

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	05JUN25	D.CLAVILLAS

TESTING:

17. FINAL ELECTRICAL TEST TO BE PERFORMED USING PROVIDED IPC-D-356A NETLIST OR ODB++ FORMAT FILE.
THE PCB SHALL HAVE A VERIFICATION STAMP.

19. A TIME DOMAIN REFLECTOMETER REPORT (TDR) FOR EACH IMPEDANCE CONTROLLED LAYER & A CERTIFICATE OF COMPLIANCE SHALL BE PROVIDED BY VENDOR AT TIME OF SHIPMENT. INSTANCES WHERE TDR TESTING CAN'T BE PERFORMED BECAUSE THE TRACE LENGTH IS TOO SHORT ON THE OUTER LAYERS AT THE PIN ESCAPES IS ACCEPTABLE, ALL OTHER INSTANCES MUST BE REPORTED.

MISCELLANEOUS:

19. IF PRESENT, ALL BLIND/BURIED VIAS WITH AN ASPECT RATIO $<1:1$ TO BE PLATED SHUT WITH COPPER WHEN USED AS VIA-IN-PAD OR AS A STACKED VIA. BLIND/BURIED VIAS WITH AN ASPECT RATIO $>1:1$ TO BE FILLED WITH NON-CONDUCTIVE EPOXY.

20. FOR VIA FILL INFORMATION REFER TO DRILL CHART:
 () NON-CONDUCTIVE EPOXY FILL ALL 0.XXXX INCHES DRILLED VIAS
 () COPPER FILL ALL 0.XXXX INCHES DRILLED VIAS

21. INTENTIONAL SHORTS:
IF AN INTENTIONAL SHORT REPORT IS SUPPLIED AND DOES NOT MATCH THE FAB DATA THEN
ADI APPROVAL IS REQUIRED.

22. PEMNUTS:
- () PEMNUTS TO BE INSTALLED BY FABRICATOR
 - () PEMNUTS NOT TO BE INSTALLED BY FABRICATOR
 - () NOT APPLICABLE
23. MANUFACTURER TO ETCH/STAMP WITH PERMANENT NON-CONDUCTIVE INK ON SECONDARY SIDE UNLESS OTHERWISE SPECIFIED:
- A. UL CODE-FLAMMABILITY RATING FOR THOSE APPROVED MATERIALS(IF APPLICABLE)
 - B. DATE CODE
 - C. LOT NUMBER
 - D. MANUFACTURER LOGO

24. MINIMUM DESIGN LINE WIDTH IS .020 INCH.
25. MINIMUM DESIGN LINE SPACING IS .008 INCH.
26. BOARDS TO BE SHIPPED SINGULATED AFTER FABRICATION PROCESS.
SMOOTHEN EDGES AND FREE FROM BURRS AFTER DEPANELIZATION PROCESS.

FAB NOTES REVISION: 2ND NOVEMBER 2022

LAMINATION DIAGRAM					
LAYER NUMBER	LAYER NAME	COPPER THICKNESS (OZ. INCH)	DIELECTRIC THICKNESS (INCH)	MATERIALS	
1	TOP	2 OZ., 0.0028"		FINAL CU (THICKNESS AFTER PLATING)	
2	L2_GND	1 OZ., 0.0014"		TBD	ISOLA 370HR/EQUIVALENT
3	L3_GND	1 OZ., 0.0014"		TBD	ISOLA 370HR/EQUIVALENT
4	BOTTOM	2 OZ., 0.0028"		TBD	ISOLA 370HR/EQUIVALENT
				FINAL CU (THICKNESS AFTER PLATING)	

THE FINISHED PCB THICKNESS TO BE: 0.062" +/-10%

PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVAL		DATE		 ANALOG DEVICES AHEAD OF WHAT'S POSSIBLE™		GLOBAL OPERATIONS & TECHNOLOGY 804 WOBURN STREET WILMINGTON, MA 01887	
TOLERANCES		TEMPLATE ENGINEER BILLY PHILLIPS		14APR21		TITLE FABRICATION LT8306 CUSTOMIZED EVKIT WITH LT8309 FOR SECONDARY RECTIFICATION CUSTOMER EVALUATION BD			
DECIMALS FRACTIONS ANGLES		HARDWARE SERVICES BOB MACDONALD		14APR21					
.XX .010 .1/32 .1		HARDWARE SYSTEMS DAVE WILLIAMS		14APR21					
XXX .000 XXXX .0050		TEST ENGINEER N/A		N/A					
MATERIAL		COMPONENT ENGINEER ADGT LIBRARY		04OCT23					
		TEST PROCESS N/A		N/A					
		HARDWARE RELEASE J. BOMBITA		05JUN25					
FINISH		PCB DESIGNER J. BOMBITA		05JUN25		SIZE		FSCM NO	
		ENGINEER D. CLAVILLAS		05JUN25		DRAWING NUMBER		REV	
		CHECKER N/A		N/A		D 24355		09-087397 A	
DO NOT SCALE DWG						SCALE 1/1		SHEET 1 OF 1	

NOTES: UNLESS OTHERWISE SPECIFIED

1. DIMENSIONS ARE IN INCHES (EXCEPT WHERE NOTED).
ALL DOCUMENTS & SPECIFICATIONS REFERRED TO BELOW SHOULD BE THE LATEST REVISIONS.

MATERIAL : HOMOGENOUS MATERIALS IN THIS BOARD SHALL BE COMPLAINT WITH THE EU DIRECTIVE 2002/95/EC

2. BOARD MATERIAL: (USE CHECKED ITEMS)
- (X) ISOLA 370HR OR S1000-2 OR IT180 OR EQUIVALENT
 - () ISOLA-FR408HR OR EQUIVALENT
 - () ISOLA IS410
 - () MEGTRON 6
 - () NELCO-4000-13
 - () ROGERS 4350B
 - () ROGERS 3003
 - () ARLON 85N
 - () EM370D
 - () OTHER _____
3. ALL LAMINATES & BONDING MATERIALS SHOULD BE SELECTED FROM IPC-4101 OR IPC-4103. (TG>170 DEGC TD>300 DEGC) UL FLAMMABILITY RATING 94V-0. BOARD MATERIAL & CONSTRUCTION SHALL MEET THE REQUIREMENTS OF UL796/UL796F.
4. REFER TO IPC-6010 SERIES, CLASS 2 FOR FABRICATION. WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2.
5. REFER TO LAMINATION DIAGRAM FOR OVERALL BOARD THICKNESS. TOLERANCE APPLIES AFTER ALL LAMINATION AND PLATING PROCESSES. FINISHED THICKNESS MEASURED FROM TOP COPPER TO BOTTOM COPPER.
6. BOW & TWIST NOT TO EXCEED 0.0075 INCHES (0.75%) PER LINEAR INCH AND SHOULD BE MEASURED PER IPC-TM-650, METHOD 2.4.22
7. ACCEPTABILITY PER ADI SPECIFICATION TST00115.

TOOLING:

- IMPEDANCE REQUIREMENTS; IF NO STACKUP IS DEFINED, THE VENDOR IS ALLOWED TO ADJUST THE DIELECTRIC THICKNESS & TRACE WIDTHS TO MEET THE IMPEDANCE REQUIREMENT. IF SPECIFIED, THE VENDOR MUST MEET THE REQUIREMENTS LISTED IN THE IMPEDANCE TABLE. ANY ADJUSTMENT MADE TO THE DEFINED STACKUP, TRACE WIDTH & SPACING THAT IMPACT THE REQUIREMENTS MUST HAVE WRITTEN APPROVAL FROM ADI.
9. FILLET OPTIONS TO ENHANCE RELIABILITY AT PAD JUNCTIONS WHERE SPACING PERMITS.
() FILLETS ALLOWED
(X) FILLETS NOT ALLOWED
10. THIEVING:
() VENDOR MAY ADD THIEVING TO COMPENSATE FOR LOW COPPER DENSITY AREAS MAINTAINING A MINIMUM 0.100 INCH CLEARANCE FROM ALL COPPER FEATURES.
() VENDOR MAY NOT ADD THIEVING TO COMPENSATE FOR LOW COPPER DENSITY AREAS.

11. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003 INCHES.

FINISH:

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12. DRILL SIZES ARE FINISHED HOLE SIZES. ALL HOLES SHALL BE LOCATED WITHIN 0.005 INCHES DTP, UNLESS SPECIFIED.
 MINIMUM BARREL PLATING OF 0.001 INCHES. PLATED HOLES SHALL NOT BE ROUGH OR IRREGULAR SO AS TO
 HINDER PROPER SOLDER WICKING. BARREL RELIEF ON SOLDERMASK ALLOWED IN UNFILLED VIA IN PAD HOLES.

13. PLATING SPECIFICATION:
 (X) REFER TO LAMINATION DIAGRAM FOR FINISHED COPPER WEIGHT/THICKNESS REQUIREMENTS
 THE STARTING COPPER WEIGHT/THICKNESS CAN VARY AS LONG AS THE FINISHED COPPER
 WEIGHT/THICKNESS IS NOT LESS THAN THE SPECIFIED VALUE.

14. SURFACE FINISH:
 (X) IMMERSION GOLD (ENIG) 1.58-3.94 MICRO INCHES OVER 118-236 MICRO INCHES MIN. OF ELECTROLESS NICKEL PER IPC-452
 () OSP (ORGANIC SOLDERABILITY PRESERVATIVE)
 () IMMERSION SILVER
 () SOFT WIRE BONDABLE GOLD 30-50 MICRO INCHES OF SOFT WIRE
 BONDABLE GOLD OVER 100-150 MICRO INCHES OF NICKEL
 () EDGE CONNECTOR FINGERS ARE TO BE PLATED WITH 100 MICRO-INCHES (.0001") OF LOW STRESS
 NICKEL UNDER 30 MICRO-INCHES (.0003") OF GOLD
 () OTHER_____

15. SOLDERMASK:
 SOLDERMASK OVER BARE COPPER OR BARE GOLD (BOTH SIDES) TO MEET IPC-SM-840.
 IF PRESENT, DO NOT MODIFY SOLDERMASK DEFINED PADS (MASK OPENINGS LESS THAN COPPER PAD) WITHOUT APPROVAL.
 (X) LPI
 () OTHER_____

 COLOR
 (X) GREEN
 () OTHER_____

16. APPLY SILKSCREEN TO BOTH SIDES USING A NON-CONDUCTIVE, EPOXY BASED INK PER ARTWORK.
 (X) WHITE
 () OTHER

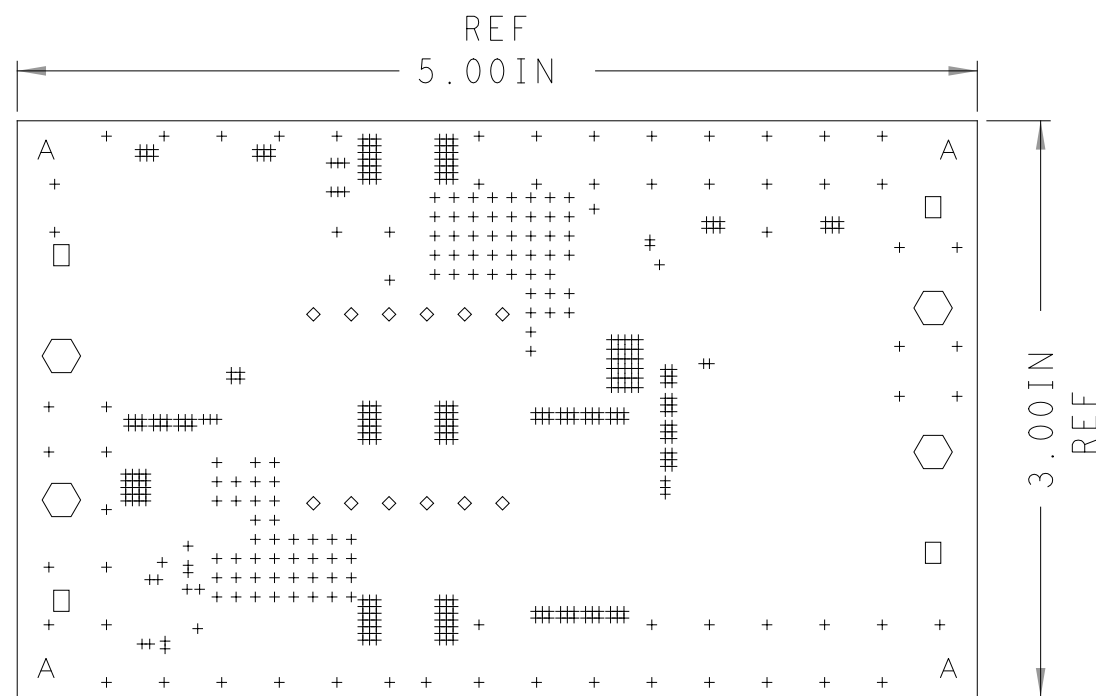
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## HOLE TOLERANCE

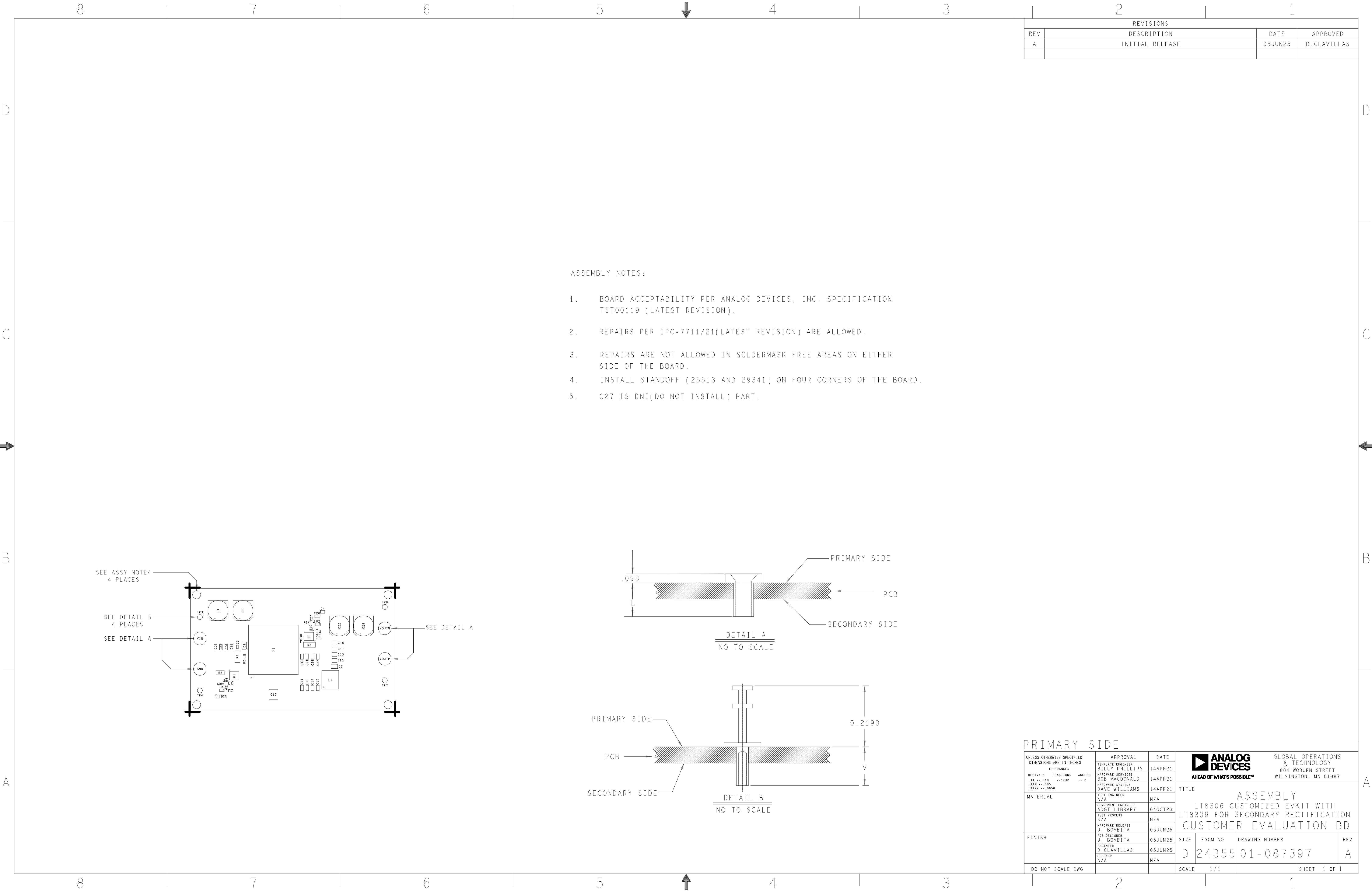
UNLESS SPECIFIED  
PLATED:  $\pm .003$   
NON PLATED:  $\pm .002$

| DRILL CHART: TOP to BOTTOM |       |            |     |                 |
|----------------------------|-------|------------|-----|-----------------|
| FINISHED HOLES             |       | IN MILS    |     |                 |
| FIGURE                     | SIZE  | PLATED     | QTY | TOLERANCE/NOTES |
| +                          | 10.0  | PLATED     | 473 | DIA MAX         |
| ◇                          | 50.0  | PLATED     | 12  |                 |
| □                          | 100.0 | PLATED     | 4   |                 |
| ⬡                          | 213.0 | PLATED     | 4   |                 |
| A                          | 125.0 | NON-PLATED | 4   |                 |

TOTAL HOLES: 497







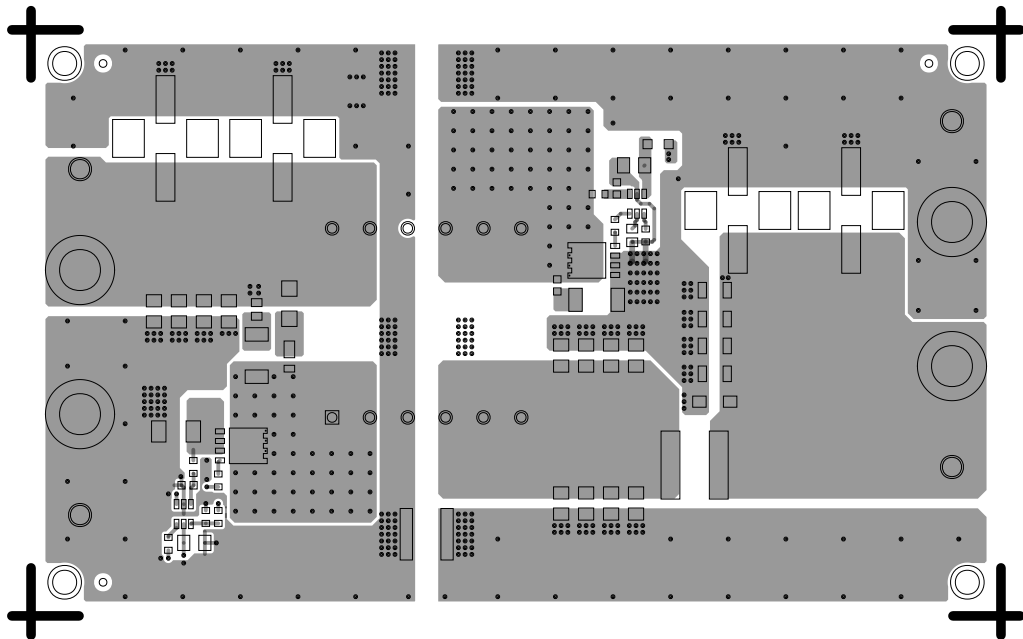
ASSEMBLY NOTES:

- BOARD ACCEPTABILITY PER ANALOG DEVICES, INC. SPECIFICATION TST00119 (LATEST REVISION).
- REPAIRS PER IPC-7711/21(LATEST REVISION) ARE ALLOWED.
- REPAIRS ARE NOT ALLOWED IN SOLDERMASK FREE AREAS ON EITHER SIDE OF THE BOARD.
- INSTALL STANDOFF (25513 AND 29341) ON FOUR CORNERS OF THE BOARD.
- C27 IS DNI(DO NOT INSTALL) PART.

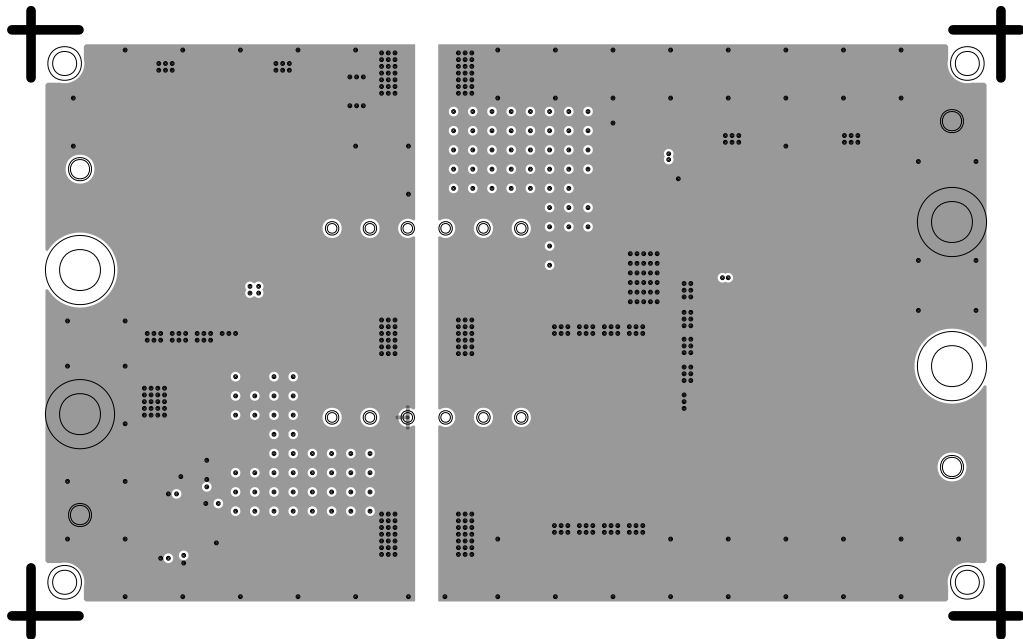
| REVISIONS |                 |         |             |
|-----------|-----------------|---------|-------------|
| REV       | DESCRIPTION     | DATE    | APPROVED    |
| A         | INITIAL RELEASE | 05JUN25 | D.CLAVILLAS |
|           |                 |         |             |

|                                                        |           |                                     |         |                                                                                                                                                                                       |              |
|--------------------------------------------------------|-----------|-------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES |           | APPROVAL                            | DATE    | <div>GLOBAL OPERATIONS<br/>&amp; TECHNOLOGY<br/>804 WOBURN STREET<br/>WILMINGTON, MA 01887</div> |              |
| TOLERANCES                                             |           | TEMPLATE ENGINEER<br>BILLY PHILLIPS | 14APR21 |                                                                                                                                                                                       |              |
| DECIMALS                                               | FRACTIONS | HARDWARE SERVICES<br>BOB MACDONALD  | 14APR21 | TITLE<br>ASSEMBLY<br>LT8306 CUSTOMIZED EVKIT WITH<br>LT8309 FOR SECONDARY RECTIFICATION<br>CUSTOMER EVALUATION BD                                                                     |              |
| .XX                                                    | ..010     | HARDWARE SYSTEMS<br>DAVE WILLIAMS   | 14APR21 |                                                                                                                                                                                       |              |
| .XXX                                                   | ..005     | TEST ENGINEER<br>N/A                | N/A     |                                                                                                                                                                                       |              |
| .XXXX                                                  | ..0050    | COMPONENT ENGINEER<br>ADGT LIBRARY  | 04OCT23 |                                                                                                                                                                                       |              |
| MATERIAL                                               |           | TEST PROCESS                        | N/A     | SIZE FSCM NO DRAWING NUMBER REV                                                                                                                                                       |              |
|                                                        |           | HARDWARE RELEASE<br>J. BOMBITA      | 05JUN25 |                                                                                                                                                                                       |              |
| FINISH                                                 |           | PCB DESIGNER<br>J. BOMBITA          | 05JUN25 | D 24355 01-087397 A                                                                                                                                                                   |              |
|                                                        |           | ENGINEER<br>D. CLAVILLAS            | 05JUN25 |                                                                                                                                                                                       |              |
|                                                        |           | CHECKER<br>N/A                      | N/A     |                                                                                                                                                                                       |              |
| DO NOT SCALE DWG                                       |           |                                     |         | SCALE 1/1                                                                                                                                                                             | SHEET 1 OF 1 |

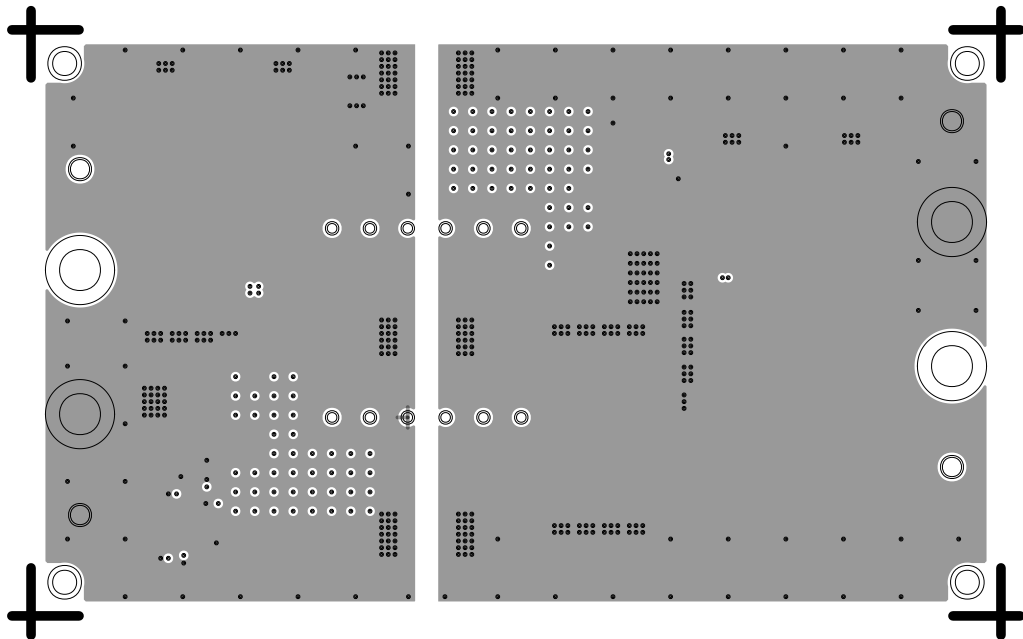
L1 PRIMARY  
08-087397-01  
REV A



L2 GND  
08-087397-07  
REV A



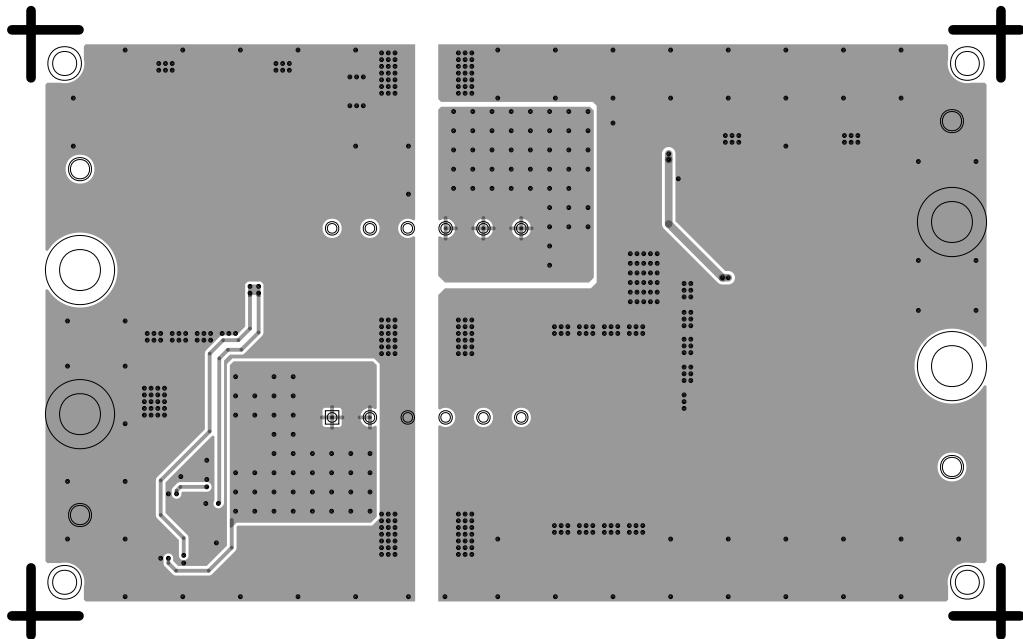
L3 GND  
08-087397-08  
REV A



L4 SECONDARY

08-087397-02

REV A



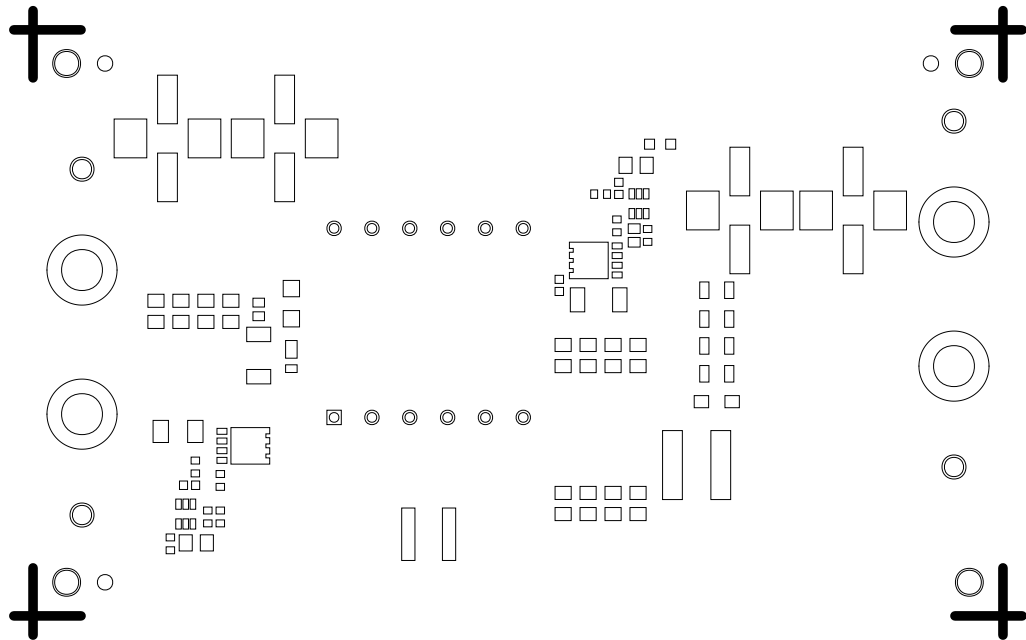
## REV A



SOLDERMASK PRIMARY

08-087397-04

REV A

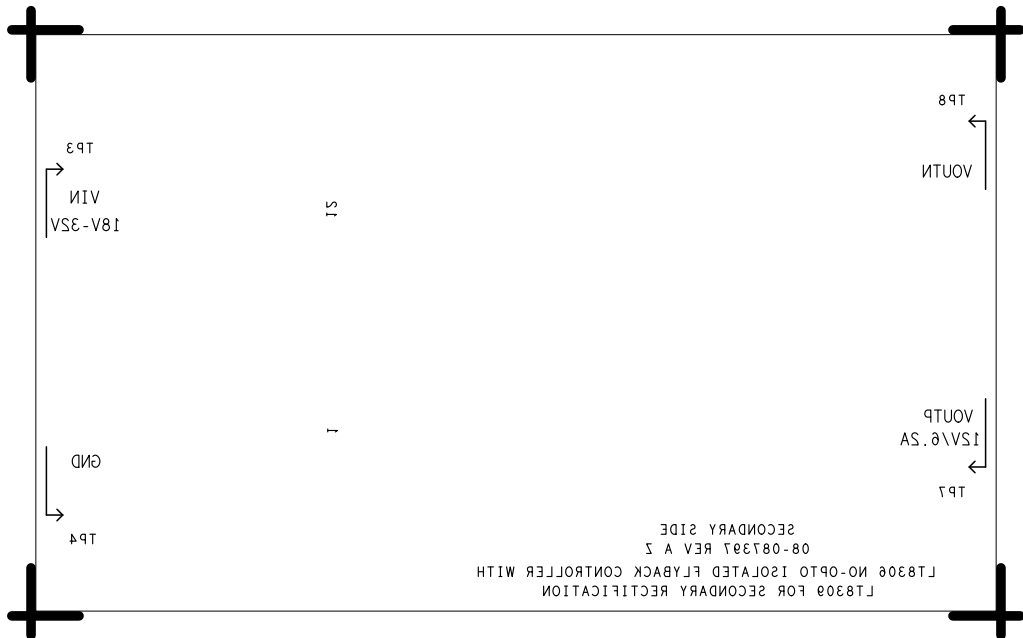




# SILKSCREEN SECONDARY

08-087397-05

REV A



SOLDERMASK SECONDARY

08-087397-06

REV A



PASTEMASK PRIMARY

08-087397-09

REV A

