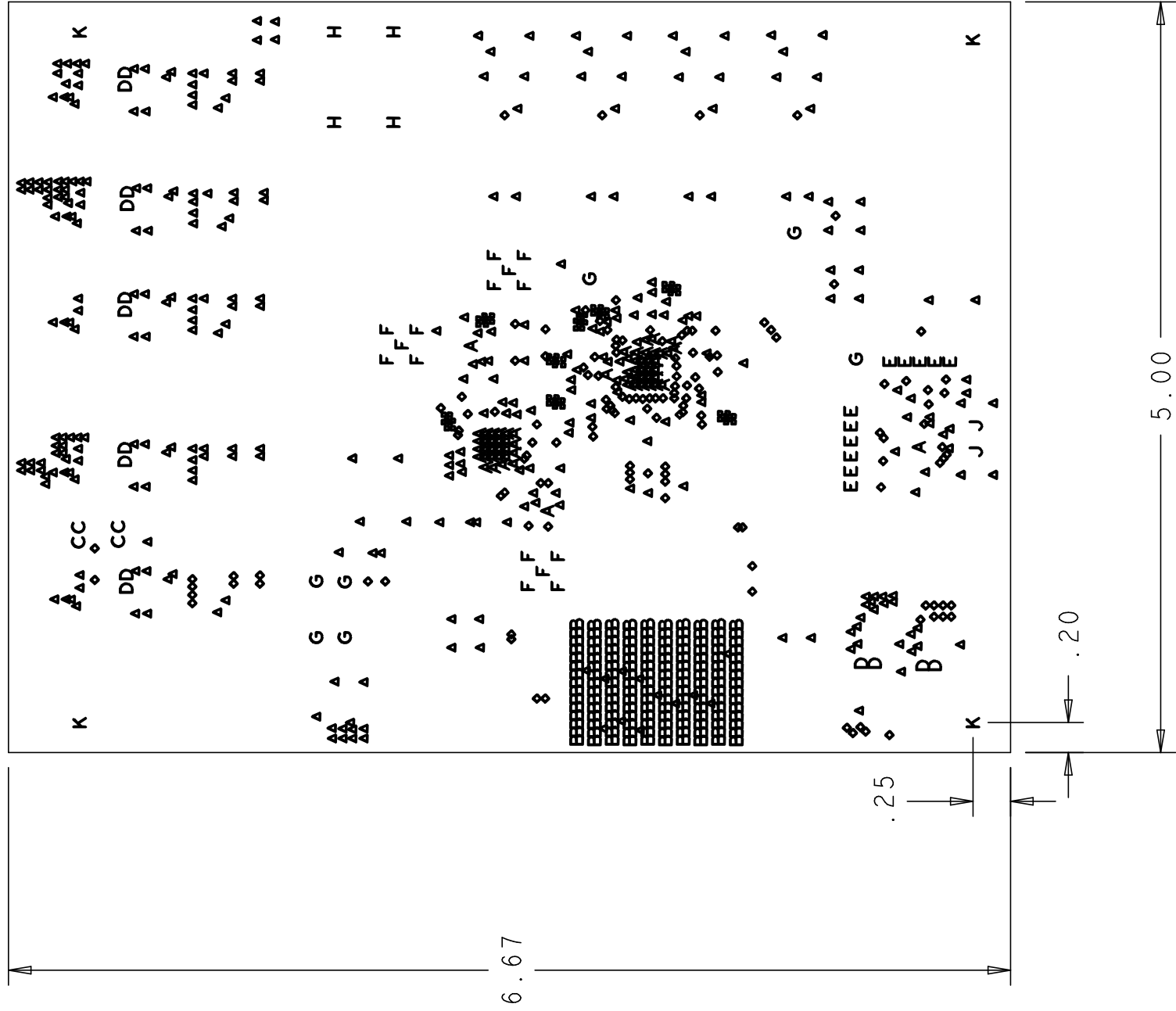




PRIMARY SIDE

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 = 0.0155" 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
A	6.0	PLATED	64
B	10.0	PLATED	141
A	15.0	PLATED	349
A	16.0	PLATED	61 SEE NOTE 15
B	25.0	PLATED	150
C	40.0	PLATED	4
D	42.0	PLATED	14
E	45.0	PLATED	11
F	60.0	PLATED	15
G	63.0	PLATED	7
H	75.0	PLATED	4
J	40.0	NON-PLATED	2
K	155.0	NON-PLATED	4

NOTES:

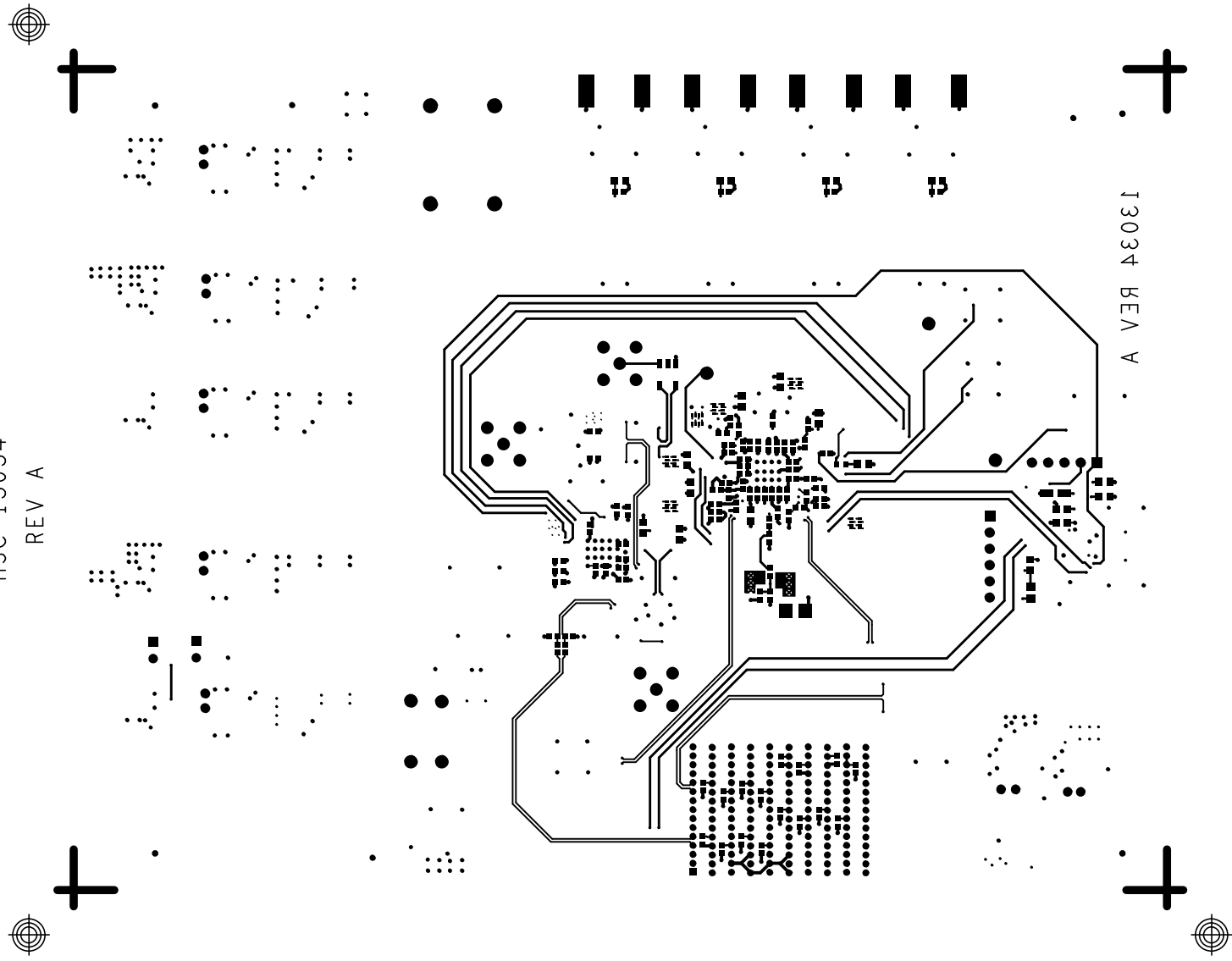
- MATERIALS# FR-408HR, IN ACCORDANCE WITH IS410 (LATEST REV.). GLASS FABRIC BASE, EPOXY RESIN, FIRE RESISTANT.
BONDING AGENT# PREIMPREGNATED B STAGE EPOXY GLASS CLOTH IN ACCORDANCE WITH IPC-L-109 (LATEST REV.).
CLADDING# INTERNAL PLANE LAYERS 1/2 OZ. COPPER, OVERPLATE TO 1 1/2 OZ.
SOLDER MASK# SHALL 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:

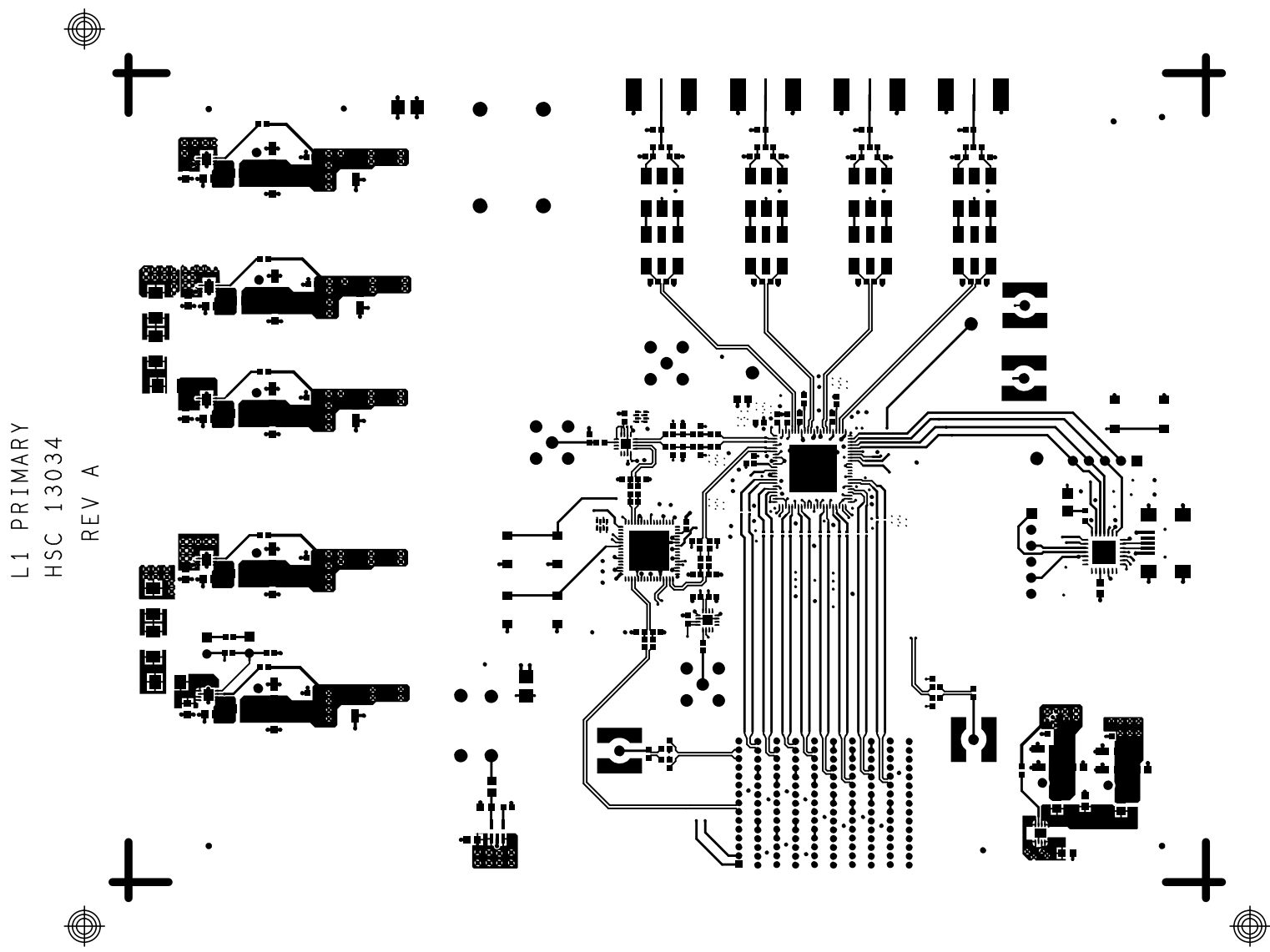
1. REFER TO IPC-6010 SERIES (LATEST REV.), CLASS 2 FOR FABRICATION UNLESS OTHERWISE SPECIFIED.
2. UNDIMENSIONED HOLES TO BE LOCATED WITHIN +/- .005 OF THEIR TRUE POSITION WITH RESPECT TO ARTWORK.
3. PLATED HOLE WALL THICKNESS SHALL NOT BE LESS THAN .001 INCH MINIMUM AVERAGE, WITH NO READING LESS THAN .0008 BY CROSS SECTION.
4. HOLE DIAMETERS APPLY AFTER PLATING.
5. FINISHED CONDUCTOR WIDTHS SHALL NOT BE REDUCED FROM THE NOMINAL, INDICATED ON THE MASTER PATTERN, BY MORE THAN THE CONDUCTOR THICKNESS.
6. MINIMUM DESIGN LINE WIDTH IS .005 INCH.
7. MINIMUM DESIGN SPACING IS .005 INCH.
8. BOARD/PANEL MUST MEET IPC-A-600 (LATEST REV.) CLASS 2 FOR FLATNESS.
9. MFR. 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 D. MFR. LOGO
B. DATE CODE (STAMP) E. SUCCESSFUL ELECTRICAL BOARD TEST.
C. FLAMMABILITY RATING
10. NON-FUNCTIONAL PADS MAY BE REMOVED FROM INNER SIGNAL LAYERS AT MFR. DISCRETION.
11. IF PAD SIZES PROVIDED ARE NOT LARGE ENOUGH TO MAINTAIN ANNULAR RING REQUIREMENT, MFR. MAY TEAR DROP PADS TO MAINTAIN ANNULAR RING AT PAD TO CIRCUIT INTERFACE ONLY AND MUST INSURE ELECTRICAL INTEGRITY.
12. REPAIRS PER IPC-R-700 ARE ALLOWED.
13. MODIFICATIONS TO THE ARTWORK, OTHER THAN THOSE DESCRIBED ON THE FABRICATION DRAWING, ARE NOT ALLOWED WITHOUT WRITTEN AUTHORIZATION.
14. FINISH: SURFACES SHALL HAVE ENIG FINISH PLATED WITH 2-6 MICROINCHES OF IMMERSION GOLD OVER 100-200 MICROINCHES OF ELECTROLESS NICKEL.
15. 0.016 VIAS TO BE NON-CONDUCTIVE EPOXY FILLED, AND GROUND FLUSH PRIOR TO OVER PLATING...

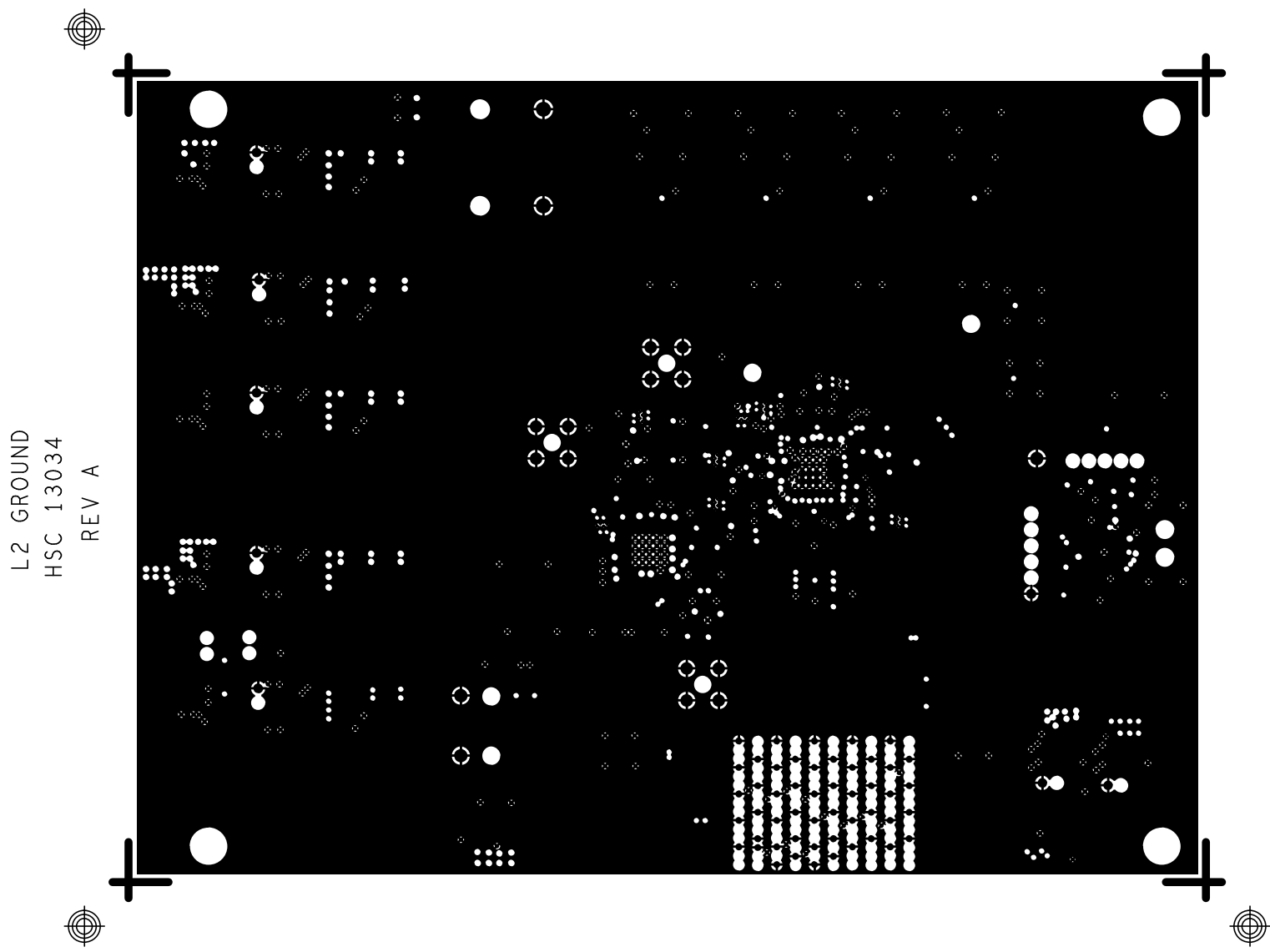
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES .XXX .XX .XX .000 +1.00 -1.00 +.25	 NCDRILL	ANALOG DEVICES				HSC DIVISION 804 WOBURN STREET WILMINGTON, MA 01887	
		TITLE					
		APPROVAL		DATE		AD9144 DAC	
		DRAWN BY P. M. A.		26AUG13		CUSTOMER BOARD	
		DESIGNED					
		CHECKED					
		APPROVED					
		MFG ENGINEER					
FINISH		SIZE	FSCM NO	DRAWING NUMBER	REV		
		D		HSC 13034	A		
		SCALE		1/1		SHEET 1 OF 1	
DO NOT SCALE DWG							

L10 SECONDARY
HSC 13034
REV A

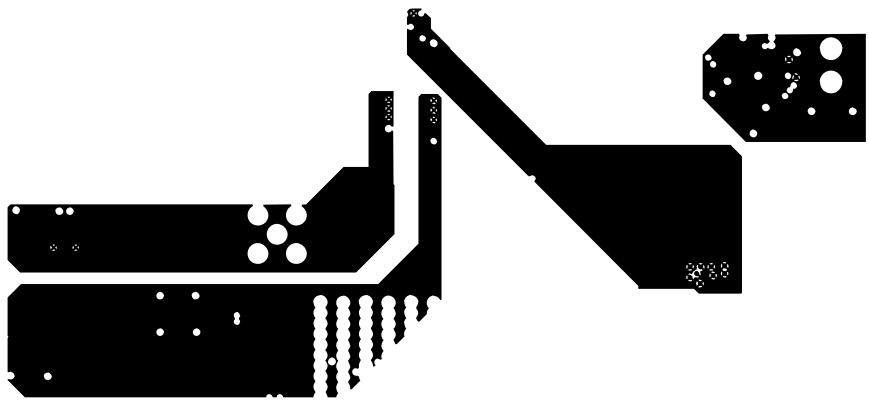
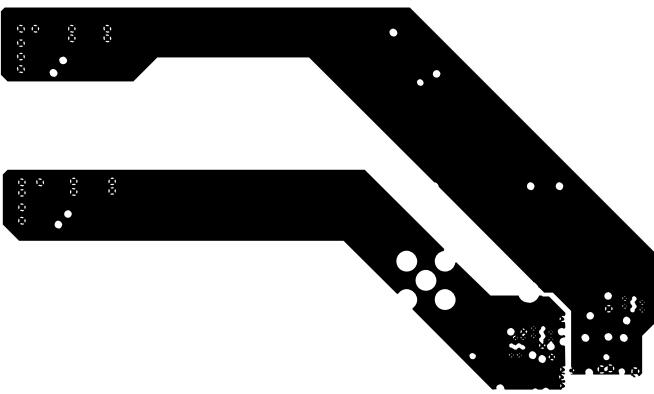


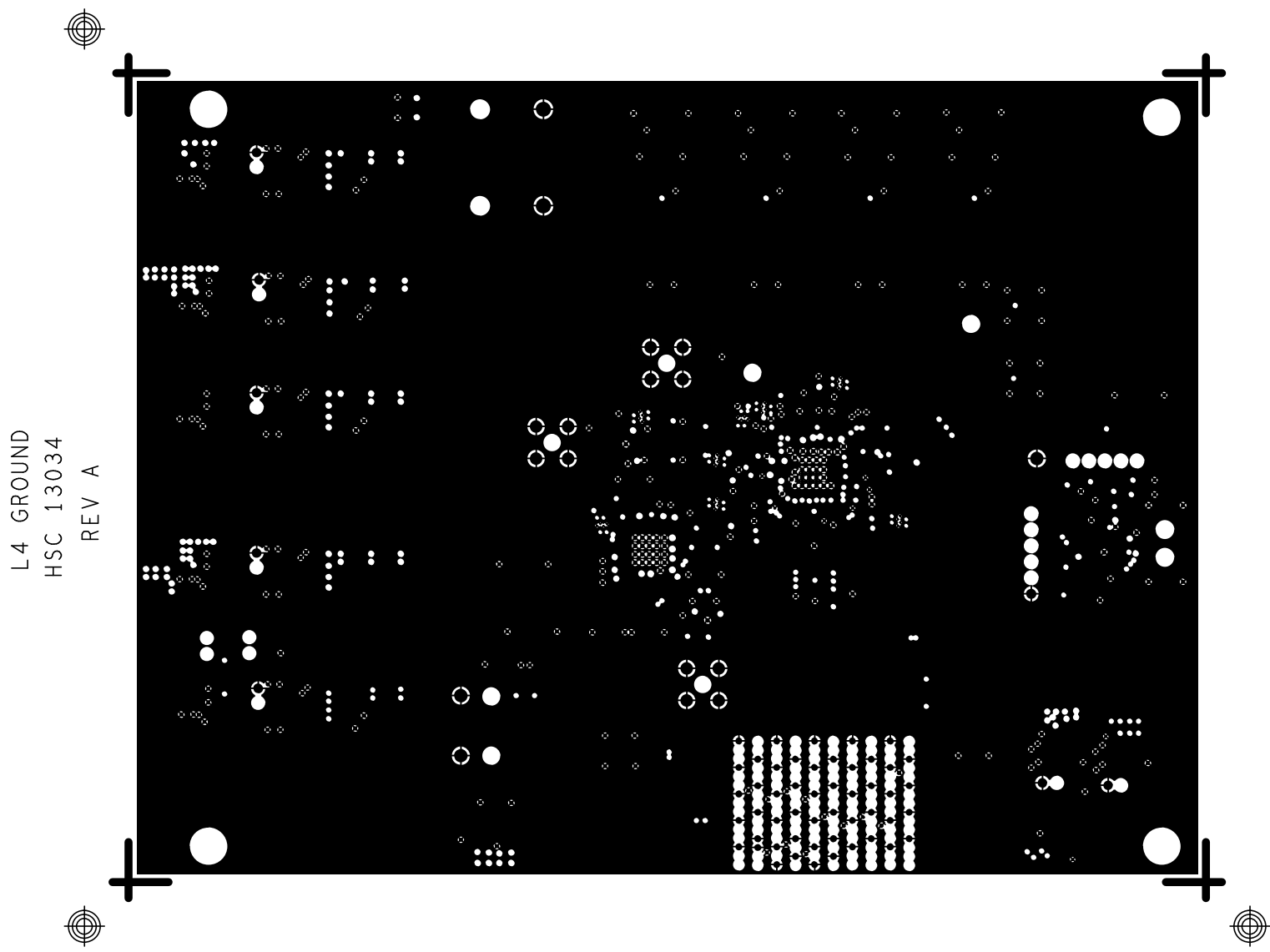
13034 REV A



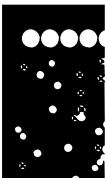
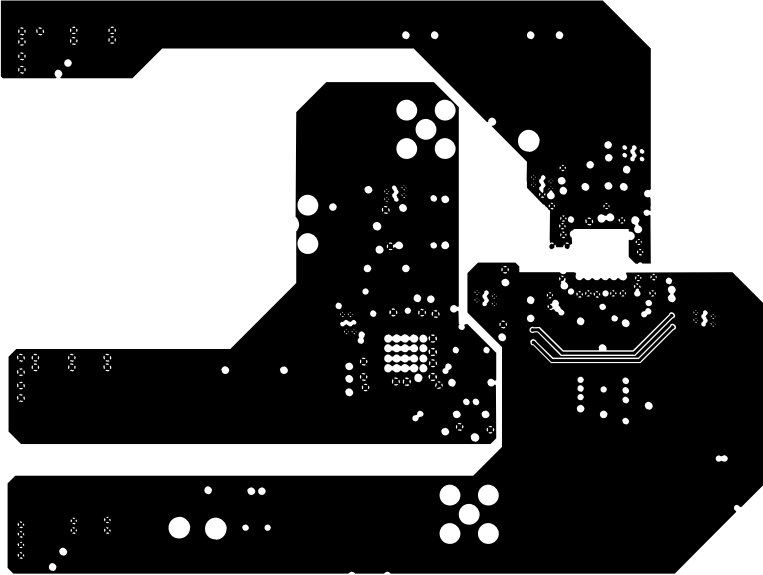


L3 POWER
HSC 13034
REV A

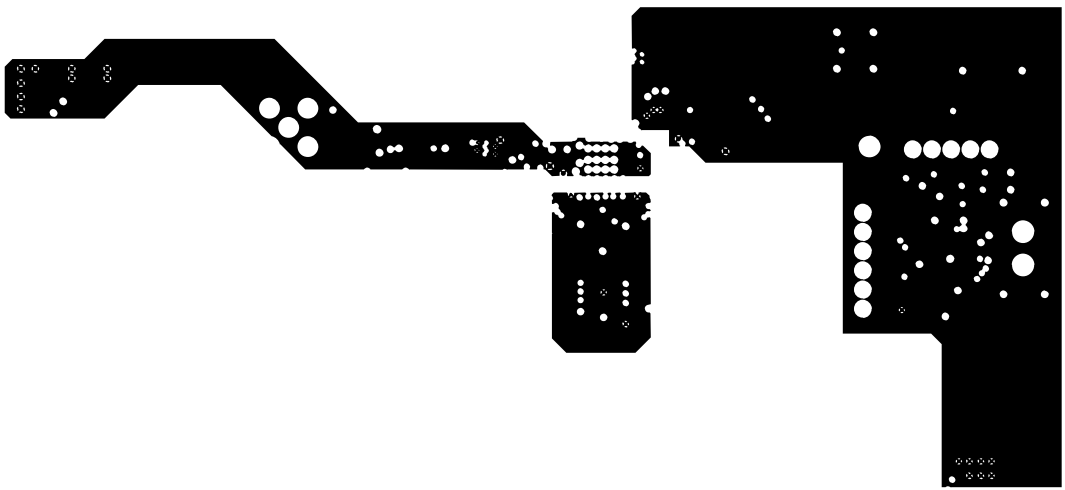


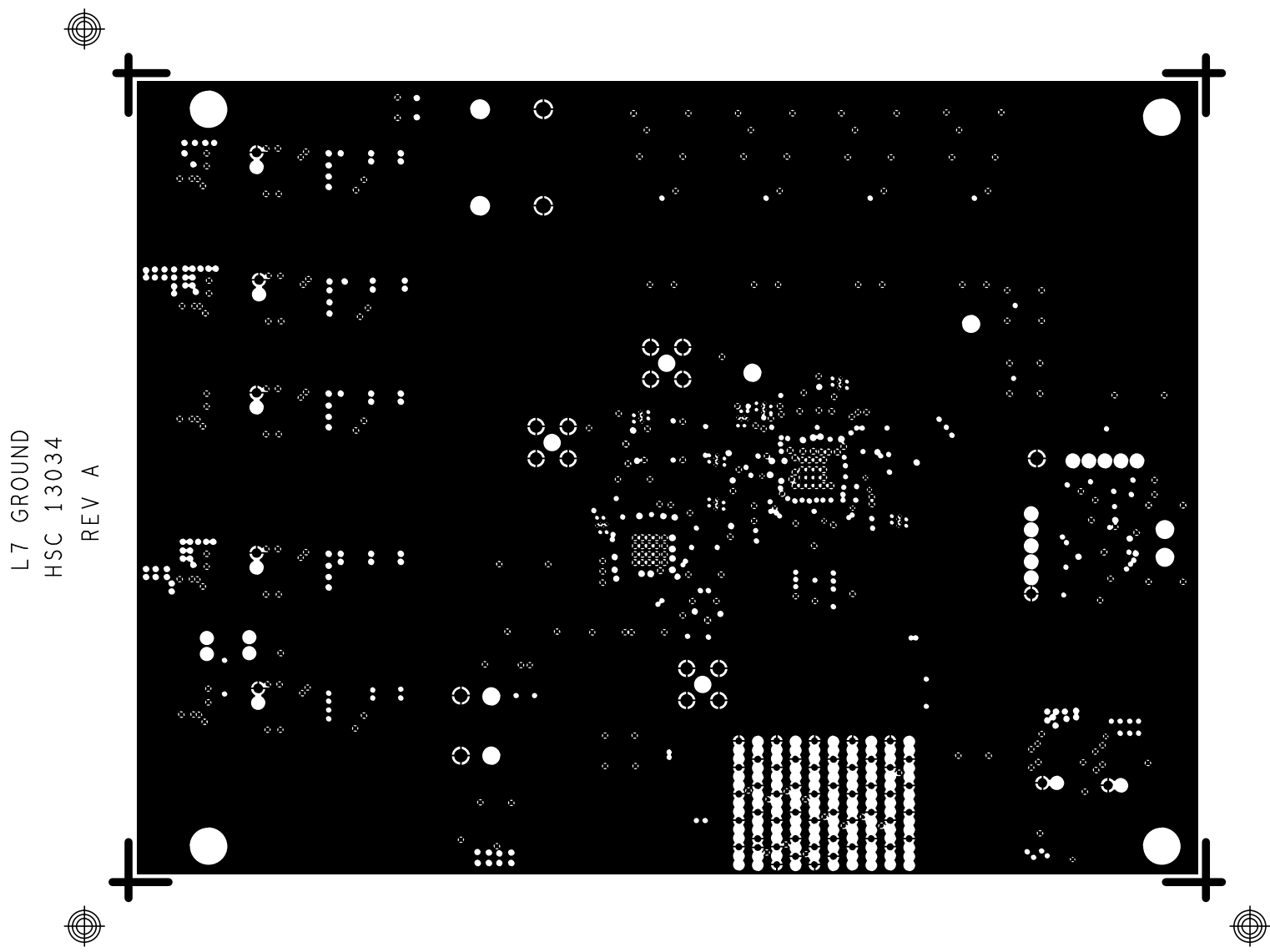


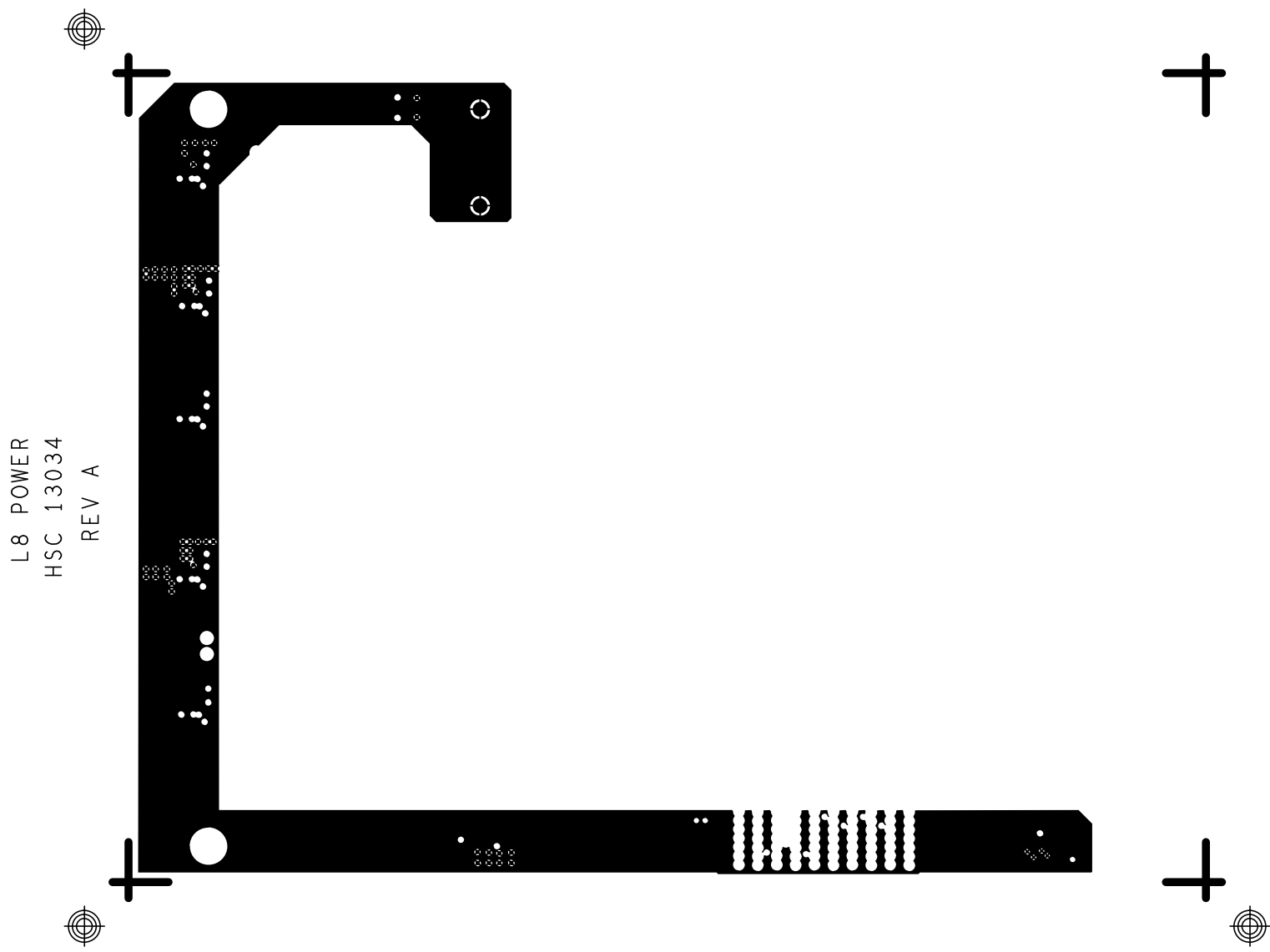
L5 POWER
HSC 13034
REV A

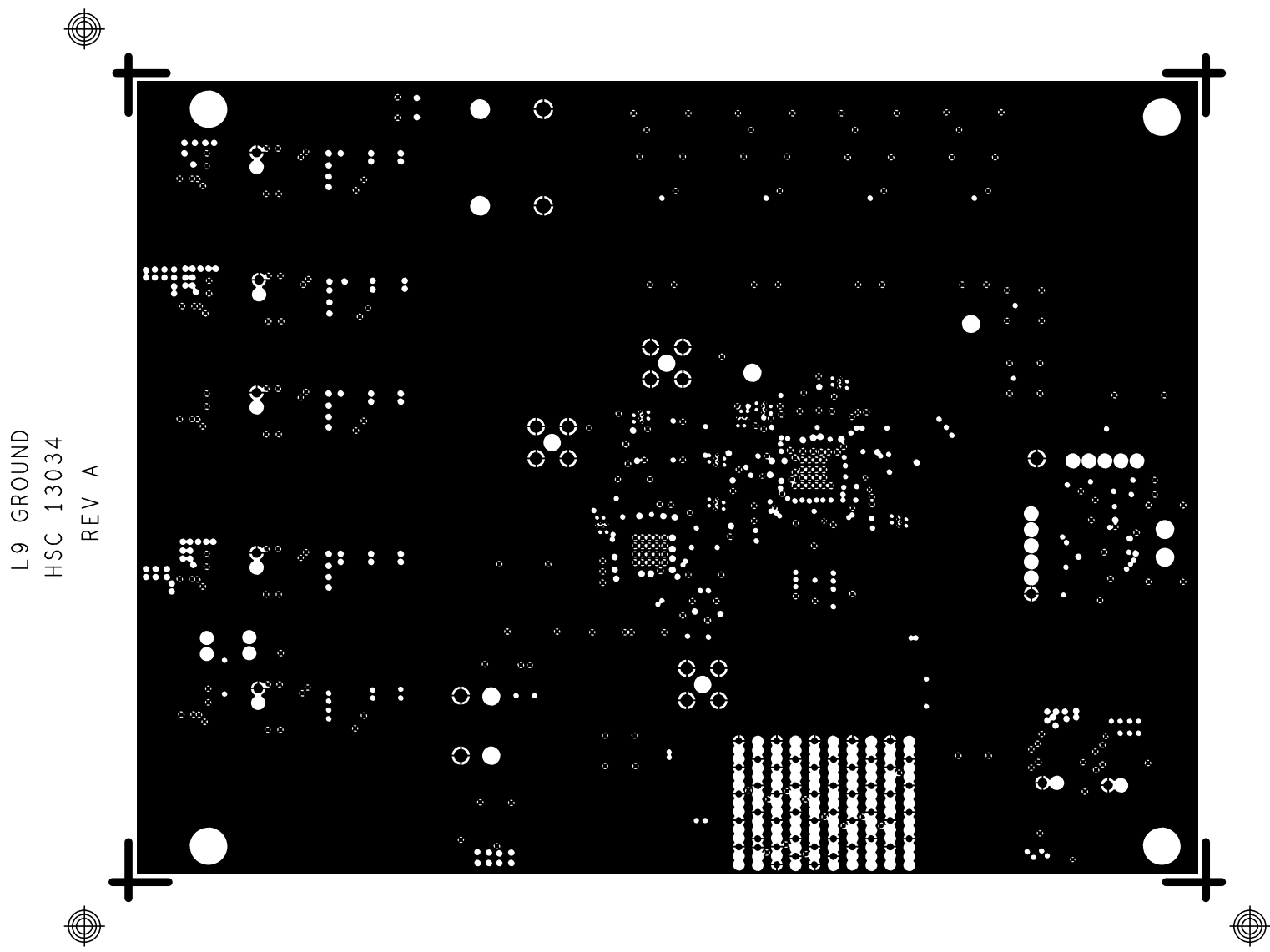


L6 POWER
HSC 13034
REV A

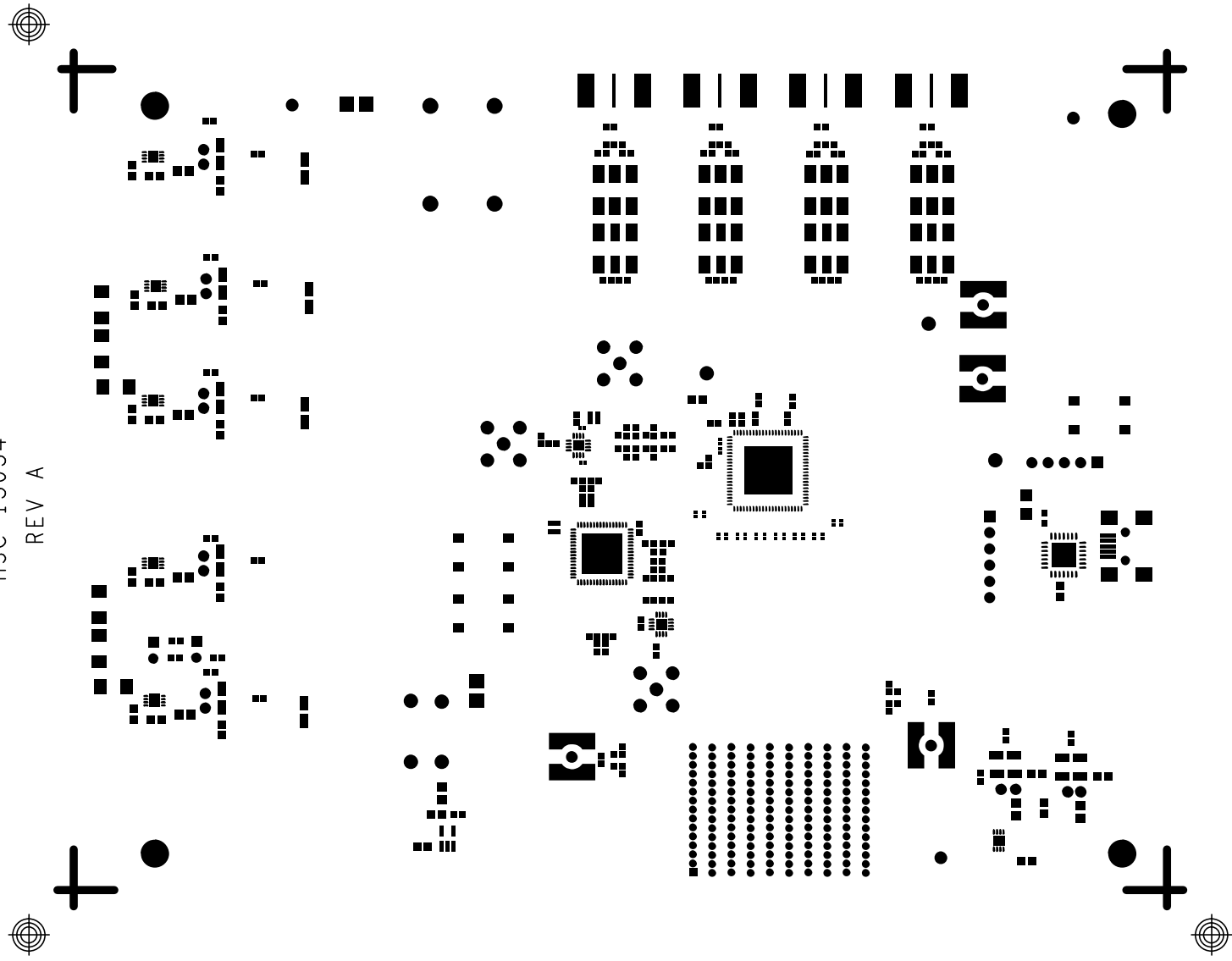




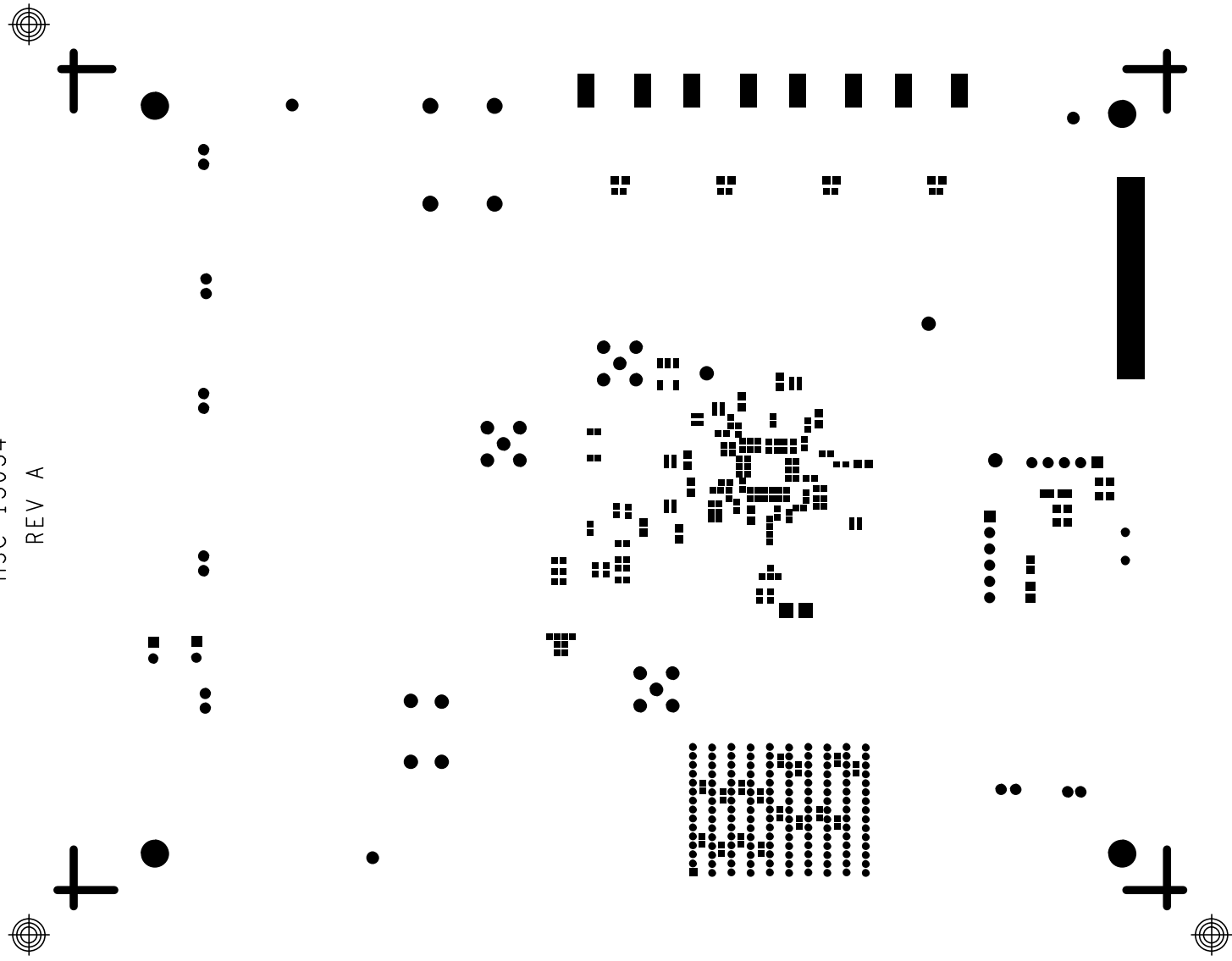




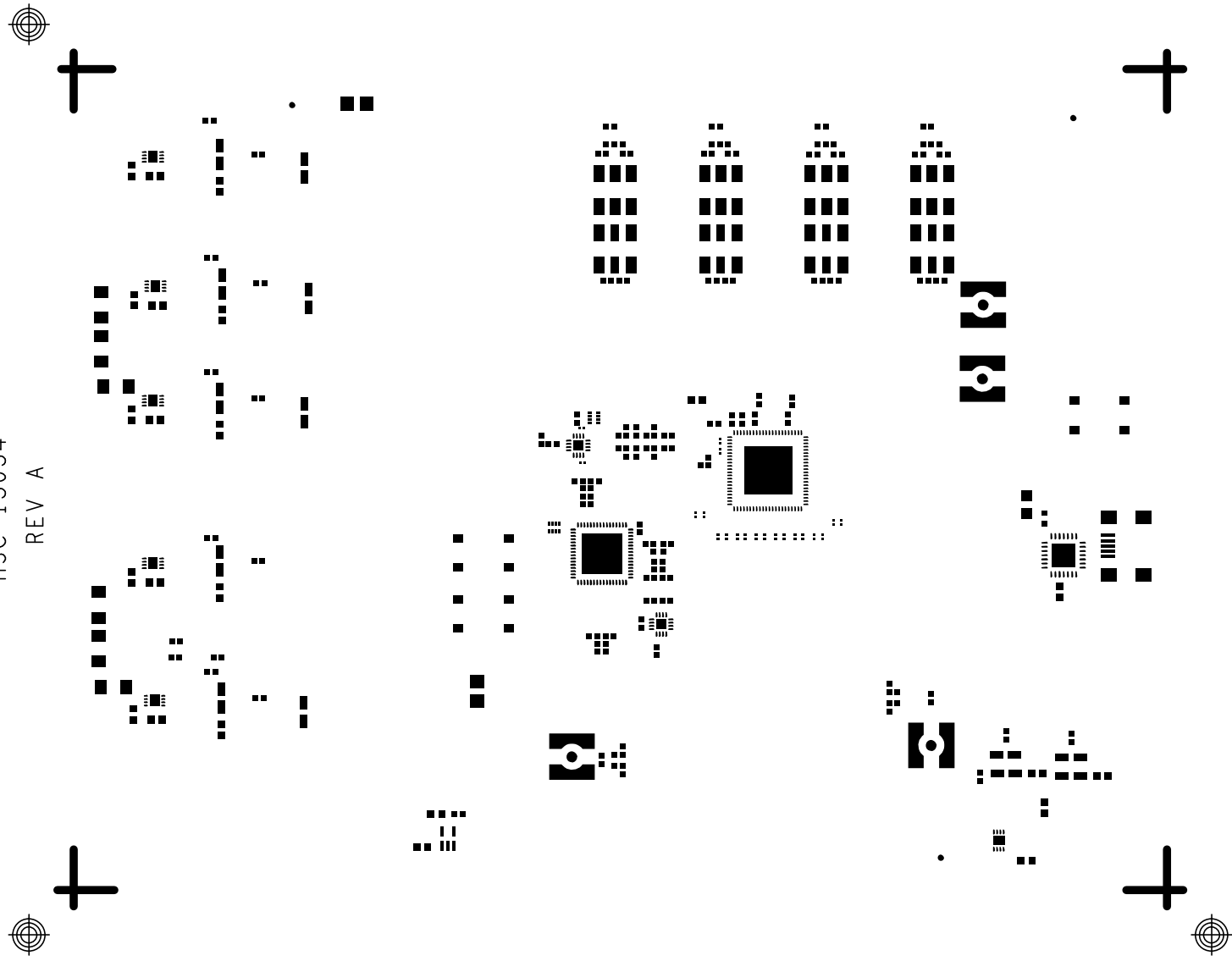
SOLDERMASK PRIMARY
HSC 13034
REV A



SOLDERMASK SECONDARY
HSC 13034
REV A



PASTEMASK PRIMARY
HSC 13034
REV A



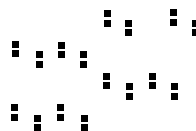
PASTEMASK SECONDARY
HSC 13034
REV A



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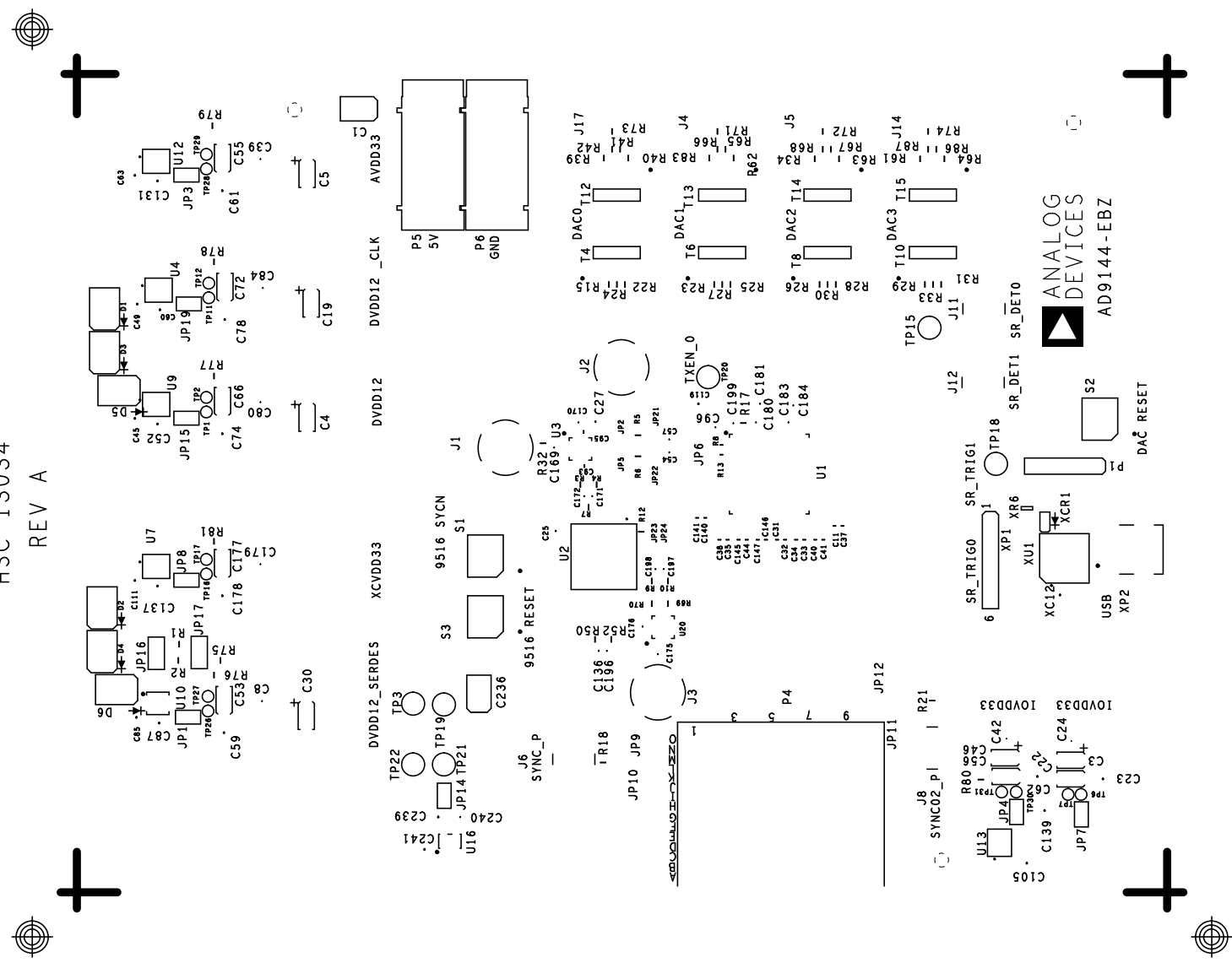
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SILKSCREEN PRIMARY
HSC 13034
REV A



SILKSCREEN SECONDARY
HSC 13034
REV A

7913
7916

1553
1557

