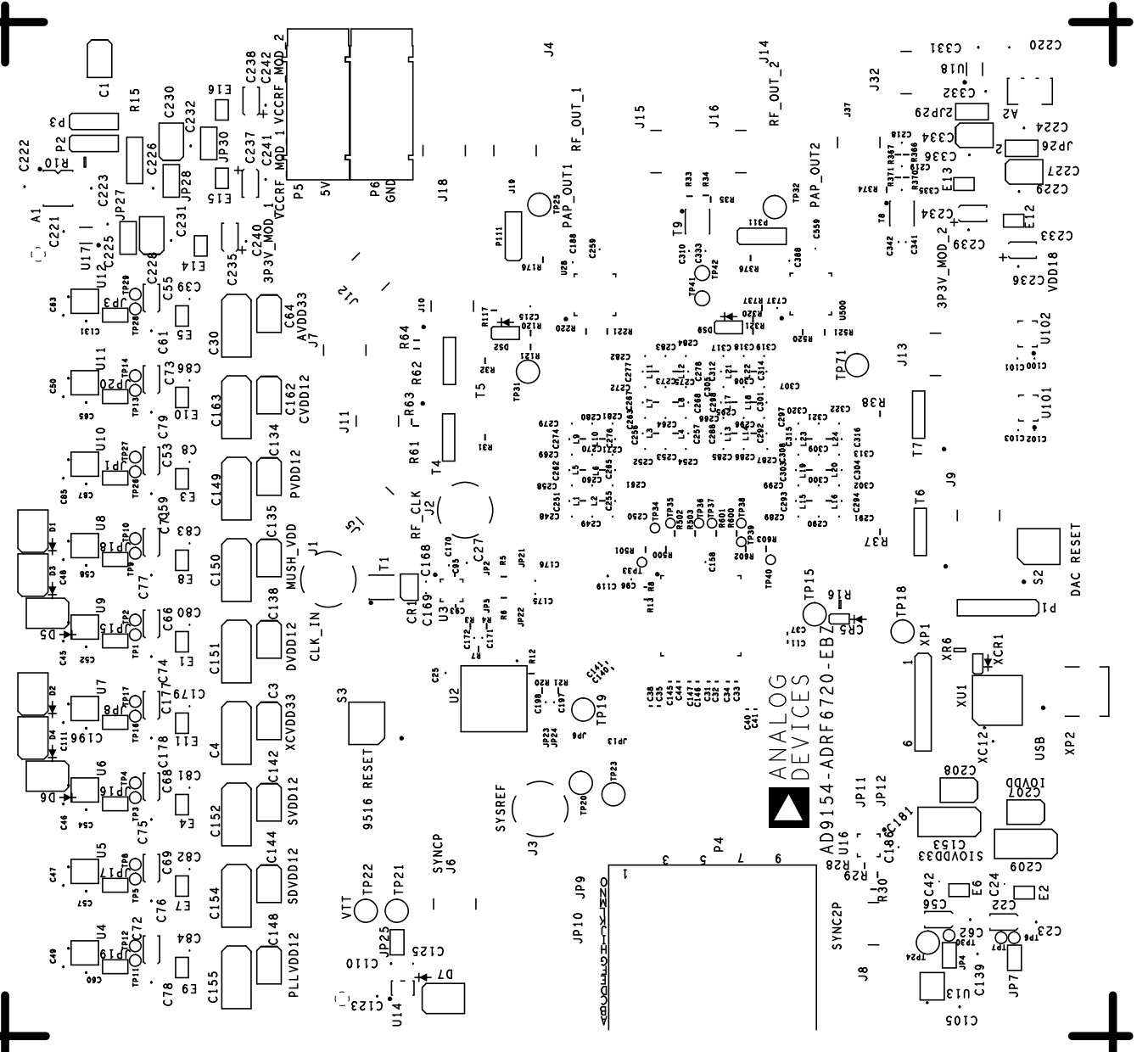
PASTEMASK_PRIMARY
HSC_13014
REV_A



PASTEMASK SECONDARY
HSC 13014
REV A



SILKSCREEN PRIMARY
HSC 13014
REV A



SILKSCREEN SECONDARY
HSC 13014
REV A



159L 216
859L
DEFUL

159L 216
859L
DEFUL

