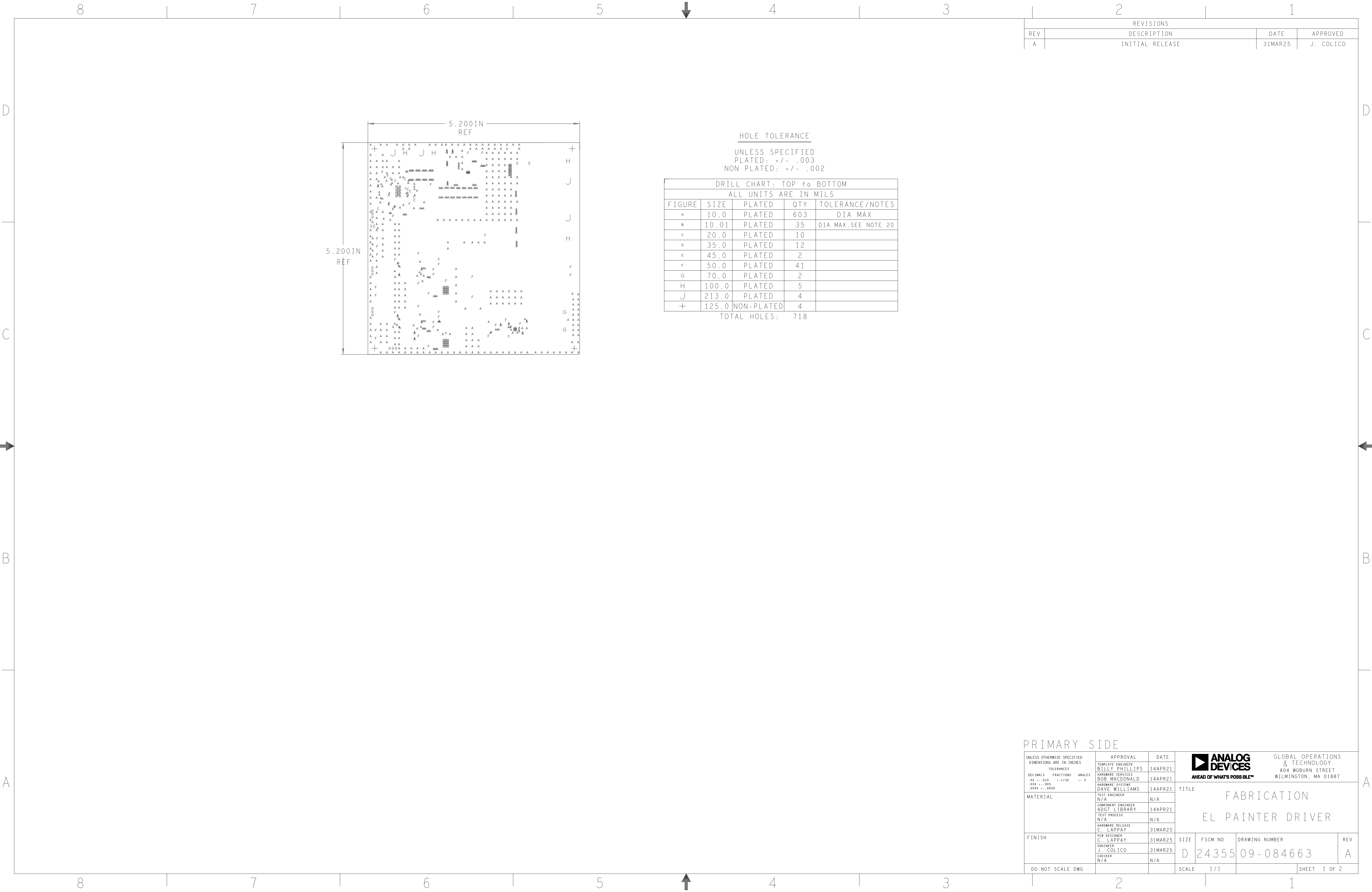




REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	31MAR25	J. COLICO

HOLE TOLERANCE
UNLESS SPECIFIED
PLATED: +/- .003
NON PLATED: +/- .002

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES
A	10.0	PLATED	603	DIA MAX
B	10.01	PLATED	35	DIA MAX,SEE NOTE 20
C	20.0	PLATED	10	
D	35.0	PLATED	12	
E	45.0	PLATED	2	
F	50.0	PLATED	41	
G	70.0	PLATED	2	
H	100.0	PLATED	5	
J	213.0	PLATED	4	
+	125.0	NON-PLATED	4	

TOTAL HOLES: 718

PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES .XX . . .010 . . .1/32 . . .2 .XXX . . .005 .XXXX . . .0050			APPROVAL		DATE		 ANALOG DEVICES AHEAD OF WHAT'S POSSIBLE™		GLOBAL OPERATIONS & TECHNOLOGY 804 WOBURN STREET WILMINGTON, MA 01887				
			TEMPLATE ENGINEER BILLY PHILLIPS		14APR21								
			HARDWARE SERVICES BOB MACDONALD		14APR21								
			HARDWARE SYSTEMS DAVE WILLIAMS		14APR21								
MATERIAL			TEST ENGINEER N/A		N/A		TITLE		FABRICATION EL PAINTER DRIVER				
			COMPONENT ENGINEER ADGT LIBRARY		14APR21								
			TEST PROCESS N/A		N/A								
			HARDWARE RELEASE C. LAPPAY		31MAR25								
FINISH			PCB DESIGNER C. LAPPAY		31MAR25		SIZE	FSCM NO		DRAWING NUMBER			REV
DO NOT SCALE DWG			ENGINEER J. COLICO		31MAR25		D	24355		09-084663			A
			CHECKER N/A		N/A								
			SCALE		1/1					SHEET 1 OF 2			

87654321

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 EQUIVALENT
() ISOLA-FR408HR OR EQUIVALENT
() ISOLA 15410
() MEGTRON 6
() NELCO-4000-13
() ROGERS 4350B
() ROGERS 3003
() ARLOW 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 :
8. 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 :
12. DRILL SIZES ARE FINISHED HOLE SIZES. ALL HOLES SHALL BE LOCATED WITHIN 0.005 INCHES DTP. 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 REQUIRMENTS
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-4552
() 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 (.00003'') 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

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.

18. 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:
(X) NON-CONDUCTIVE EPOXY FILL ALL 0.1001 INCHES DRILLED VIAS
()COPPERFILL ALL 0.000 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. PANELIZATION:
BOARDS TO BE SHIPPED IN SINGULATED AFTER FABRICATION PROCESS
SMOOTHEN EDGES AND FREE FROM BURRS AFTER DEPANELIZATION

25. MINIMUM DESIGN LINE WIDTH IS 0.008 INCH
26. MINIMUM DESIGN LINE SPACING IS 0.008 INCH

FAB NOTES REVISION: NOVEMBER 21 2022

LAMINATION DIAGRAM

LAYER NUMBER	LAYER NAME	FINISHED CU WEIGHT (OZ)	DIELECTRIC THICKNESS (INCH)	MATERIALS
1 TOP	2			FINAL CU(THICKNESS AFTER PLATING)
			TBD	ISOLA 370HR/EQUIVALENT
2 LAYER2_GND	1			CU CLAD
			TBD	ISOLA 370HR/EQUIVALENT
3 LAYER3_PWR	1			CU CLAD
			TBD	ISOLA 370HR/EQUIVALENT
4 BOTTOM	2			FINAL CU(THICKNESS AFTER PLATING)

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

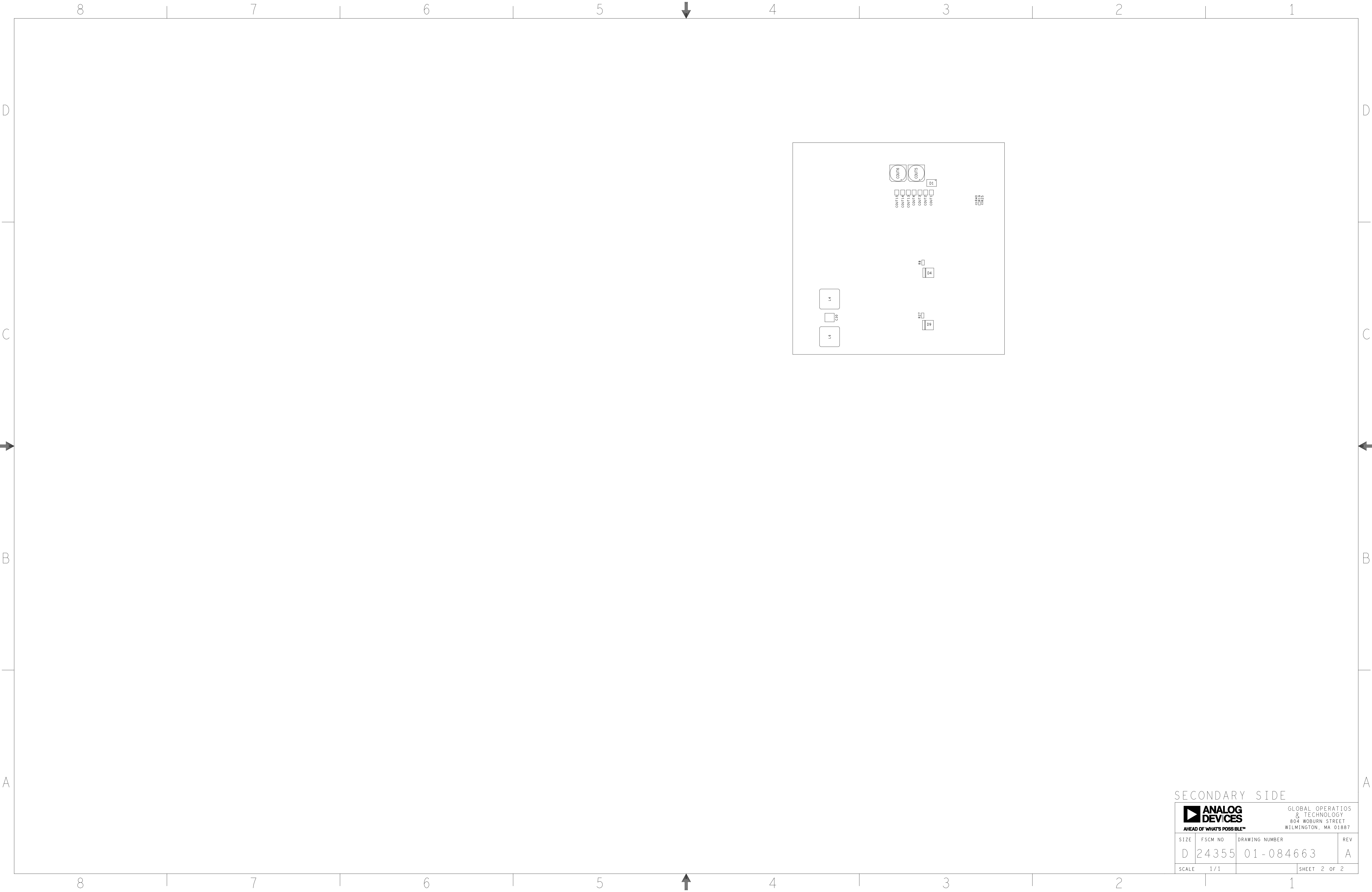
PRIMARY SIDE

ANALOG DEVICES

AHEAD OF WHAT'S POSSIBLE™

GLOBAL OPERATIONS & TECHNOLOGY
804 WOBURN STREET
WILMINGTON, MA 01887

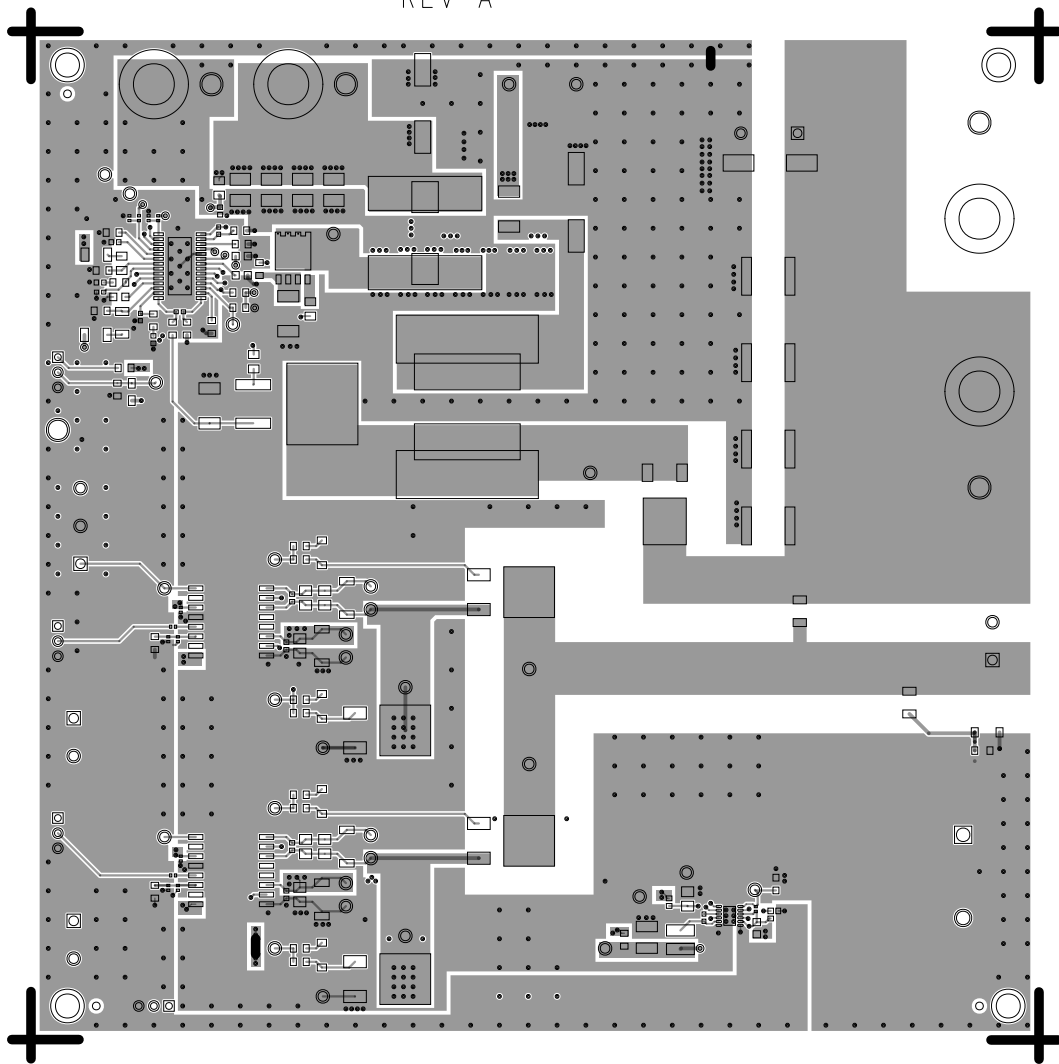
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SCALE	1/1	SHEET 2 OF 2	



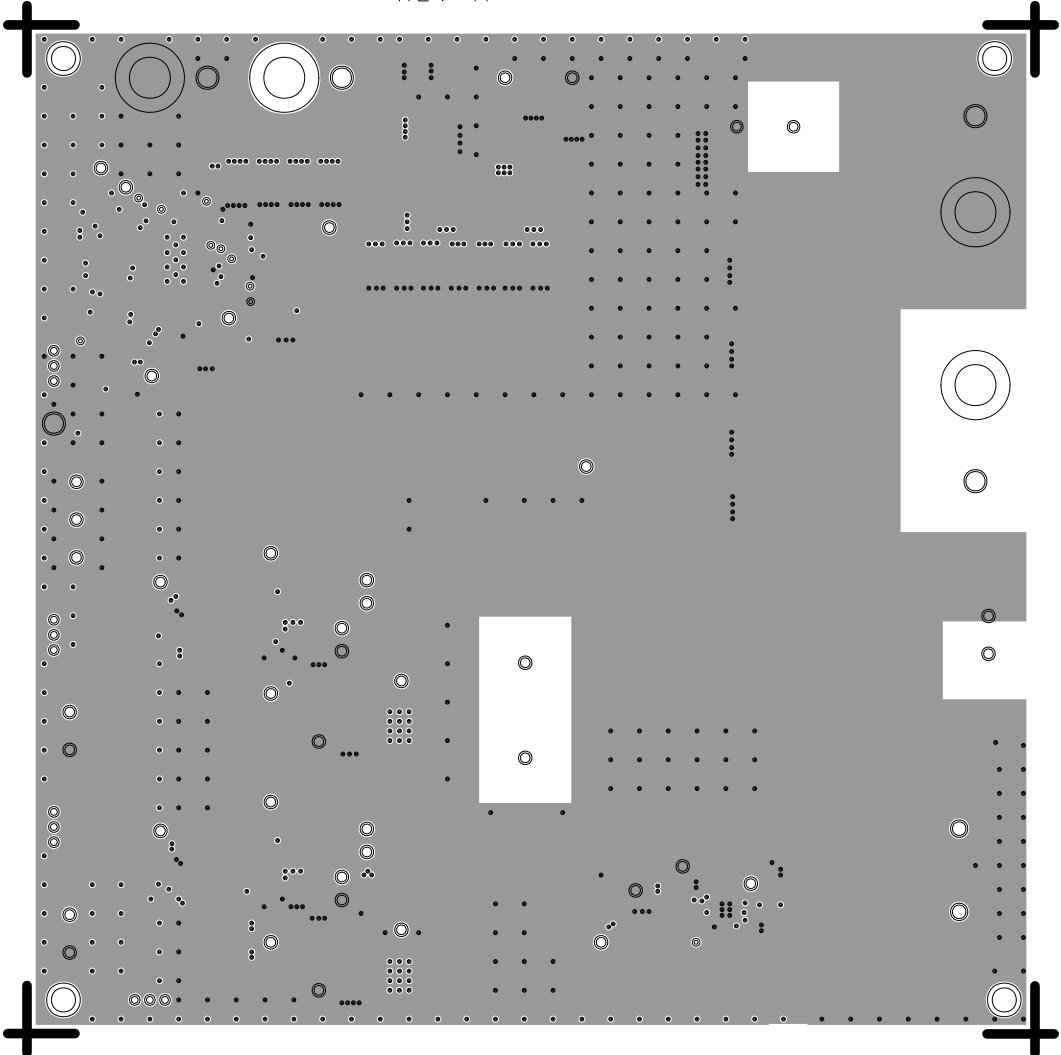
SECONDARY SIDE

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SCALE	1/1	SHEET 2 OF 2	

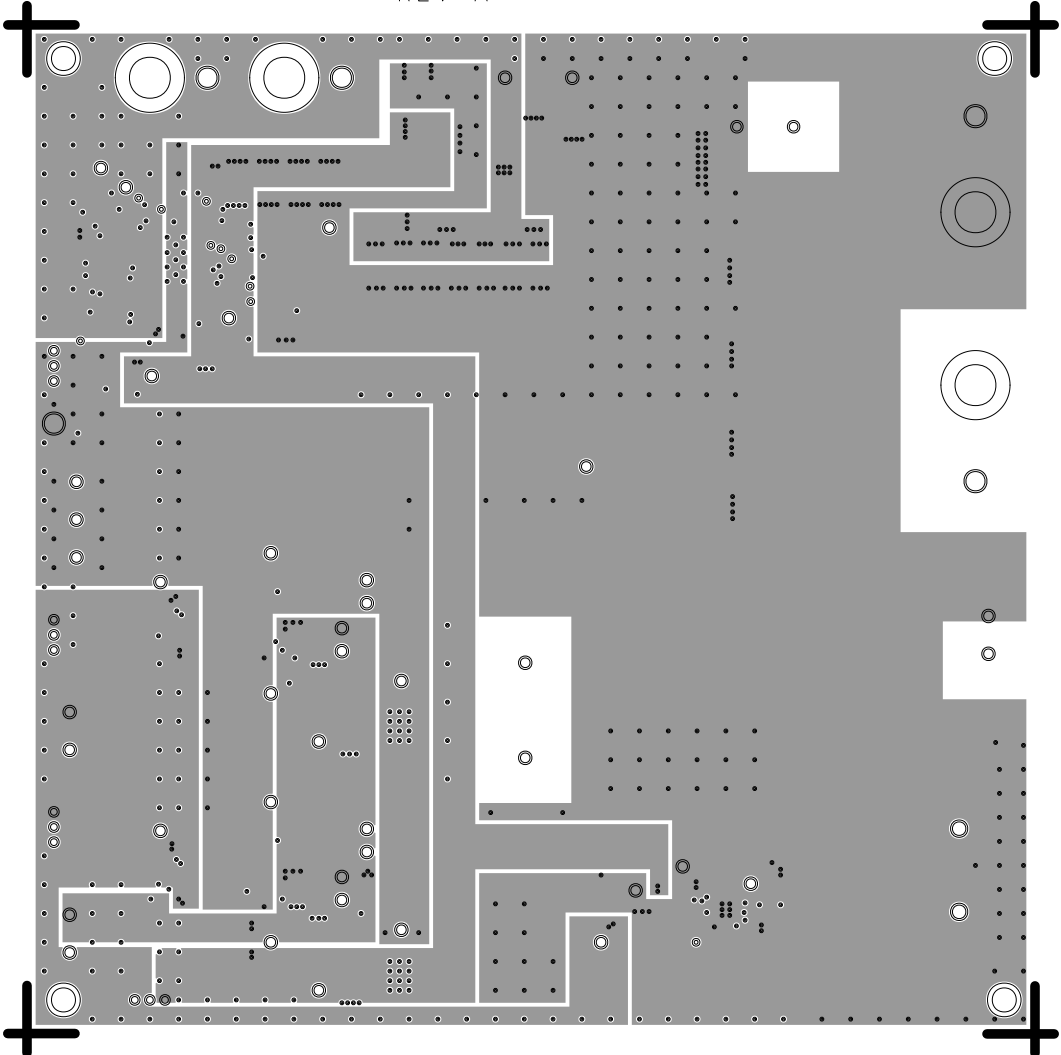
L1 PRIMARY
08-084663-01
REV A



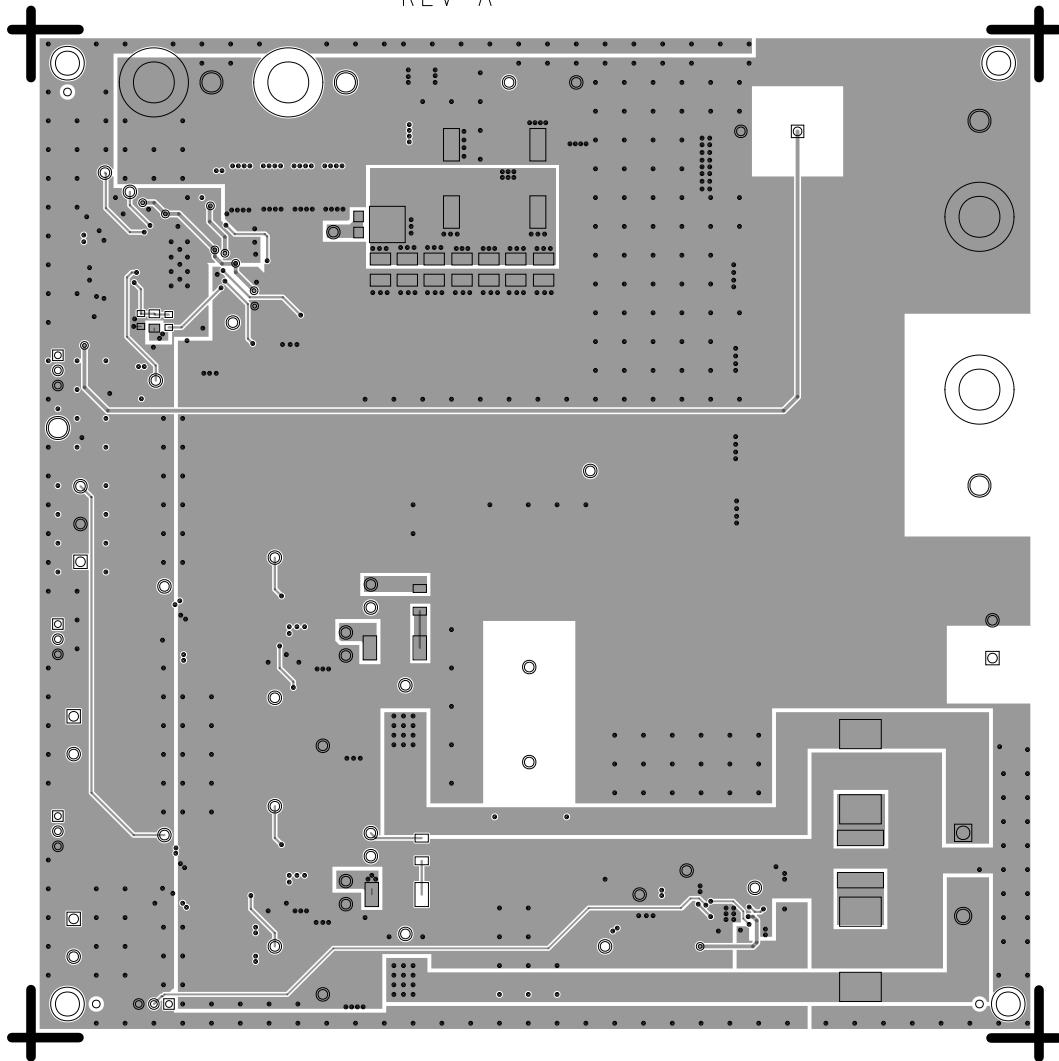
LAYER2 GND
08-084663-07
REV A



LAYER3 PWR
08-084663-08
REV A



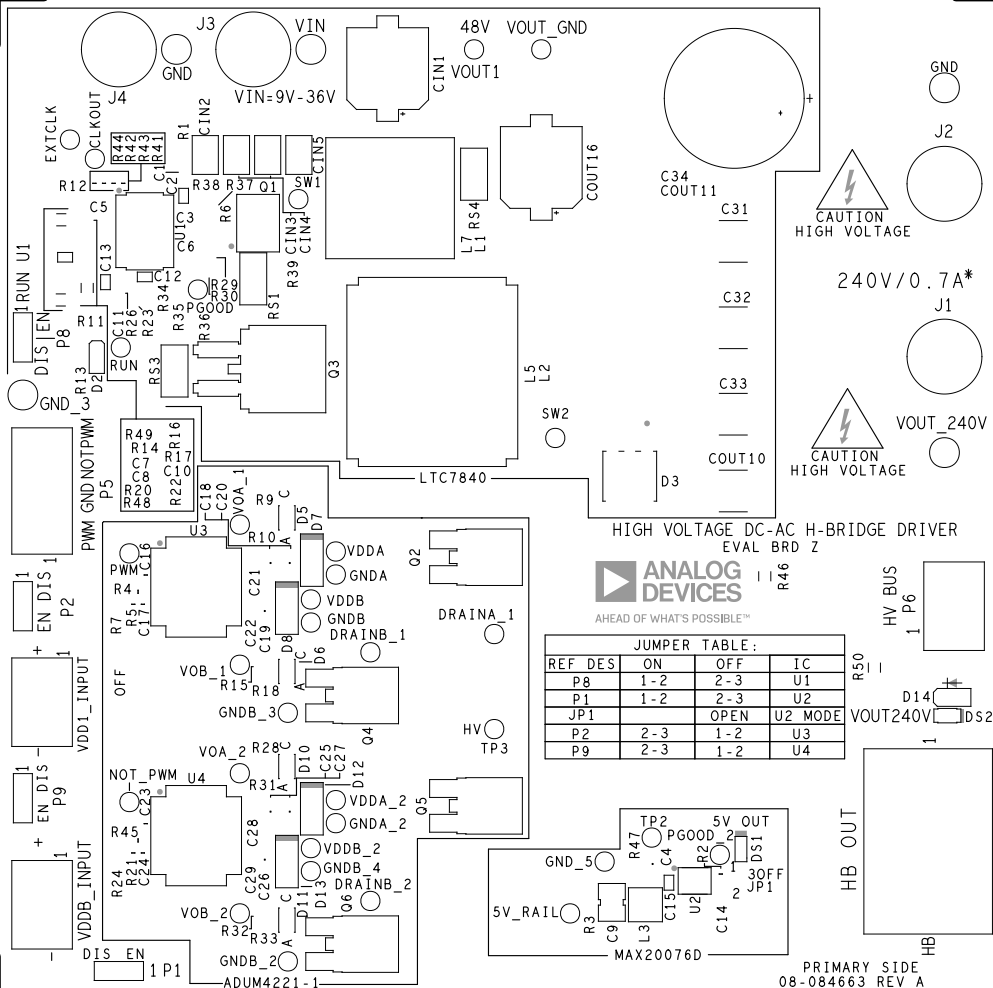
L4 SECONDARY
08-084663-02
REV A



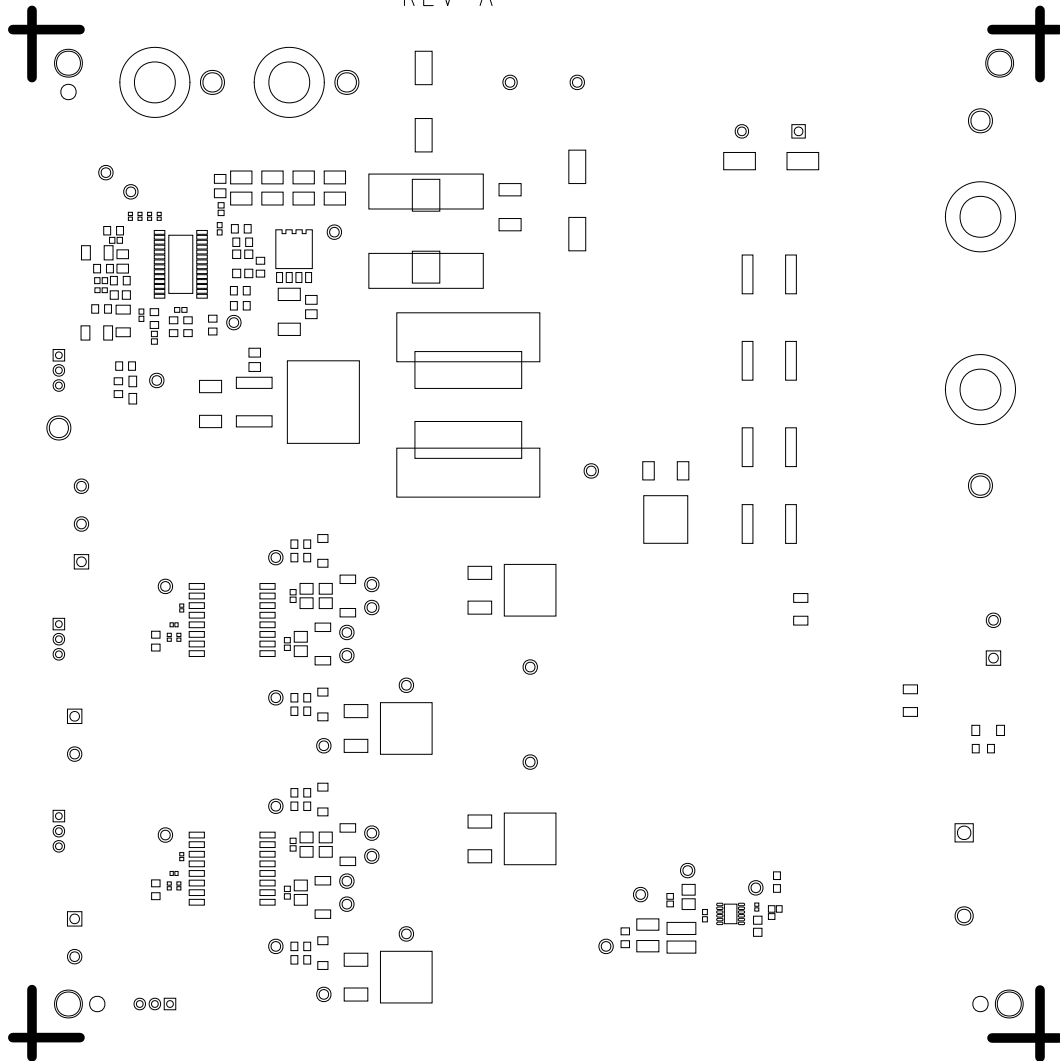
SILKSCREEN PRIMARY

08-084663-03

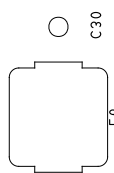
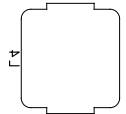
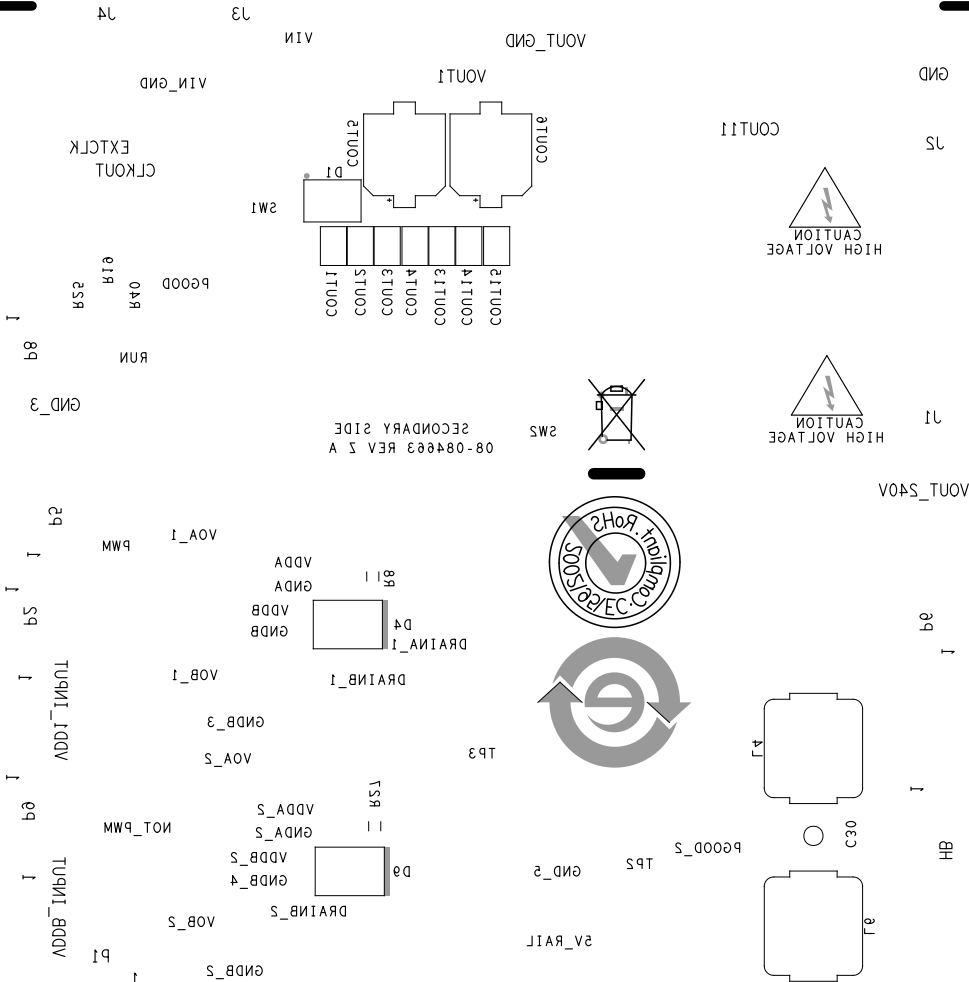
REV A



SOLDERMASK PRIMARY
08-084663-04
REV A



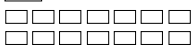
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08-084663-05
REV A



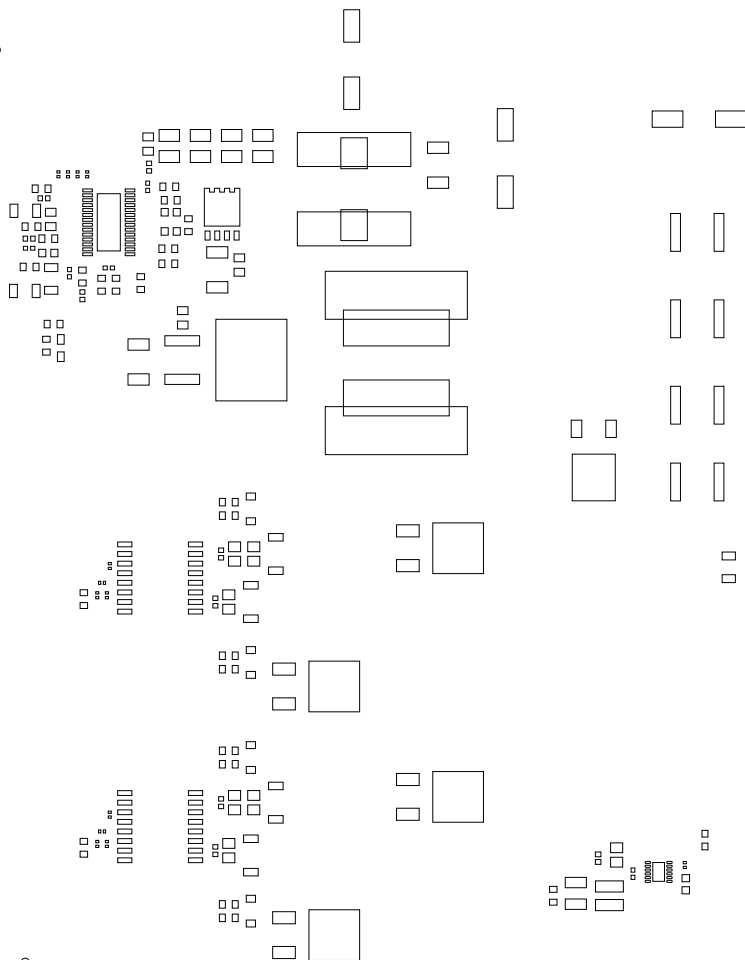
SOLDERMASK SECONDARY

08-084663-06

REV A



PASTEMASK PRIMARY
08-084663-09
REV A



PASTEMASK SECONDARY
08-084663-10
REV A

