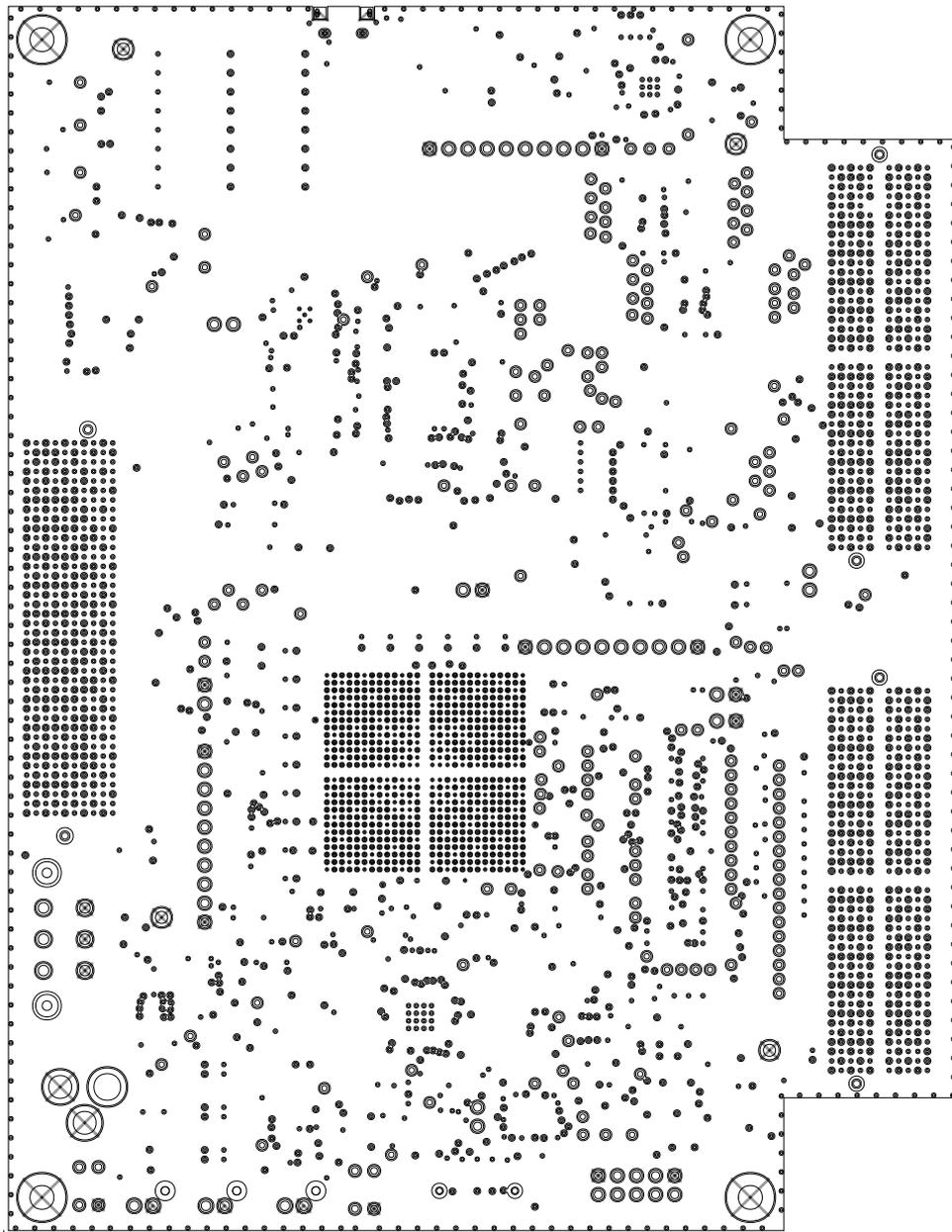


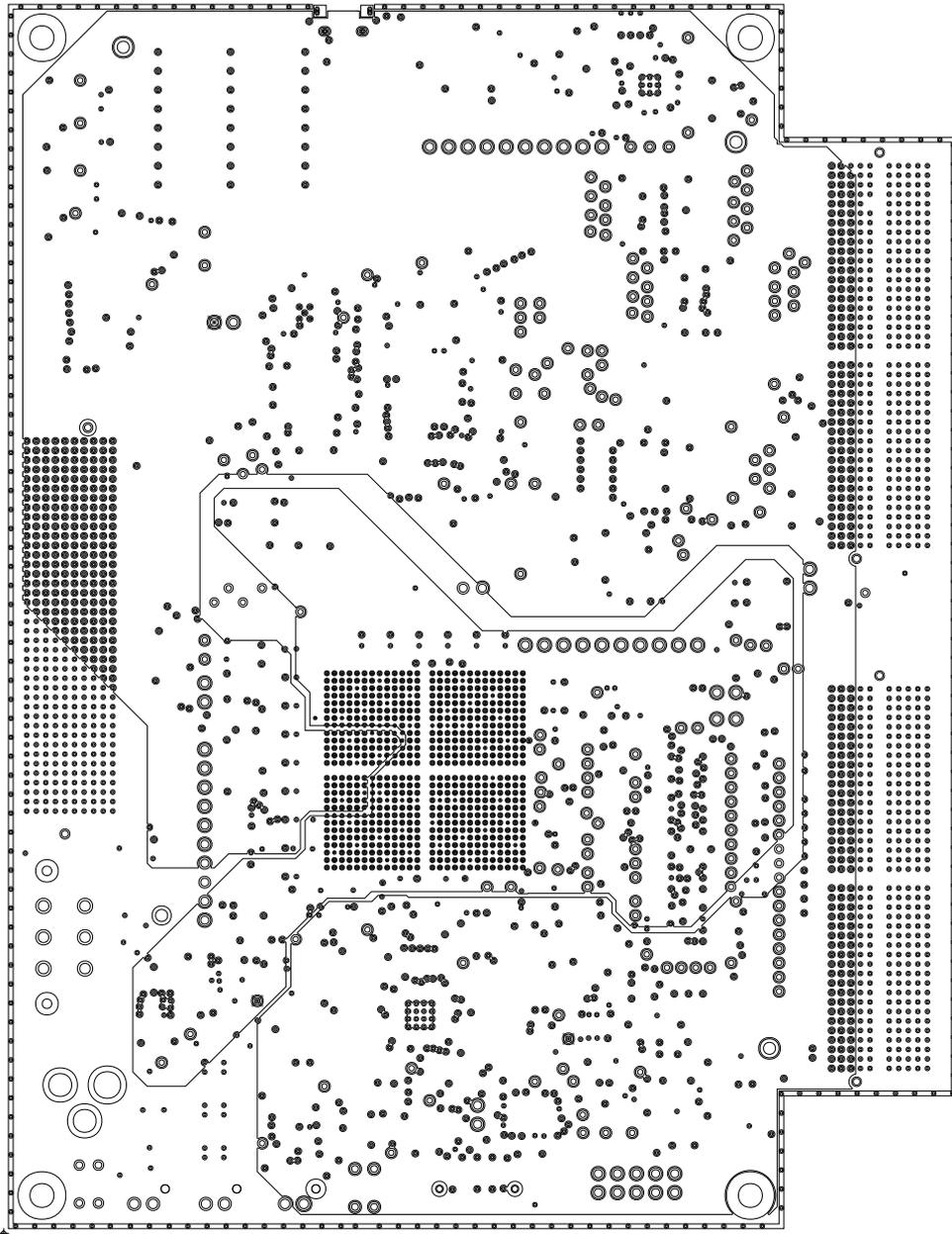
+



TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: SOLDERPASTE - PRIMARY SIDE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 11 - GND PLANE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 8 - PWR PLANE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
◻	8.0	+3.0/-8.0	PLATED	681
•	10.0	+0.0/-10.0	PLATED	5
•	12.0	+3.0/-12.0	PLATED	2315
◦	21.654	+2.0/-2.0	PLATED	6
•	21.654	+3.0/-3.0	PLATED	8
◦	28.0	+3.0/-3.0	PLATED	191
+	35.039	+1.969/-1.969	PLATED	8
◦	42.0	+3.0/-3.0	PLATED	54
+	49.37	+2.992/-2.992	PLATED	6
◦	55.0	+3.0/-3.0	PLATED	6
A	63.0	+3.0/-3.0	PLATED	4
+	120.0	+3.0/-3.0	PLATED	2
◦	125.0	+3.0/-3.0	PLATED	4
◇	140.0	+3.0/-3.0	PLATED	1
◦	40.0	+3.0/-3.0	NON-PLATED	2
▣	43.307	+2.0/-0.0	NON-PLATED	3
◦	50.0	+3.0/-3.0	NON-PLATED	4
▣	52.0	+3.0/-3.0	NON-PLATED	2
□	118.0	+3.0/-3.0	NON-PLATED	2

**FAB NOTES:**

- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. ALL BOARD OUTLINE DIMENSION TOLERANCES ARE +/- .010". DIMENSIONS ARE FOR REFERENCE ONLY - USE ARTWORK FOR ACCURATE MEASUREMENT OF THE BOARD OUTLINE.
- THE PWB SHALL BE FABRICATED TO IPC-6012, CLASS 2 AND WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2, CURRENT REVISIONS.
- BOARD MATERIAL SHALL BE 180 Tg/340 Td ISOLA FR-370HR OR EQUIVALENT, RoHS COMPLIANT AND LEAD FREE ASSEMBLY CAPABLE. BOARD MATERIAL SHALL MEET OR EXCEED IPC-4101B, RoHS CERTIFICATE OF CONFORMANCE SHALL BE DELIVERED WITH EACH LOT.
- UL94V MATERIAL REQUIRED. CONSTRUCTION TO BE U.L. APPROVED AND MARKED ON THE FINISHED BOARD. MARK EFILE NUMBER ON THE FINISHED BOARD.
- MINIMUM COPPER WALL THICKNESS OF PLATED-THRU HOLES TO BE .001 INCH, WITH A MINIMUM ANNULAR RING OF .001 INCH.
- MAX. WARP & TWIST TO BE .0075 INCHES PER INCH.
- MAXIMUM RATED VOLTAGE BETWEEN CONDUCTORS SHALL BE 65 VOLTS PEAK.
- NO BREAKOUT ALLOWED ON PLATED THROUGH HOLES.
- FOIL OUTER OPTIONAL.
- INTERPRET DIMENSIONS IN ACCORDANCE WITH ASME Y14.5M-1994
- TEARDROP VIAS AS NECESSARY.
- THEIVING IS NOT ALLOWED.

**PROCESS NOTES:**

- PLATE ALL EXPOSED AREAS WITH ELECTROLESS IMMERSION GOLD, NICKEL 100 MIN MICROINCHES THK GOLD 2-6 MICROINCHES THK.
- APPLY LPI OR LDI SOLDERMASK. COLOR: RED. SOLDERMASK SHALL CONFORM TO IPC-SM-840, CLASS H, CURRENT REV.
- FABRICATION VENDOR IS ALLOWED TO INCREASE SOLDERMASK COMPONENT PADS BY A MAXIMUM 1 MIL ON EACH SIDE OVER THE COPPER PAD IN ORDER TO MEET TOOLING REQUIREMENTS WHILE MAINTAINING WEBBING BETWEEN ADJACENT PADS.
- APPLY LPI SILKSCREEN OR EQUIVALENT PER THE ARTWORK BOTH SIDES. COLOR: WHITE.
- BOARD MUST BE ELECTRICALLY TESTED USING SUPPLIED IPC-D-356 NETLIST.

OVERALL BOARD THICKNESS TO BE .062 +/- 10% AND APPLIES AFTER ALL LAMINATION AND PLATING PROCESSES, MEASURED FROM COPPER TO COPPER.

INNER PLANE LAYERS TO BE 1/2 OZ. COPPER.  
INNER SIGNAL LAYERS TO BE 1/2 OZ. COPPER.  
OUTER LAYERS TO BE 1/2 OZ. COPPER + PLATING.

**LAYER STACKUP**

- LAYER 1 - PRIMARY SIDE
- LAYER 2 - GND PLANE
- LAYER 3 - SIGNAL
- LAYER 4 - GND PLANE
- LAYER 5 - SIGNAL
- LAYER 6 - GND PLANE
- LAYER 7 - PWR PLANE
- LAYER 8 - PWR PLANE
- LAYER 9 - GND PLANE
- LAYER 10 - SIGNAL
- LAYER 11 - GND PLANE
- LAYER 12 - SIGNAL
- LAYER 13 - GND PLANE
- LAYER 14 - SECONDARY SIDE

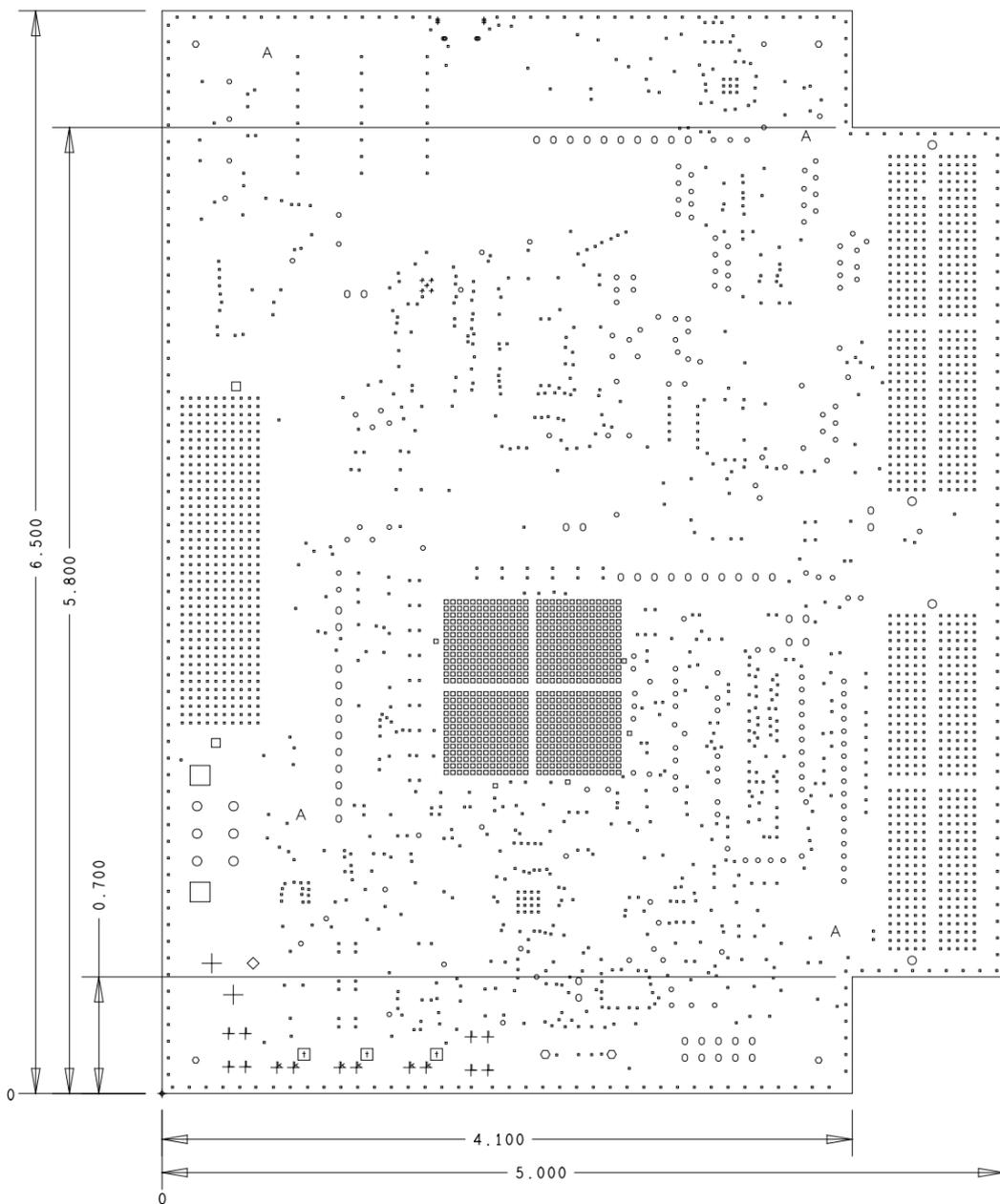
**CONTROLLED IMPEDANCE**

**EXTERNAL LAYERS**

0.0055" WIDE 50 OHMS SINGLE ENDED +/-10%  
0.0039" WIDE/0.0056" SPACING 100 OHMS DIFFERENTIAL +/-10%  
0.0045" WIDE/0.0055" SPACING 90 OHMS DIFFERENTIAL +/-10%

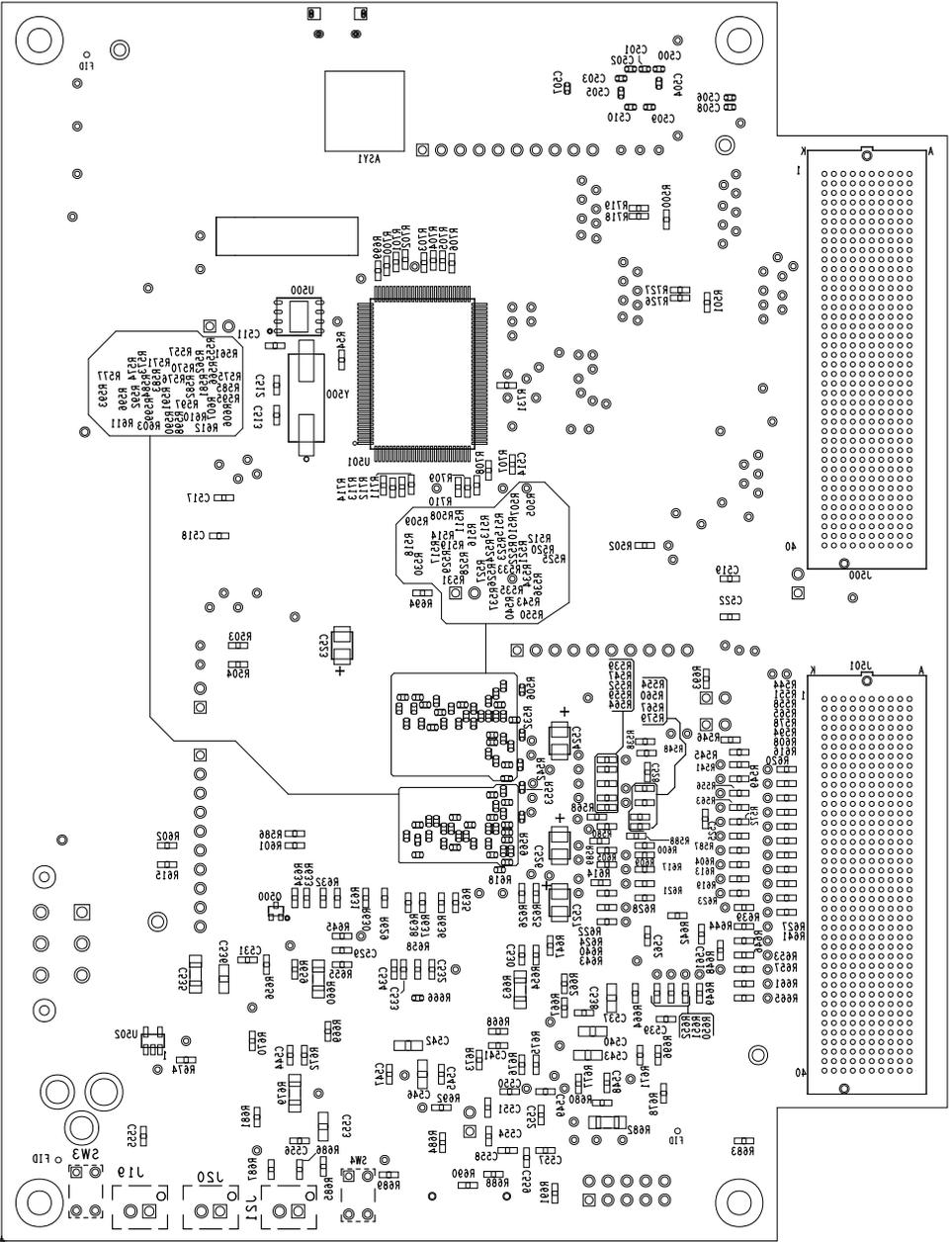
**INTERNAL LAYERS**

0.00475" WIDE 50 OHMS SINGLE ENDED +/-10%  
0.0039" WIDE/0.0083" SPACING 100 OHMS DIFFERENTIAL +/-10%

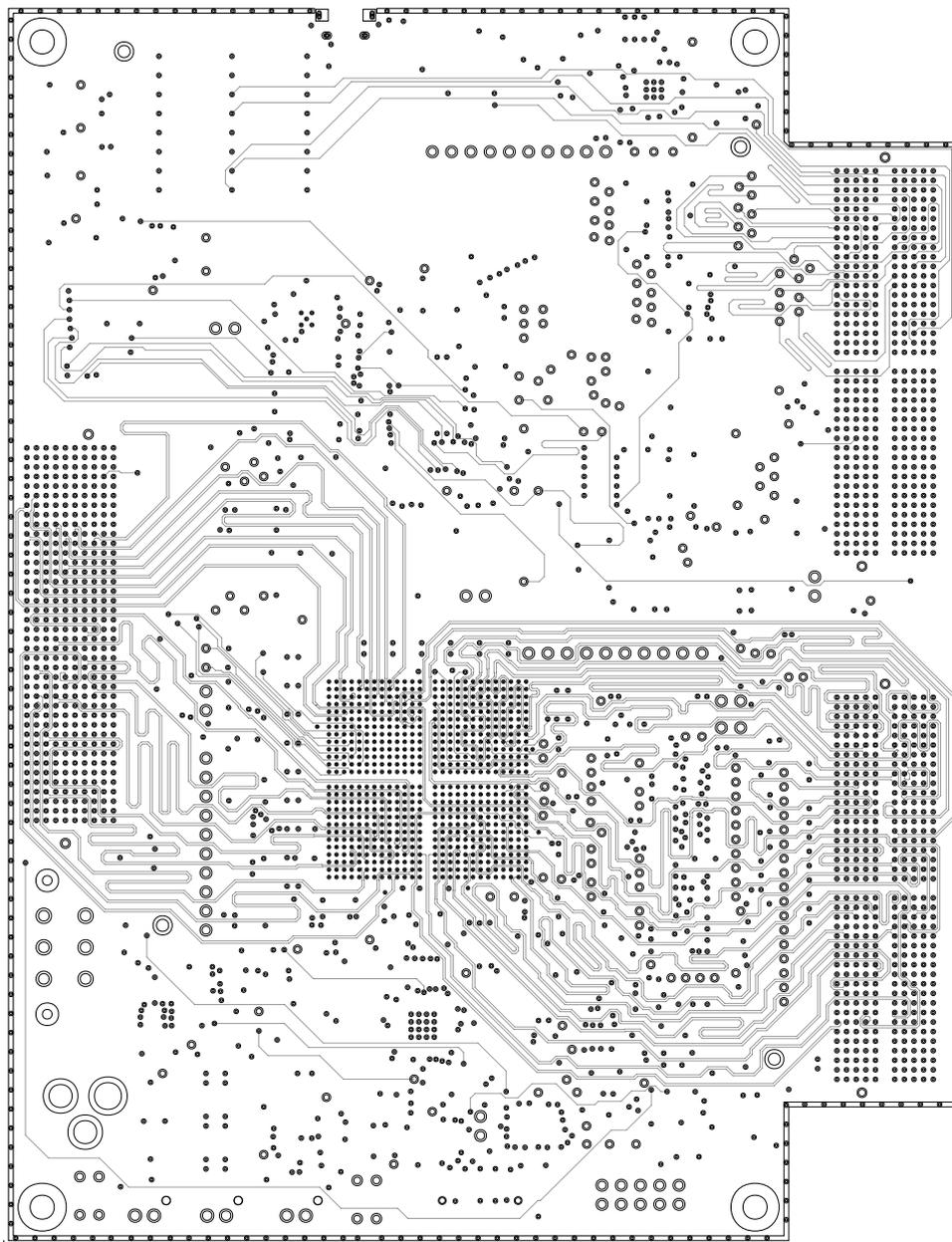


Primary Side Shown

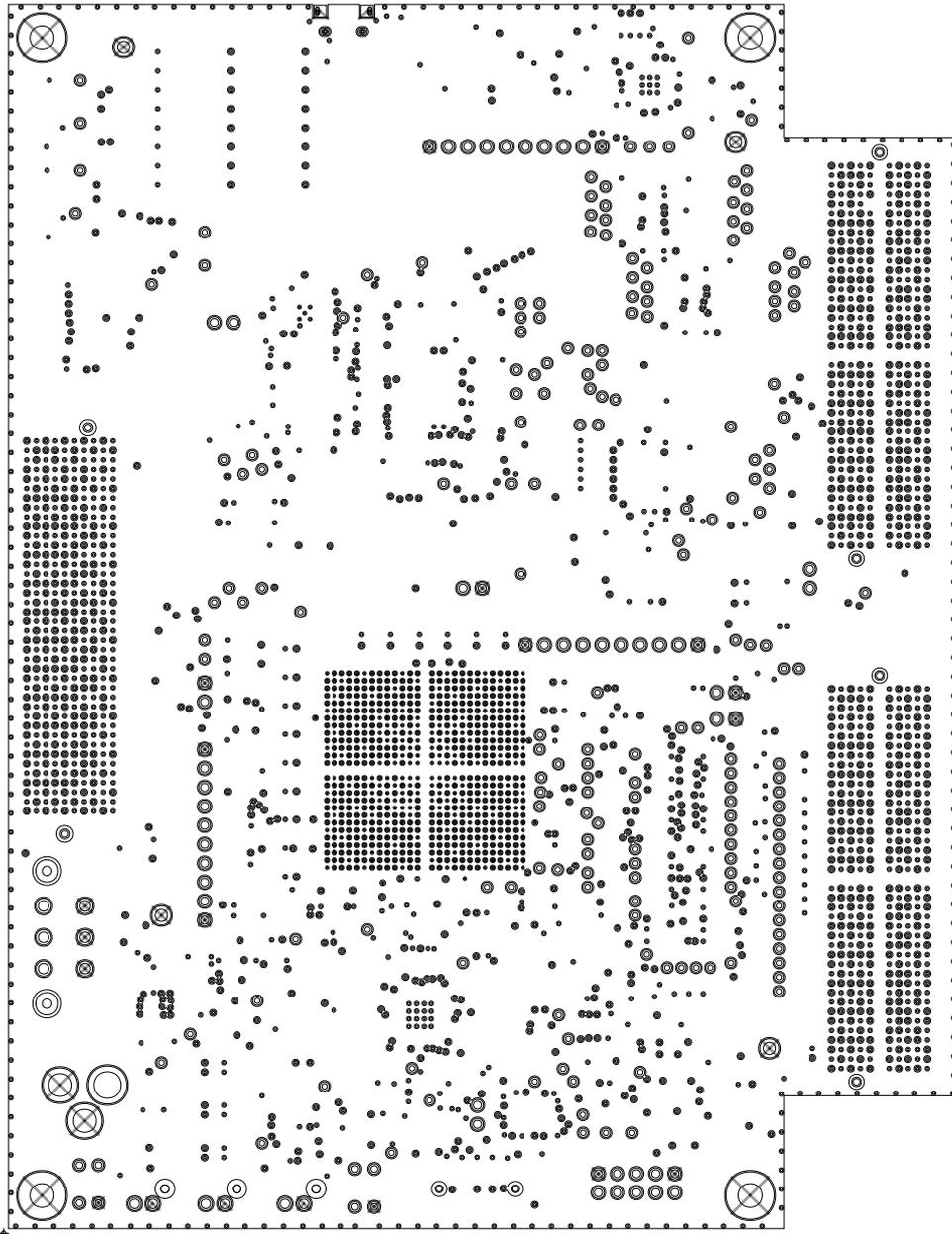
TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION:	FAB DRAWING
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



TEXAS INSTRUMENTS		ASSEMBLY - SECONDARY SIDE	
		2 2	
BOARD NAME:		DESCRIPTION: SILKSCREEN - SECONDARY SIDE	
PROJECT #: DLP082		DATE: 13 FEB 2023	REVISION: REV C

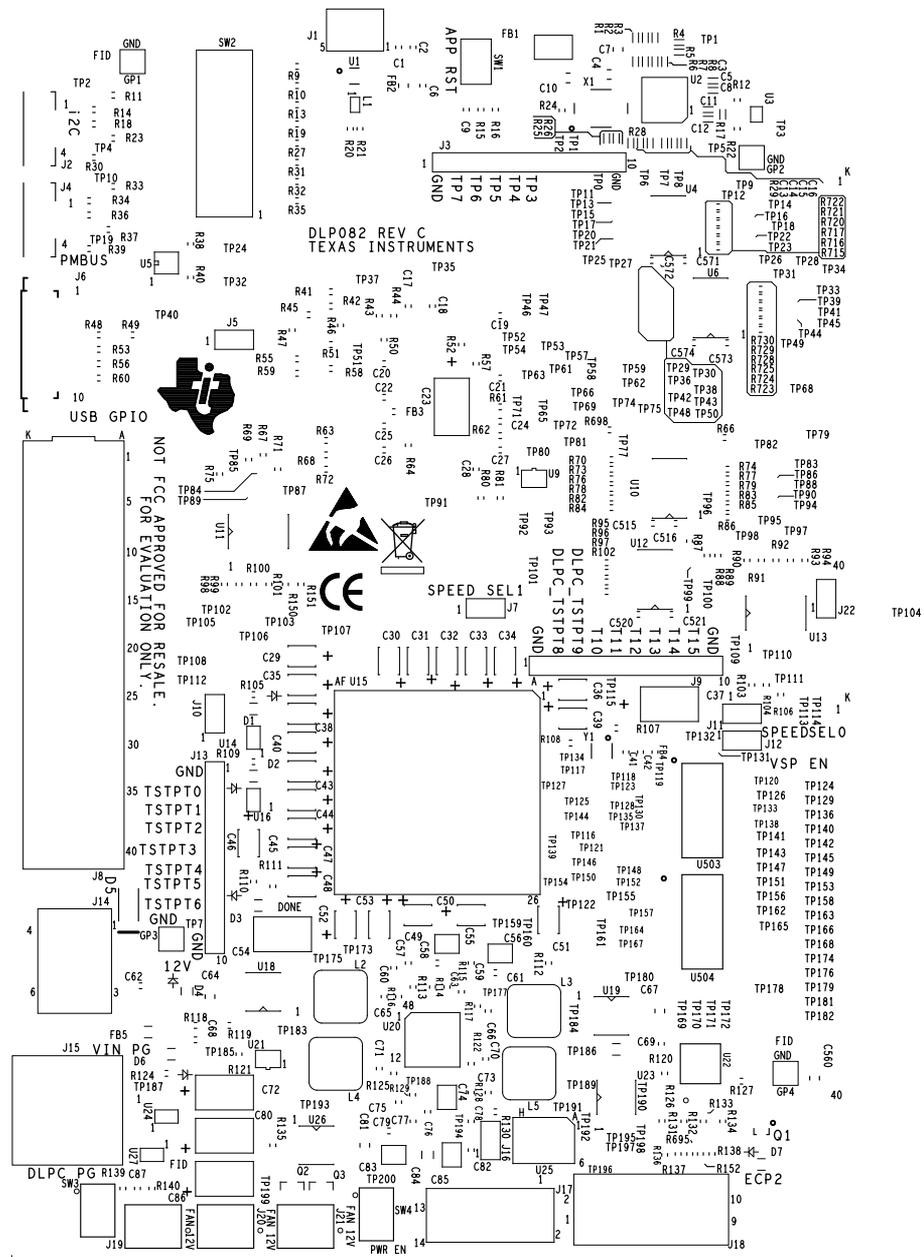


TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 3 - SIGNAL	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C

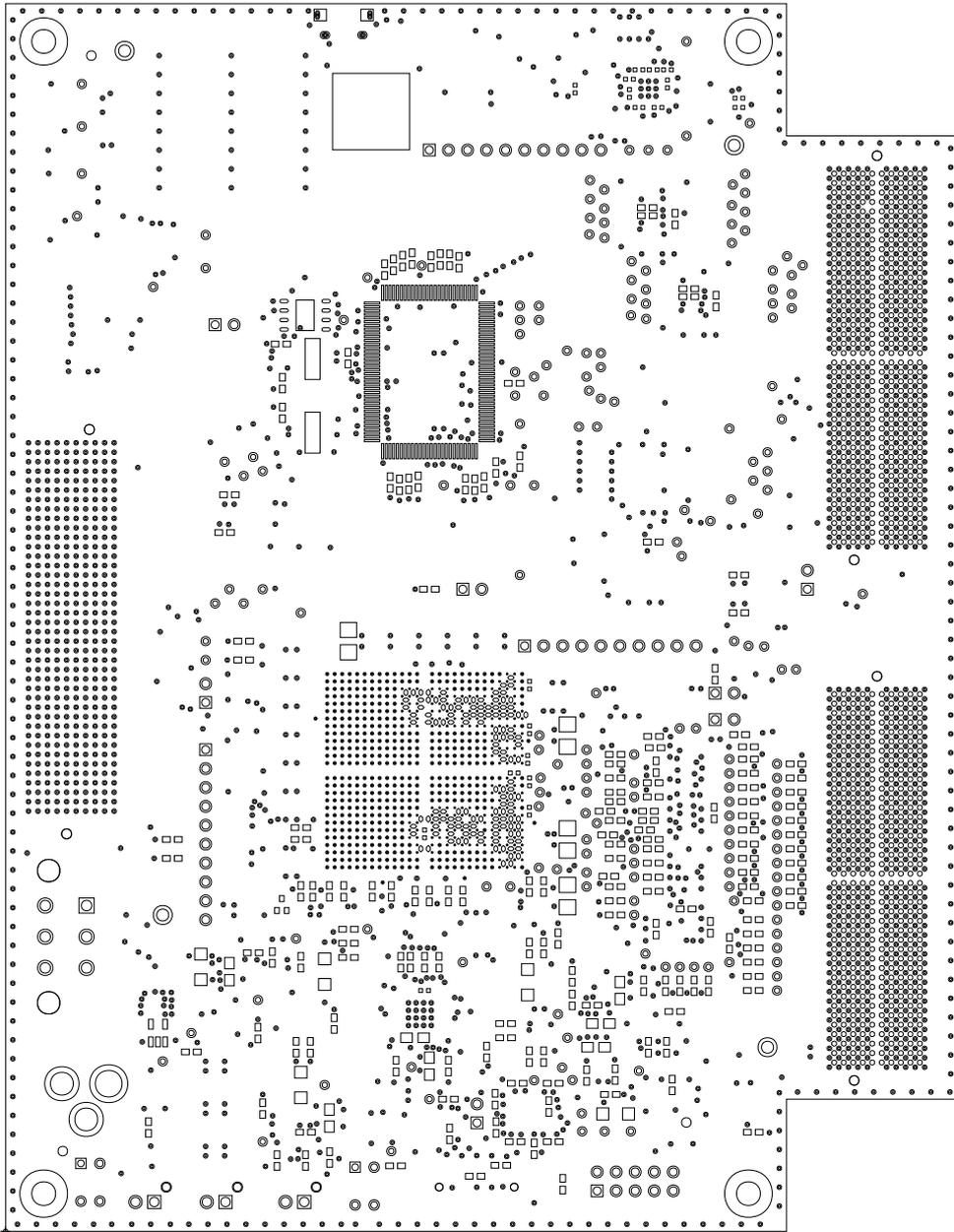


TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 2 - GND PLANE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C

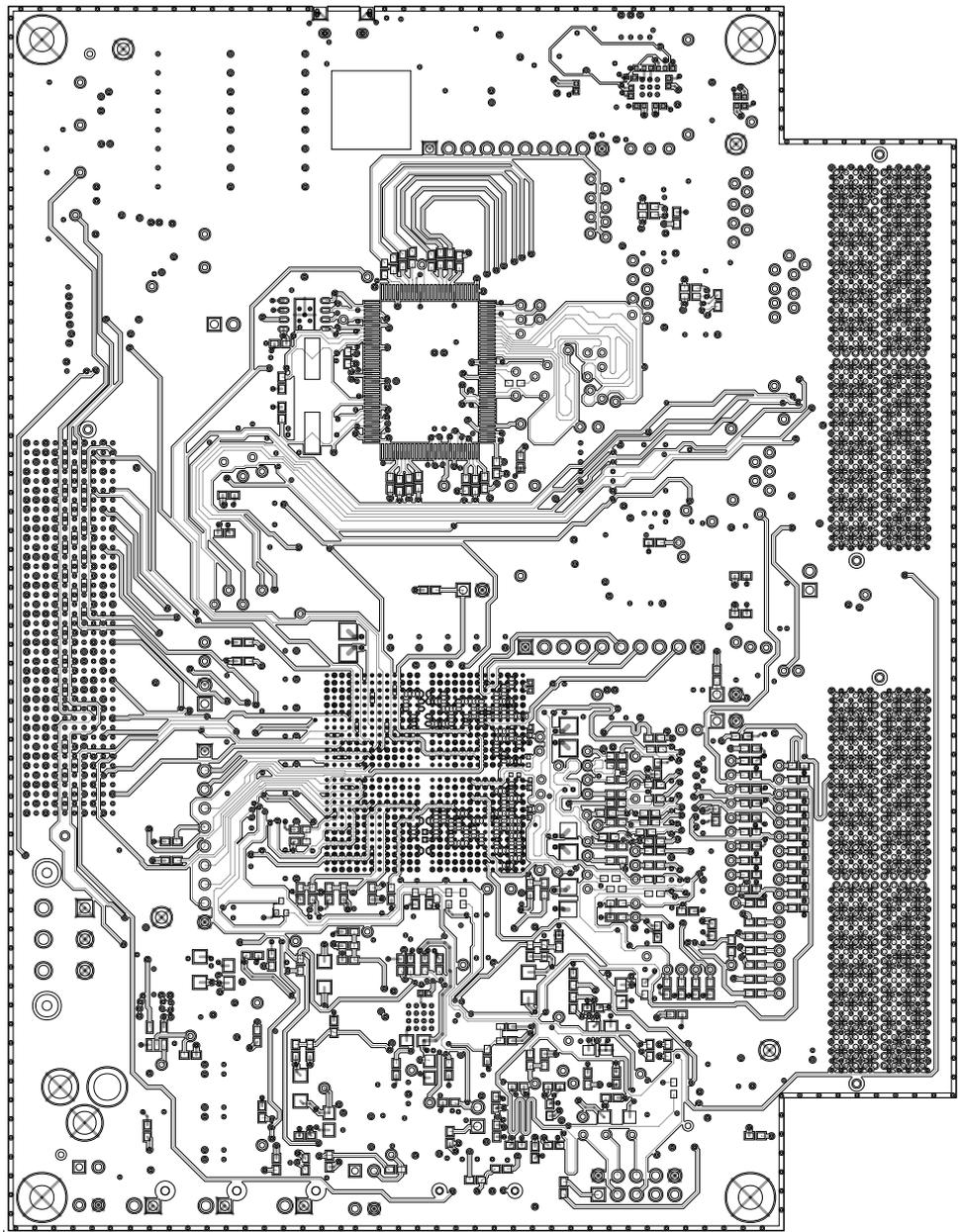




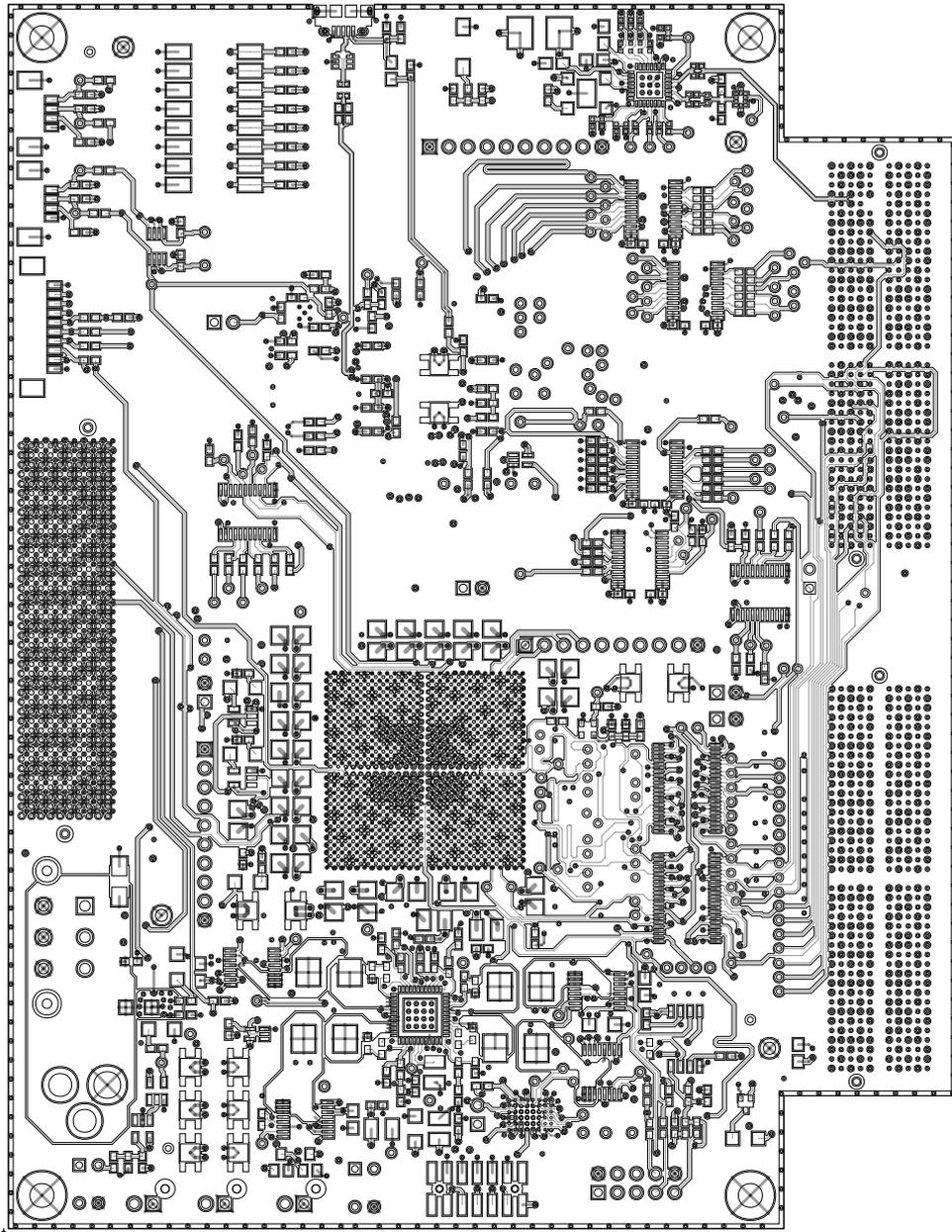
TEXAS INSTRUMENTS			
BOARD NAME:	DESCRIPTION: SILKSCREEN - PRIMARY SIDE		
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C	



TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: SOLDERMASK - SECONDARY SIDE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C

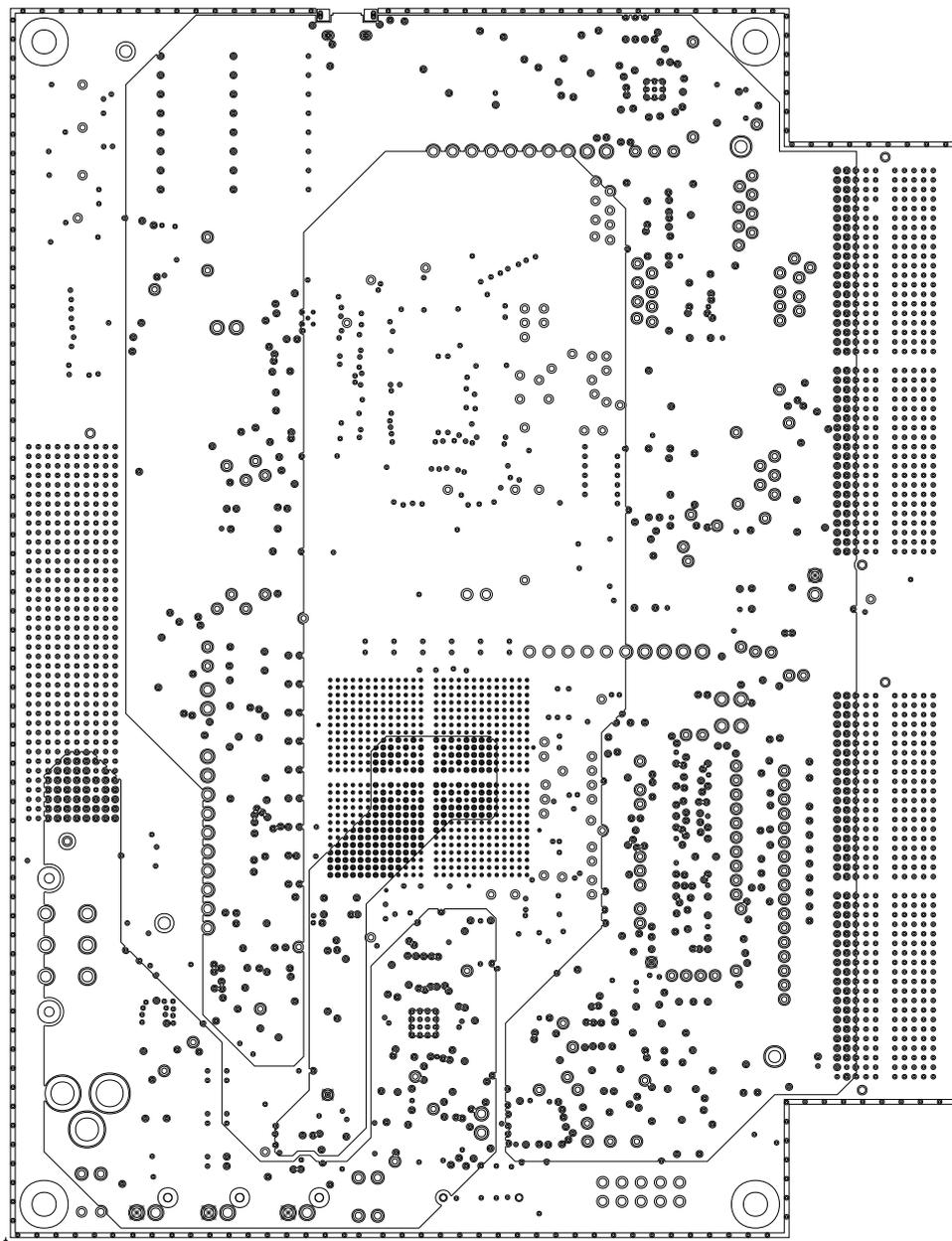


TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 14 - SECONDARY SIDE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C

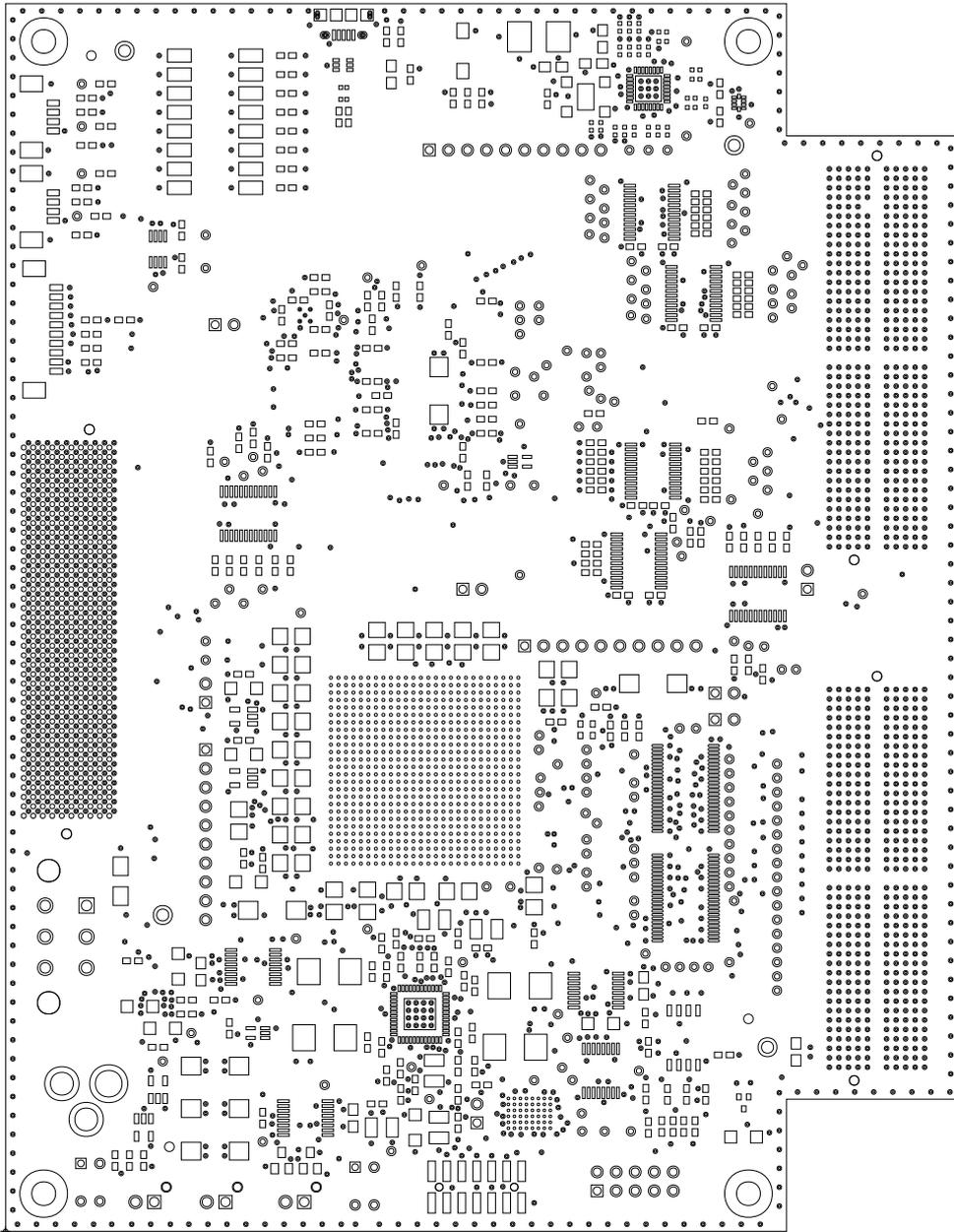


TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 1 - PRIMARY SIDE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C

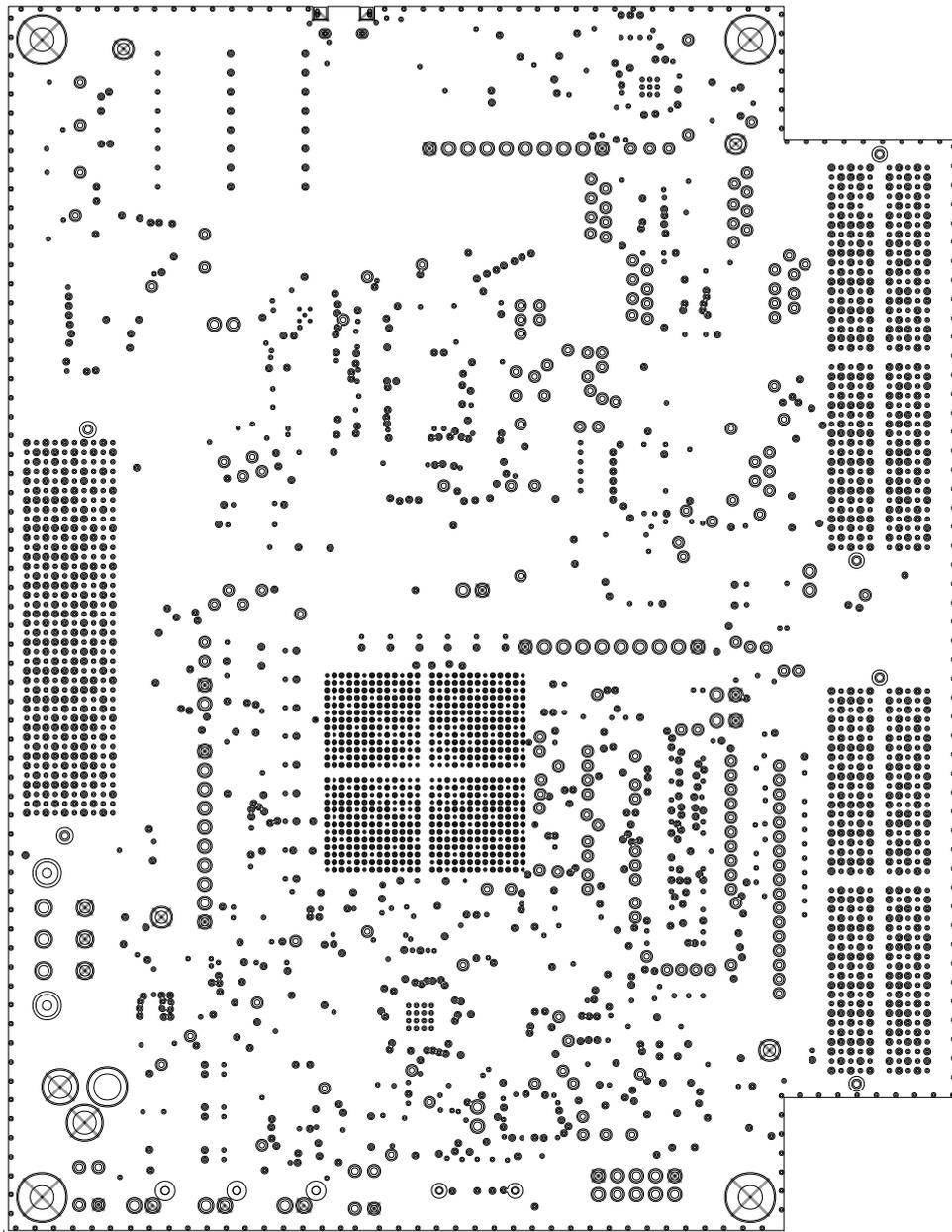




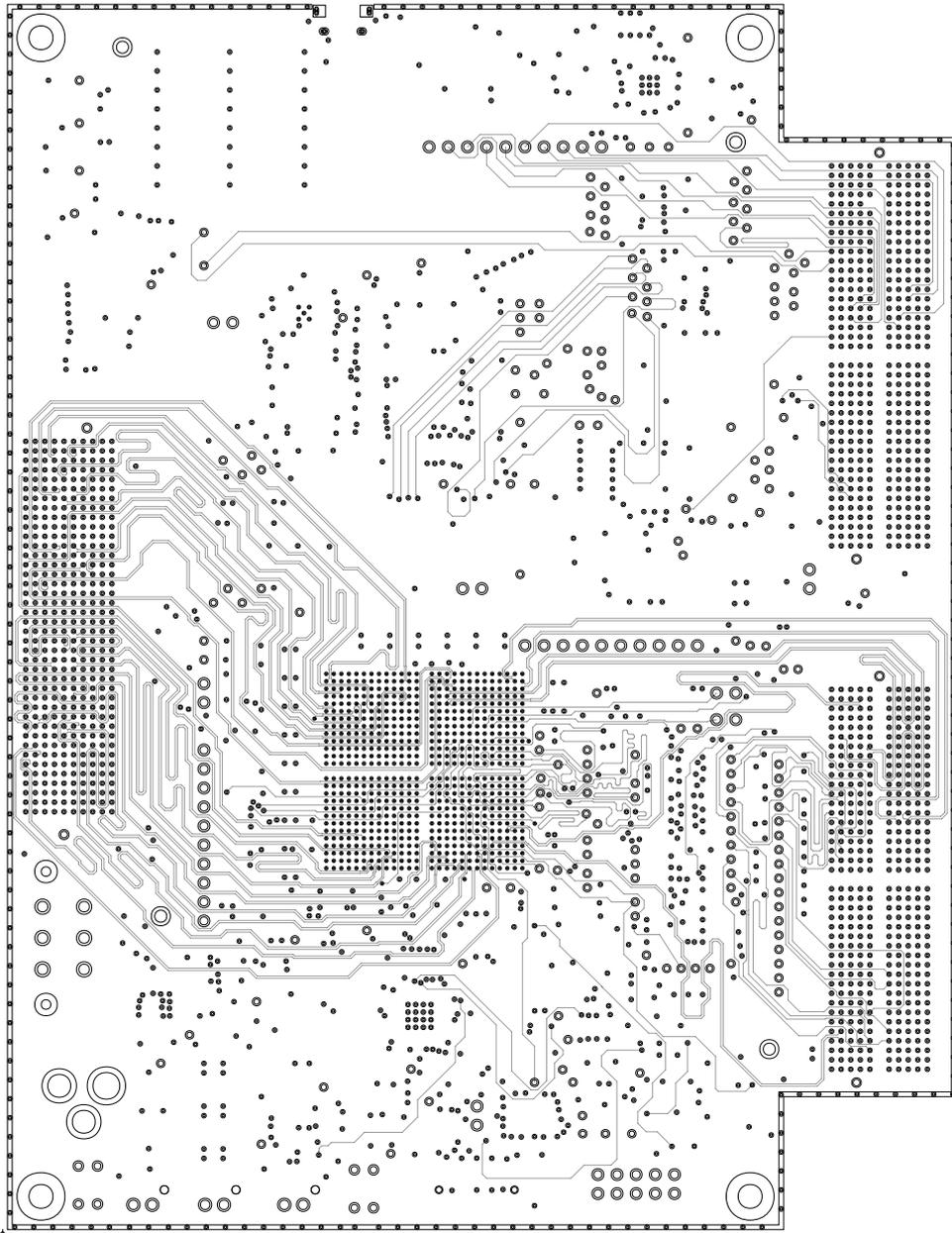
TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION:	LAYER 7 - PWR PLANE
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



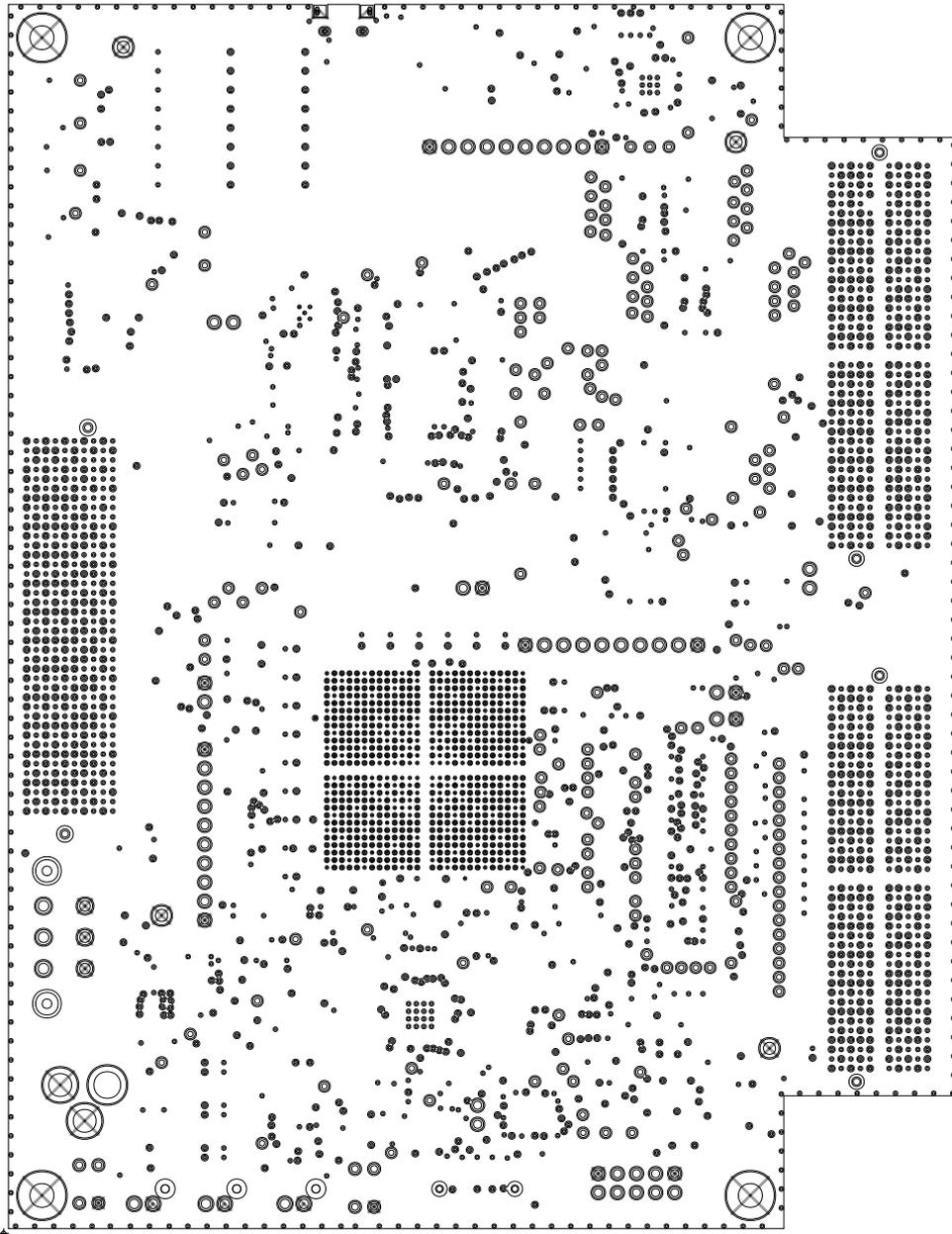
TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: SOLDERMASK - PRIMARY SIDE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 4 - GND PLANE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



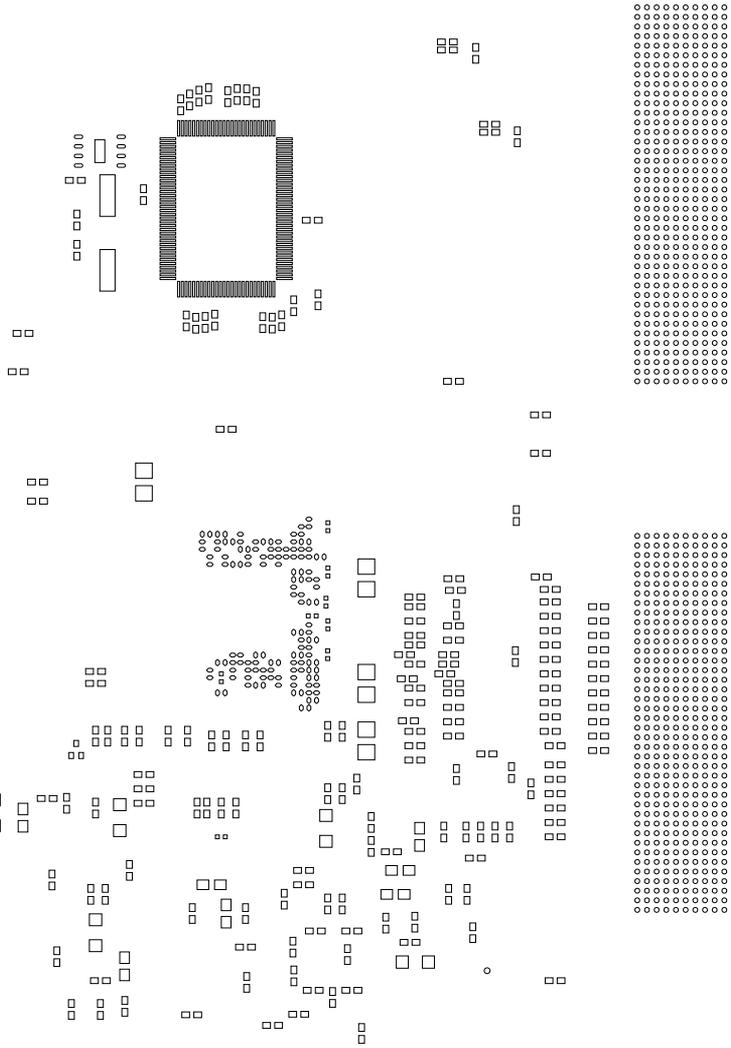
TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 12 - SIGNAL	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 13 - GND PLANE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



o

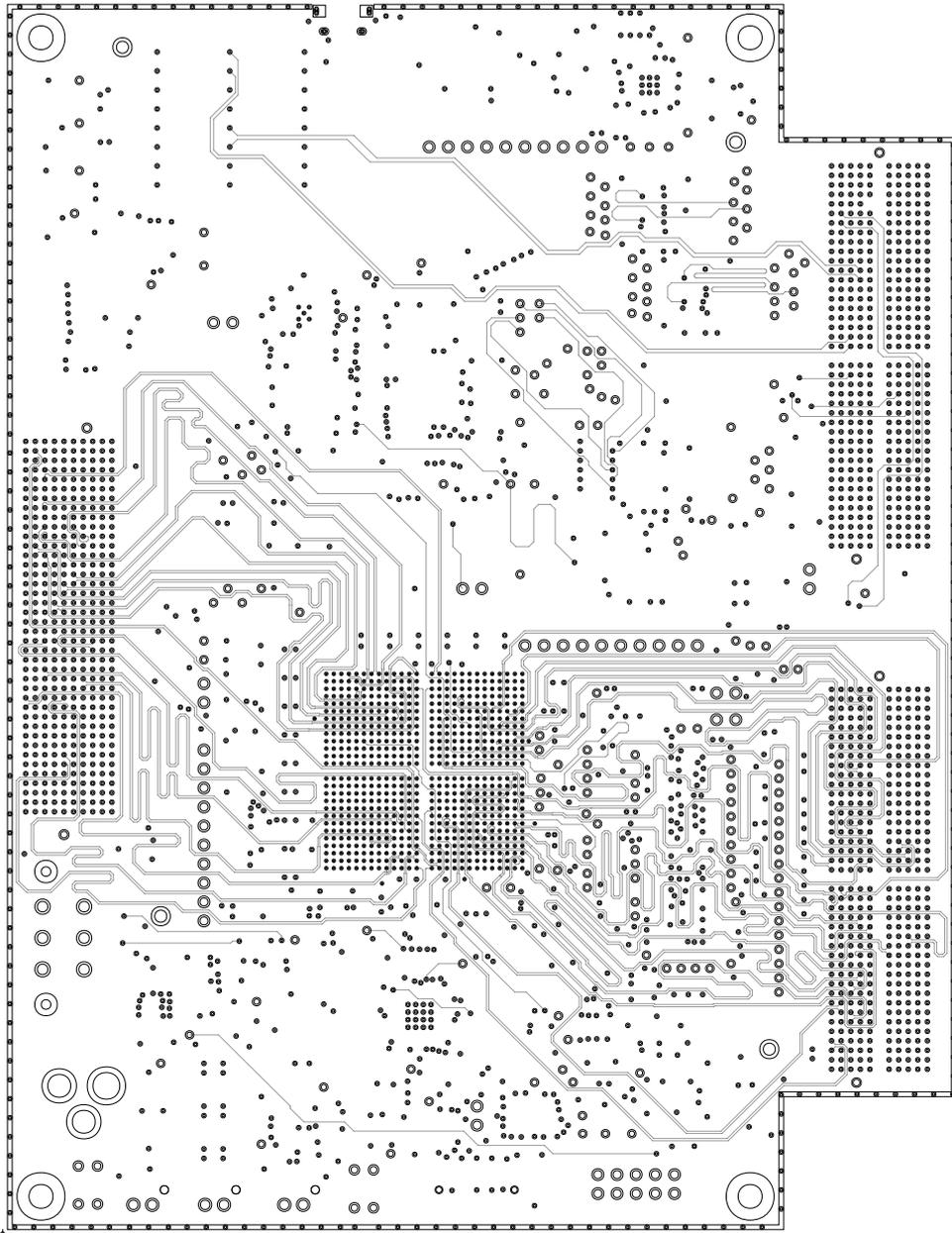


o

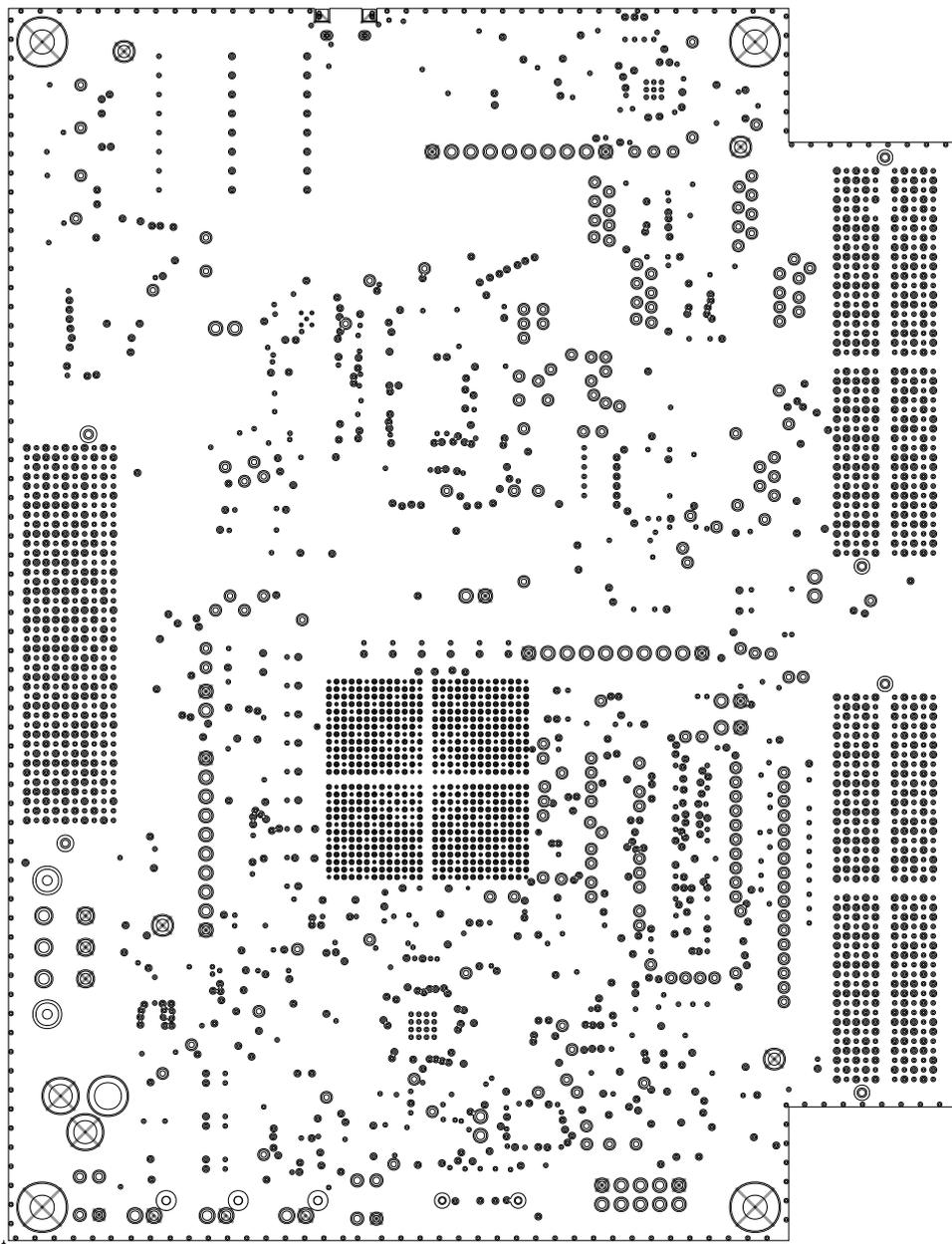
+



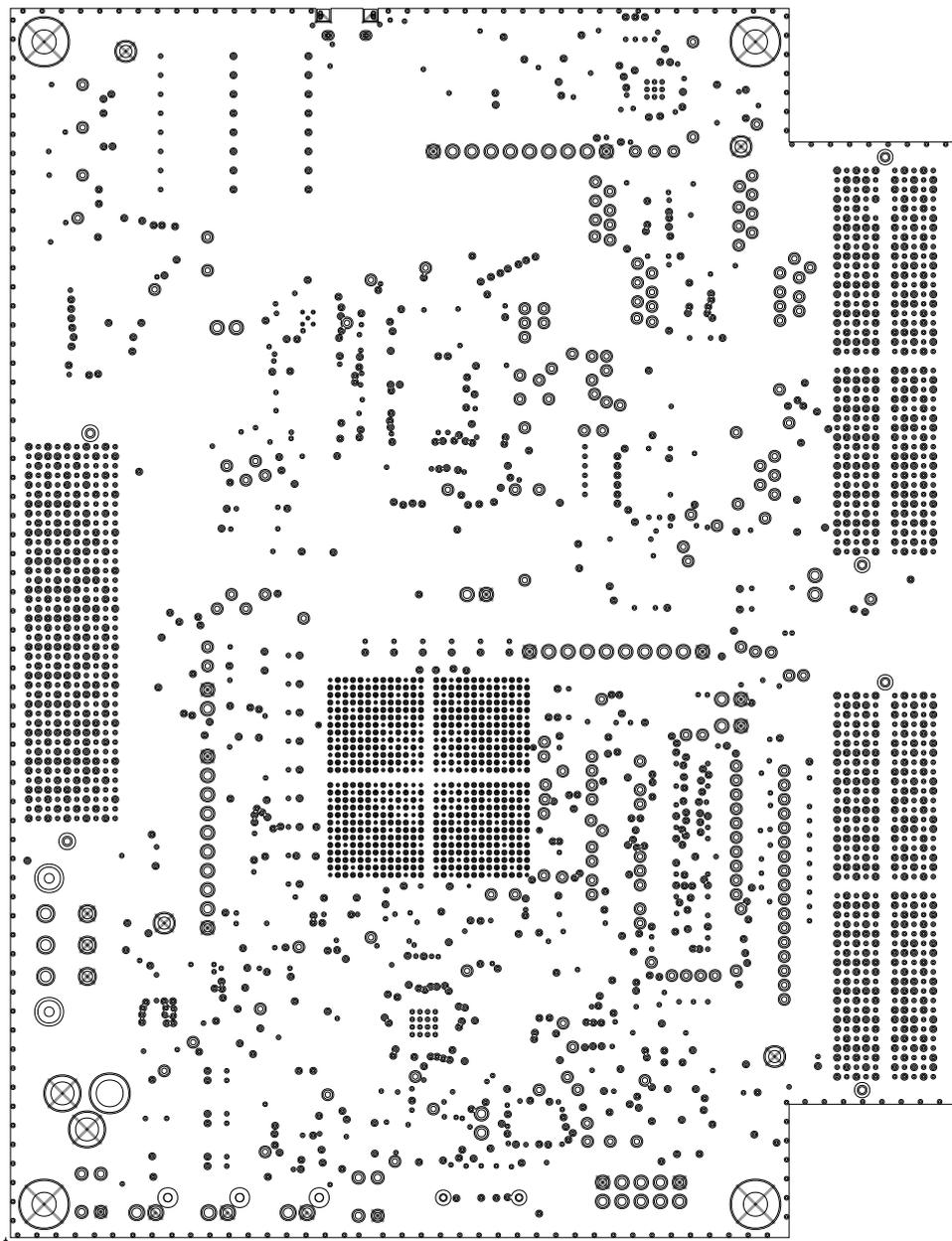
TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: SOLDERPASTE - SECONDARY SIDE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



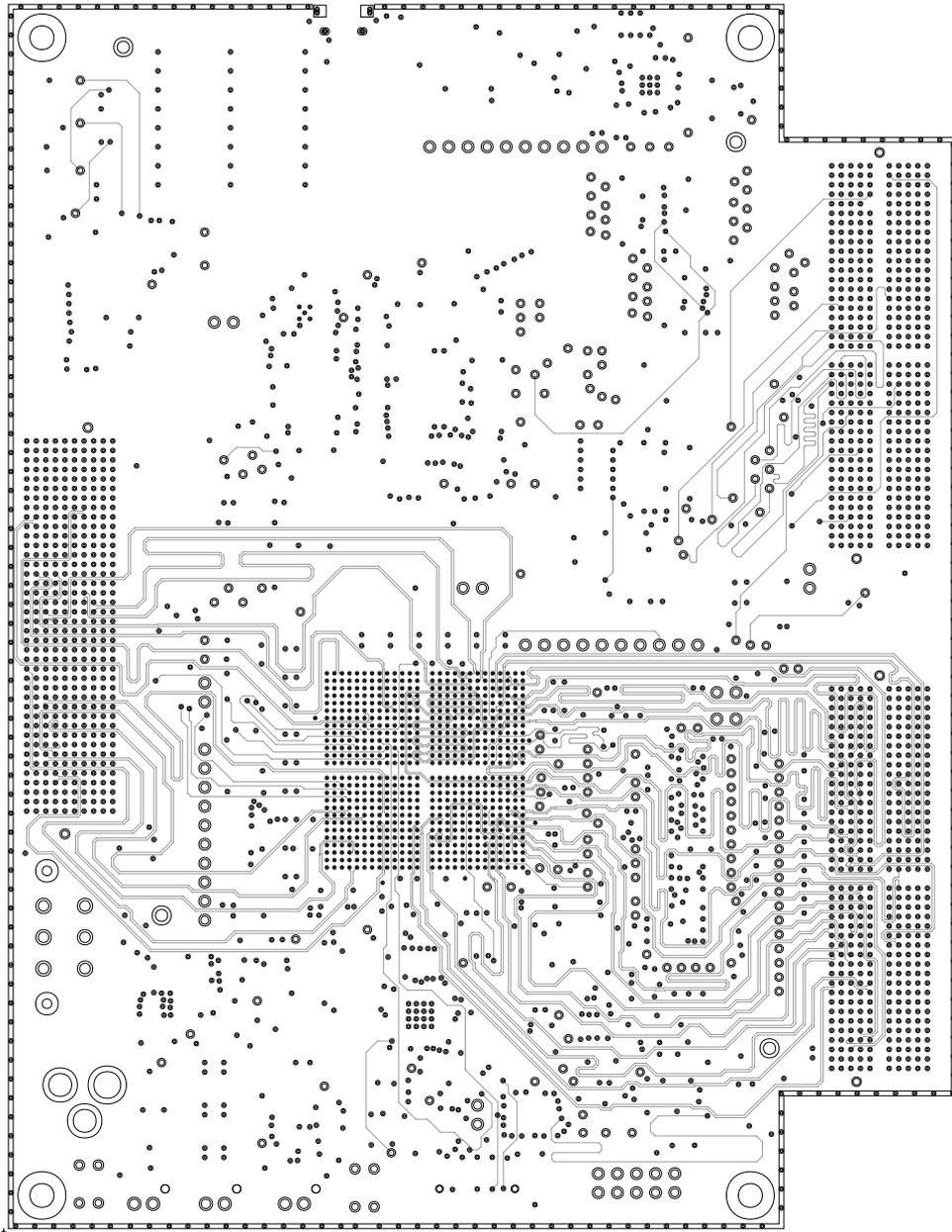
TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 10 - SIGNAL	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 9 - GND PLANE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 6 - GND PLANE	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C



TEXAS INSTRUMENTS		
BOARD NAME:	DESCRIPTION: LAYER 5 - SIGNAL	
PROJECT #: DLP082	DATE: 13 FEB 2023	REVISION: REV C