

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;	ISOLA 408HR, EXCEPT WHERE SPECIFIED OTHERWISE.
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 AND SHALL MEET IPC-SM-840 (LATEST REV.) CLASS 3. 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) PER IPC-4552 LATEST REVISION


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.

REQUIREMENTS:

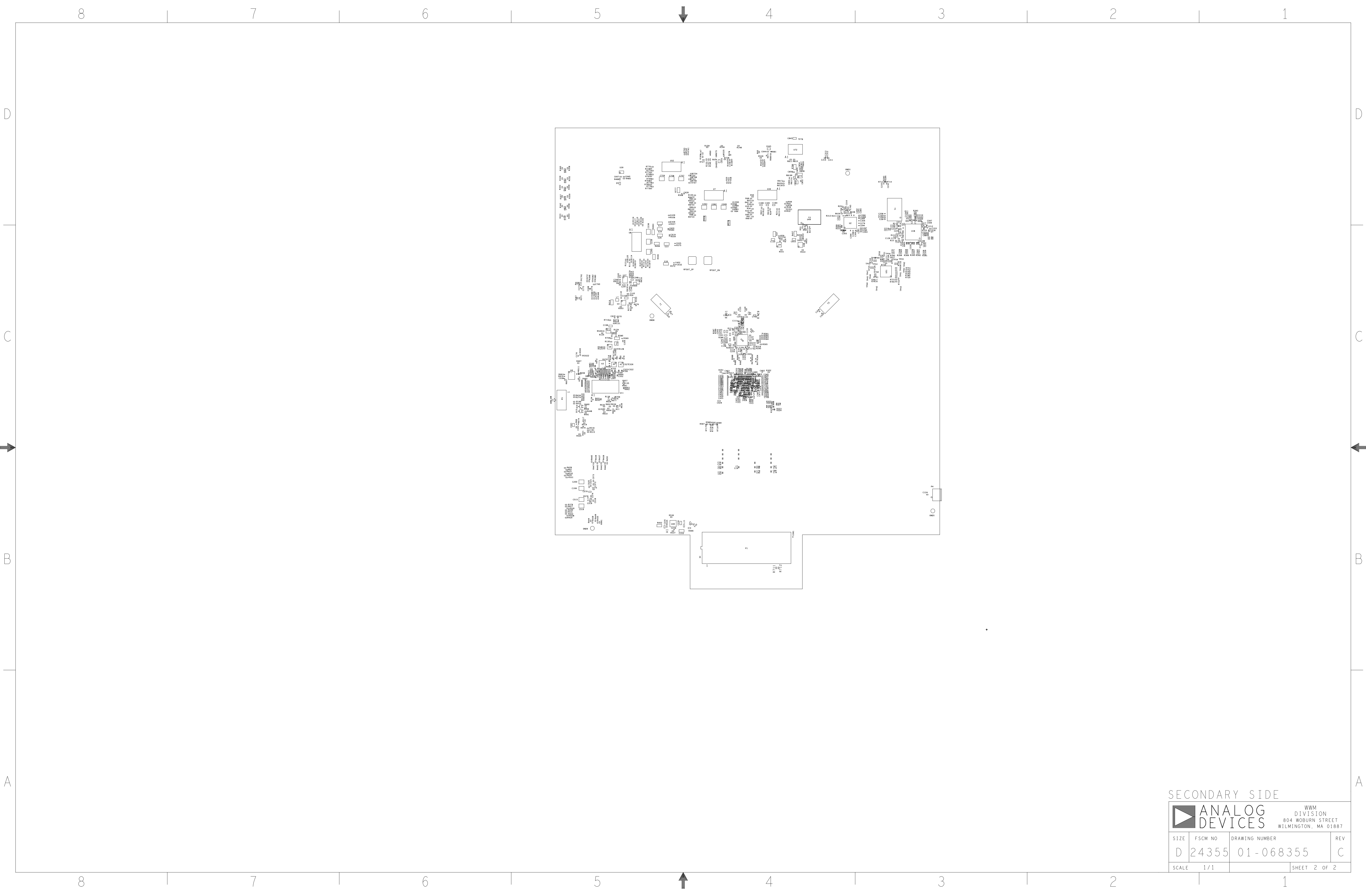
- REFER TO IPC-6010 SERIES (LATEST REV.), CLASS 2 FOR FABRICATION UNLESS OTHERWISE SPECIFIED.
- ACCEPTABILITY PER ANALOG DEVICES, INC. SPECIFICATION TST00115, (LATEST REVISION.)
- MODIFICATIONS TO THE ARTWORK ARE NOT ALLOWED WITHOUT WRITTEN AUTHORIZATION.
- HOLE PATTERN TOLERANCES FOR UNDIMENSIONED HOLES SHALL BE A DIAMETER OF 0.005 INCHES FROM THEIR TRUE POSITION.
- PLATED HOLE WALL THICKNESS SHALL NOT BE LESS THAN 0.001 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 .0045 INCH.
- MINIMUM DESIGN SPACING IS .0035 INCH.
- NON-FUNCTIONAL PAD REMOVAL FROM INNER SIGNAL LAYERS MAY BE PERFORMED AFTER CUSTOMER APPROVAL.
- IF PAD SIZES PROVIDED ARE NOT LARGE ENOUGH TO MAINTAIN ANNULAR RING REQUIREMENT, MFR. MAY REQUEST APPROVAL TO TEAR DROP PADS TO MAINTAIN ANNULAR RING. (AT PAD TO TRACE INTERSECTION ONLY AND ELECTRICAL INTEGRITY MUST BE MAINTAINED.)
- 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.
- 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-FLAMMABILITY RATING D. MFR LOGO  
B. DATE CODE (STAMP). E. SUCCESSFUL ELECTRICAL TEST.  
C. LOT NUMBER
- REPAIRS PER IPC-7711/21 (LATEST REV.) ARE ALLOWED.
- THRU VIAS FILLED WITH NON-CONDUCTIVE EPOXY AND PLATED OVER, COPLANAR ON BOTH SIDES WITHIN .001 INCH PRIOR TO FINAL PLATING.

PRIMARY SIDE

 MPG DIVISION 804 WOBURN STREET WILMINGTON, MA 01887			
SIZE	FSCM NO	DRAWING NUMBER	REV
D	24355	09-068355	C
SCALE 1/1		SHEET 2 OF 2	

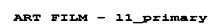




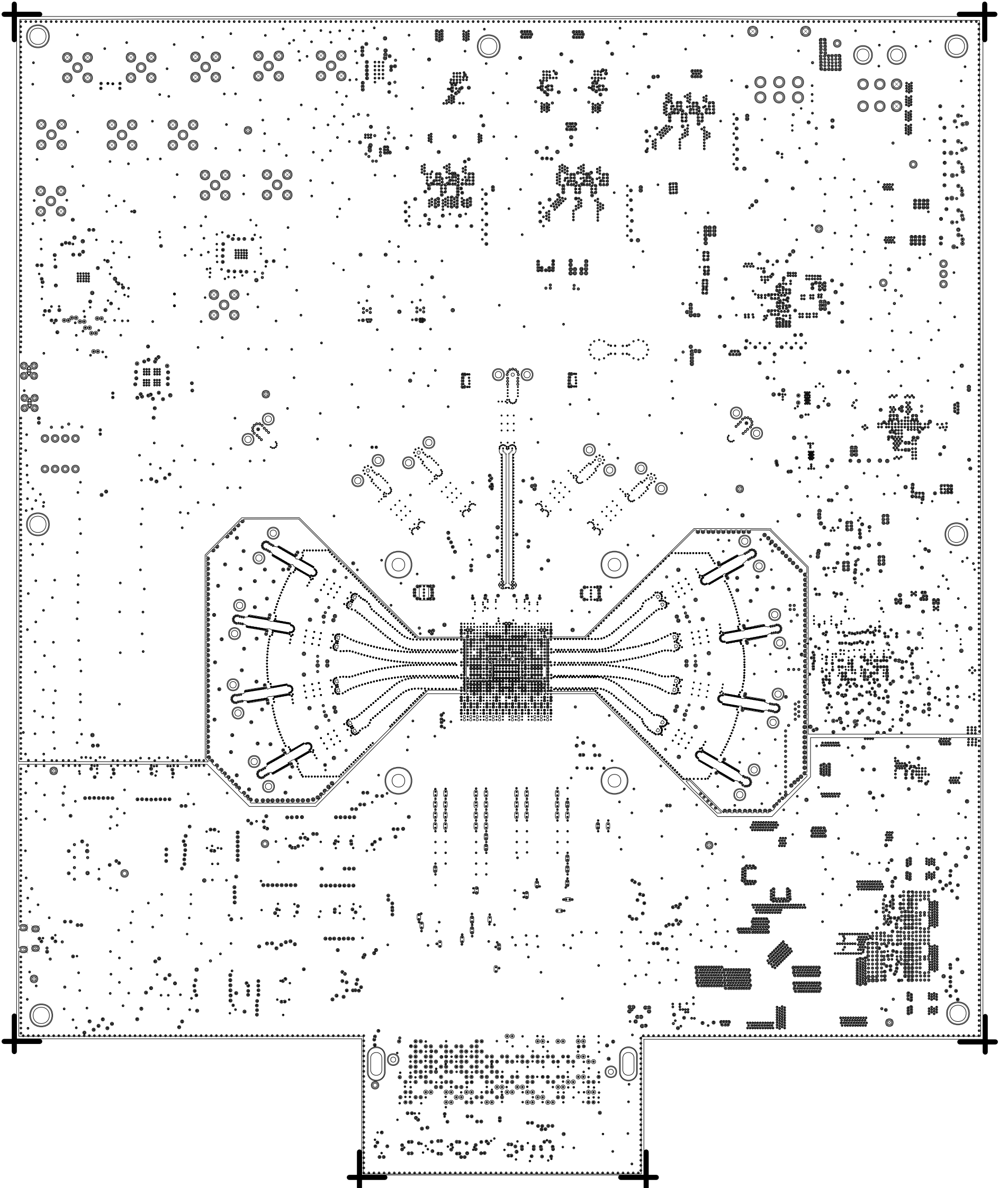


SECONDARY SIDE

<div><div><div></div><div>ANALOG DEVICES</div></div><div>WWM DIVISION 804 WOBURN STREET WILMINGTON, MA 01887</div></div>			
SIZE	FSCM NO	DRAWING NUMBER	REV
D	24355	01-068355	C
SCALE	1/1	SHEET 2 OF 2	

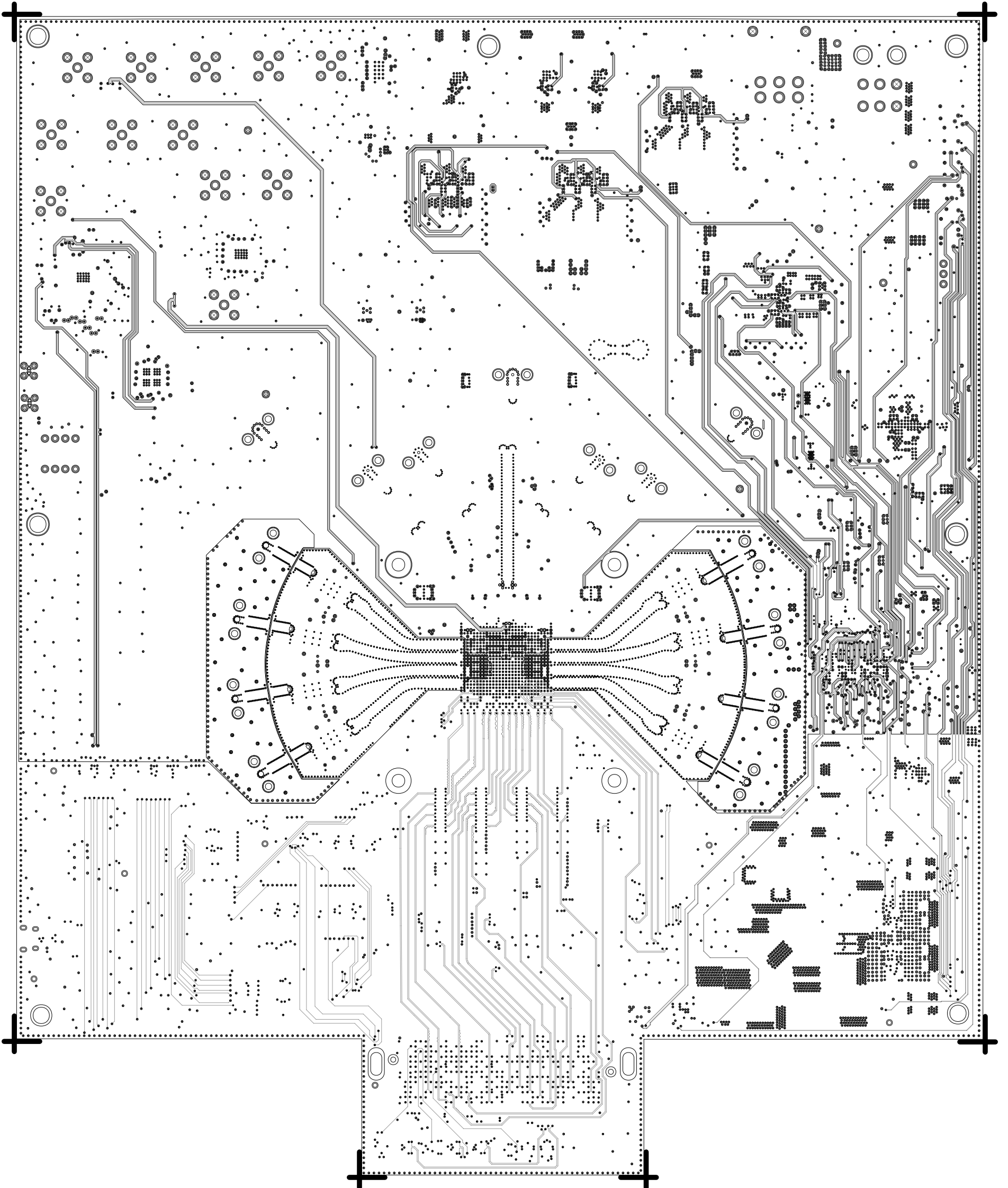


L2 GROUND  
08-068355-07  
REV C

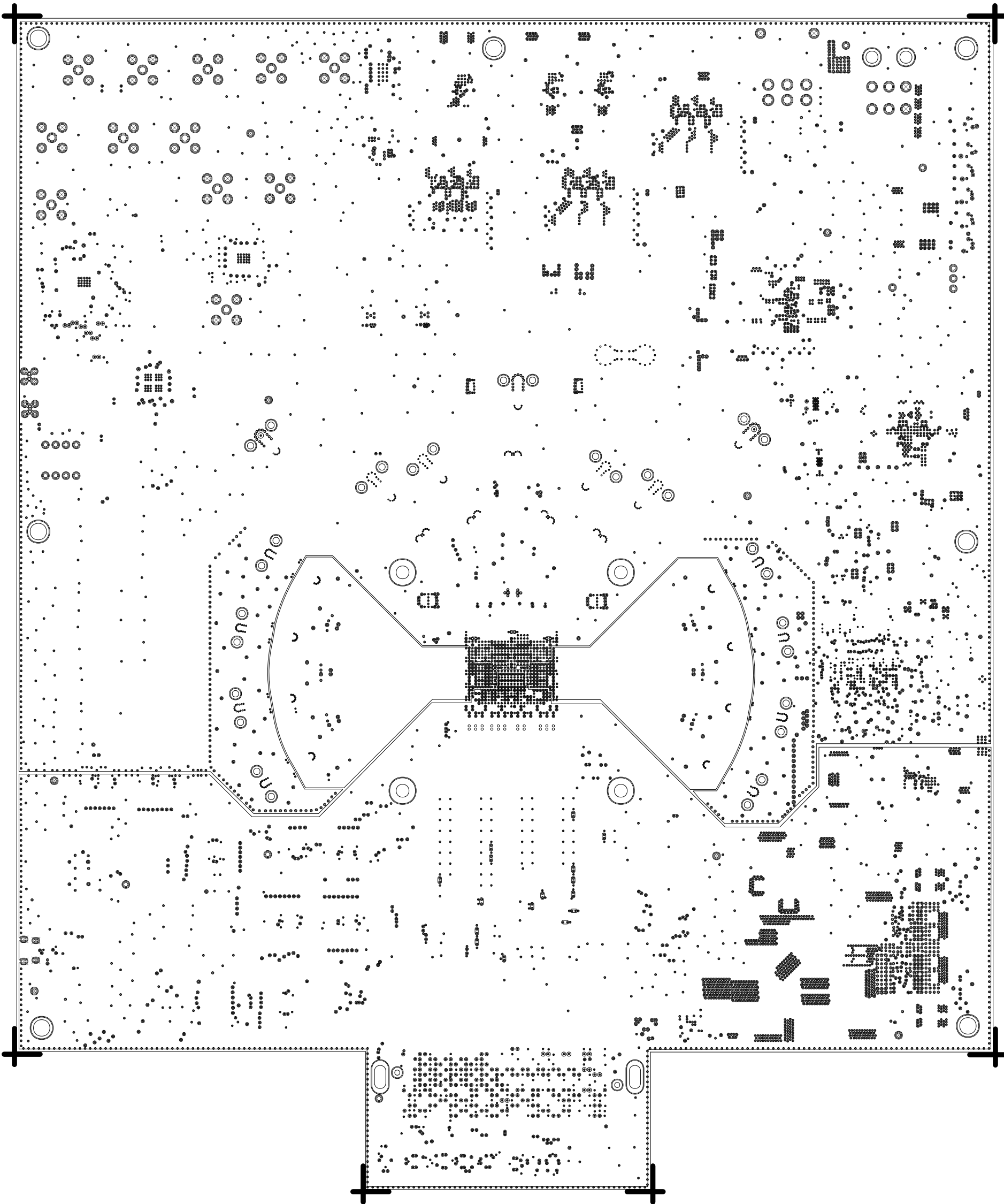




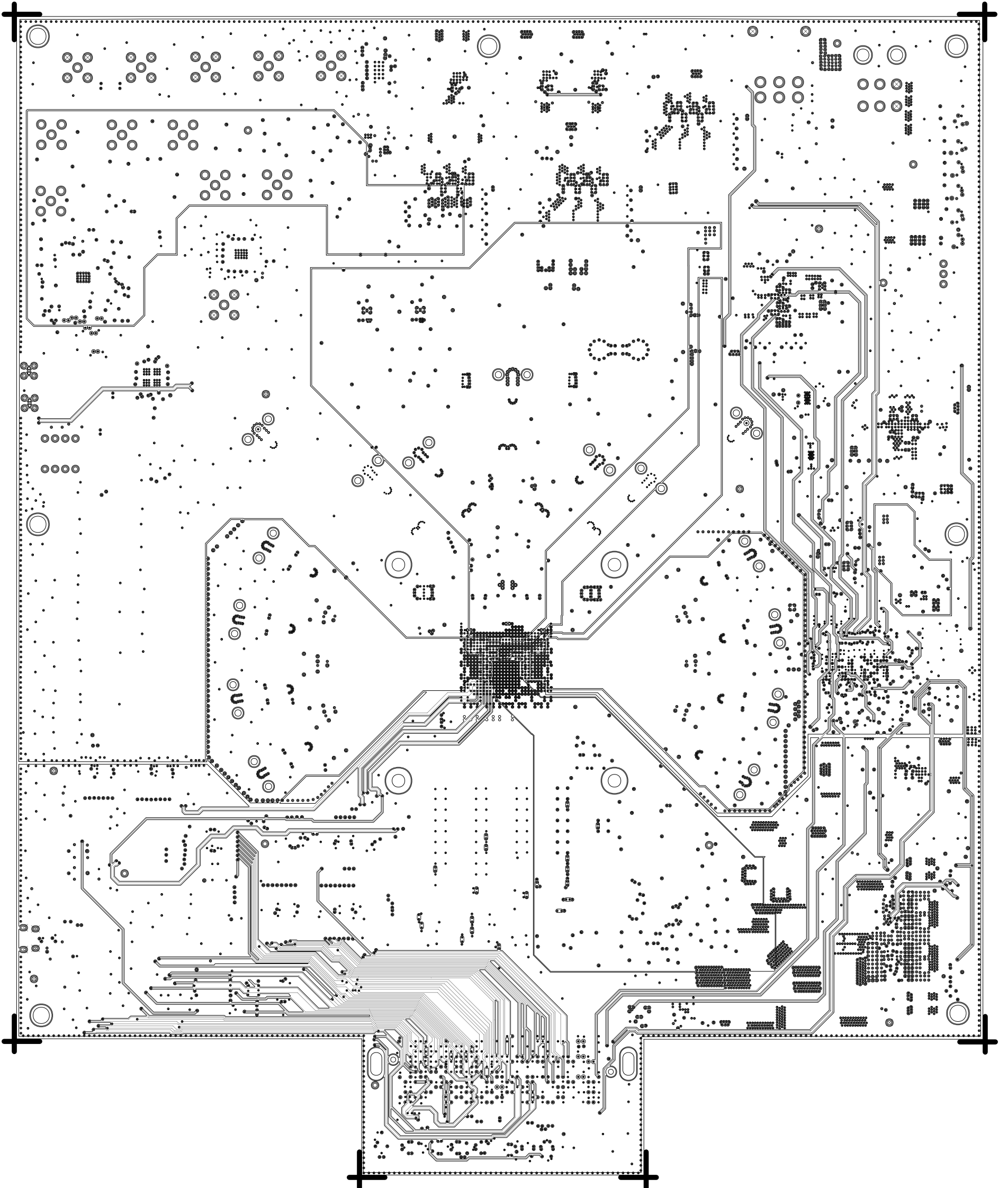
L3 SIGNAL  
08-068355-08  
REV C



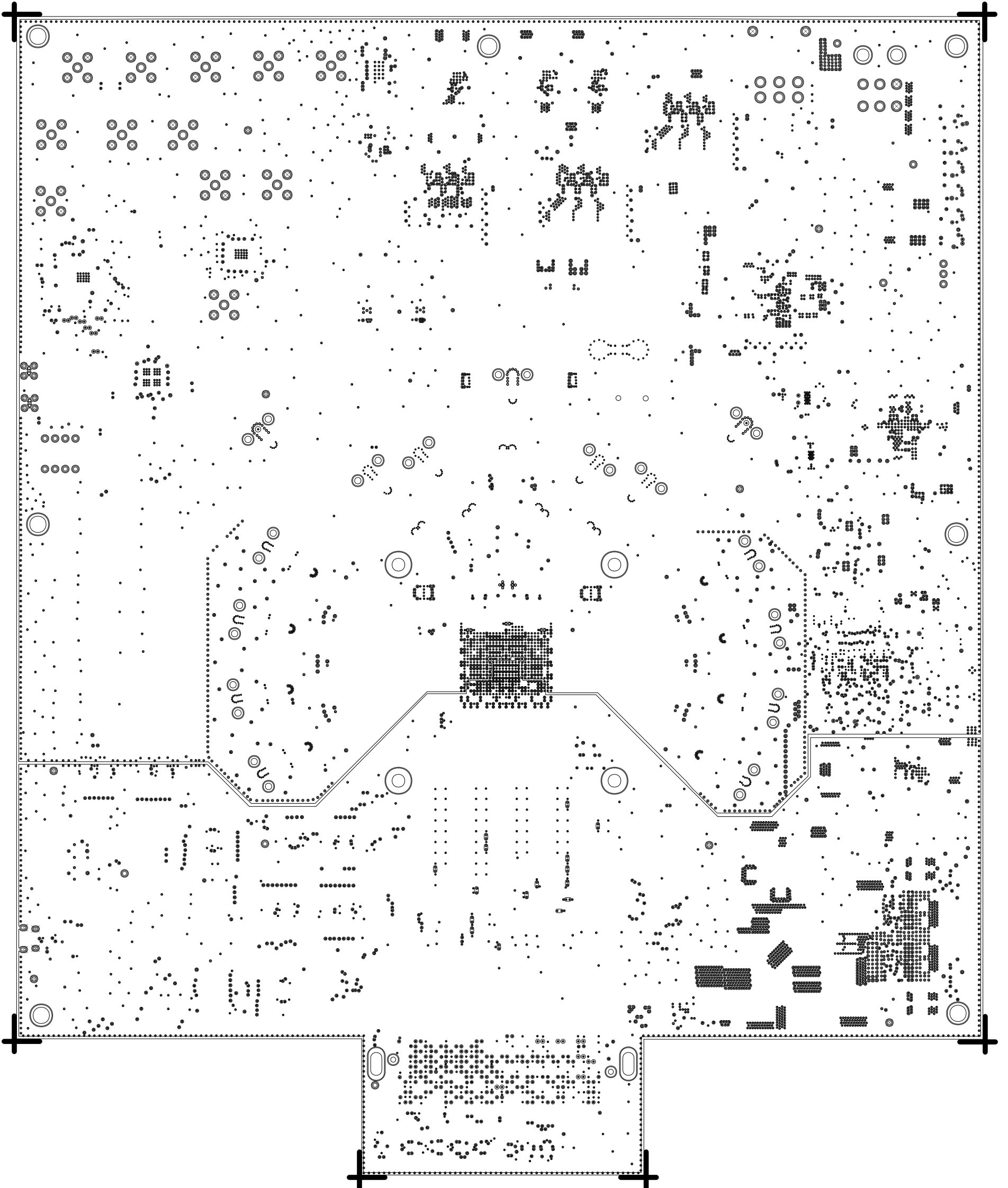
L4 GROUND  
08-068355-09  
REV C



L5 MIXED  
08-068355-10  
REV C

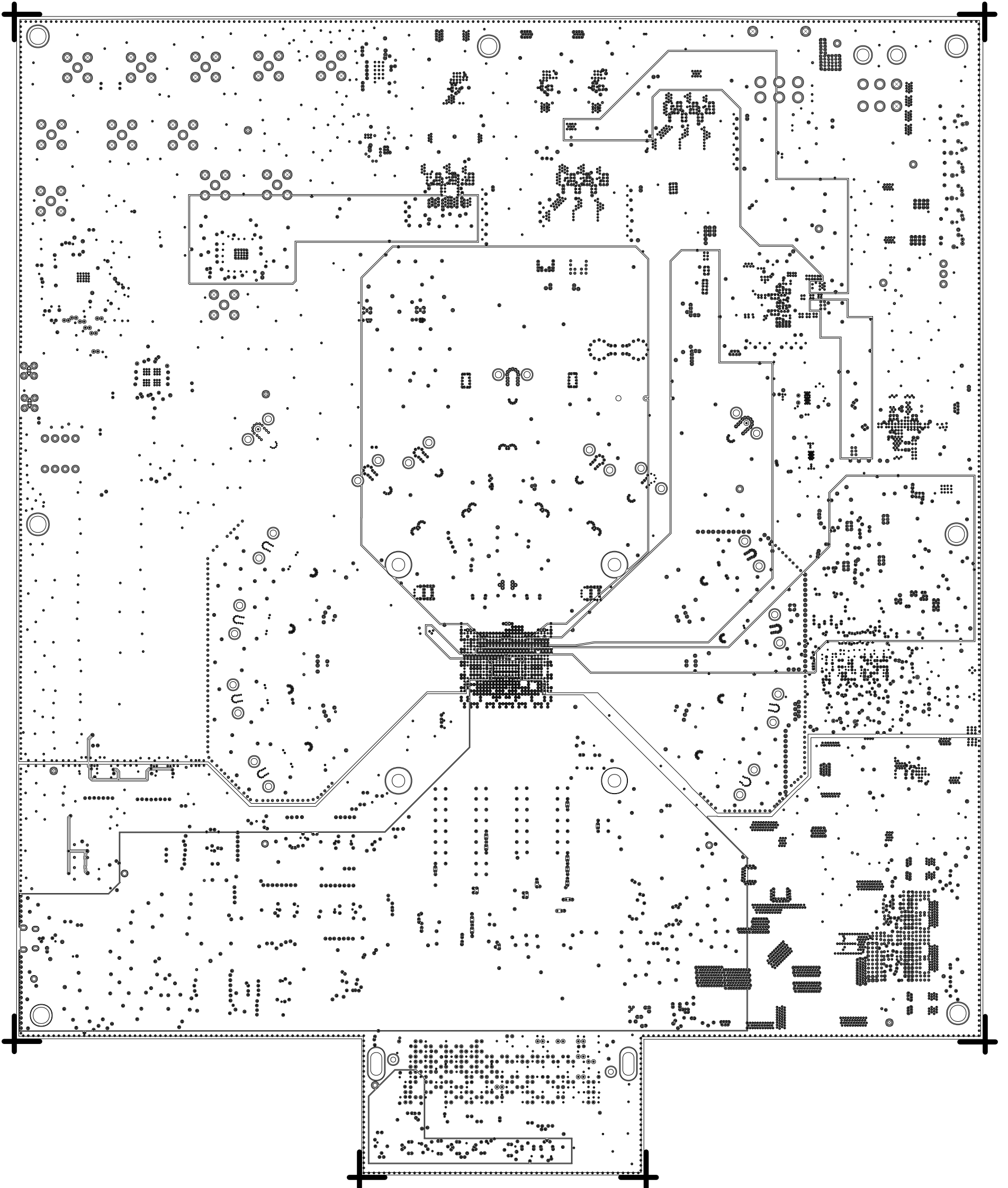


L6 GROUND  
08-068355-11  
REV C

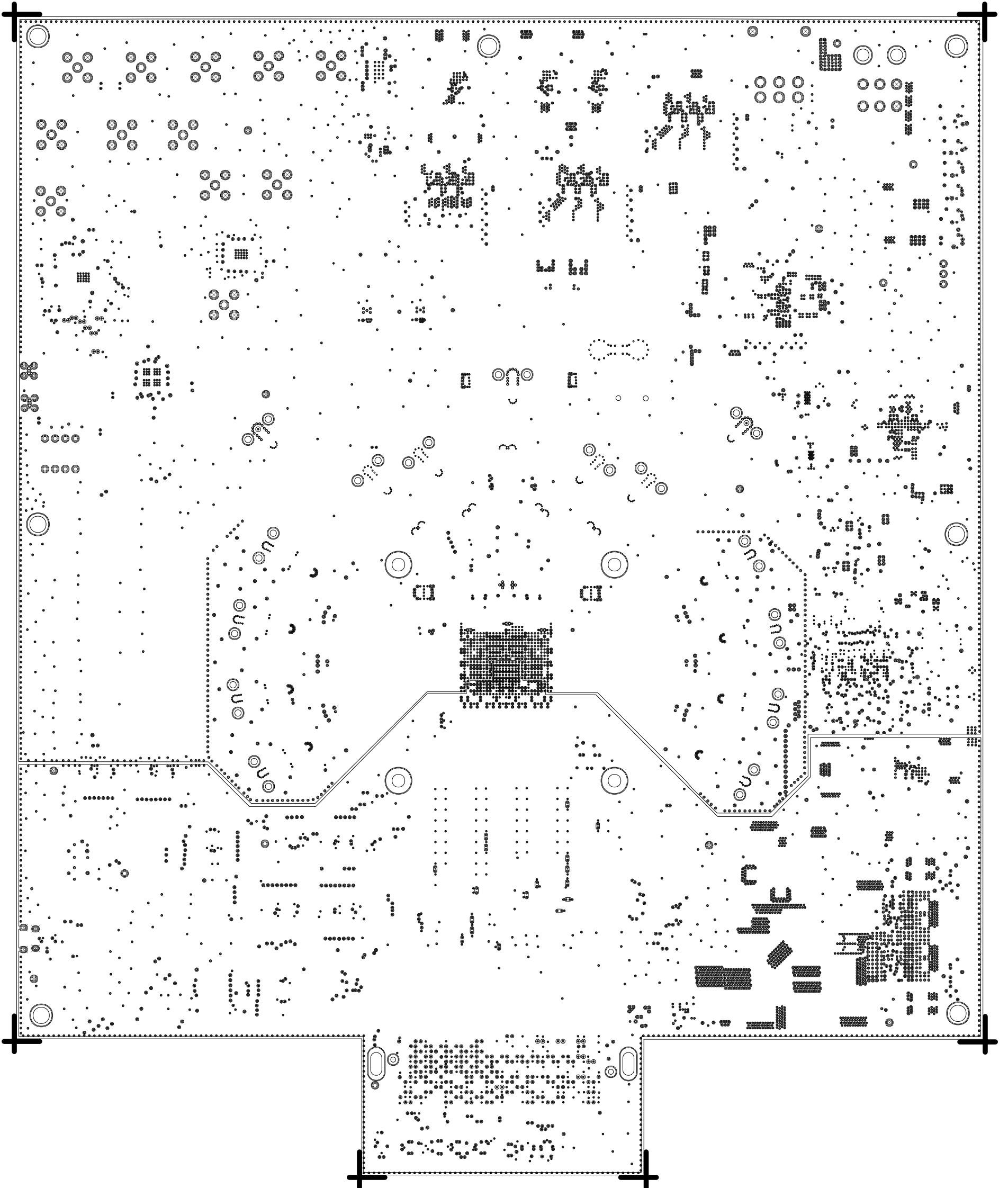




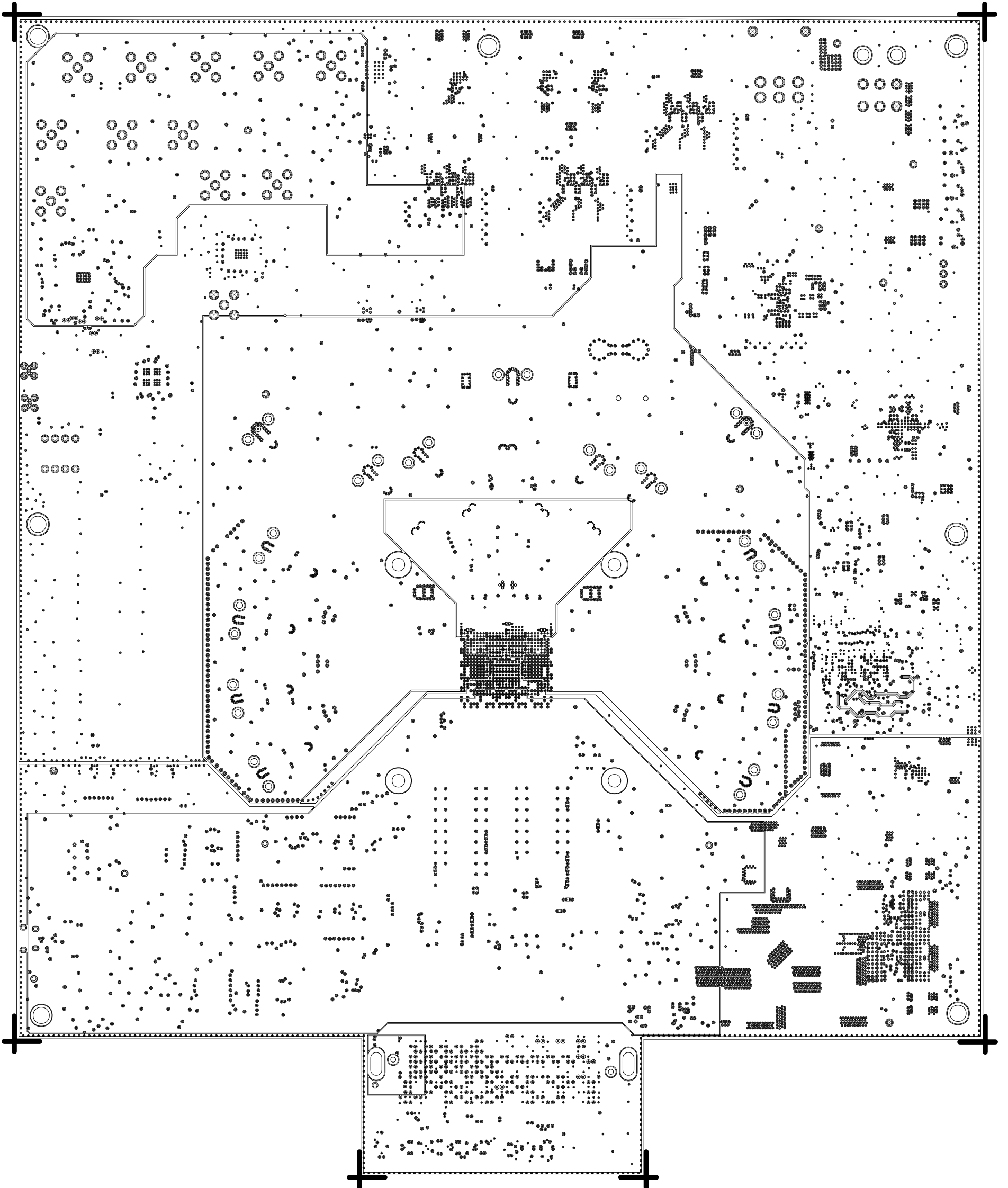
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08-068355-12  
REV C



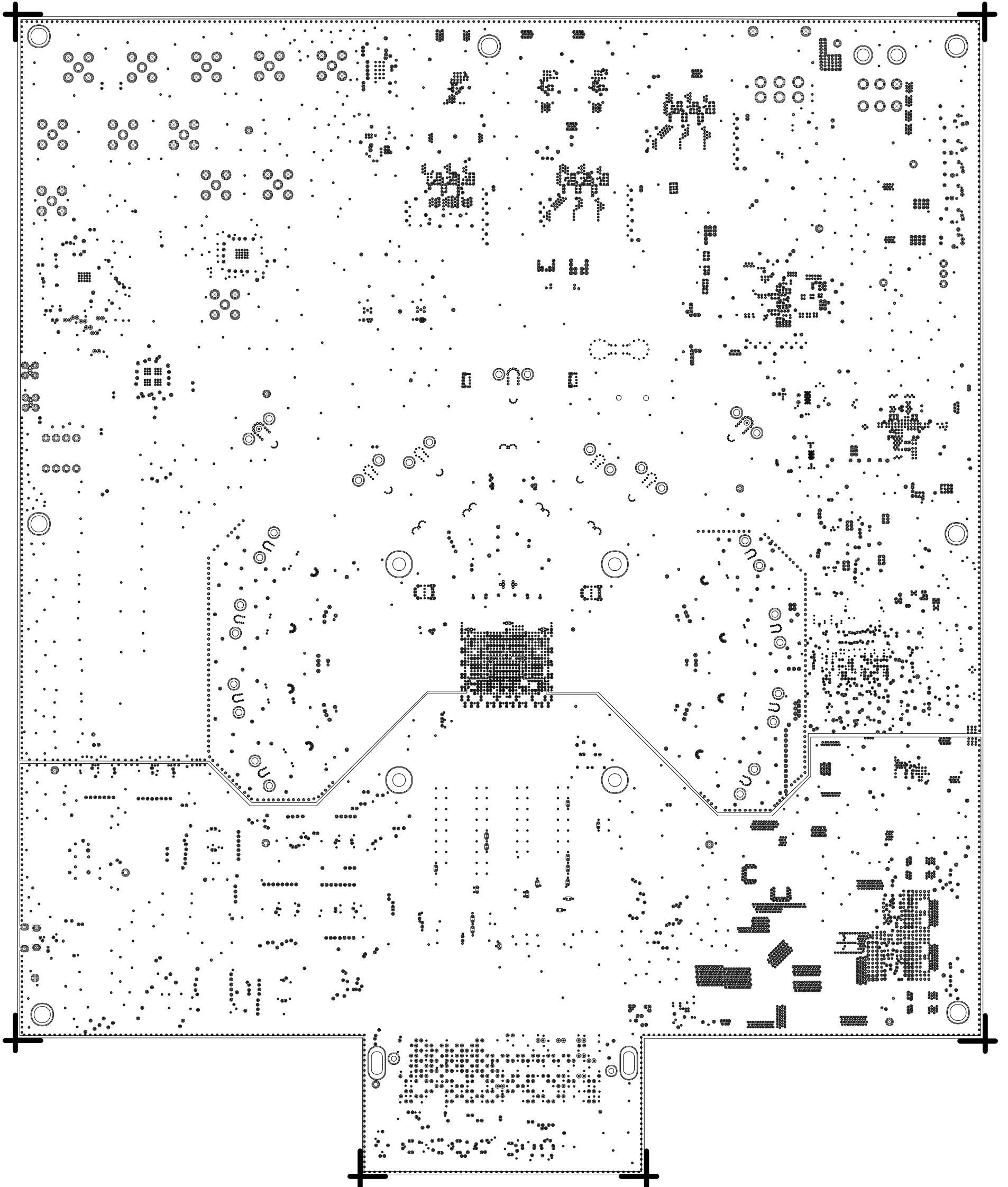
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08-068355-13  
REV C



L9 POWER  
08-068355-14  
REV C

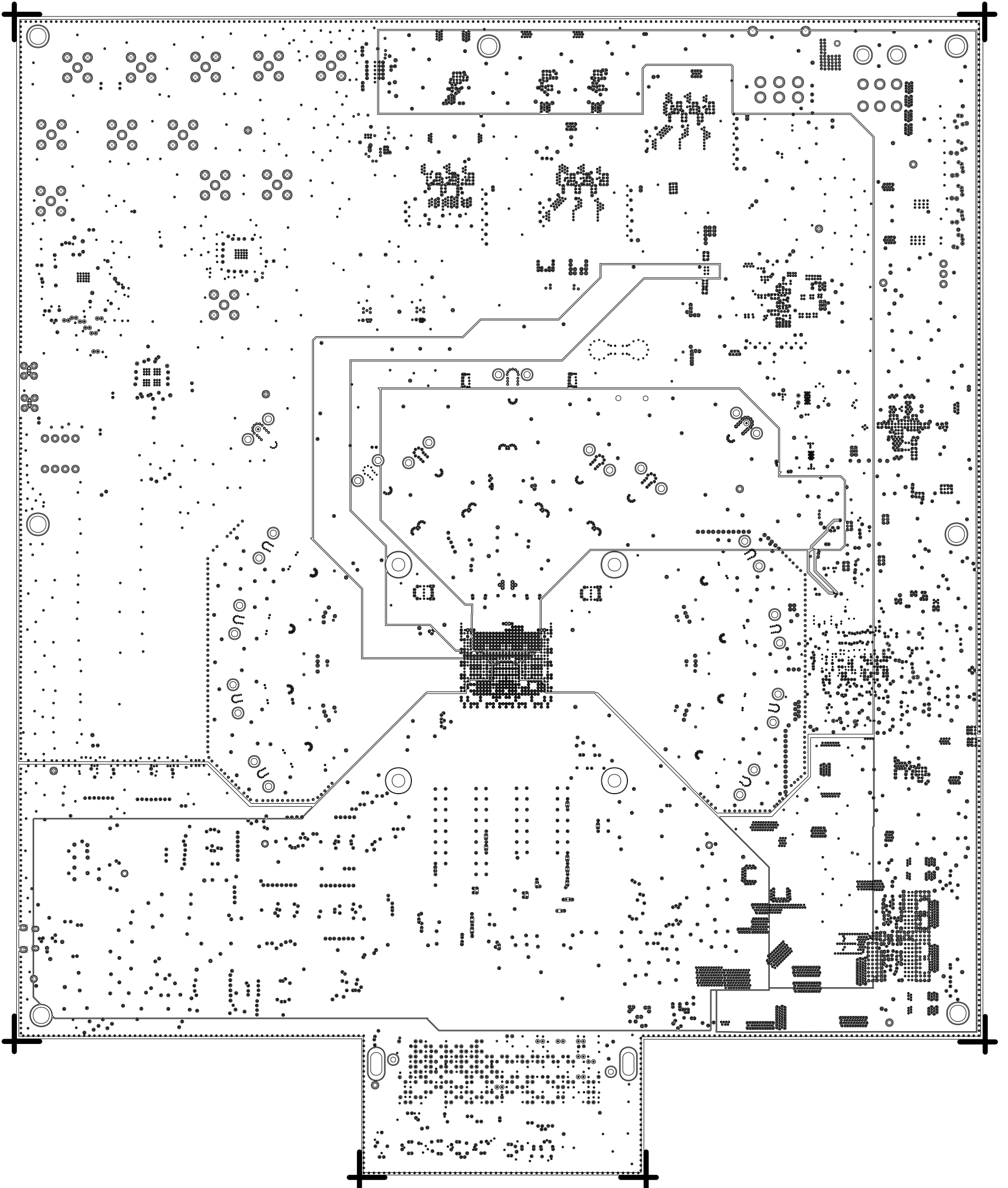


L10 GROUND  
08-068355-15  
REV C

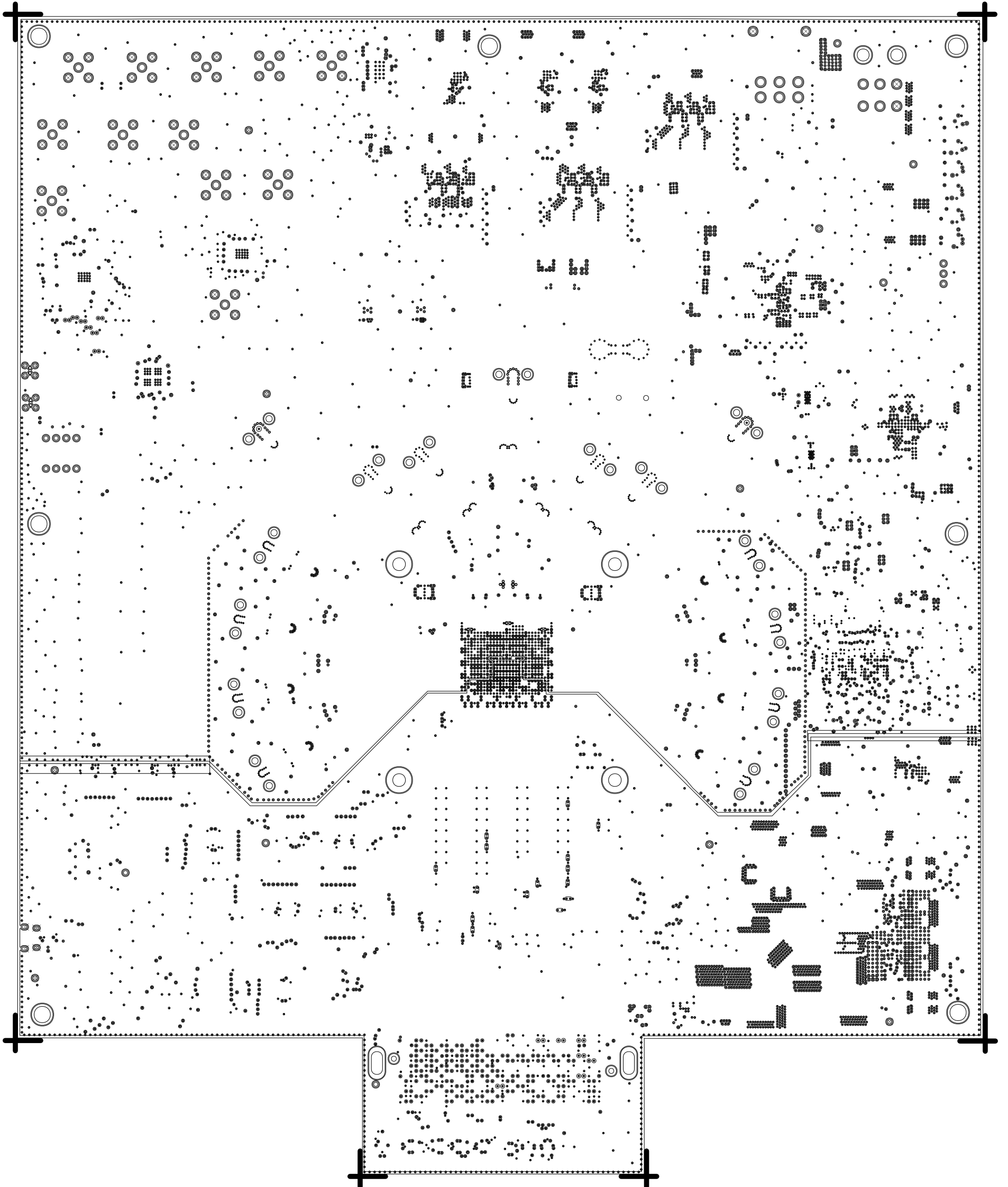




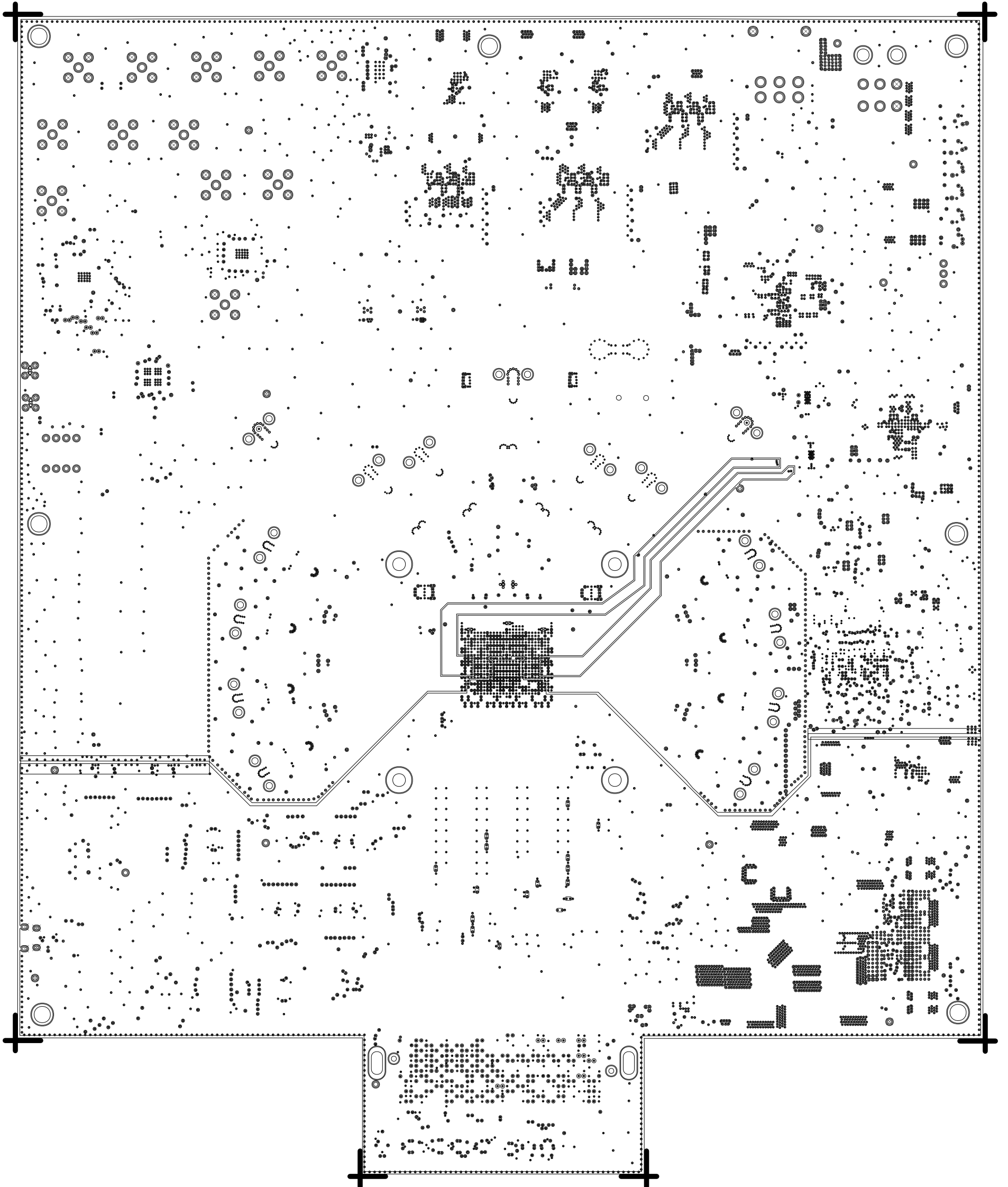
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REV C



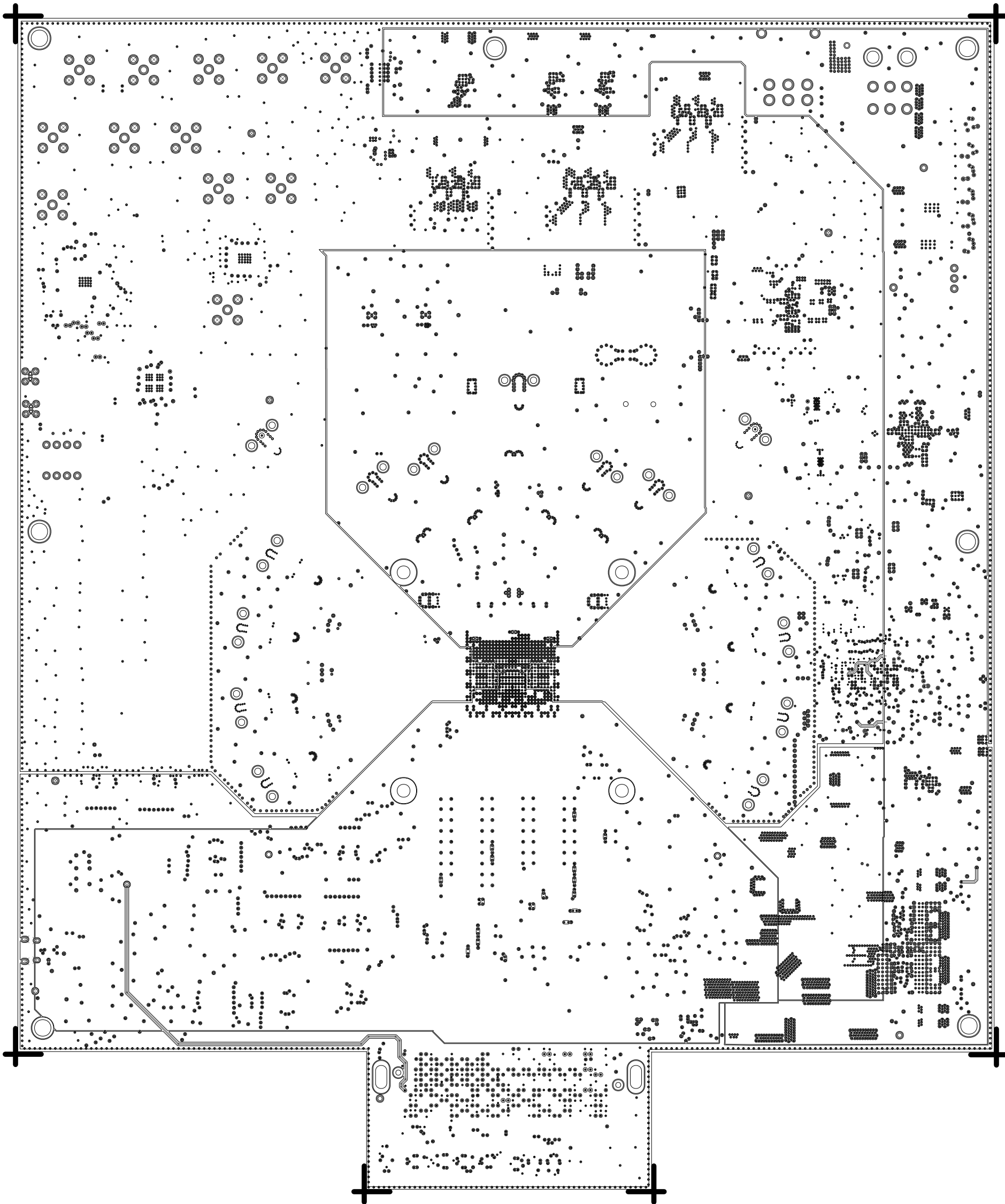
L12 GROUND  
08-068355-17  
REV C



L13 GROUND  
08-068355-18  
REV C

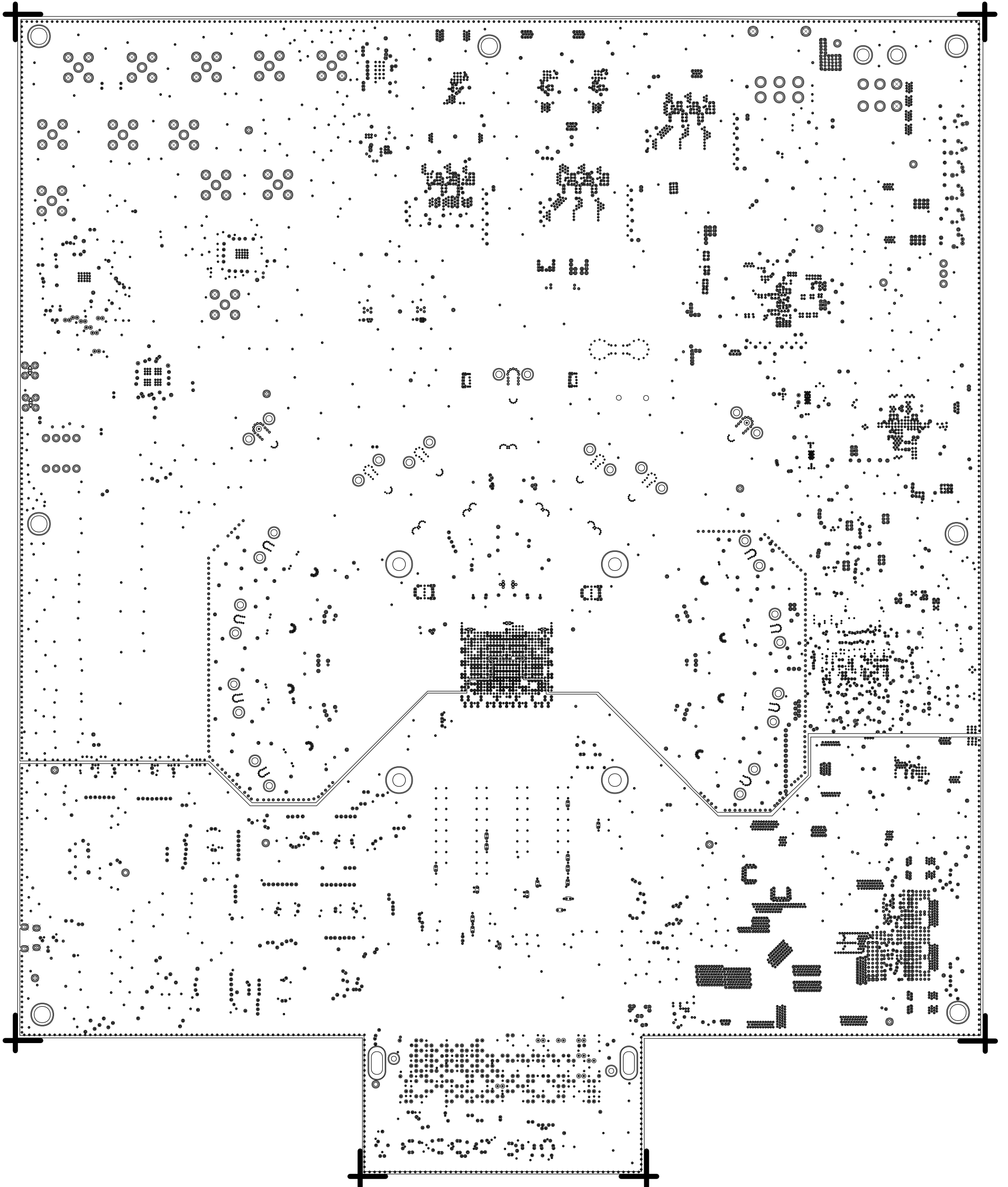


L14 POWER  
08-068355-19  
REV C

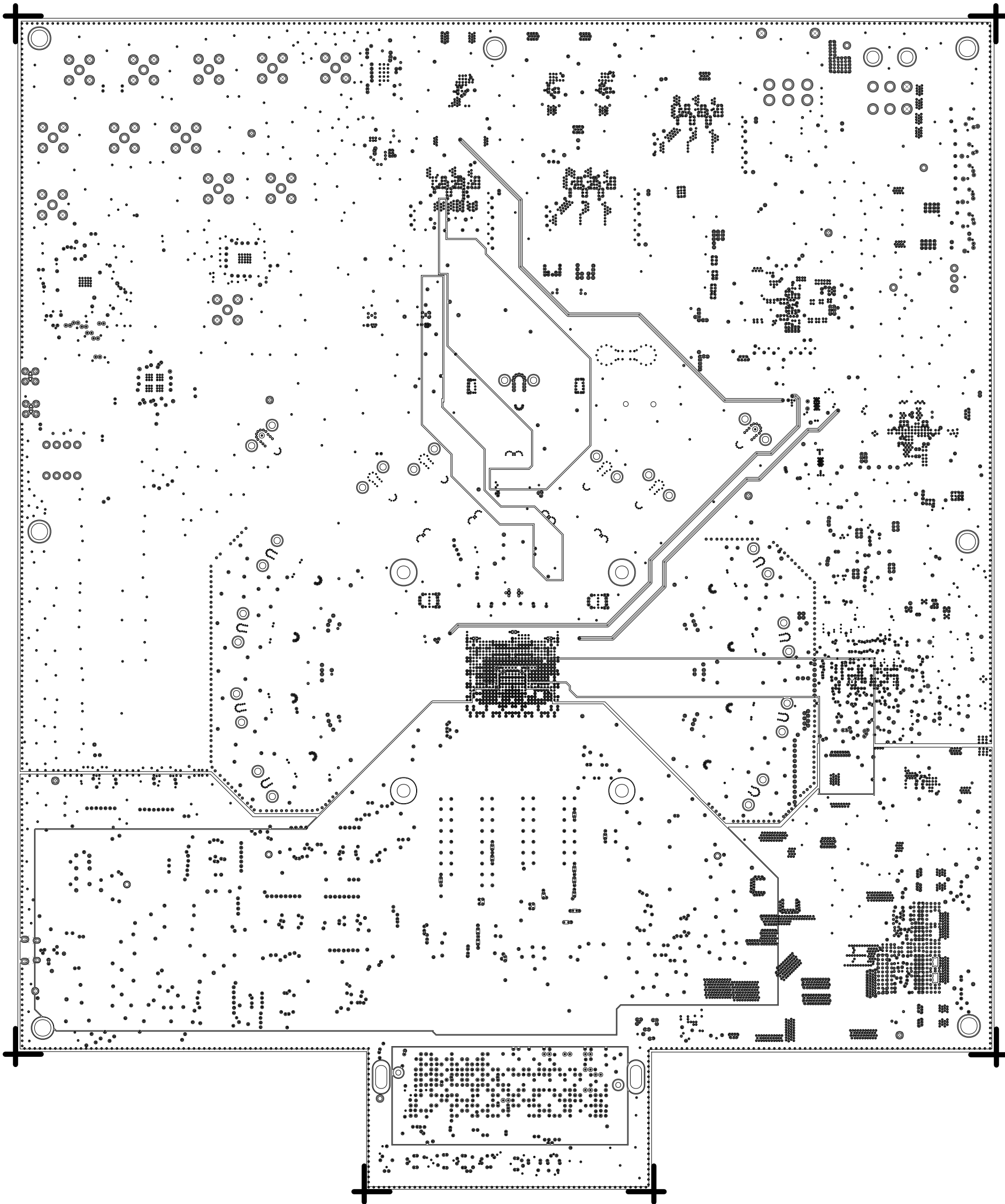




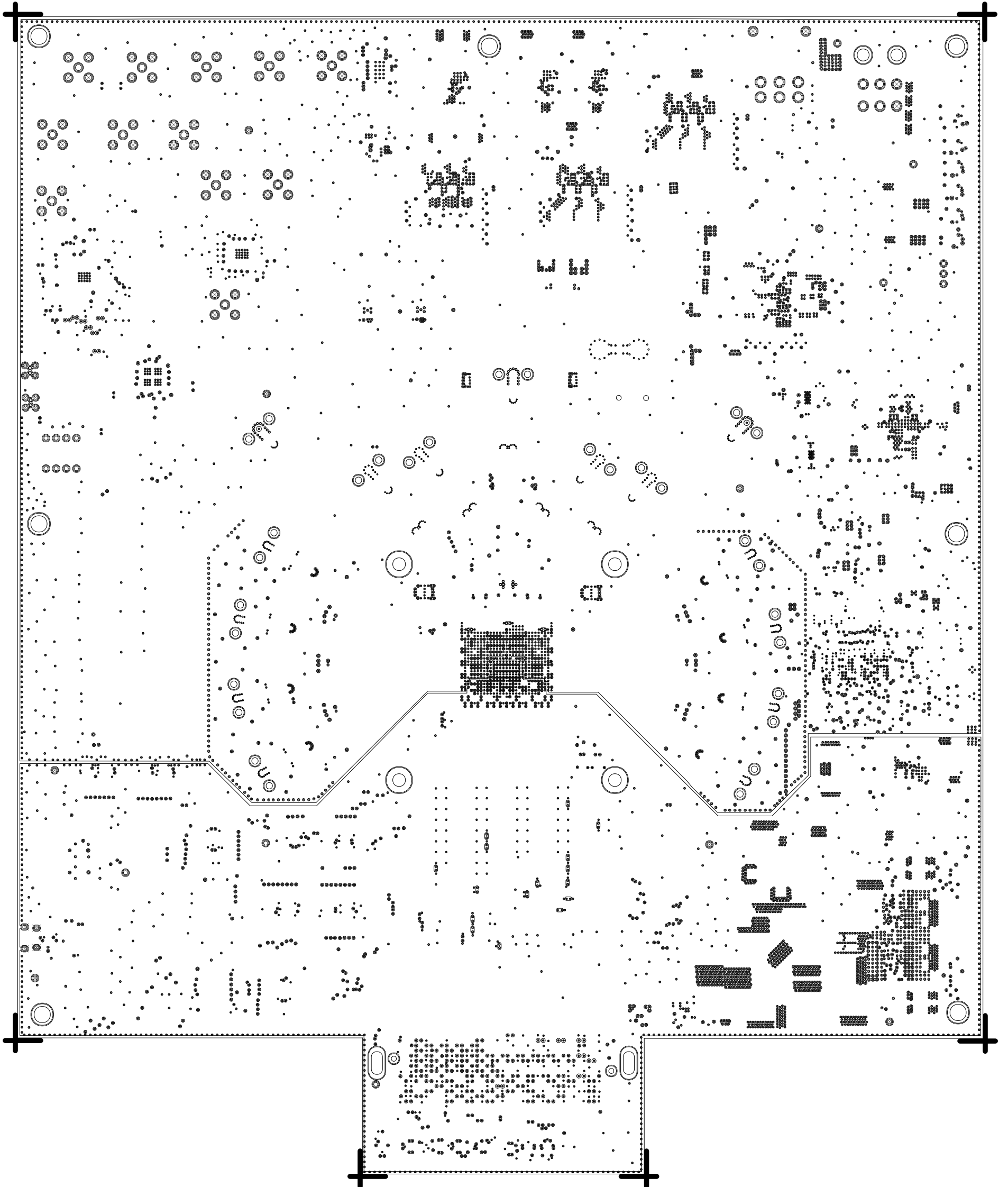
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08-068355-20  
REV C



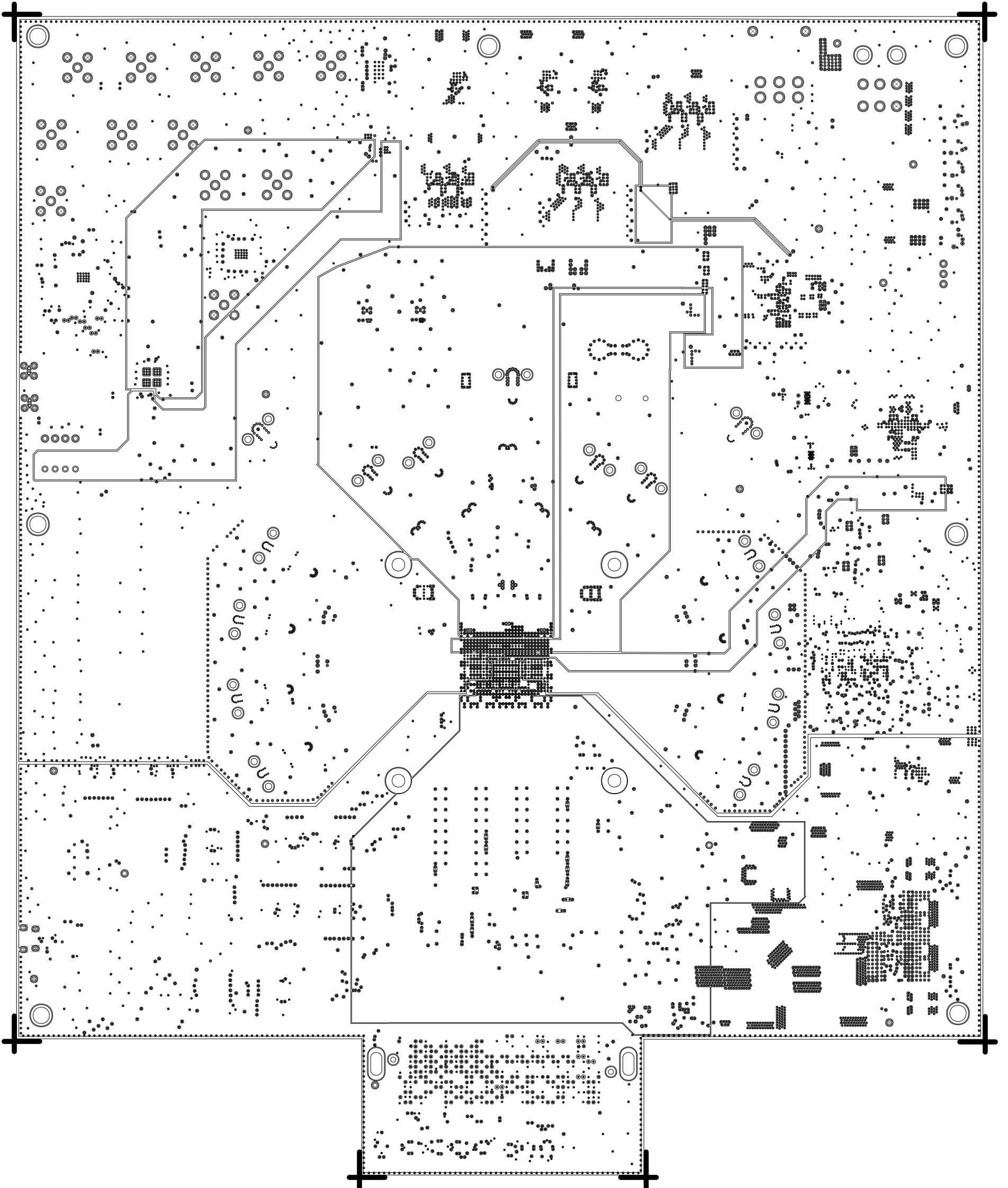
L16 POWER  
08-068355-21  
REV C



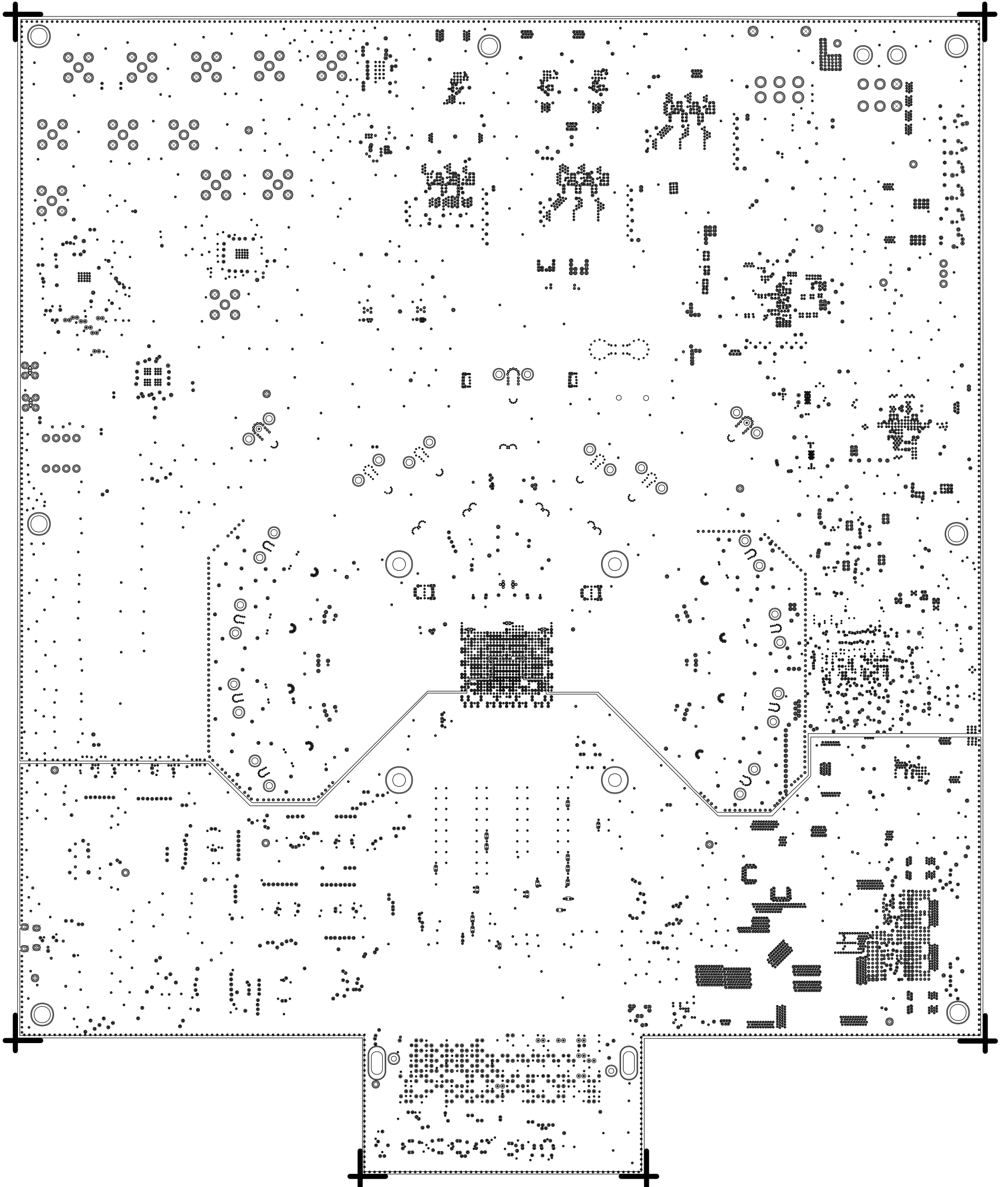
L17 GROUND  
08-068355-22  
REV C



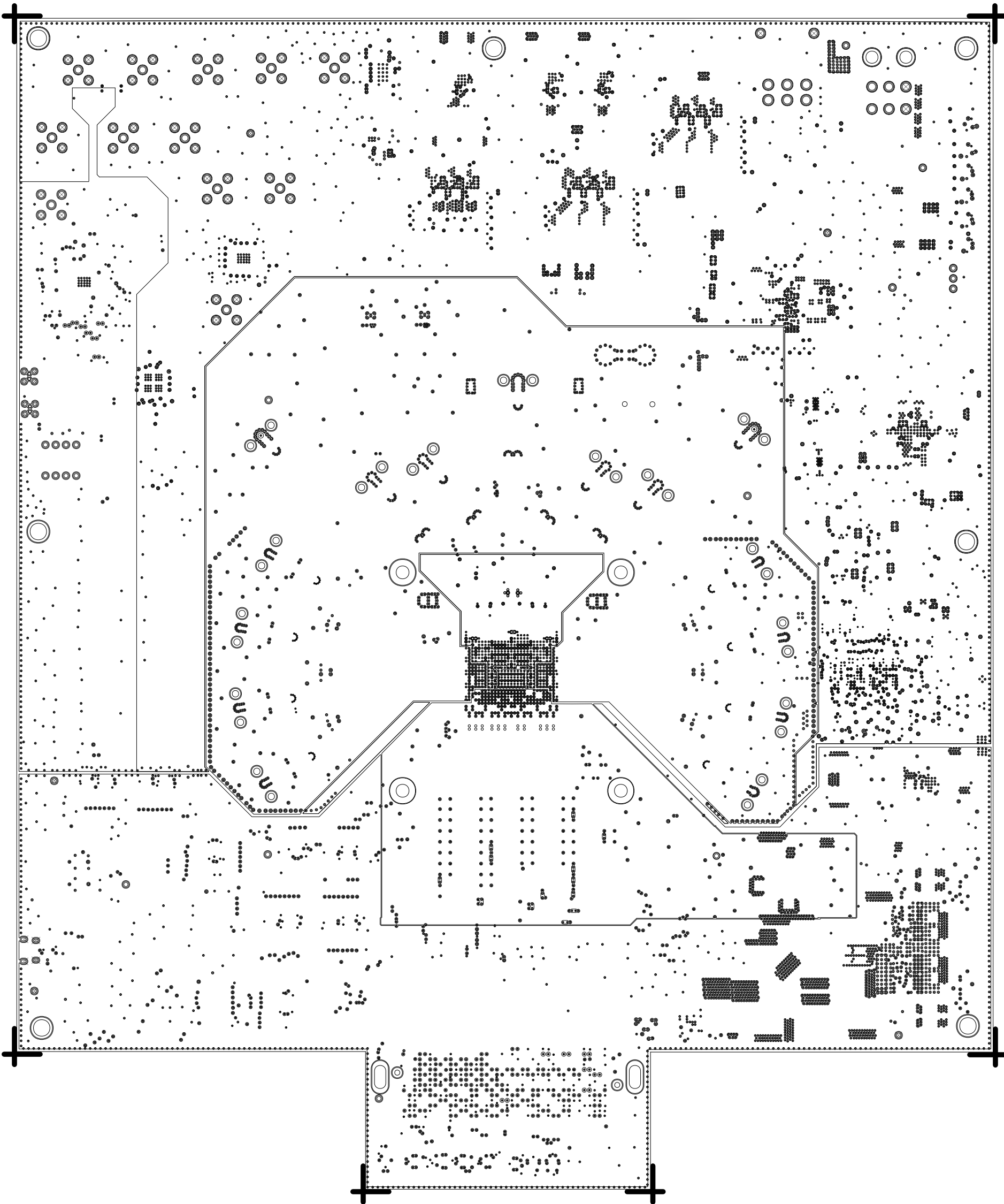
L18 POWER  
08-068355-23  
REV C



L19 GROUND  
08-068355-24  
REV C

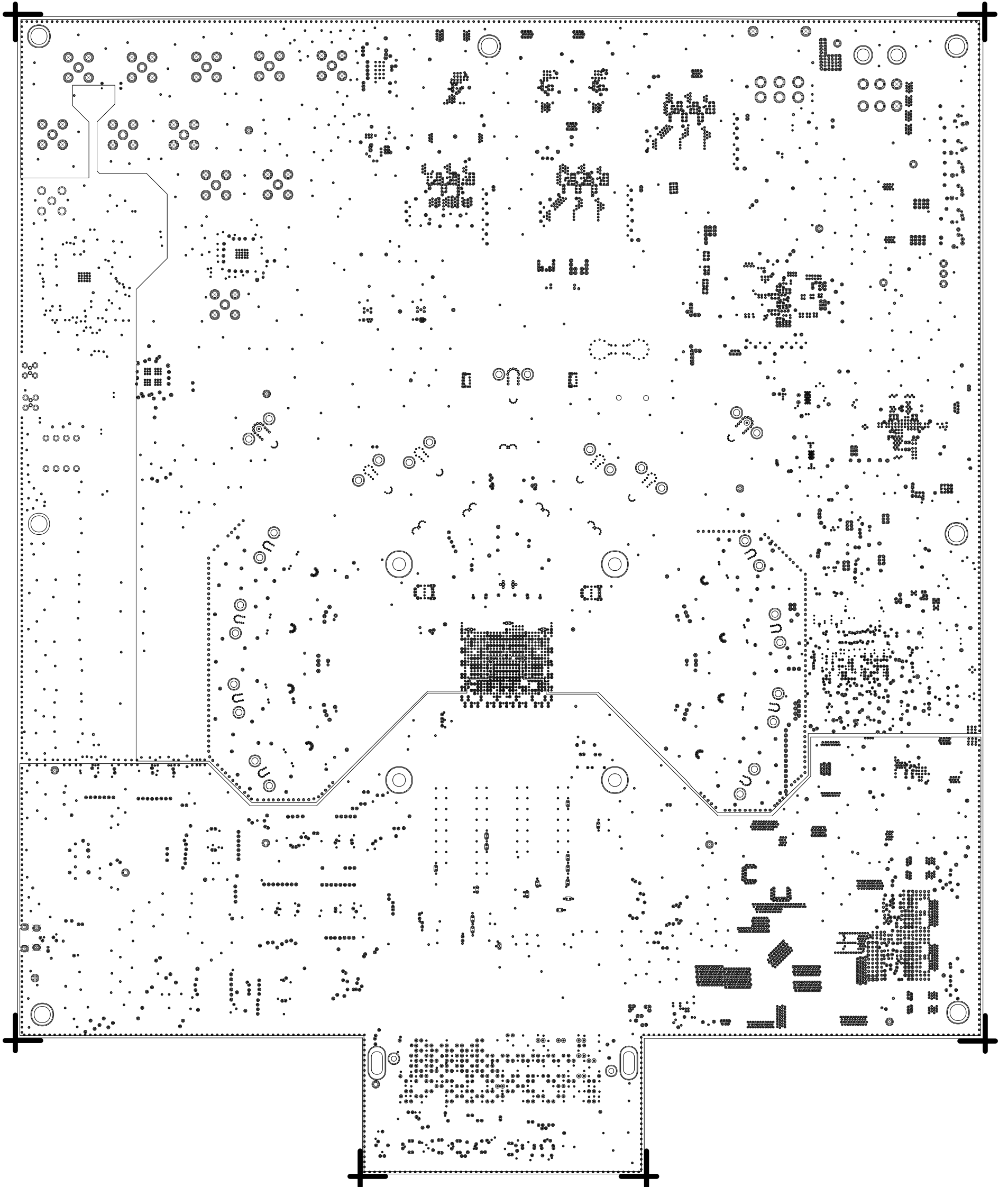


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08-068355-25  
REV C

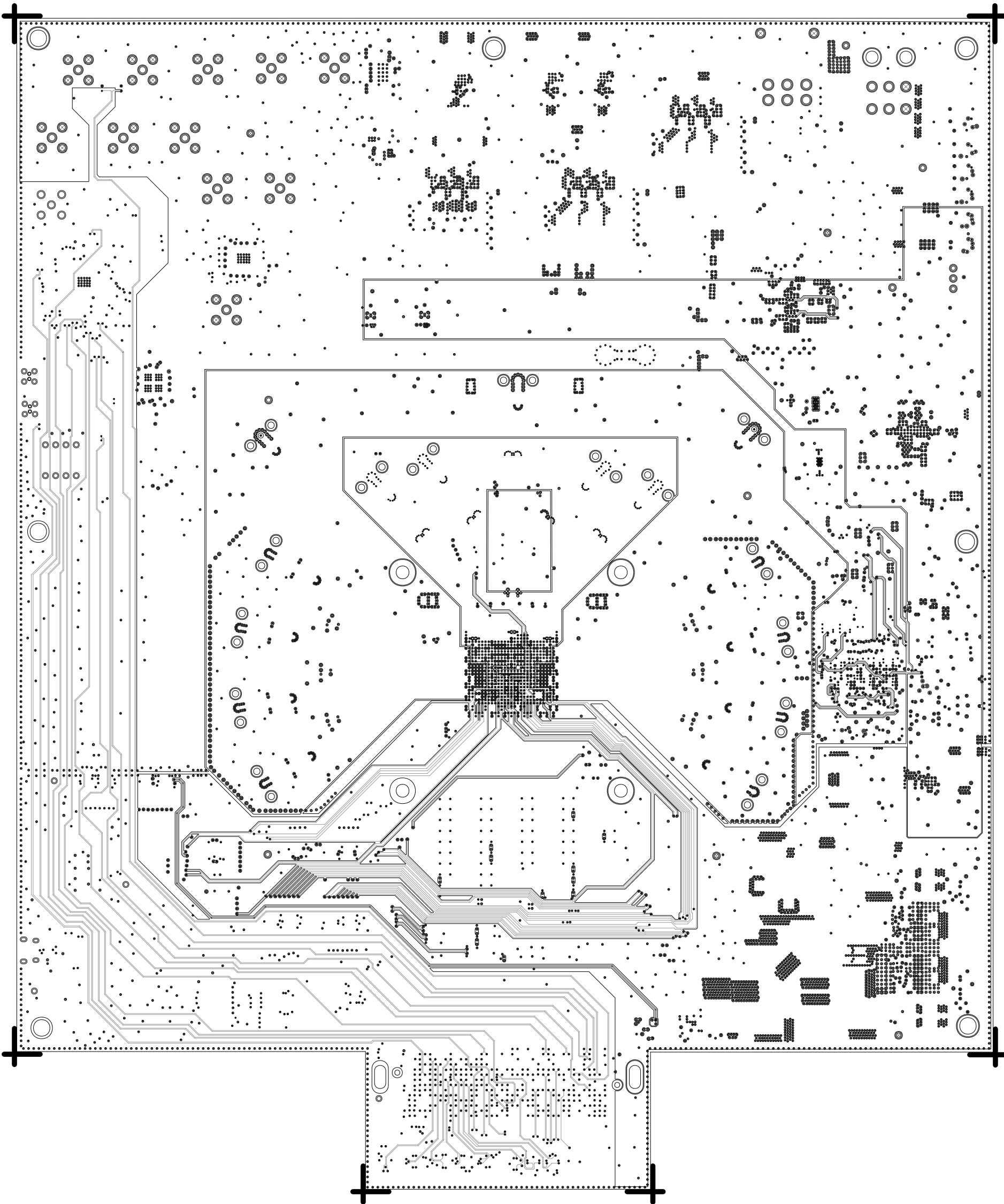




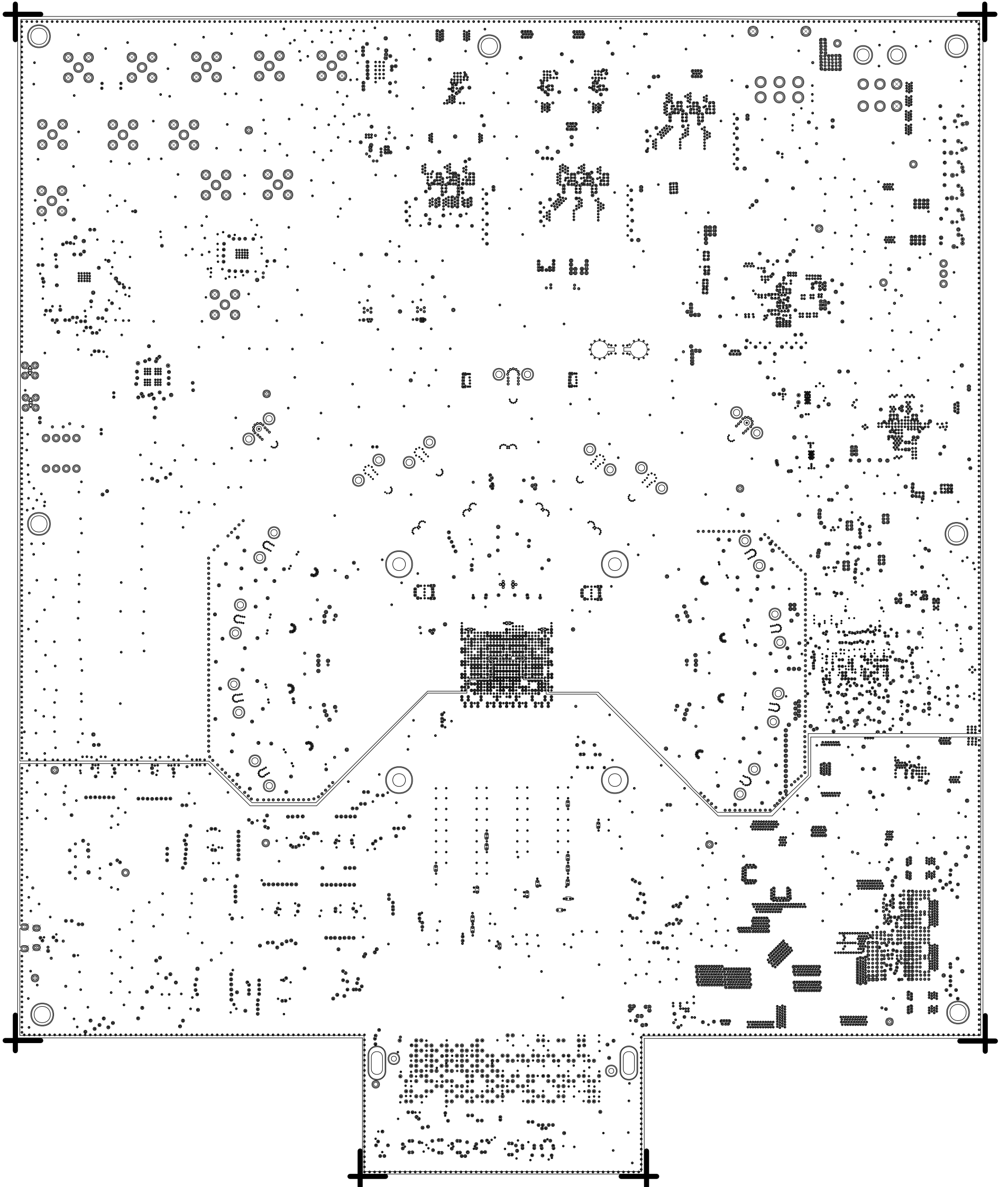
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REV C



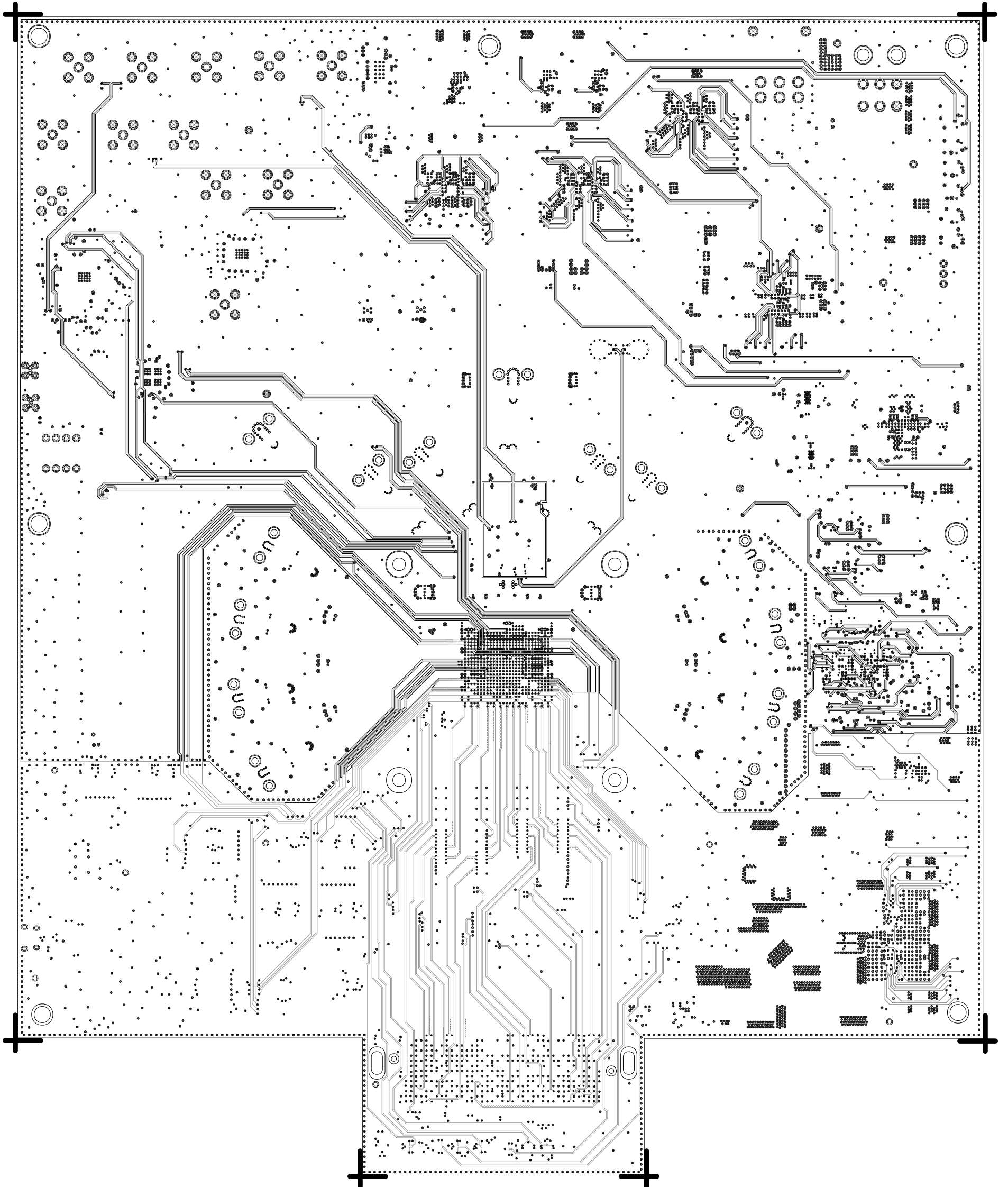
L22 MIXED  
08-068355-27  
REV C



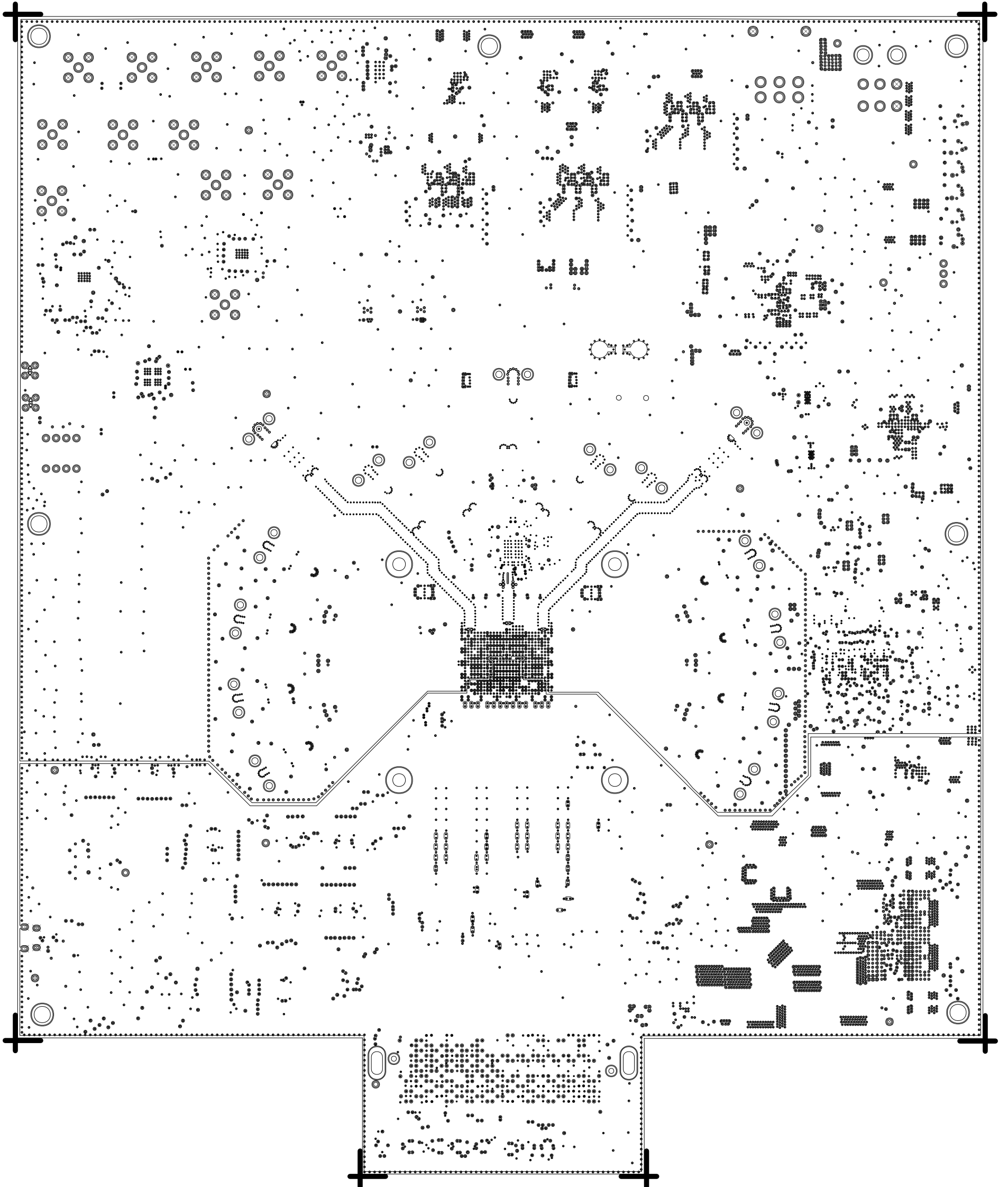
L23 GROUND  
08-068355-28  
REV C



L24 SIGNAL  
08-068355-29  
REV C



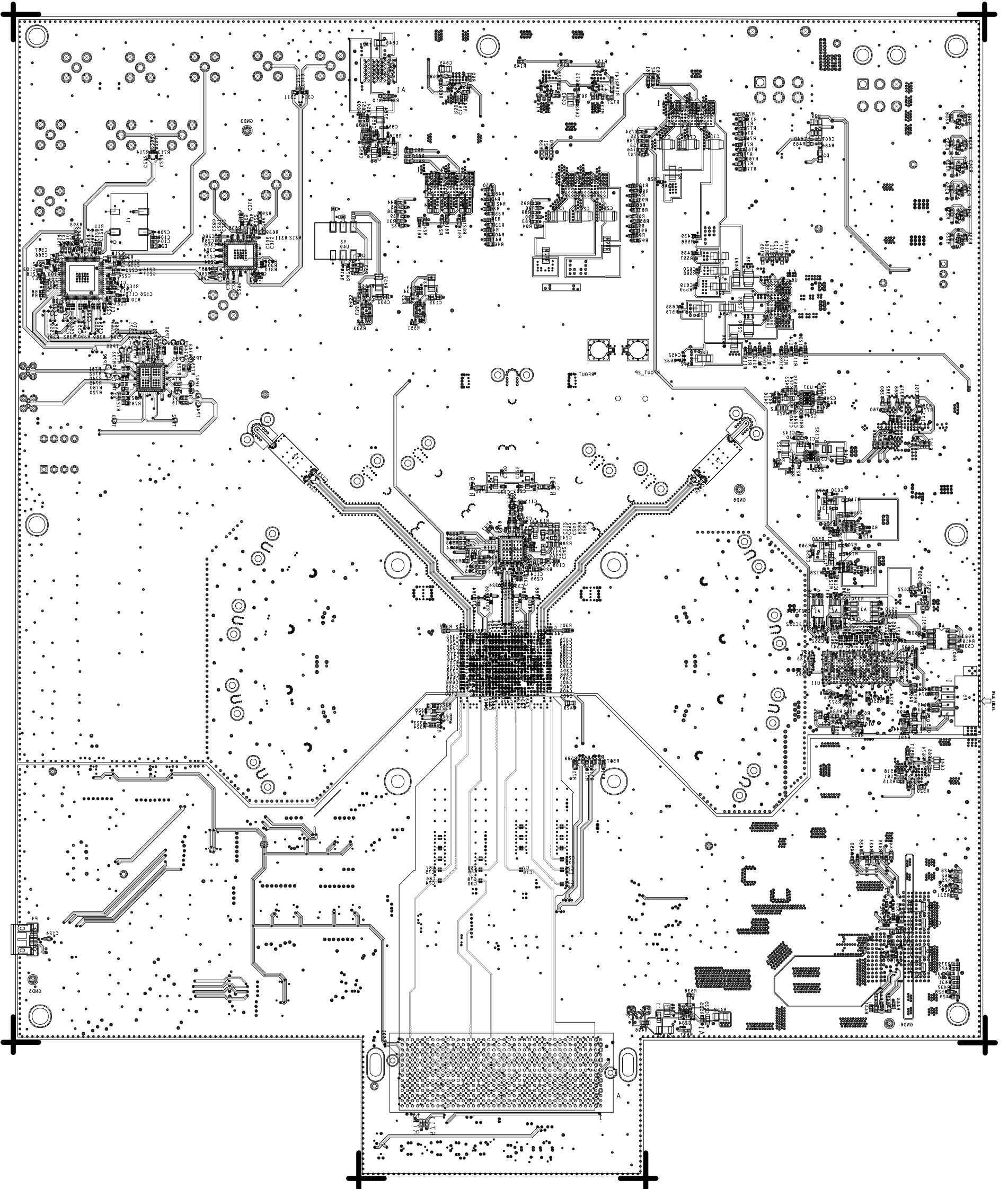
L25 GROUND  
08-068355 -3  
REV C

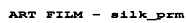


L26 SECONDARY

08-068355-02

REV C



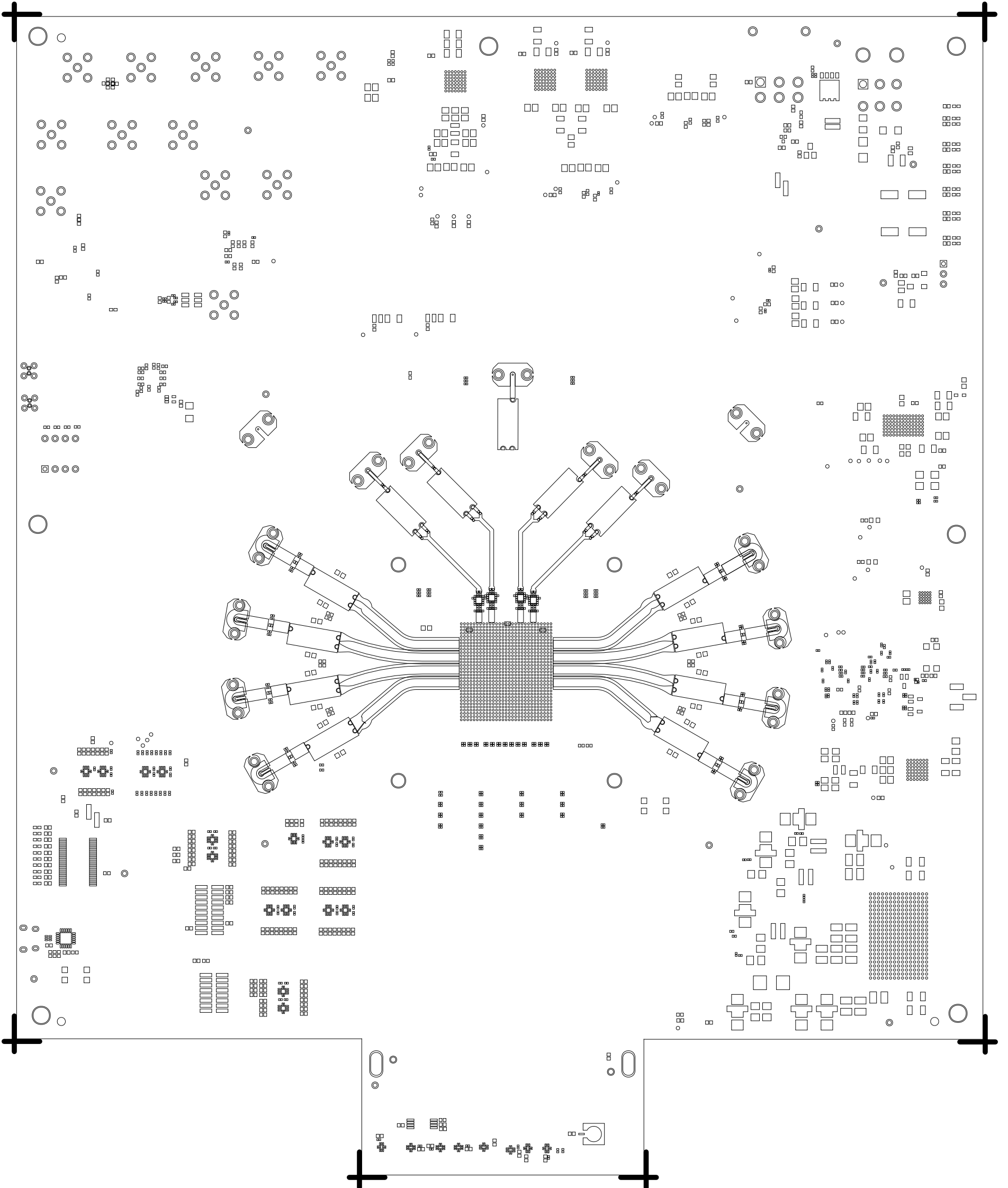


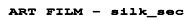


SOLDERMASK PRIMARY

08-068355-04

REV C

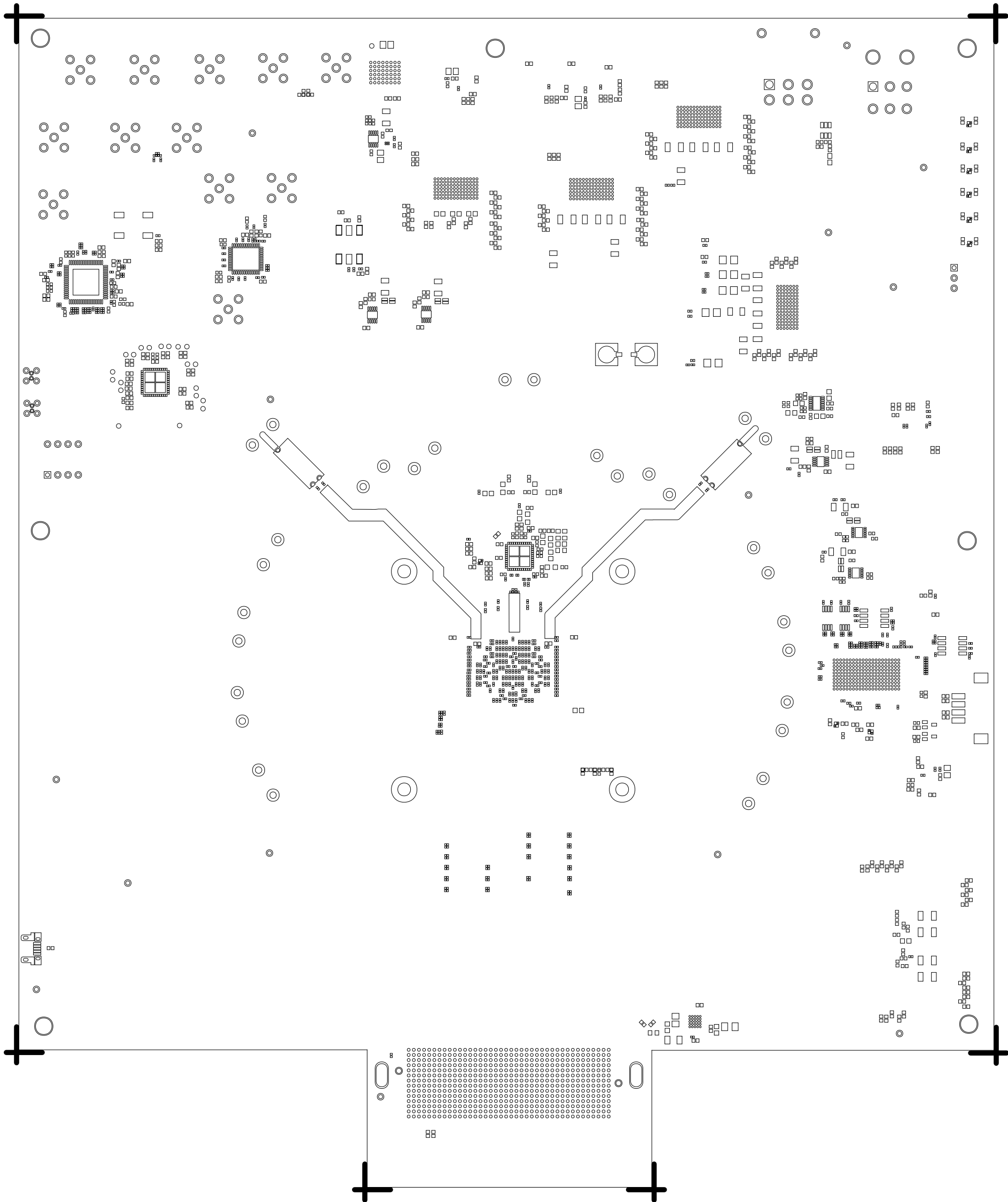




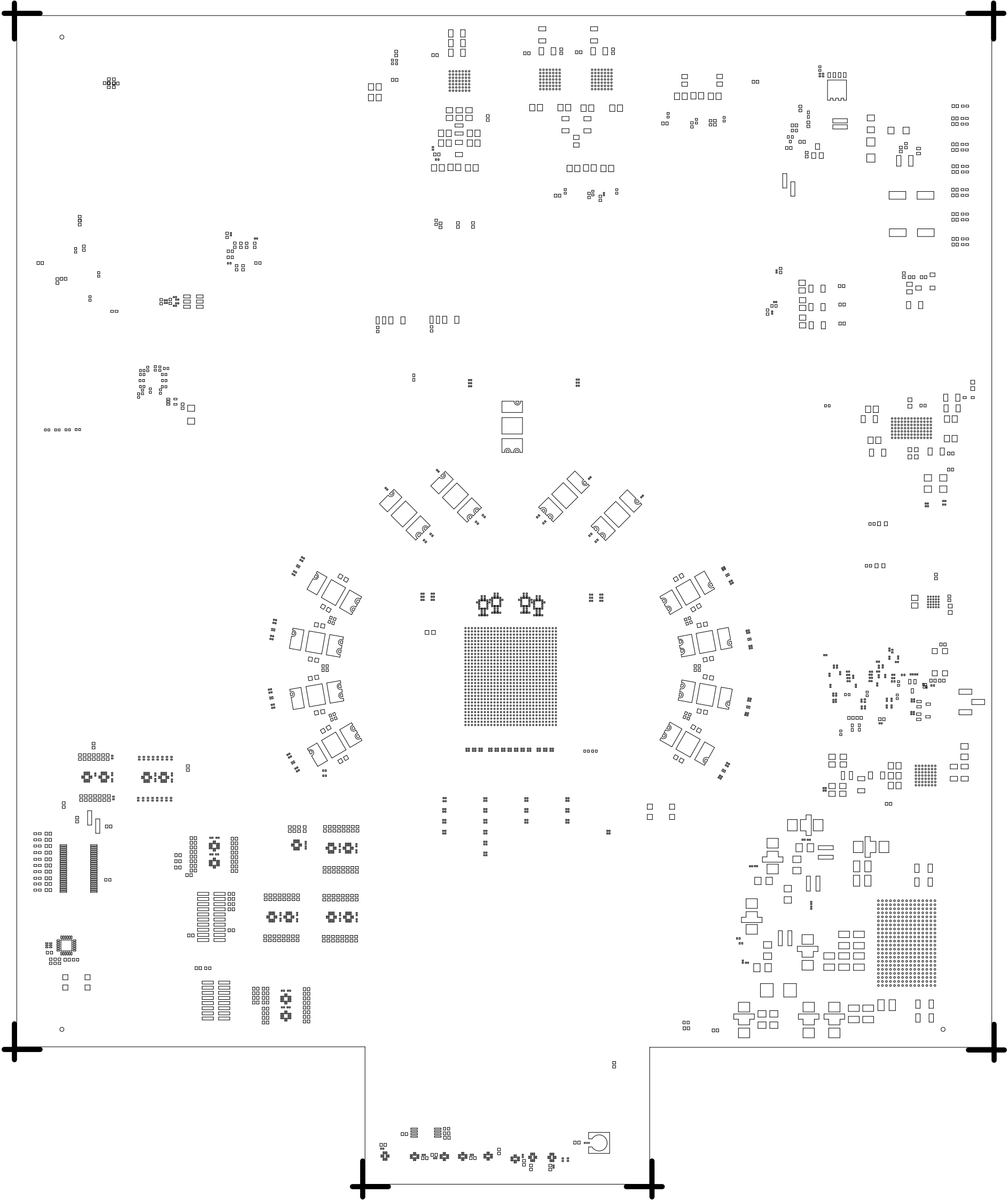
SOLDERMASK SECONDARY

08-068355-06

REV C



PASTEMASK PRIMARY  
08-068355-31  
REV C



PASTEMASK SECONDARY  
08-068355-32  
REV C

