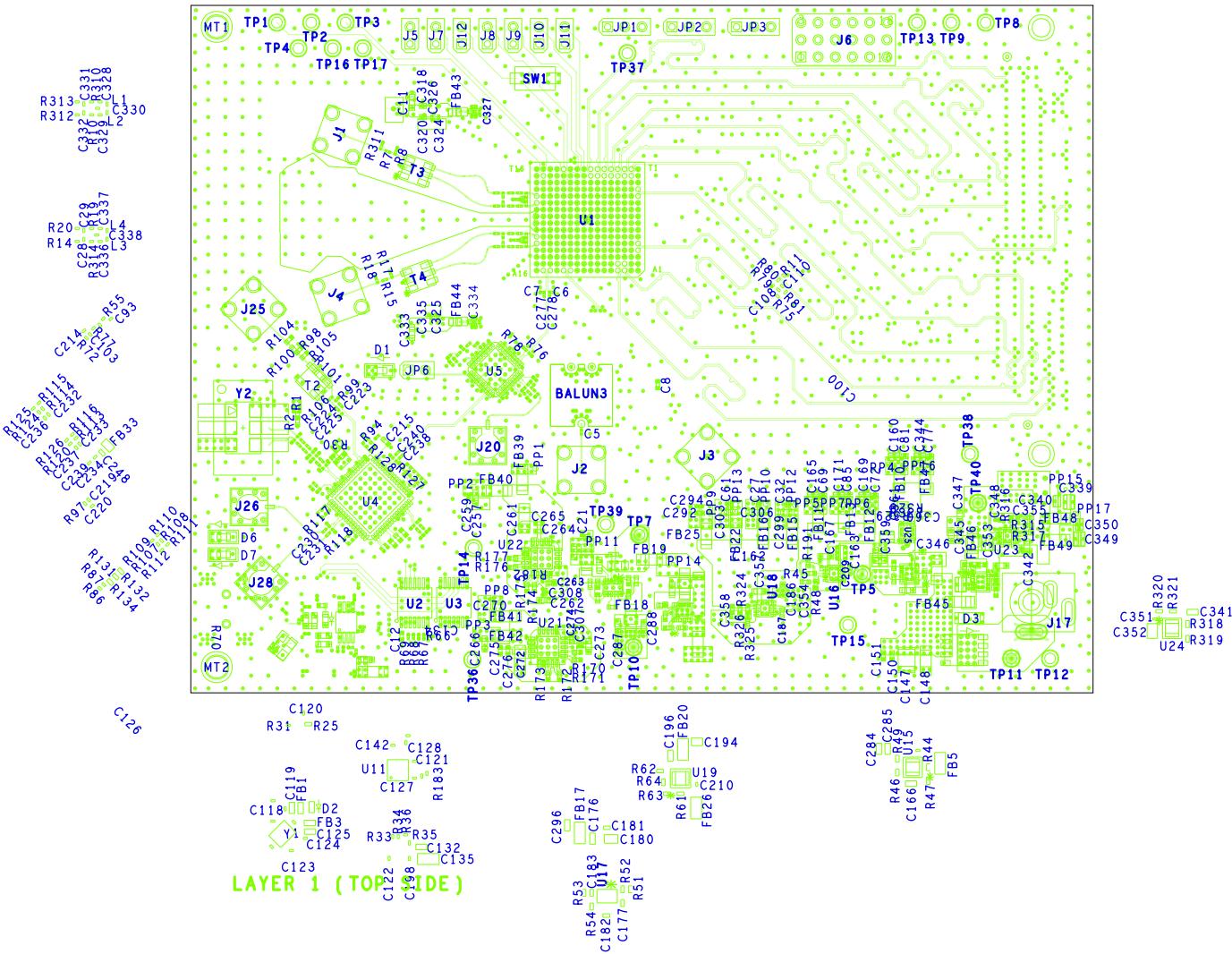
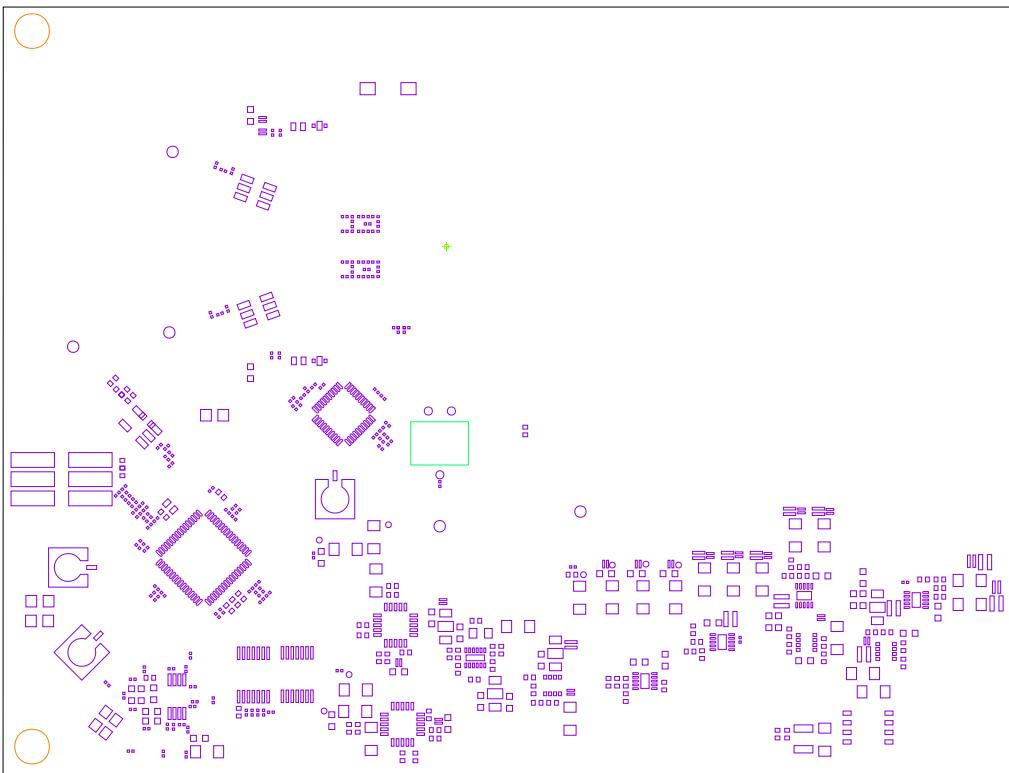


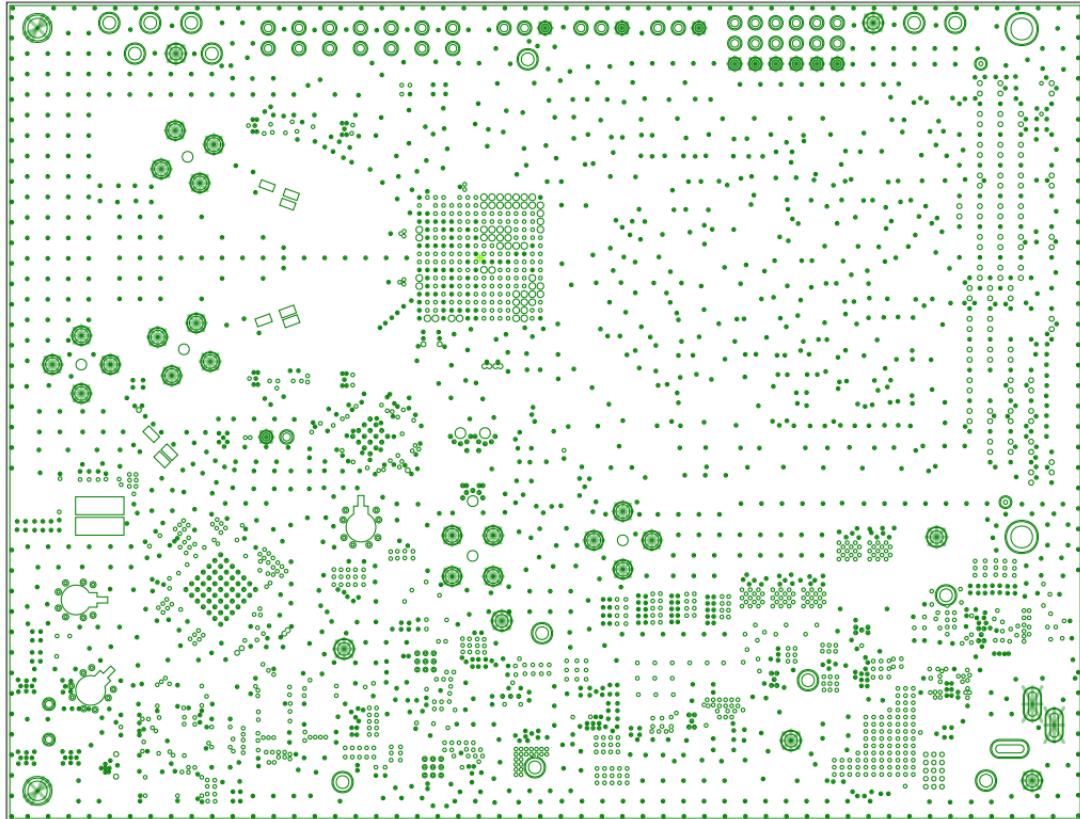
TEXAS INSTRUMENTS
DAC12DL3200EVM REV B

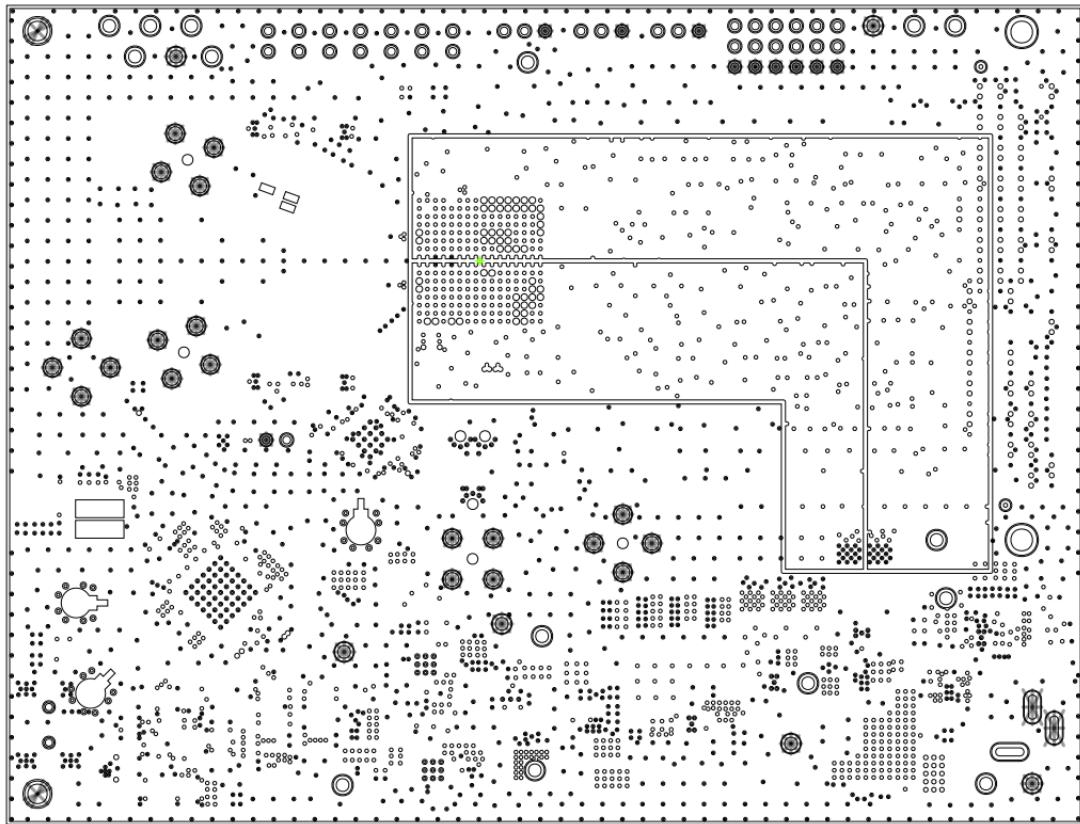
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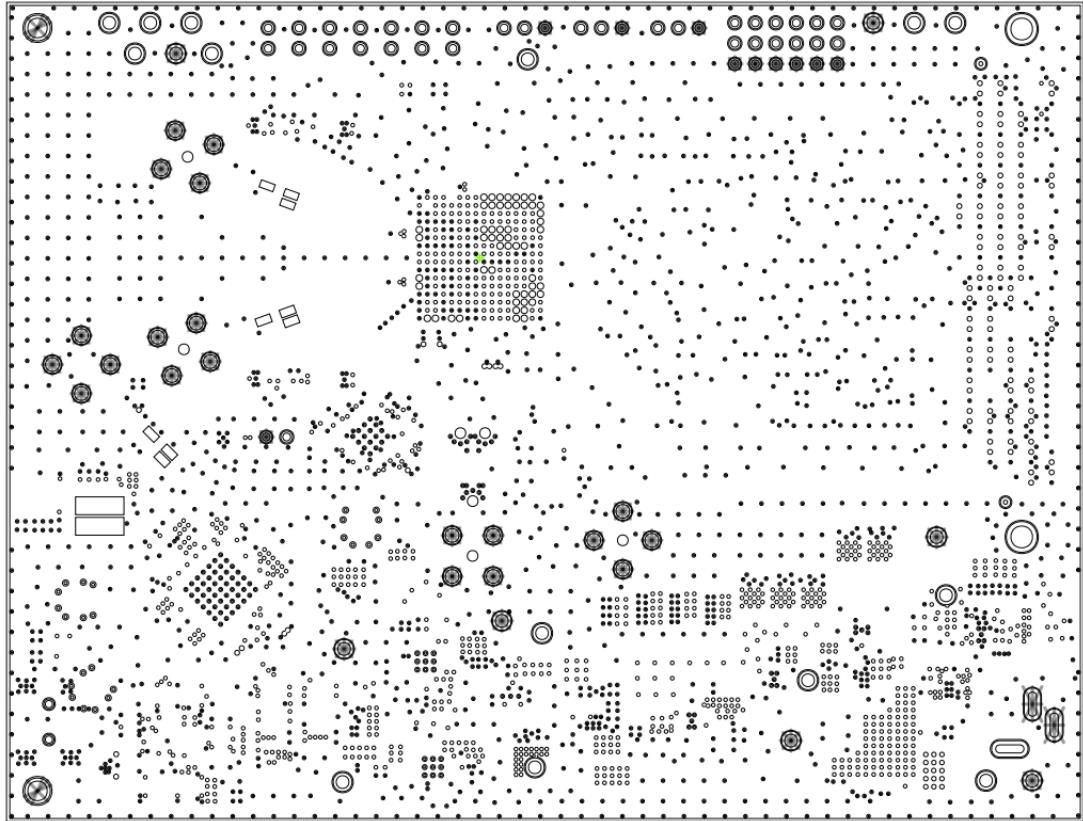


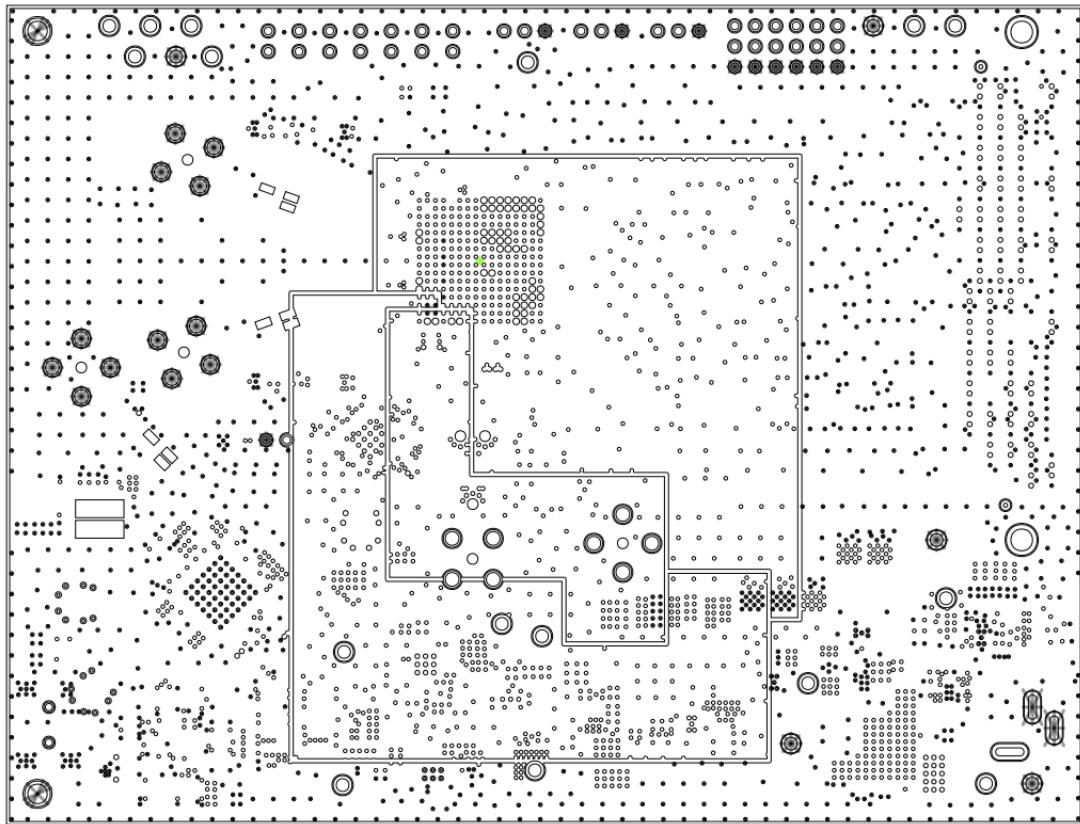


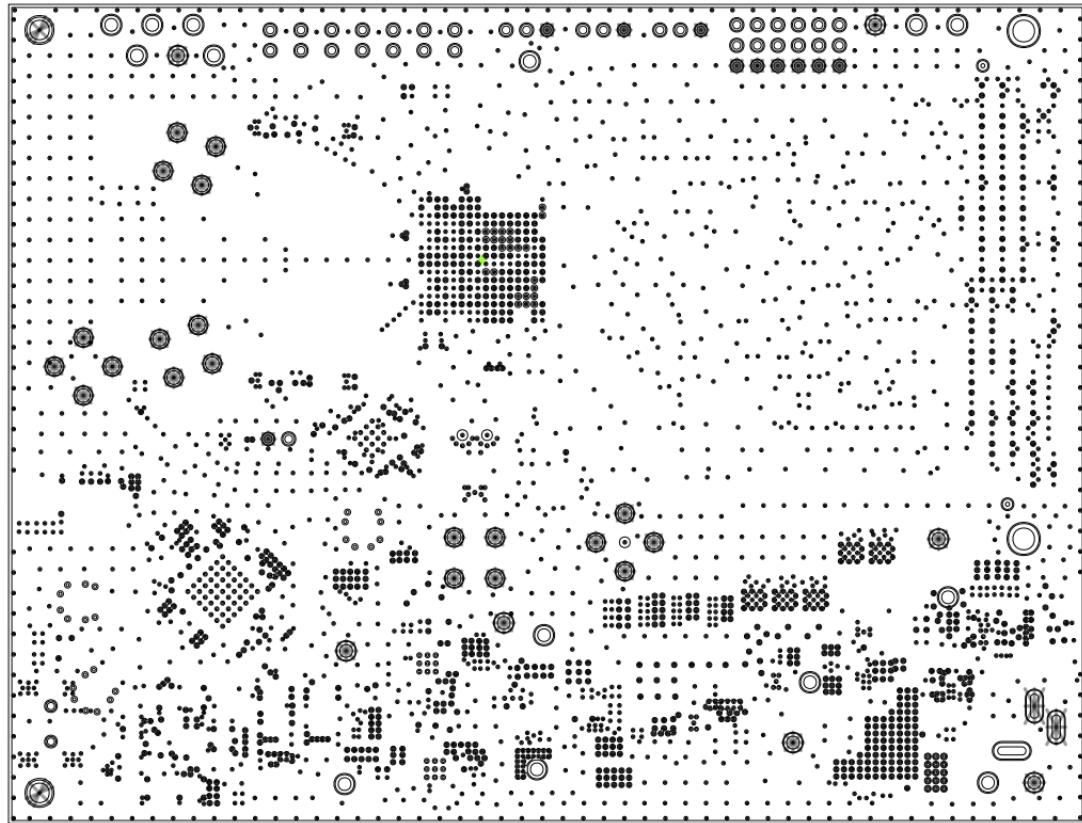
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DAC12DL3200EVM REV B
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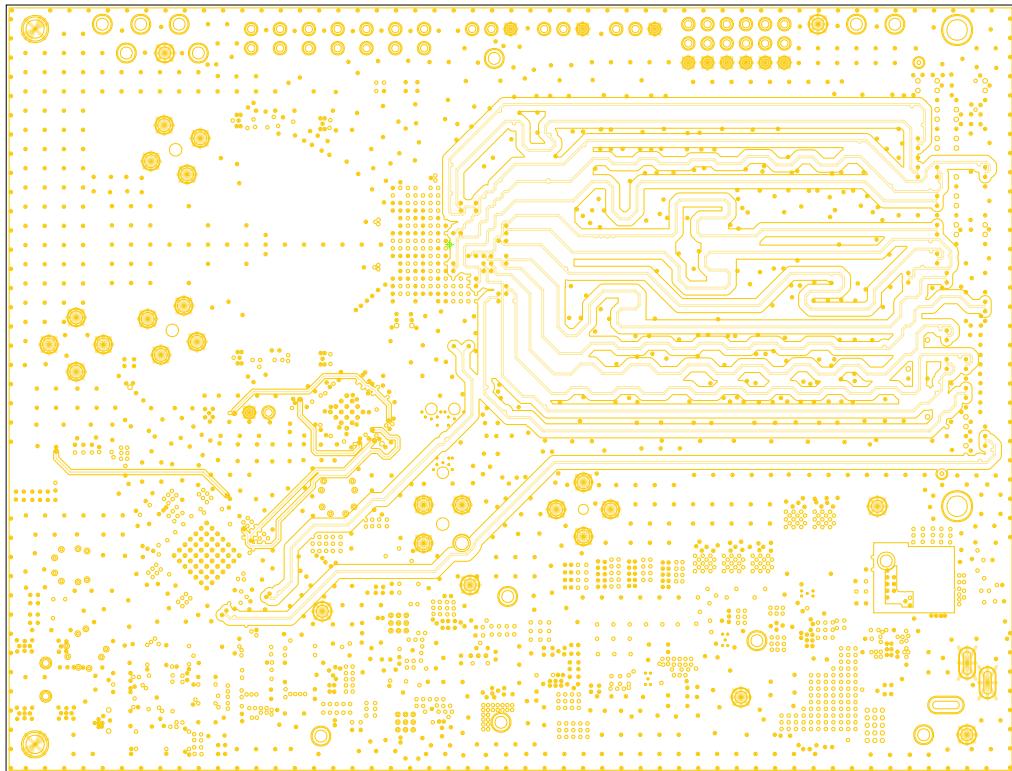




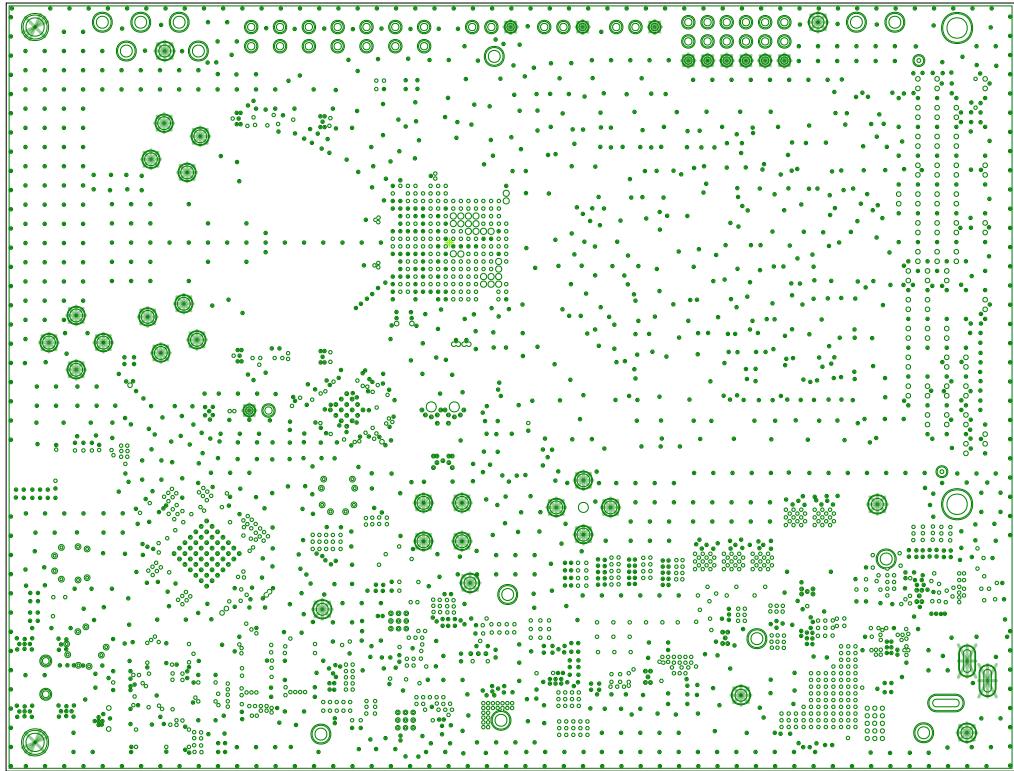




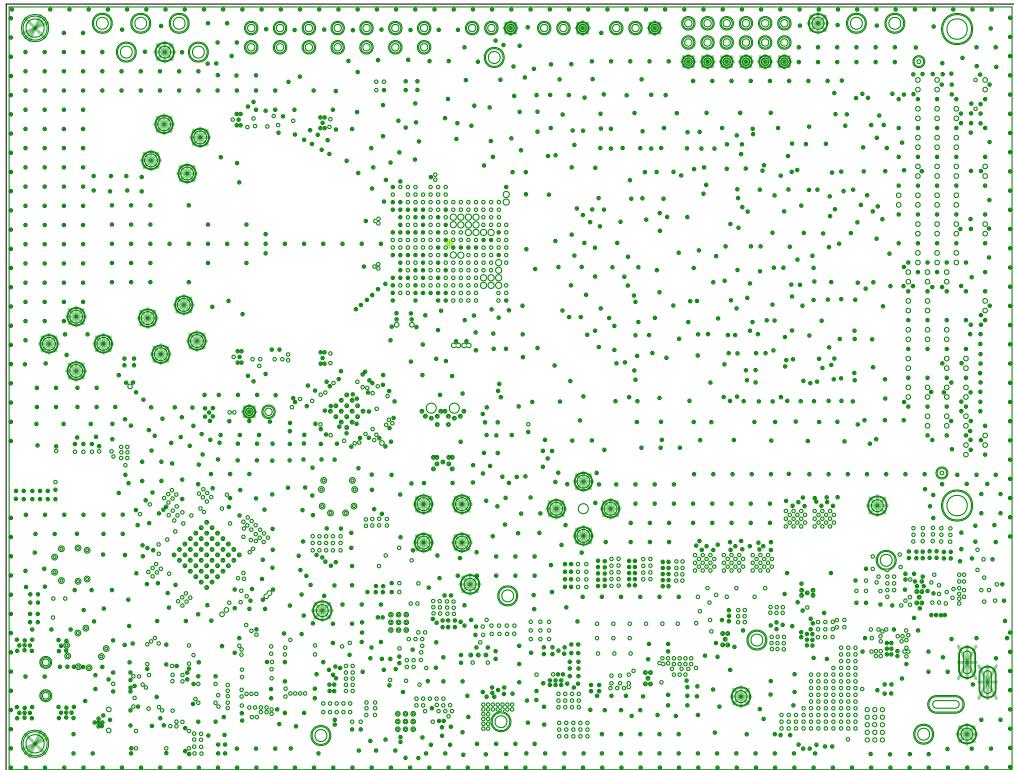




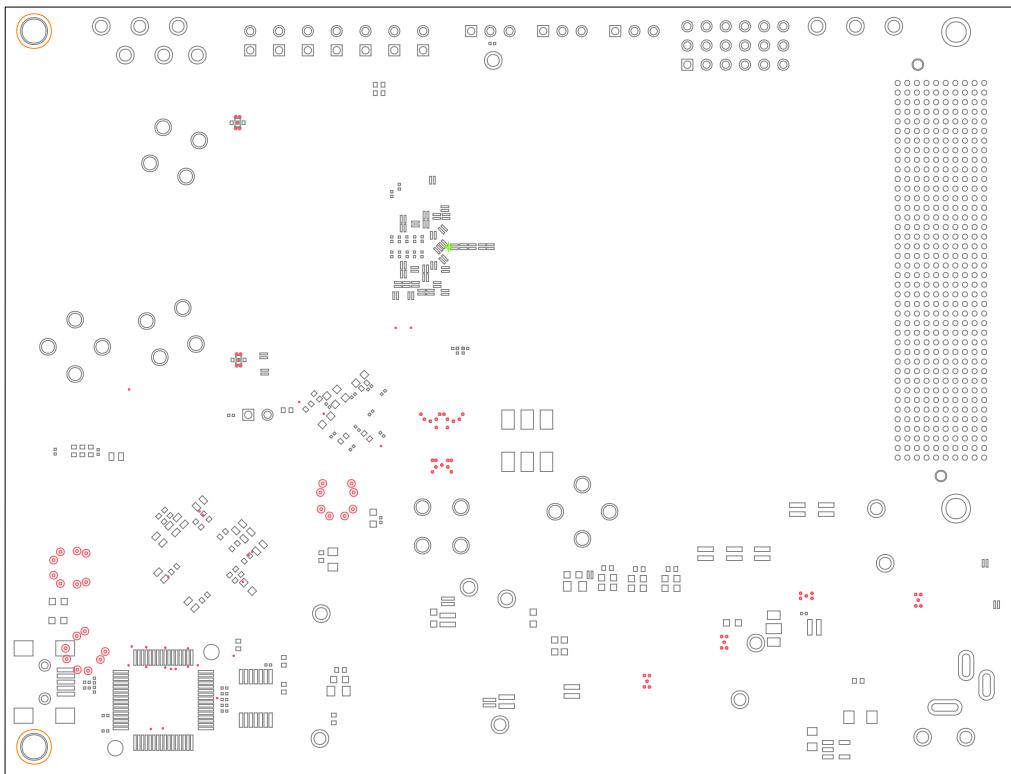
LAYER 3 (SIG 1)



LAYER 5 (GND)

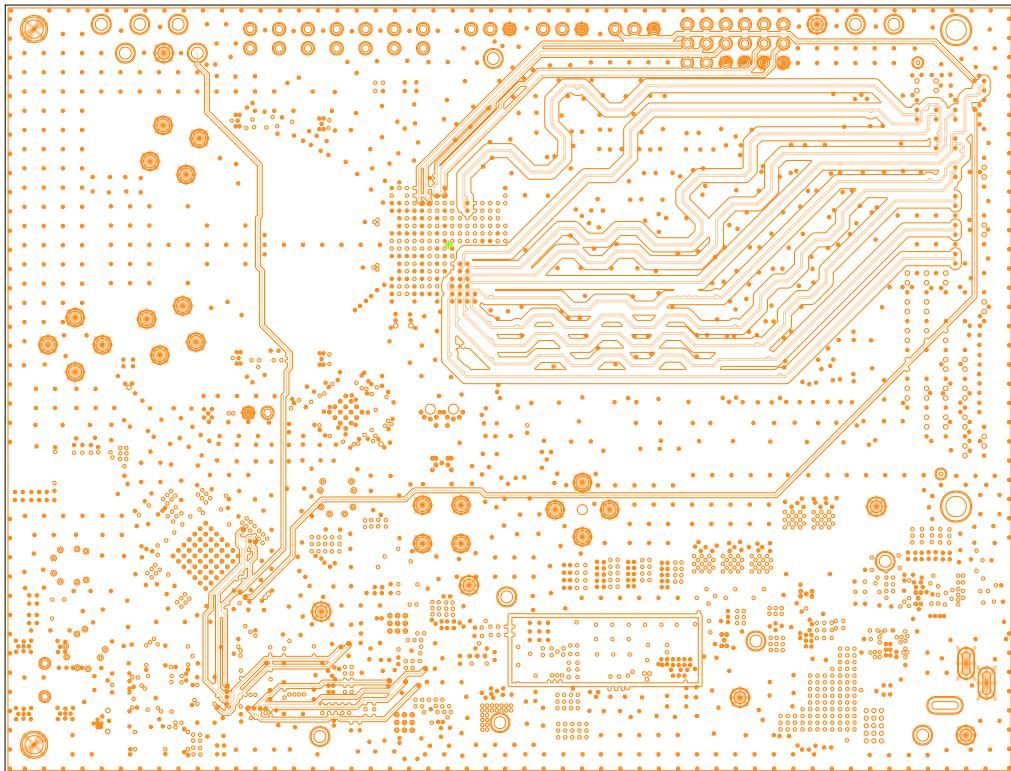


LAYER 7 (GND)

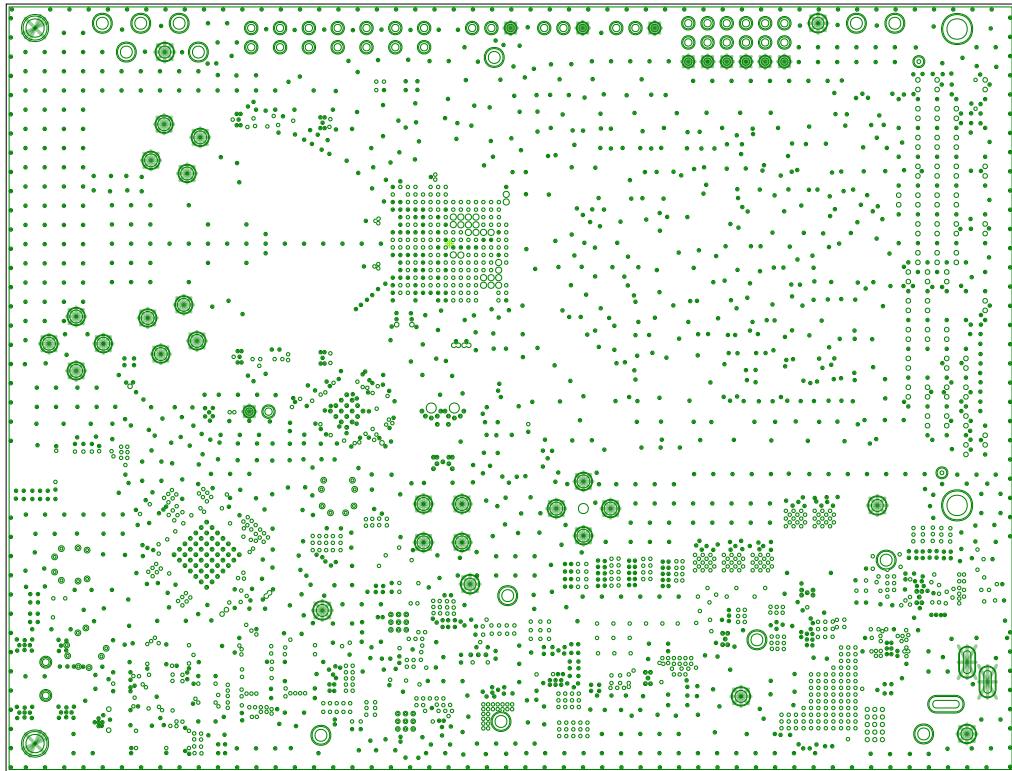


TEXAS INSTRUMENTS
DAC12DL3200EVM REV B

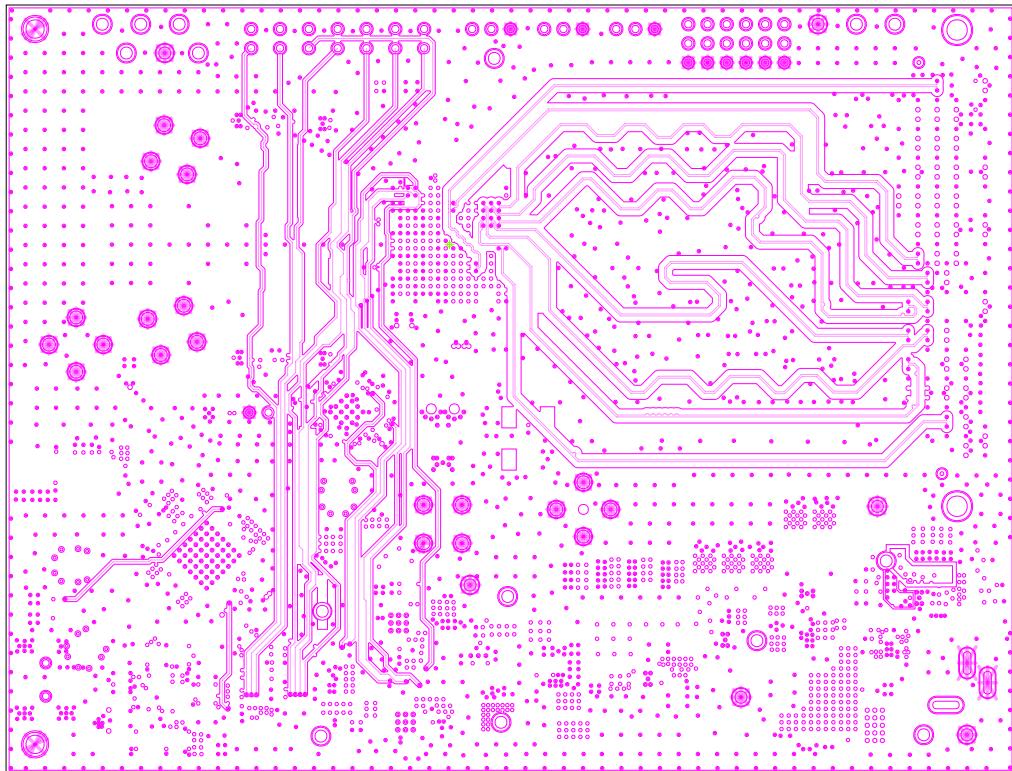
SOLDERMASK BOTTOM



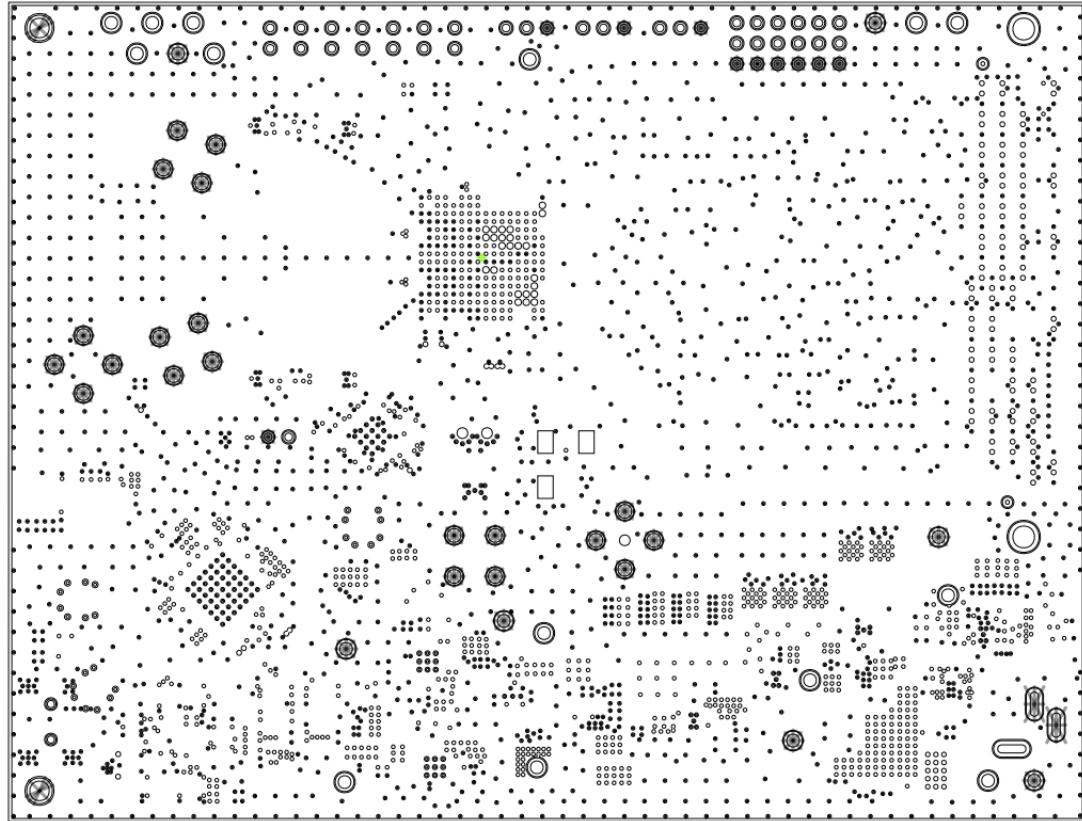
LAYER 10 (SIG 3)

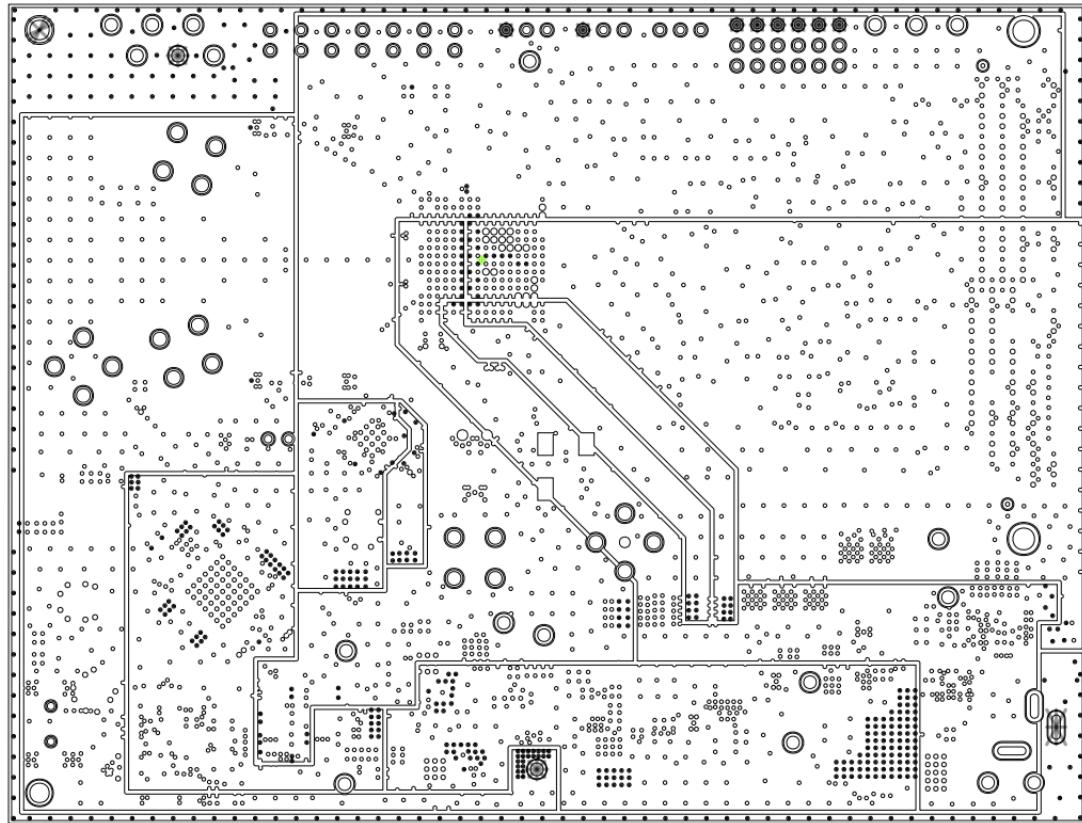


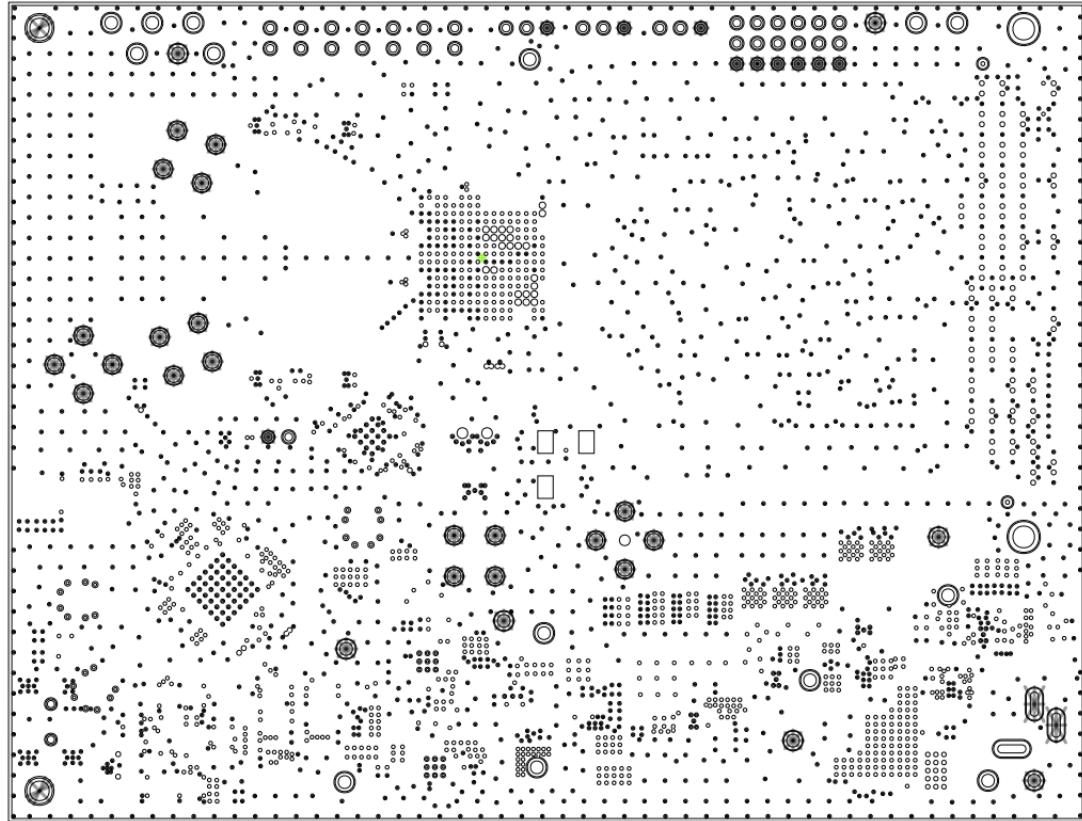
LAYER 11 (GND)



LAYER 12 (SIG 4)







UNLESS OTHERWISE SPECIFIED. ALL NOTES ARE APPLICABLE.

1. APPLICATION DESIGN, MANUFACTURING AND INSPECTION DOCUMENTS.
IPC-2221A & IPC-2222 / DESIGN STANDARD FOR RIGID PRINTED CIRCUIT BOARDS AND RIGID PRINTED BOARD ASSEMBLIES.
IPC-6012 / QUALIFICATION AND PERFORMANCE SPECIFICATION FOR RIGID PRINTED BOARD, CLASS 2, CURRENT REVISION.
IPC-A-600 / ACCEPTABILITY OF PRINTED BOARDS, CLASS 2, CURRENT REVISION.
 2. VIA SIZE APPLY AFTER PLATING. TOLERANCE TO BE +.003/-.010.
HOLE SIZE APPLY AFTER PLATING. TOLERANCE TO BE +/-.003.
 3. REGISTRATION TOLERANCE: ARTWORK +/-.002.
ALL HOLE CENTERS +/-.005 FROM DIMENSION DATUM.
 4. MINIMUM COPPER WALL THICKNESS SHALL BE .001 INCH.
FOR ALL PLATED THROUGH HOLES. BREAKOUT NOT ALLOWED.
 5. PROCESS AND MATERIAL MUST CONFORM TO UL 796. MATERIAL MUST MEET OR EXCEED UL FLAMMABILITY RATING 94V-0.
MATERIAL: 14 MULTI-LAYER; PLEASE USE VENDOR'S STACKUP.
SEE LAYER STACKUP FOR ALL PRE-PREG & CORE THICKNESSES, COPPER OZ AND MATERIAL. FINISHED BOARD THICKNESS: .062 +/-.10%
 6. MANUFACTURE'S UL MARKING, FLAMMABILITY RATING, LOGO AND DATE CODE TO BE PLACED IN SILKSCREEN ON BOTTOM SIDE OF THE BOARD.
 7. GOLD ON GOLD OPTION 3-5 μ IN.
THE SOCKET AREA TO BE HARD PLATED 30-50 μ IN Au OVER A MINIMUM 200 μ IN NICKEL PLATING.
 8. SOLDERMASK BOTH SIDES USING TAIYO (OR EQUIVALENT)
COLOR = RED.
 9. SILKSCREEN BOTH SIDES USING WHITE NPI LEADFREE.
REGISTRATION TOLERANCE TO BE +/-.005.
INK IS NOT ALLOWED ON EXPOSED PLATED AREA.
 10. P.C. BOARD TO BE FREE OF DIRT, OIL, FINGER PRINTS, ETC.
 11. BOARD WARPAGE: WARP AND TWIST SHALL NOT EXCEED .007 INCH PER INCH MEASURED AT ANY LOCATION OR DIRECTION ON THE BOARD.
 12. BOARD MUST BE 100% ELECTRICALLY TESTED TO ENSURE NO SHORTS OR OPEN CIRCUITS AT 20V

13. ALL OUTER LAYERS USING A 11MIL TRACE WIDTH SHALL BE 50 OHMS SINGLE ENDED +/- 10%.
 14. ALL OUTER LAYERS USING A 6MIL TRACE WIDTH AND 5MIL SPACING SHALL BE 100 OHMS DIFFERENTIAL +/- 10%.
 15. ALL INNER LAYERS USING A 3.5MIL TRACE WIDTH AND 6.6MIL SPACING SHALL BE 100 OHMS DIFFERENTIAL +/- 10%.
 16. MINIMUM COPPER CONDUCTOR WIDTH IS: 3.5MIL.
MINIMUM COPPER CONDUCTOR SPACING IS: 4.5MIL.
 17. ALL INNER LAYER UNCONNECTED PADS SHALL BE REMOVED.
 18. PWB MUST BE ROHS COMPLIANT AND SURVIVE LEAD FREE ASSEMBLY,
MAX REFLOW OF 260 DEGREES C (6 PASSES).
 19. ALL THROUGH VIAS TO BE PLUGGED WITH NON-CONDUCTIVE EPOXY MATERIAL.
PLUGGED VIAS TO BE PLATED AFTER PLUGGING TO PRESENT FLAT SURFACE TO DEVICE.
NO POTHOLEs.

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

DRILL CHART: TOP to BOTTOM

ALL UNITS ARE IN MILS

FIGURE	FINISHED_SIZE	ROTATION	PLATED	QTY
.	6.0	-	PLATED	147
.	8.0	-	PLATED	2986
.	10.0	-	PLATED	104
H	12.0	-	PLATED	33
◊	15.0	-	PLATED	24
○	38.0	-	PLATED	43
j	62.0	-	PLATED	21
K	66.93	-	PLATED	20
◇	106.0	-	PLATED	2
Y	125.0	-	PLATED	2
P	35.0	-	NON-PLATED	2
D	50.0	-	NON-PLATED	2
⊕	118.11x39.37	90.000	PLATED	2
⊖	137.8x39.37	0.000	PLATED	1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
+ / - . XX + / - . 01 + / -
 . XXX + / - . 005

MATERIAL

SEE NOTE 5

FINISH

SEE NOTE 7, 8, 9

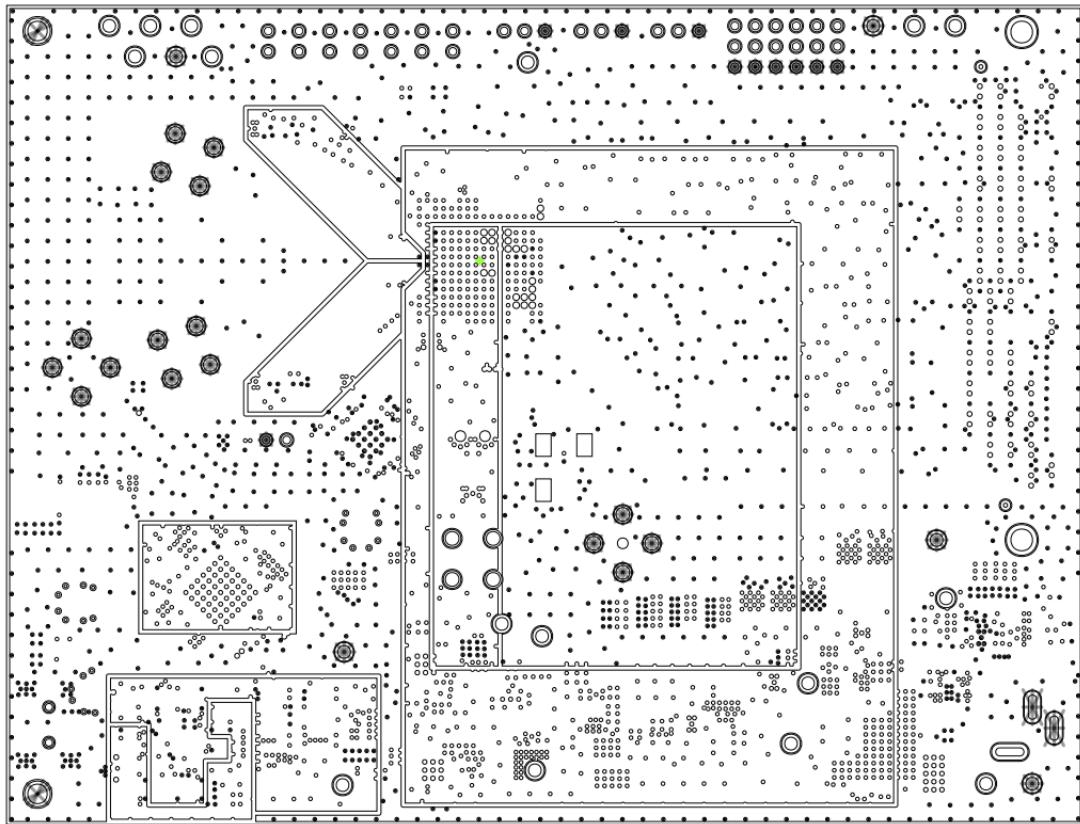
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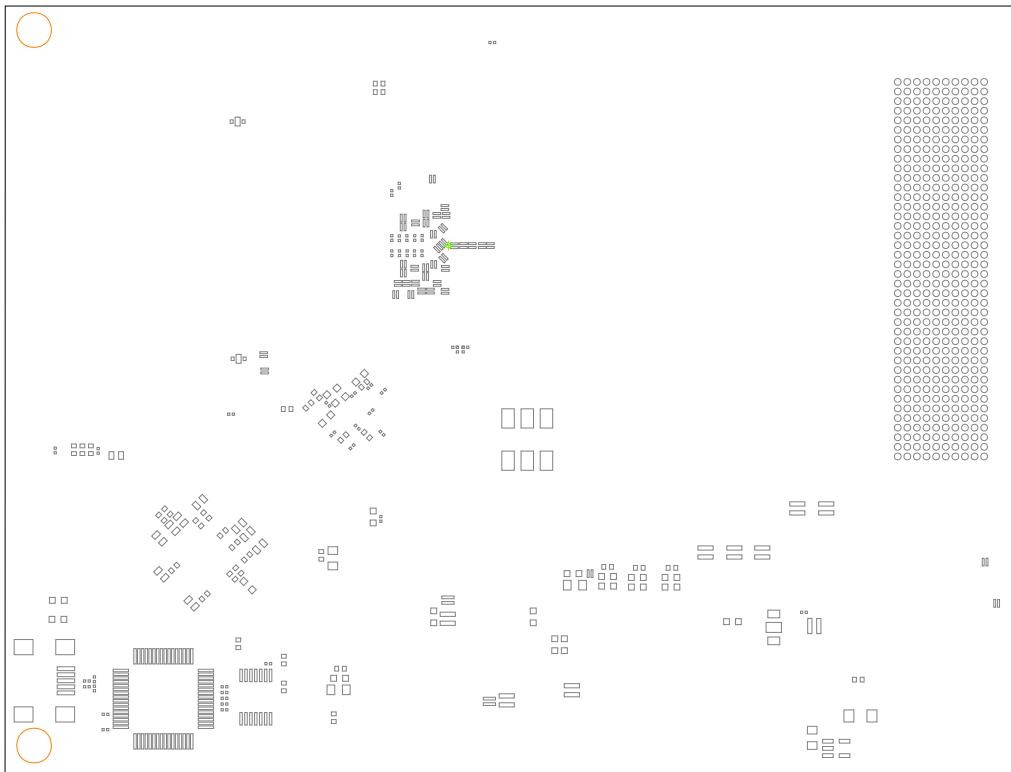
TEXAS INSTRUMENTS INC

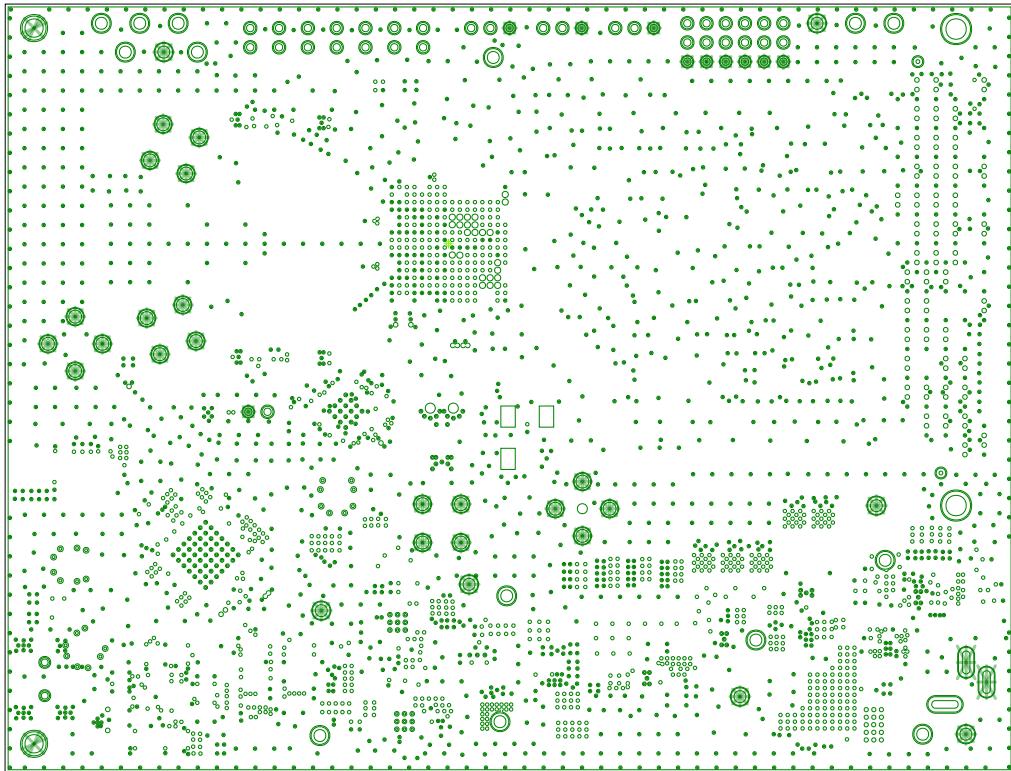
FABRICATION DRAWING

DAC12DI 3200 EVM

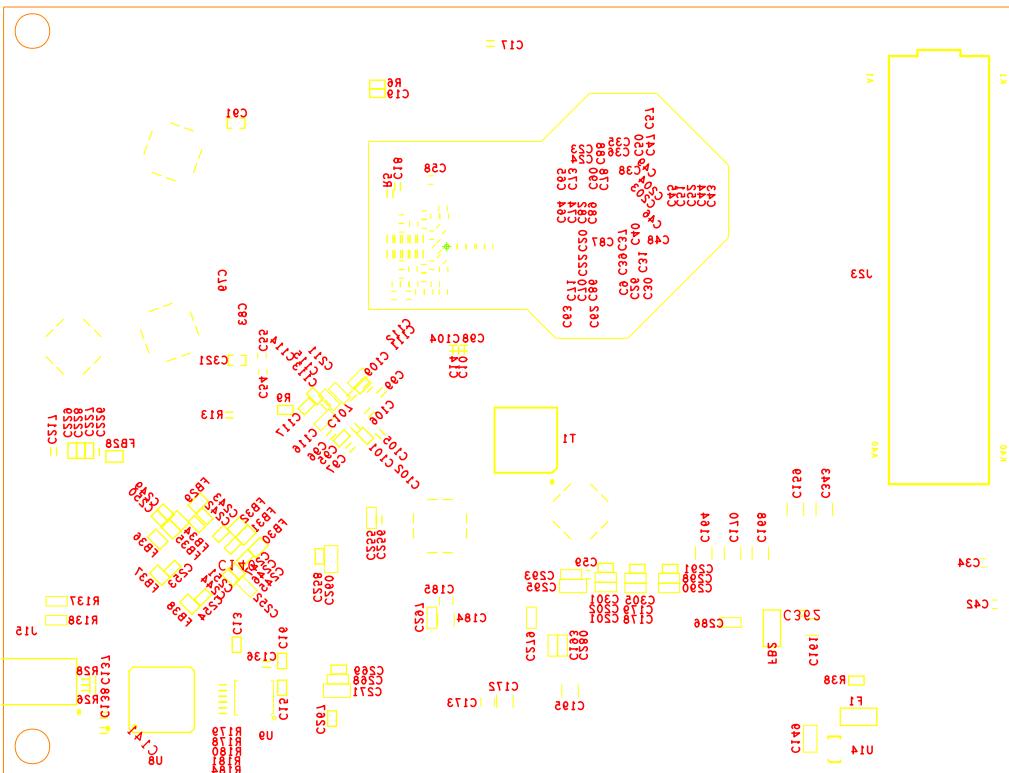
SIZE 	CODE IDENT NO.	DRAWING NO. DC037	REV. C
SCALE NONE		SHEET 1 OF 1	





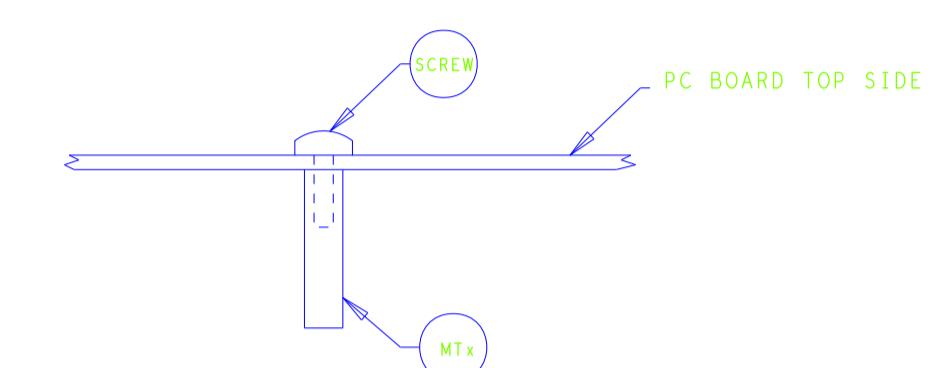
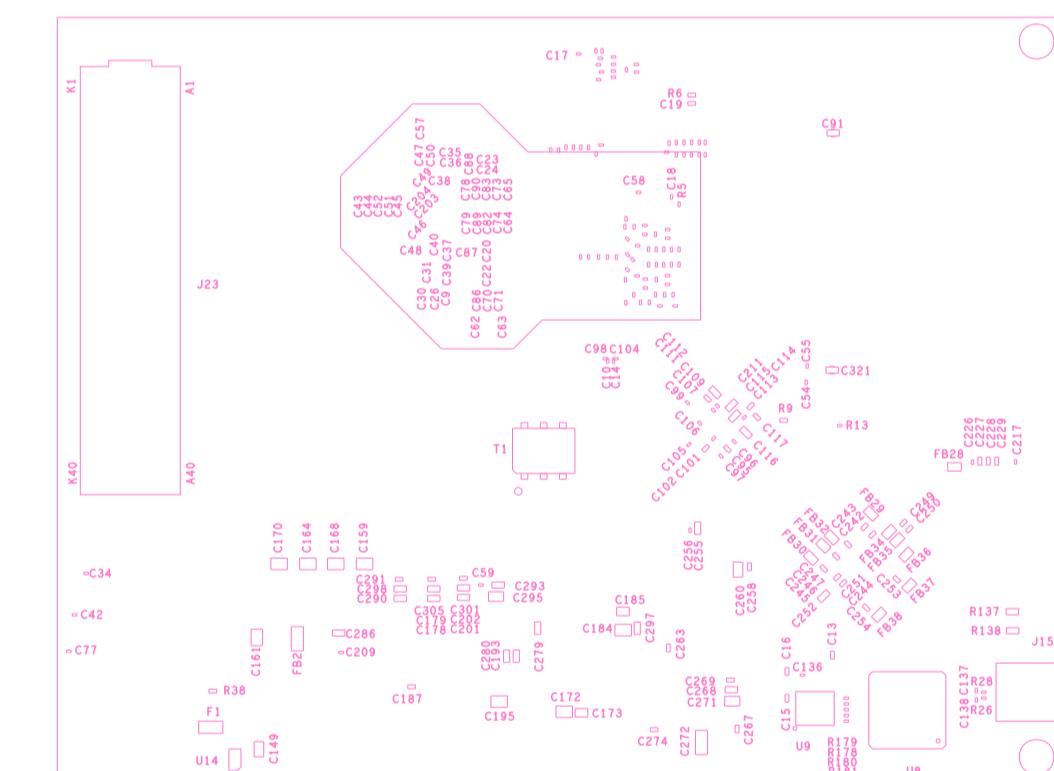
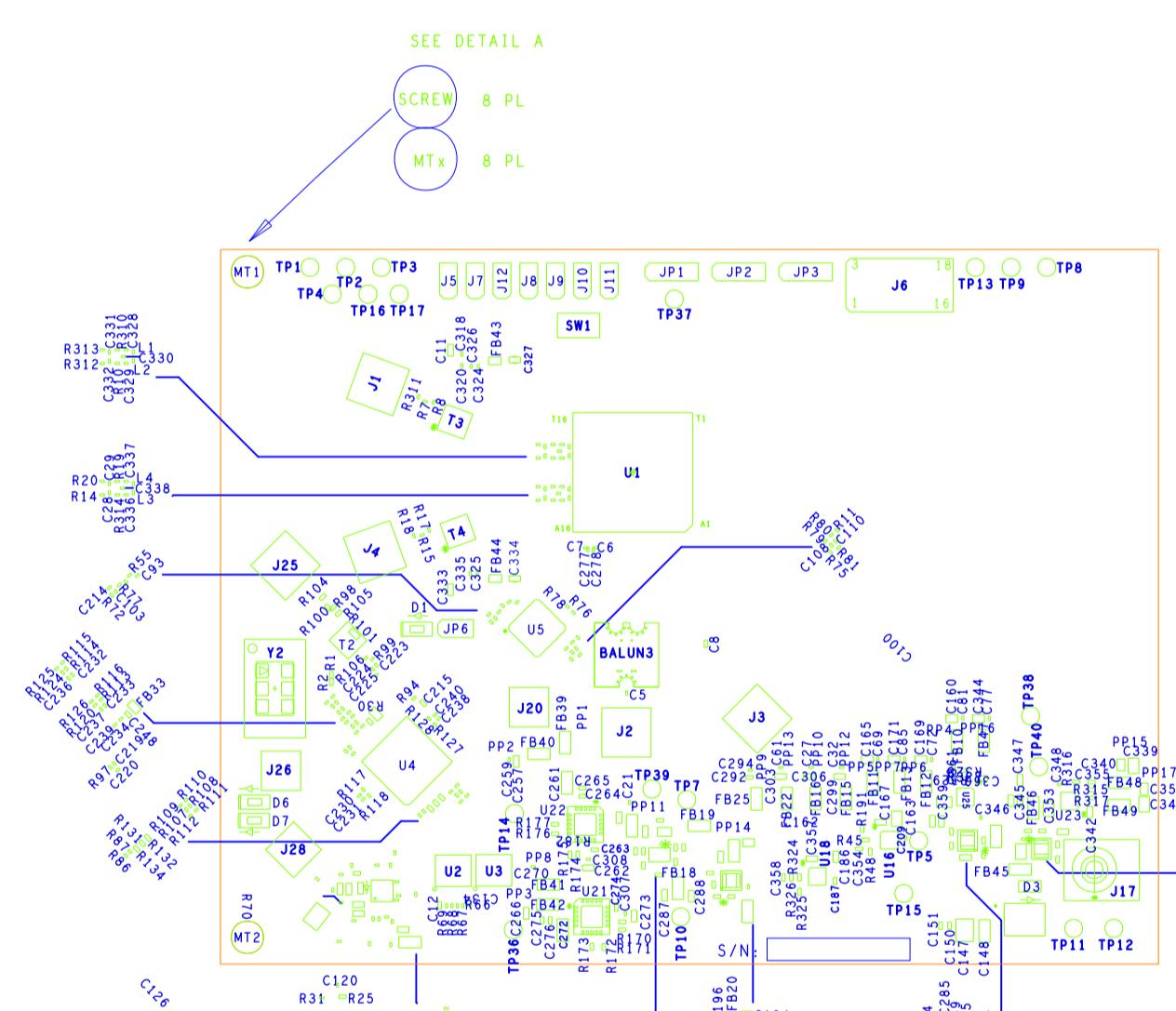


LAYER 13 (GND)



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DAC12DL3200EVM REV B
SILKSCREEN BOTTOM

TEXAS INSTRUMENTS
DAC12DL3200EVM REV B



DETAIL A (SIDE VIEW) - NO SCALE
INSTALL SPACERS (YY) AND SCREWS (XX) AS SHOWN.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
+ / - . XX + / - . 01 + / -
 . XXX + / - . 005

MATERIAL

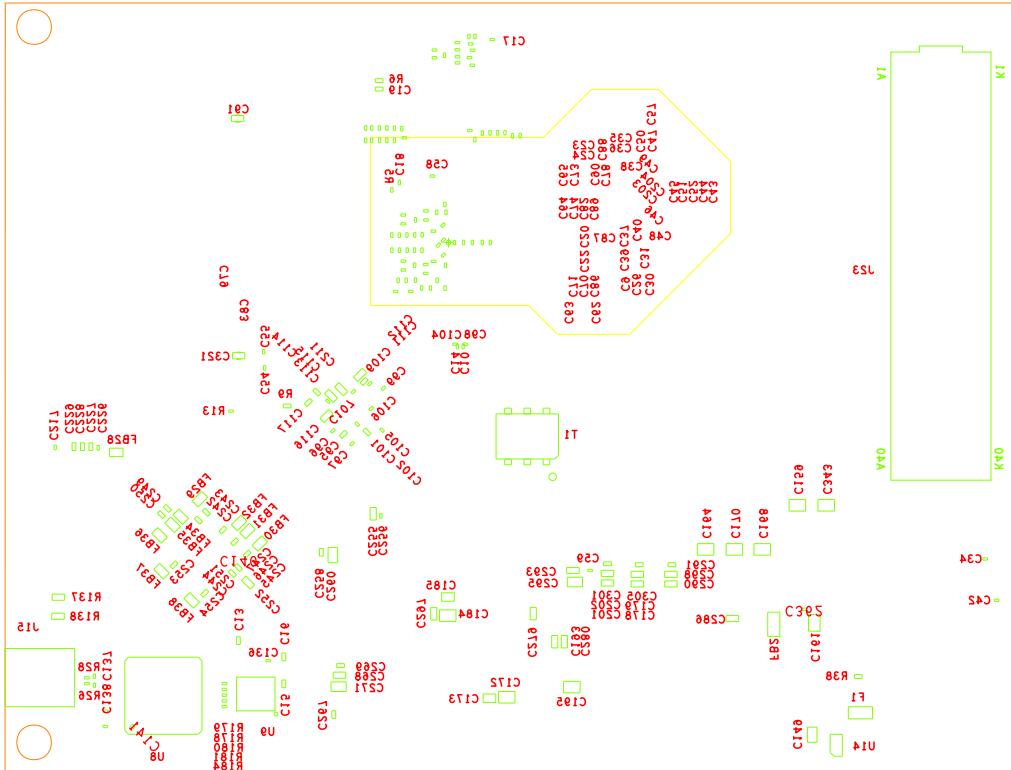
FINISH

DO NOT SCALE DRAWING

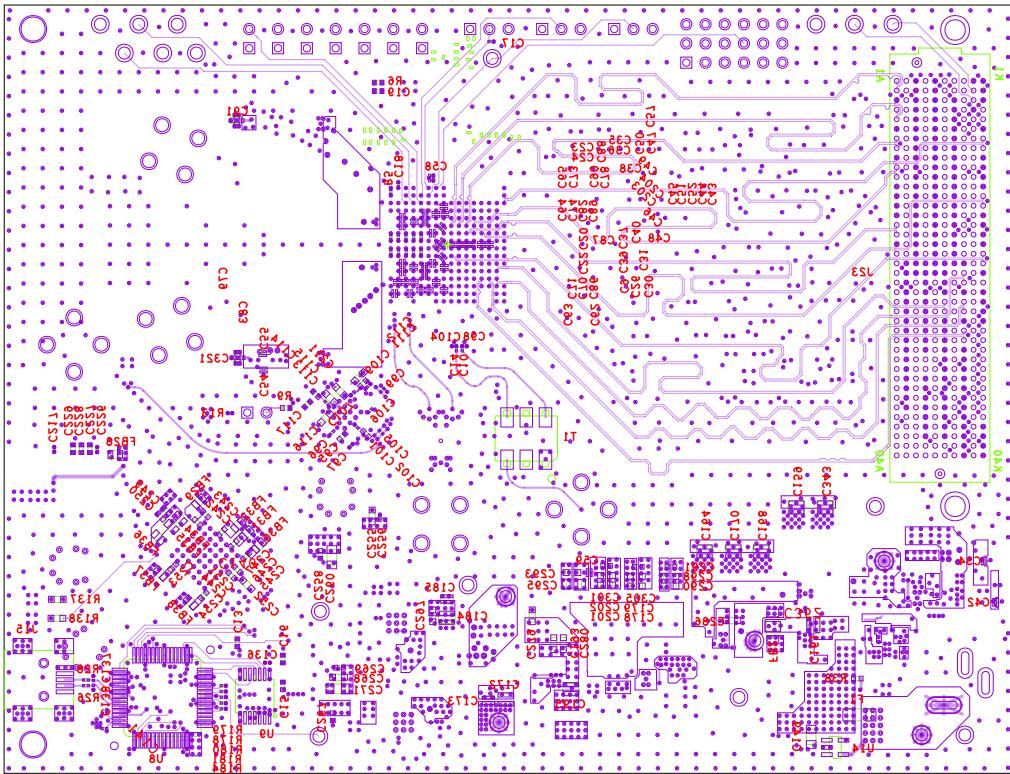
TEXAS INSTRUMENTS INC.

ASSEMBLY DRAWING

DAC12DL3200 EVM



TEXAS INSTRUMENTS
DAC12DL3200EVM REV B
SILKSCREEN BOTTOM



LAYER 14 (BOTTOM SIDE)