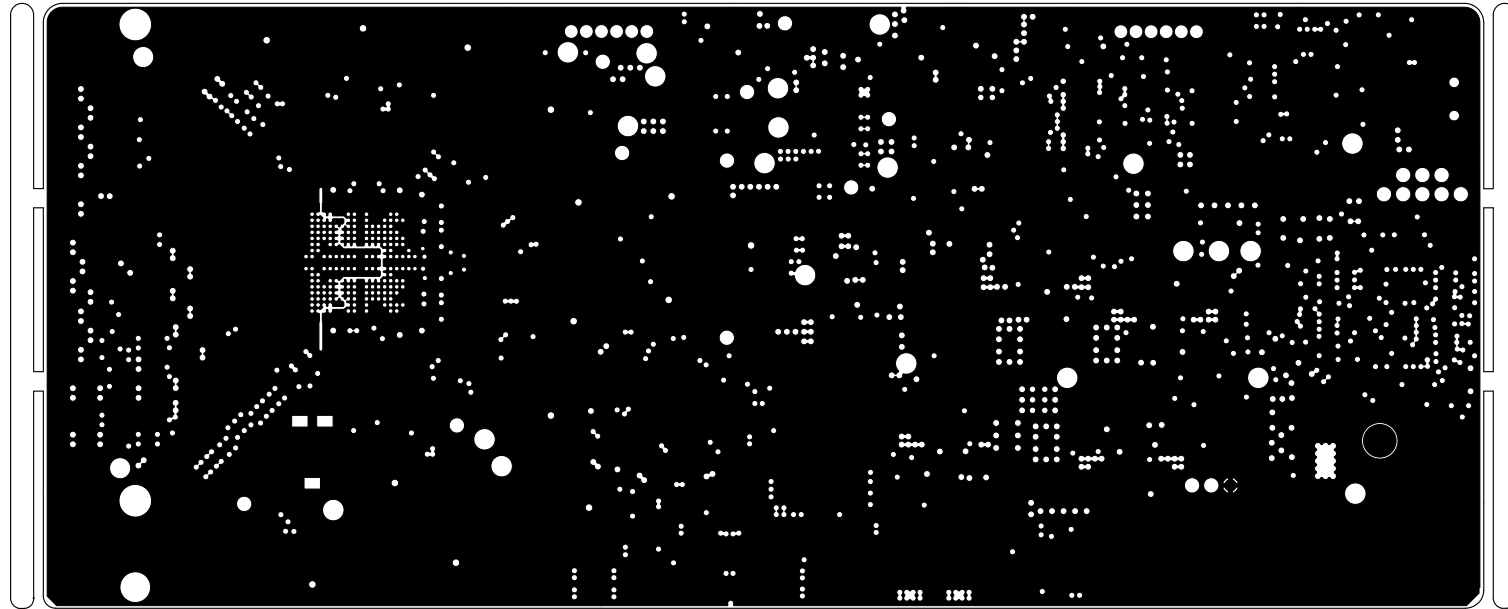
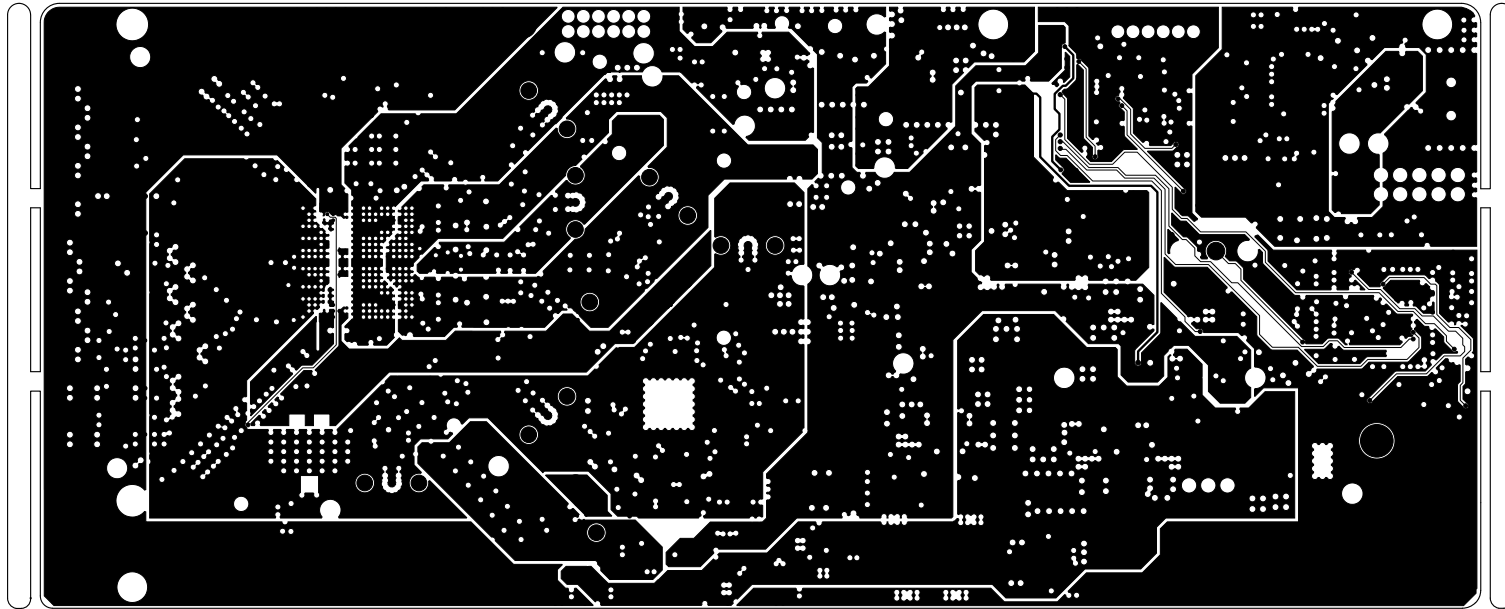


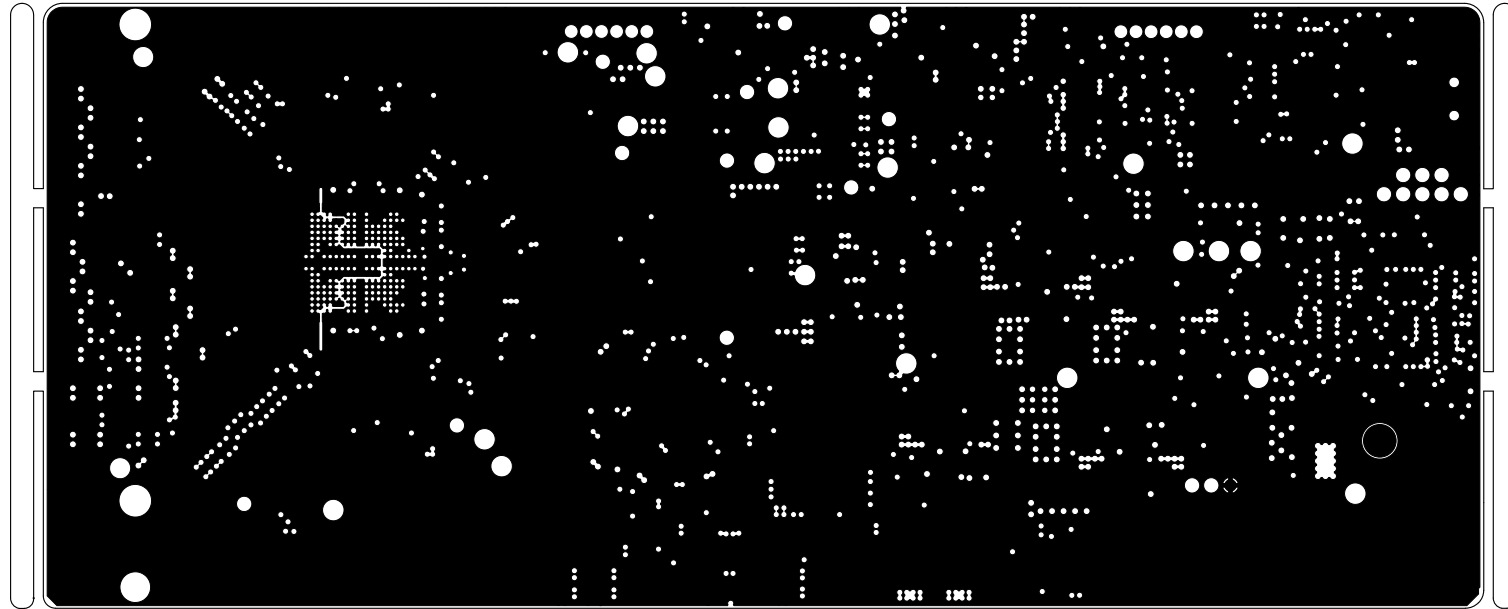
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AMPS151A\_AFE79-TRF12-EVM  
REV 1P0  
AMPS151A  
TOP LAYER  
SHEET 01 OF 20  
18-JULY-2022



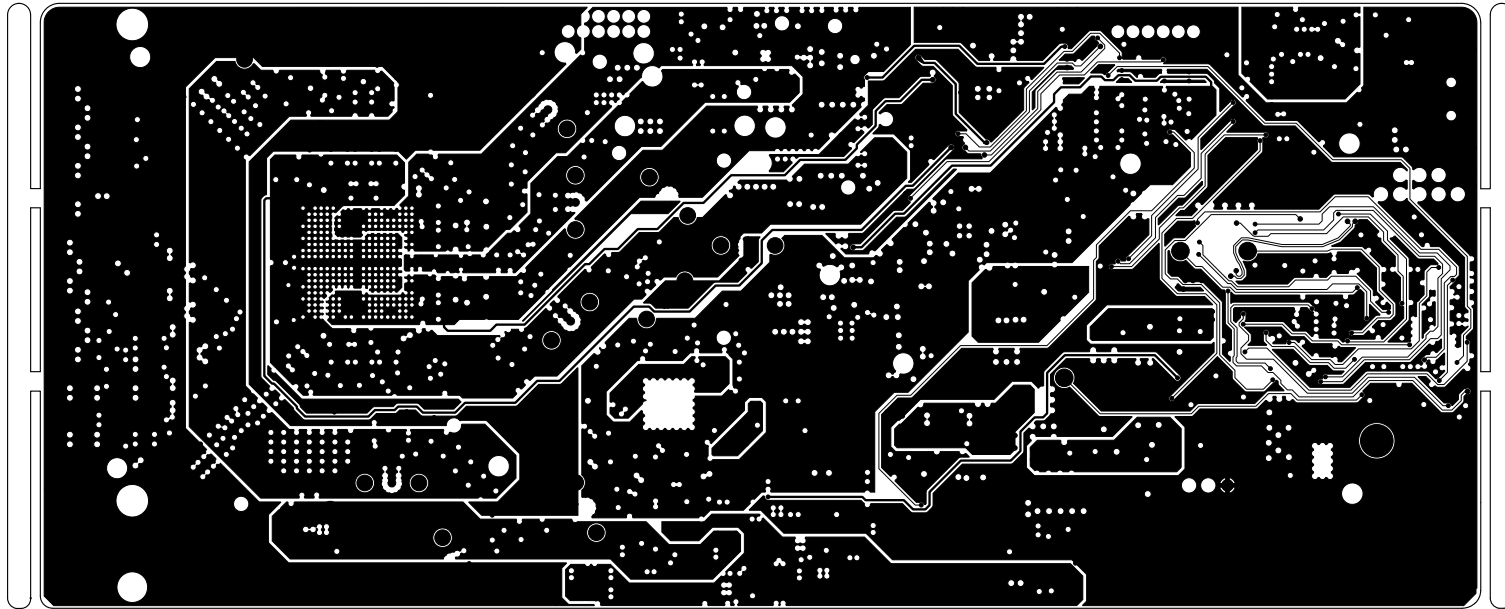
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AMPS151A  
LAYER-2-GND1  
SHEET 02 OF 20  
18-JULY-2022



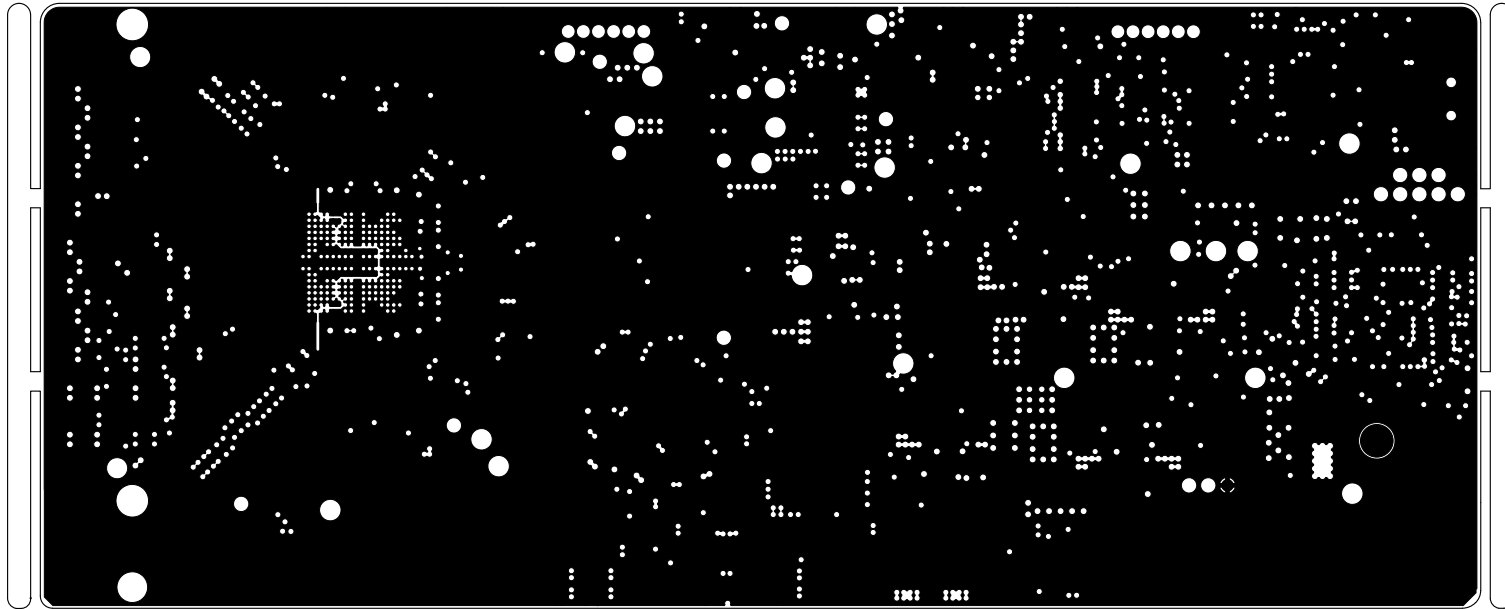
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AMPS151A  
LAYER-3-PWR1  
SHEET 03 OF 20  
18-JULY-2022



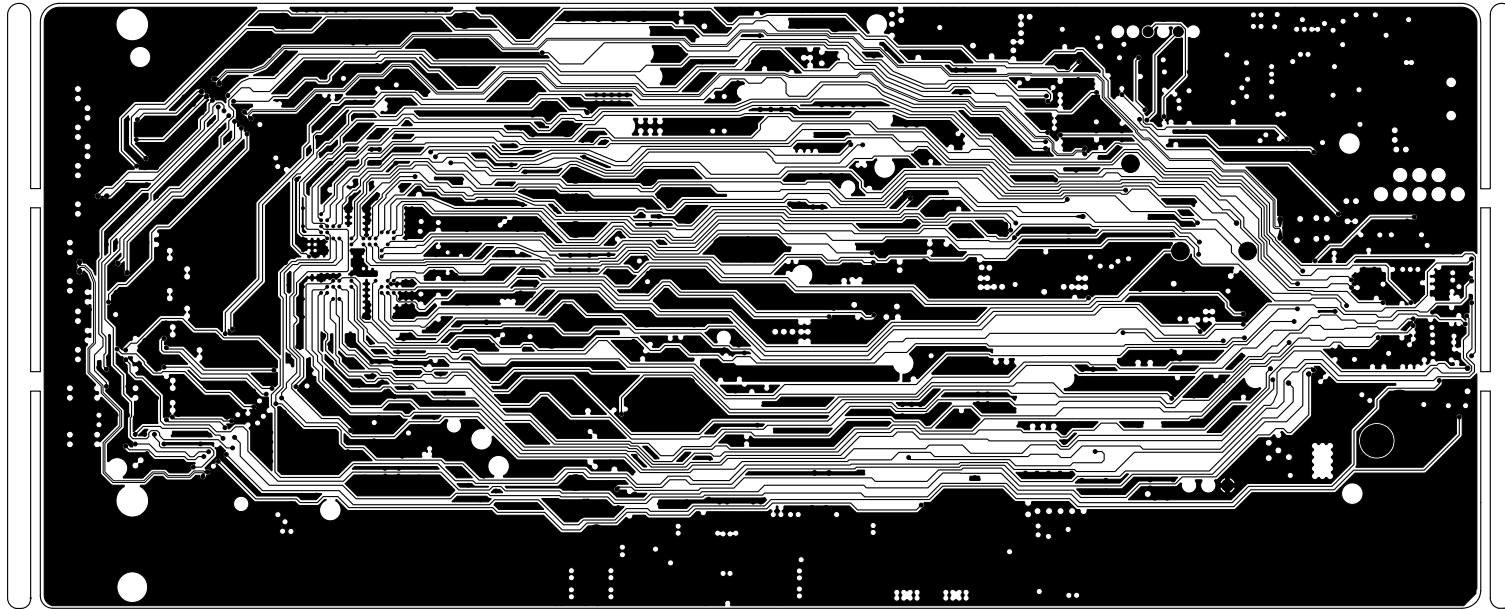
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LAYER-4-GND2  
SHEET 04 OF 20  
18-JULY-2022



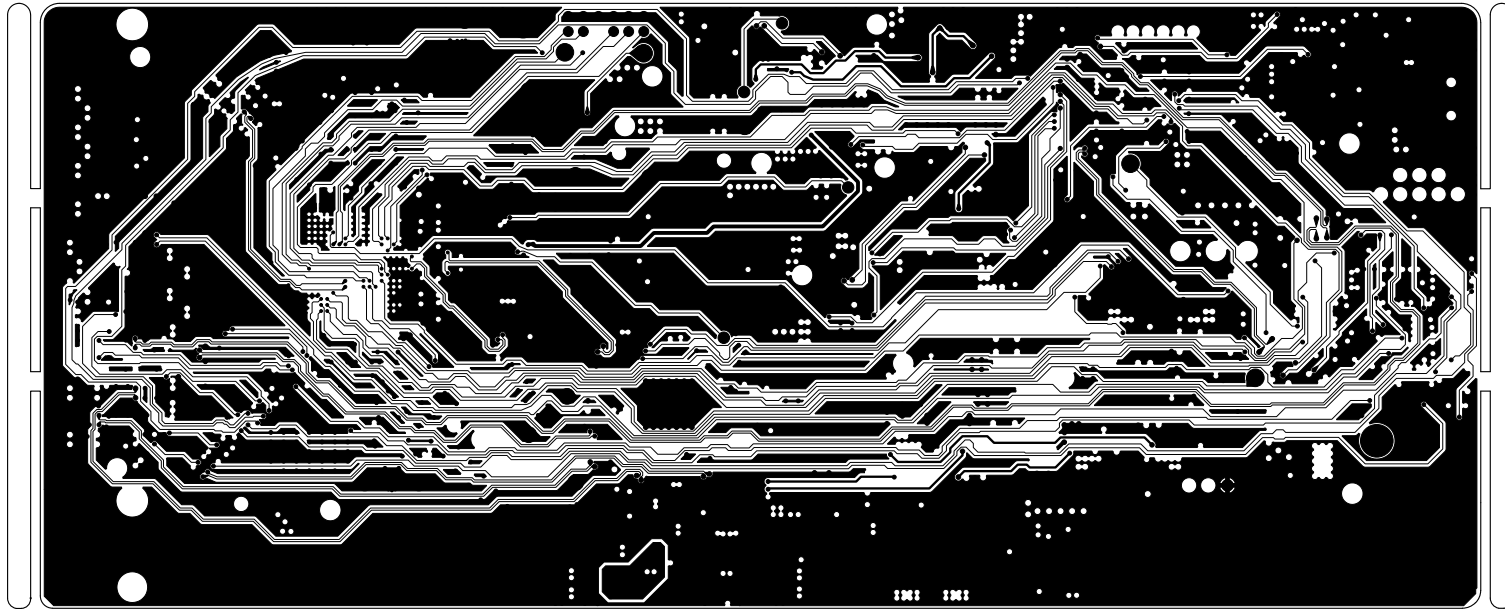
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REV 1P0  
AMPS151A  
LAYER-5-PWR2  
SHEET 05 OF 20  
18-JULY-2022



TEXAS INSTRUMENTS  
AMPS151A\_AFE79-TRF12-EVM  
REV 1P0  
AMPS151A  
LAYER - 6 - GND3  
SHEET 06 OF 20  
18 - JULY - 2022

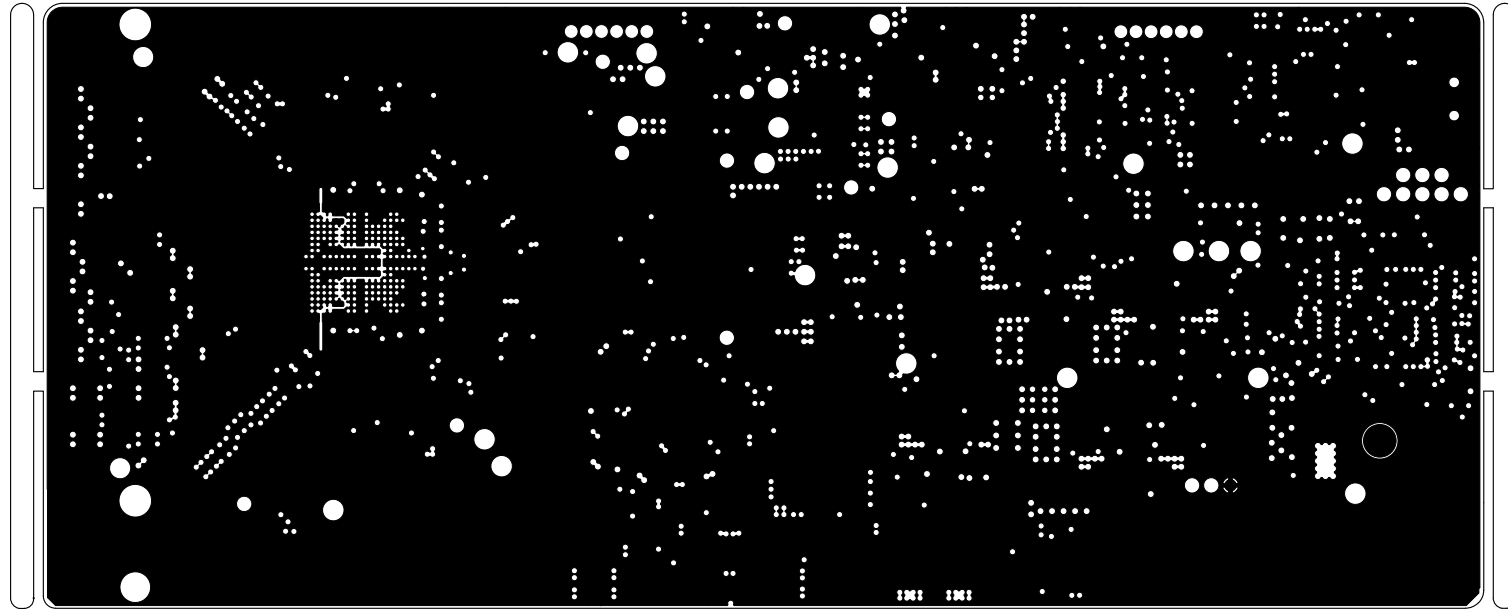


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AMPS151A  
LAYER-7-SIG1  
SHEET 07 OF 20  
18-JULY-2022

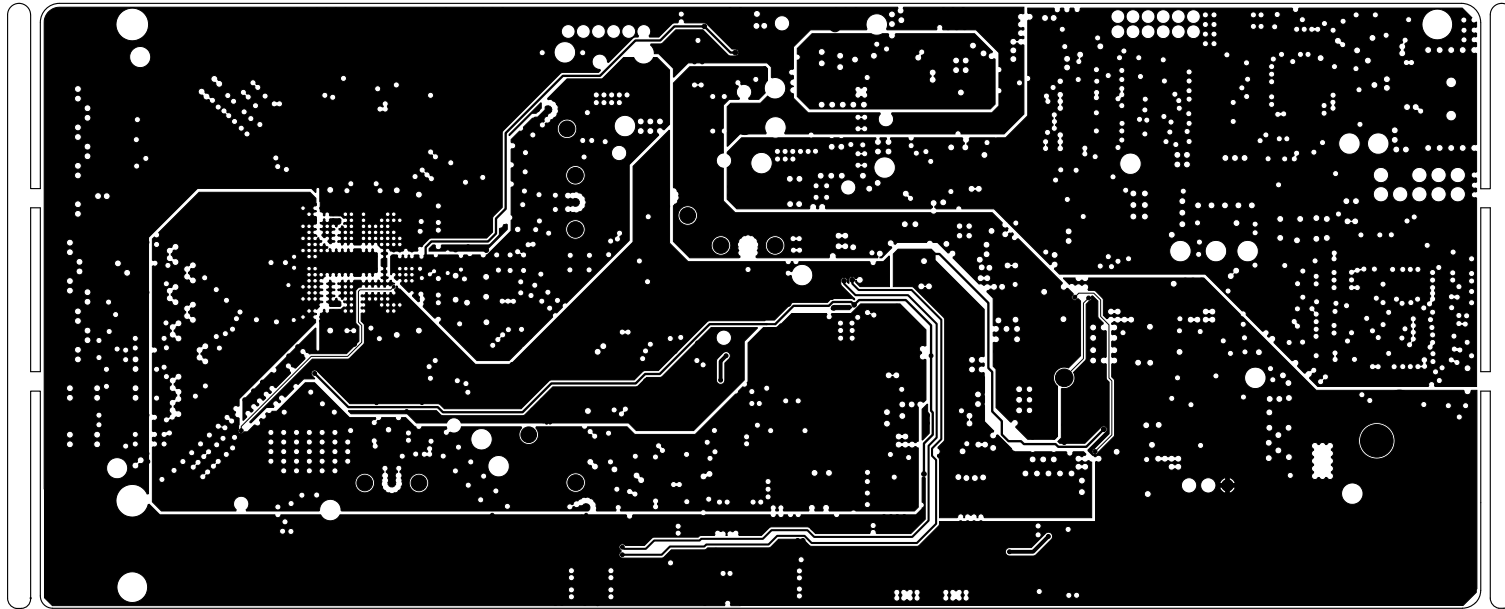


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LAYER-8-SIG2  
SHEET 08 OF 20  
18-JULY-2022

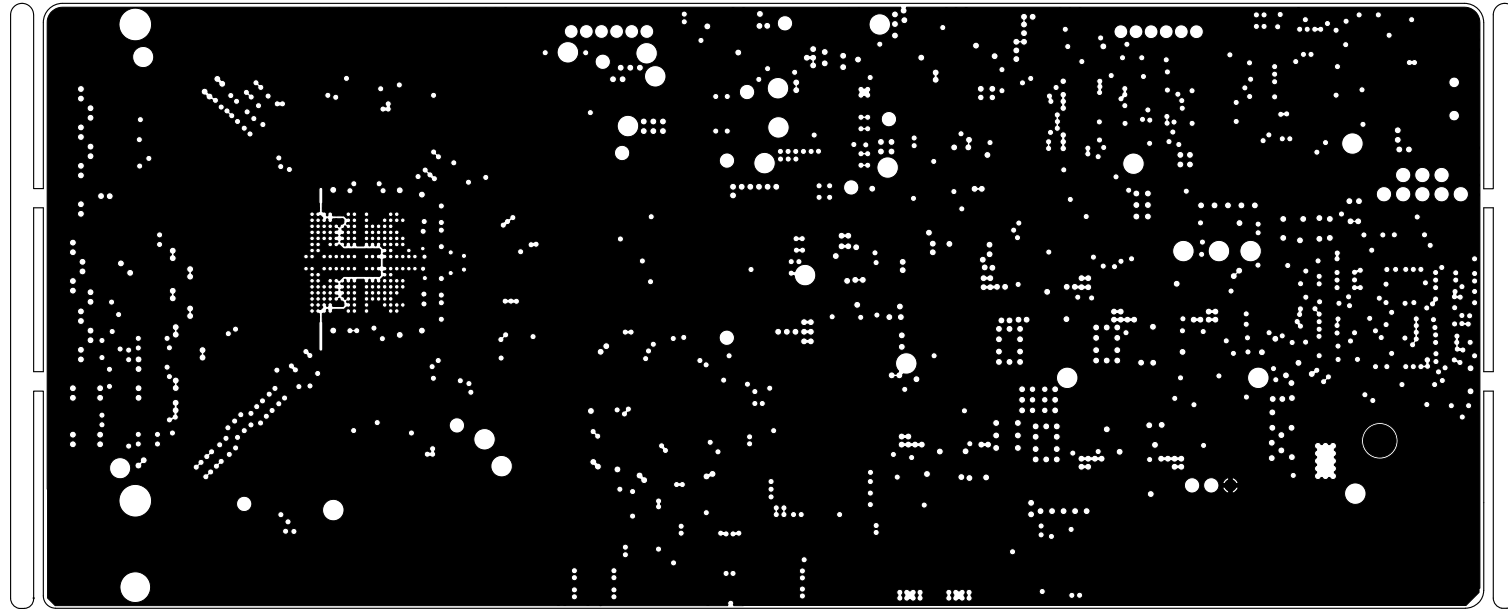




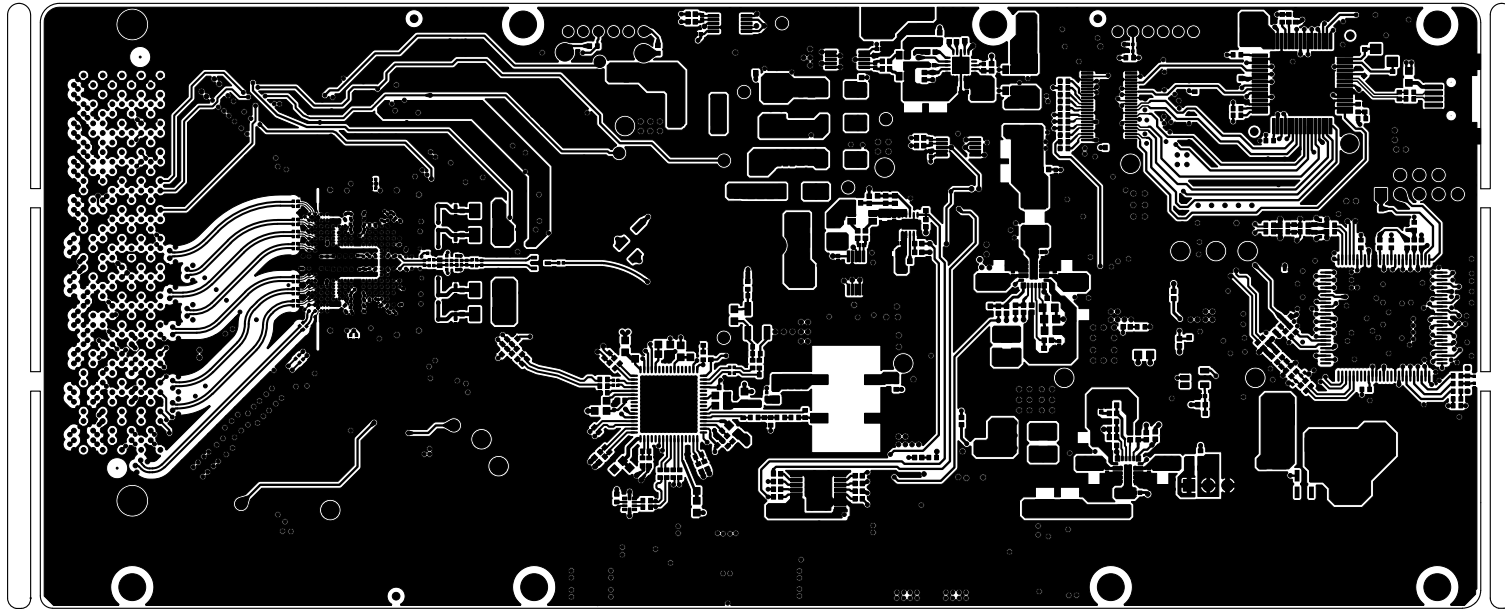
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AMPS151A  
LAYER-9-VSSDK  
SHEET 09 OF 20  
18-JULY-2022



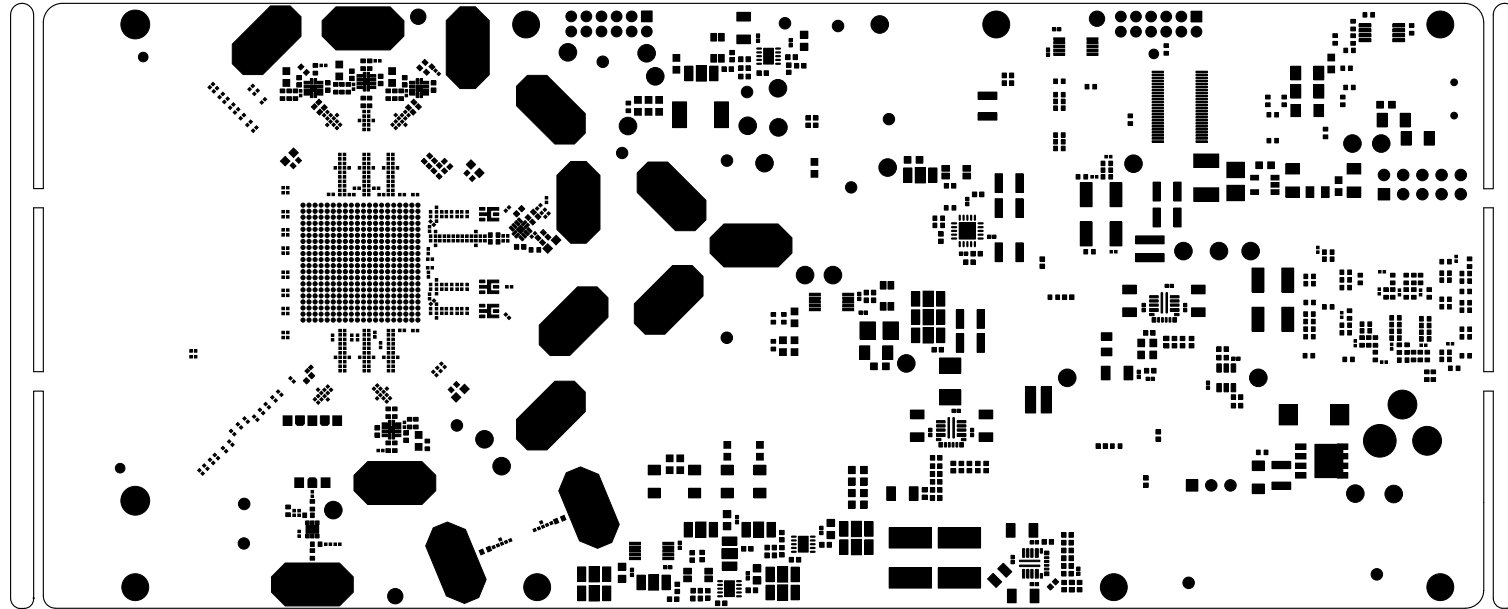
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AMPS151A  
LAYER-10-PWR3  
SHEET 10 OF 20  
18-JULY-2022



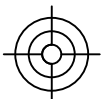
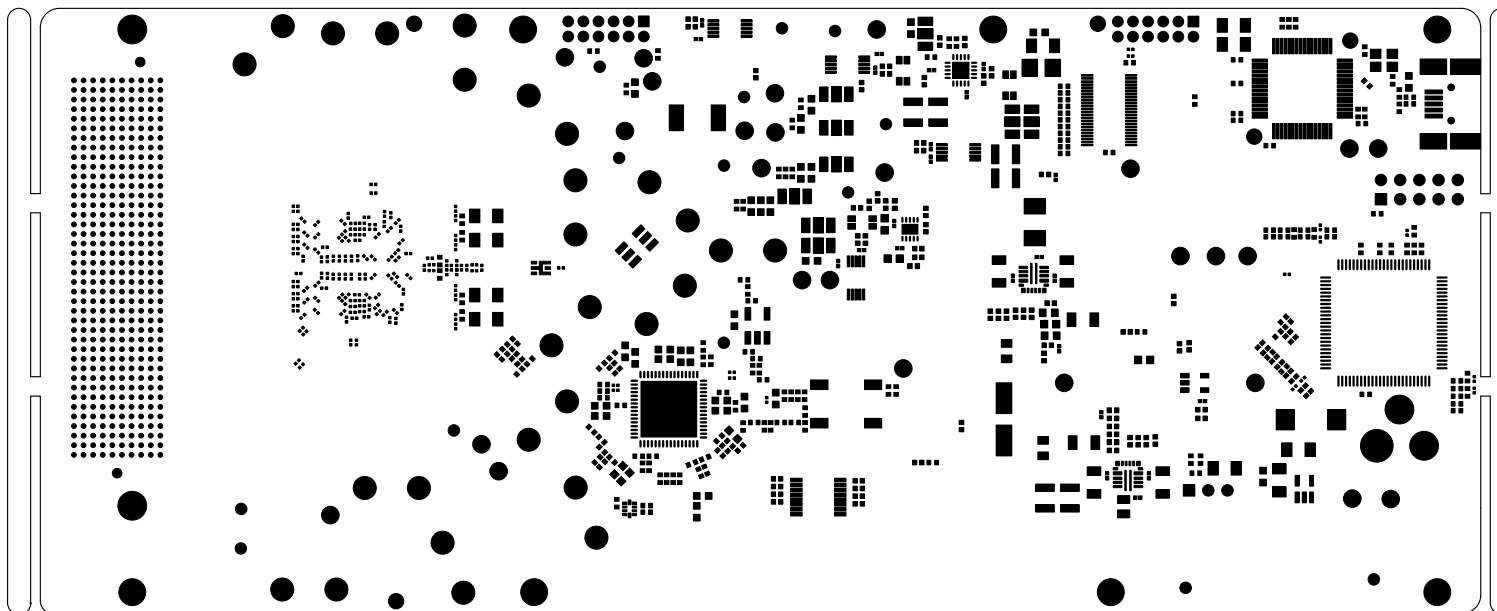
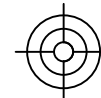
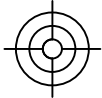
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AMPS151A  
LAYER-11- GND5  
SHEET 11 OF 20  
18-JULY-2022



TEXAS INSTRUMENTS  
AMPS151A\_AFE79-TRF12-EVM  
REV 1P0  
AMPS151A  
BOTTOM LAYER  
SHEET 12 OF 20  
18-JULY-2022



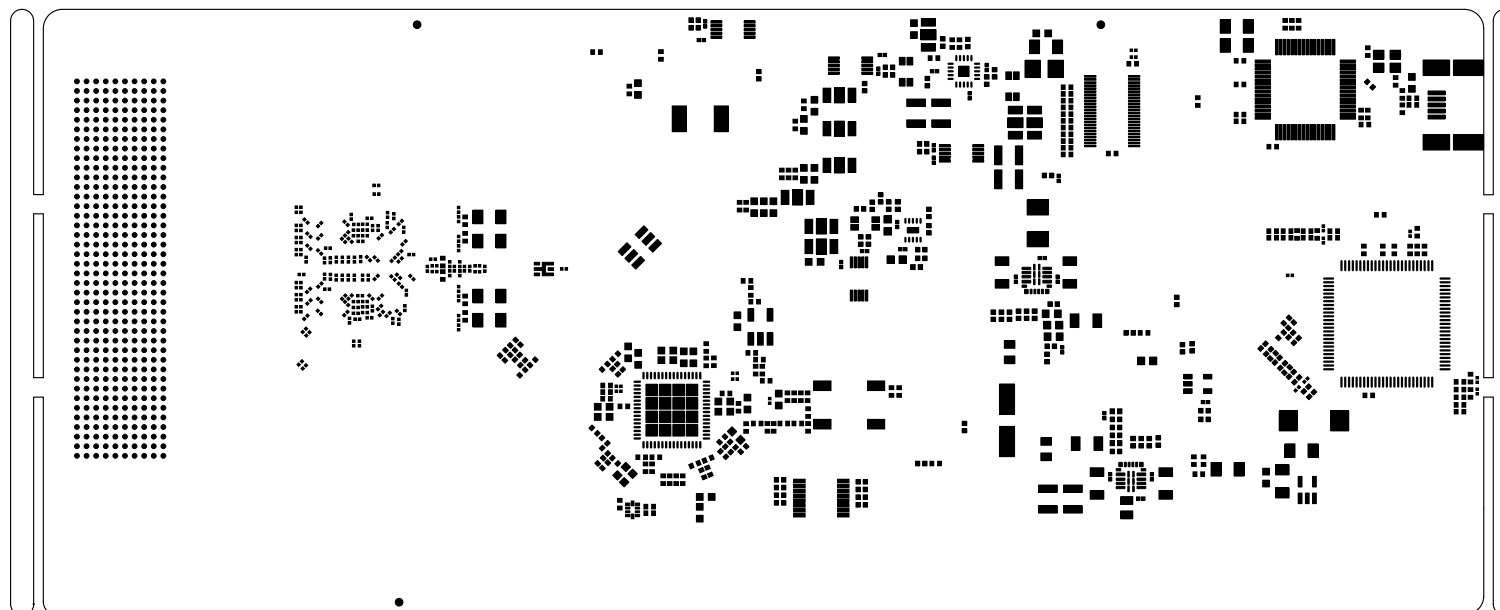
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AMPS151A\_AFE79-TRF12-EVM  
REV 1P0  
AMPS151A  
MASK TOP  
SHEET 13 OF 20  
18-JULY-2022



TEXAS INSTRUMENTS  
AMPS151A\_AFE79-TRF12-EVM  
REV 1P0  
AMPS151A  
MASK BOTTOM  
SHEET 14 OF 20  
18-JULY-2022

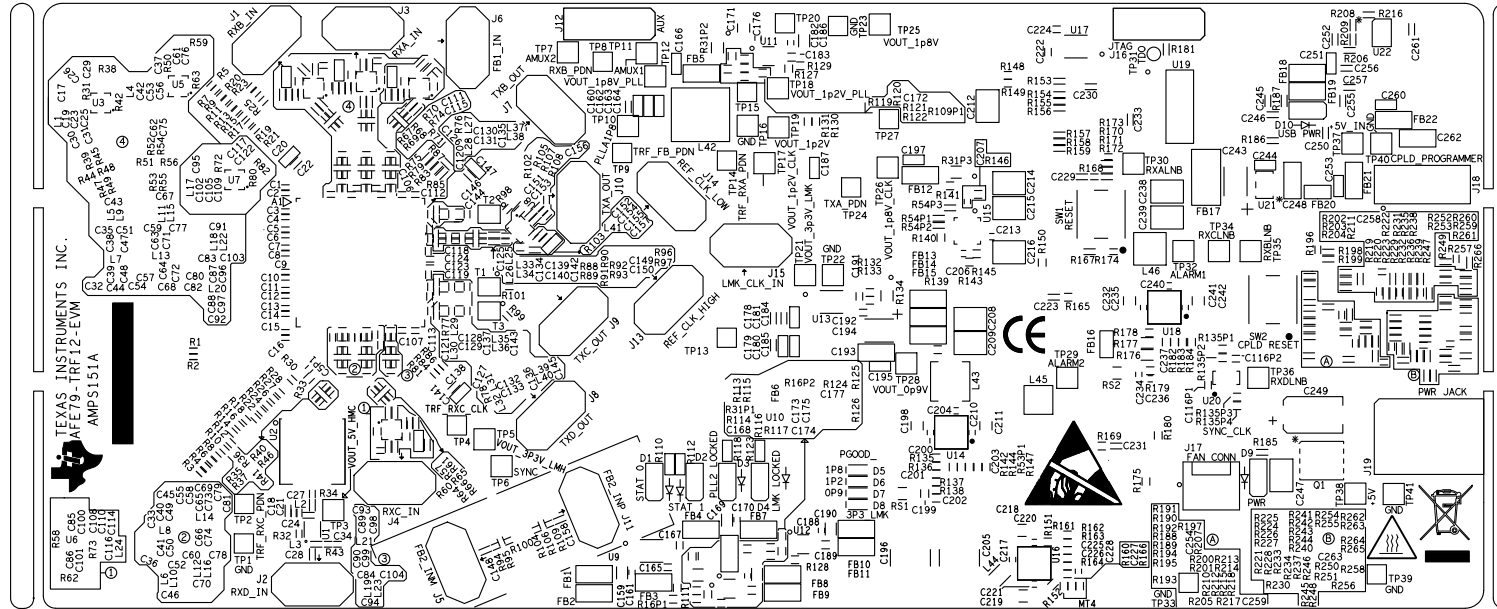


TEXAS INSTRUMENTS  
AMPS151A\_AFE79-TRF12-EVM  
REV 1P0  
AMPS151A  
SOLDER PASTE TOP  
SHEET 15 OF 20  
18-JULY-2022

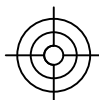
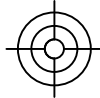


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REV 1P0  
AMPS151A  
SOLDER PASTE BOTTOM  
SHEET 16 OF 20  
18-JULY-2022

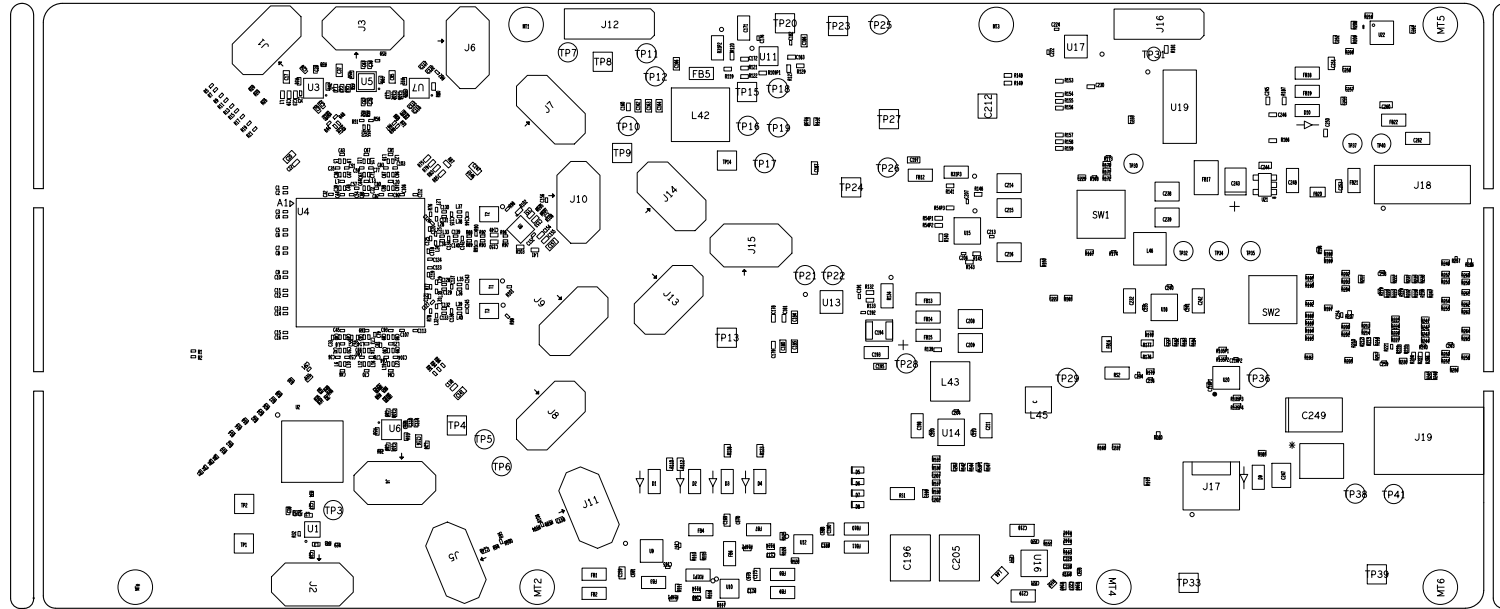




TEXAS INSTRUMENTS  
AMPS151A\_AFE79-TRF12-EVM  
REV 1P0  
AMPS151A  
SILKSCREEN TOP  
SHEET 17 OF 20  
18-JULY-2022



TEXAS INSTRUMENTS  
AMPS151A\_AFE79-TRF12-EVM  
REV 1P0  
AMPS151A  
SILKSCREEN BOTTOM  
SHEET 18 OF 20  
18-JULY-2022

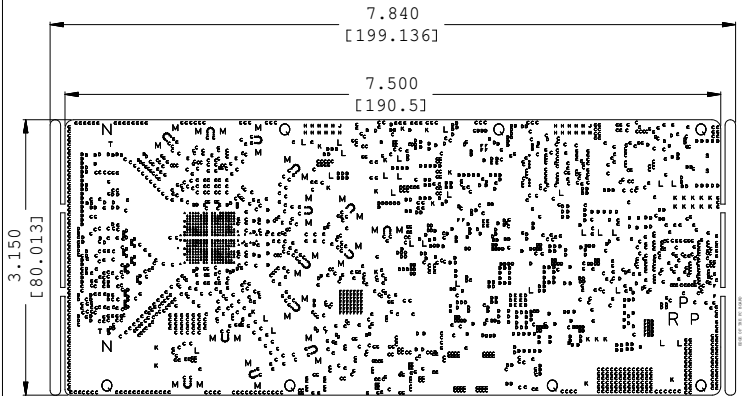


TEXAS INSTRUMENTS  
AMPS151A\_AFE79-TRF12-EVM  
REV 1P0  
AMPS151A  
ASSEMBLY TOP  
SHEET 19 OF 20  
18-JULY-2022



REV	REVISIONS
1P0	

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
18	•	8.0	+0.0/-8.0	PLATED 331
19	•	8.01	+0.0/-8.0	PLATED 144
18	•	10.0	+0.0/-10.0	PLATED 1491
18	•	12.0	+0.0/-12.0	PLATED 616
20	•	12.01	+0.0/-12.0	PLATED 32
19	•	12.02	+0.0/-12.0	PLATED 63
21	•	12.03	+0.0/-12.0	PLATED 7
	•	32.0	+0.0/-0.0	PLATED 22
	•	32.0	+0.0/-0.0	PLATED 2
	•	40.16	+2.01/-2.01	PLATED 27
	•	62.0	+0.0/-0.0	PLATED 26
	•	63.0	+4.0/-0.0	PLATED 28
	•	106.0	+3.0/-3.0	PLATED 2
	•	120.0	+0.0/-0.0	PLATED 2
	•	125.0	+0.0/-0.0	PLATED 7
	•	140.0	+0.0/-0.0	PLATED 1
	•	35.43	+2.0/-0.0	NON-PLATED 2
	•	50.0	+3.0/-3.0	NON-PLATED 2



SEE NOTES	SEE NOTES	
		NEXT ASSEMBLY
<b>LINEAR</b>		<b>MISCELLANEOUS</b>
MILLIMETERS XX +/- .25 X +/- .50	INCHES XXX +/- .010 XX +/- .020	ANGLES +/- 1 AXIS OF TAPPED HOLES 90 +/- 1 REMOVE ALL BURRS & SHARP EDGES
<b>HOLES</b>		
MILLIMETERS XX +/- .010 XX +/- .127	INCHES XXX +/- .003 XX +/- .005	
DRAFTSMAN: JAYANTA DAS 18/07/22 DESIGNER: SASIKUMAR.T.S 18/07/22 CHECKER: JAYANTA DAS 18/07/22 ENGINEER: JAYANTA DAS 18/07/22 APPROVED: ANIL 18/07/22 RELEASED: MIKE KORSON 18/07/22		TEXAS INSTRUMENTS INC. FABRICATION, AMPS151A_AFE79- TRF12-EVM AMPS151A 1P0 1/2

REV	REVISIONS
1P0	

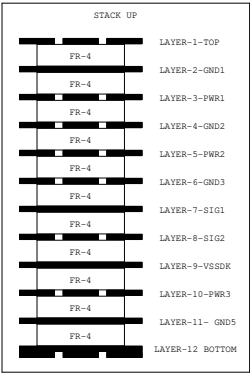
UNLESS OTHERWISE SPECIFIED. ALL NOTES ARE APPLICABLE.

1. APPLICATION DESIGN, MANUFACTURING AND INSPECTION DOCUMENTS.  
IPC-2221B & IPC-2222A / DESIGN STANDARD FOR RIGID PRINTED CIRCUIT BOARDS AND RIGID PRINTED BOARD ASSEMBLIES.  
IPC-6012C / QUALIFICATION AND PERFORMANCE SPECIFICATION FOR RIGID PRINTED BOARD.
2. IPC-A-600H / ACCEPTABILITY OF PRINTED BOARDS.
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: FR4 (REFER STACKUP).
6. MANUFACTURE'S FLAMMABILITY RATING, LOGO AND DATE CODE  
TO BE PLACED IN SILKSCREEN ON BOTTOM SIDE OF THE BOARD.
8. SOLDERMASK BOTH SIDES USING RED (OR EQUIVALENT)  
COLOR = RED (0.001 TO 002" THICK OVER METAL).
9. SILKSCREEN BOTH SIDES USING WHITE LPI 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. BOARD DIMENSION : 7.5inch X 3.15inch
14. PLATING TO BE SOFT GOLD.
15. ALL INNER LAYER UNCONNECTED PADS SHALL BE REMOVED.
16. PWB MUST BE ROHS COMPLIANT AND SURVIVE LEAD FREE ASSEMBLY,  
MAX REFLOW OF 260 DEGREES C (6 PASSES).
17. ALL DIMENSIONS ARE IN INCHES.

18. EXCEPT ON PAD VIAS ALL VIAS NEED TO BE TENTED ON BOTH TOP AND BOTTOM SIDE.
19. ALL 8.01, 12.02 MIL DRILL NEED TO BE FILL AND FLAT FINISH ON BOTTOM SIDE
20. ALL 12.01 MIL DRILL NEED TO BE FILL AND FLAT FINISH ON TOP SIDE
21. ALL 12.03 MIL DRILL NEED TO BE FILL AND FLAT FINISH ON BOTH SIDE

IMPEDANCE DETAILS :

LAYERS	TRACE WIDTH	SPACING	IMPEDANCE DETAILS
TOP	11 MIL 12 MIL	9 MIL -	100 OHM +/-10% 50 OHM +/-10%
L03_PWR1	4.5 MIL	-	50 OHM +/-10%
L05_PWR2	4 MIL 4.5 MIL	7 MIL	100 OHM +/-10% 50 OHM +/-10%
L07_SIG1	4 MIL 6 MIL	5 MIL -	100 OHM +/-10% 50 OHM +/-10%
L08_SIG2	4 MIL 4.5 MIL	7 MIL -	100 OHM +/-10% 50 OHM +/-10%
L10_PWR3	4.5 MIL	-	50 OHM +/-10%
BOTTOM	8 MIL 11 MIL 12 MIL	6.5 MIL 9 MIL -	90 OHM +/-10% 100 OHM +/-10% 50 OHM +/-10%



SECTION A - A  
NO SCALE

SEE NOTES	SEE NOTES									
		NEXT ASSEMBLY								
<table><tr><td>LINEAR</td><td>MISCELLANEOUS</td></tr><tr><td>MILLIMETERS XX +/- .25 X +/- .50</td><td>INCHES XX +/- .010 XX +/- .020</td></tr><tr><td>HOLES</td><td></td></tr><tr><td>MILLIMETERS XX +/- .075 XX +/- .125</td><td>INCHES XX +/- .003 XX +/- .005</td></tr></table>		LINEAR	MISCELLANEOUS	MILLIMETERS XX +/- .25 X +/- .50	INCHES XX +/- .010 XX +/- .020	HOLES		MILLIMETERS XX +/- .075 XX +/- .125	INCHES XX +/- .003 XX +/- .005	<input checked="" type="checkbox"/> <input type="checkbox"/>
LINEAR	MISCELLANEOUS									
MILLIMETERS XX +/- .25 X +/- .50	INCHES XX +/- .010 XX +/- .020									
HOLES										
MILLIMETERS XX +/- .075 XX +/- .125	INCHES XX +/- .003 XX +/- .005									
DRAFTSMAN: JAYANTA DAS 18/07/22 DESIGNER: SASIKUMAR.T.S 18/07/22 CHECKER: JAYANTA DAS 18/07/22 ENGINEER: JAYANTA DAS 18/07/22 APPROVED: ANIL 18/07/22 RELEASED: MIKE KORSON 18/07/22		TEXAS INSTRUMENTS INC. FABRICATION, AMPS151A_AFE79- TRF12-EVM AMPS151A 1P0 2								