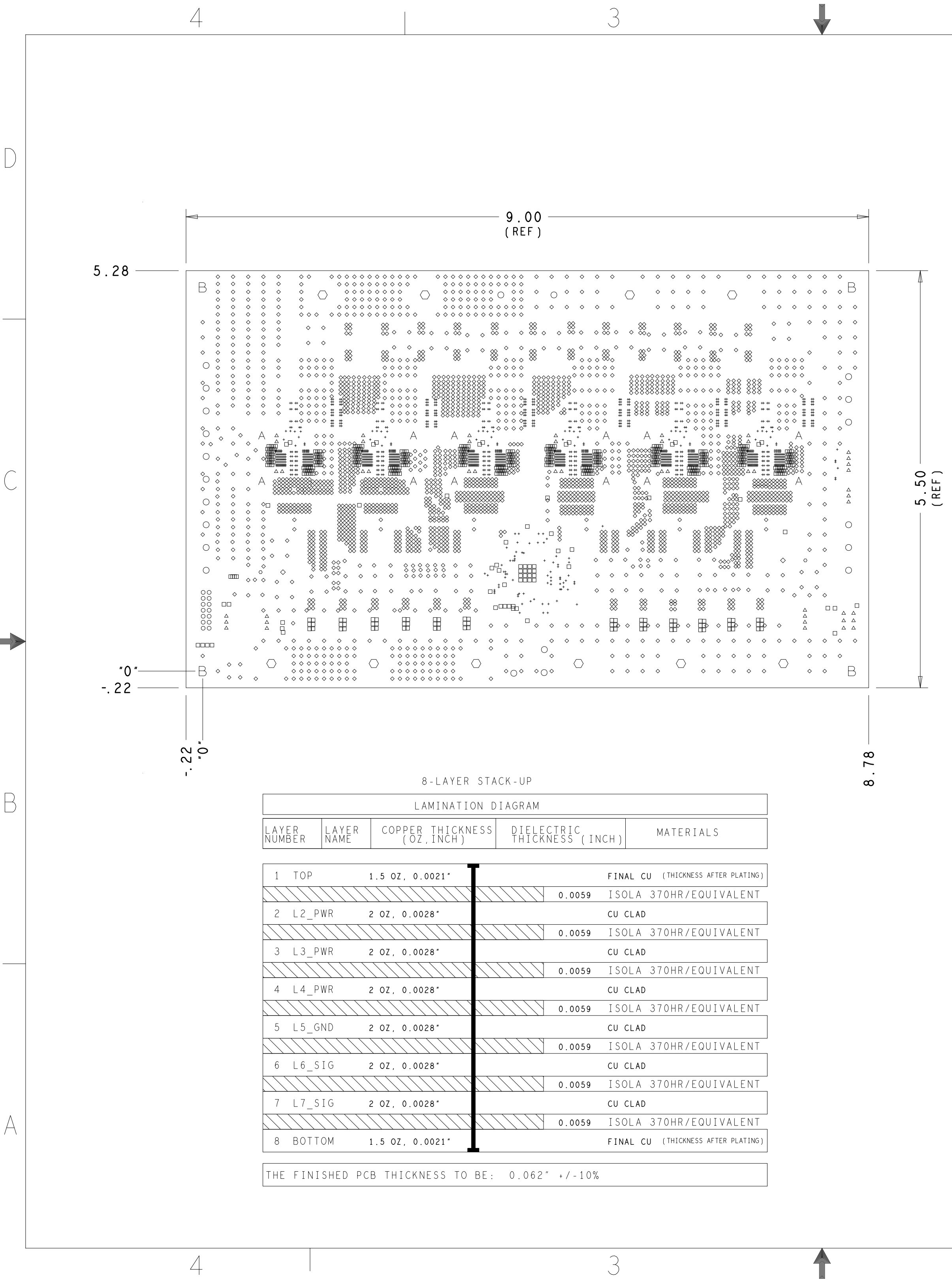




REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	15APR25	P. PHAM
B	REVISION B	18SEP25	P. PHAM
C	PER ECR-131688	04MAY26	P. PHAM

HOLE TOLERANCE
UNLESS SPECIFIED
PLATED: +/- 3 MILS
NON-PLATED: +/- 2 MILS

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES
.	6.0	PLATED	1368	DIA MAX / SEE NOTE 20
□	10.0	PLATED	490	DIA MAX / SEE NOTE 20
◊	12.0	PLATED	2807	DIA MAX / SEE NOTE 20
△	35.0	PLATED	47	
○	36.0	PLATED	14	
◇	45.0	PLATED	2	
◊	45.0	PLATED	2	
○	100.0	PLATED	21	
B	187.0	PLATED	4	
○	191.0	PLATED	10	
A	118.0	NON-PLATED	12	

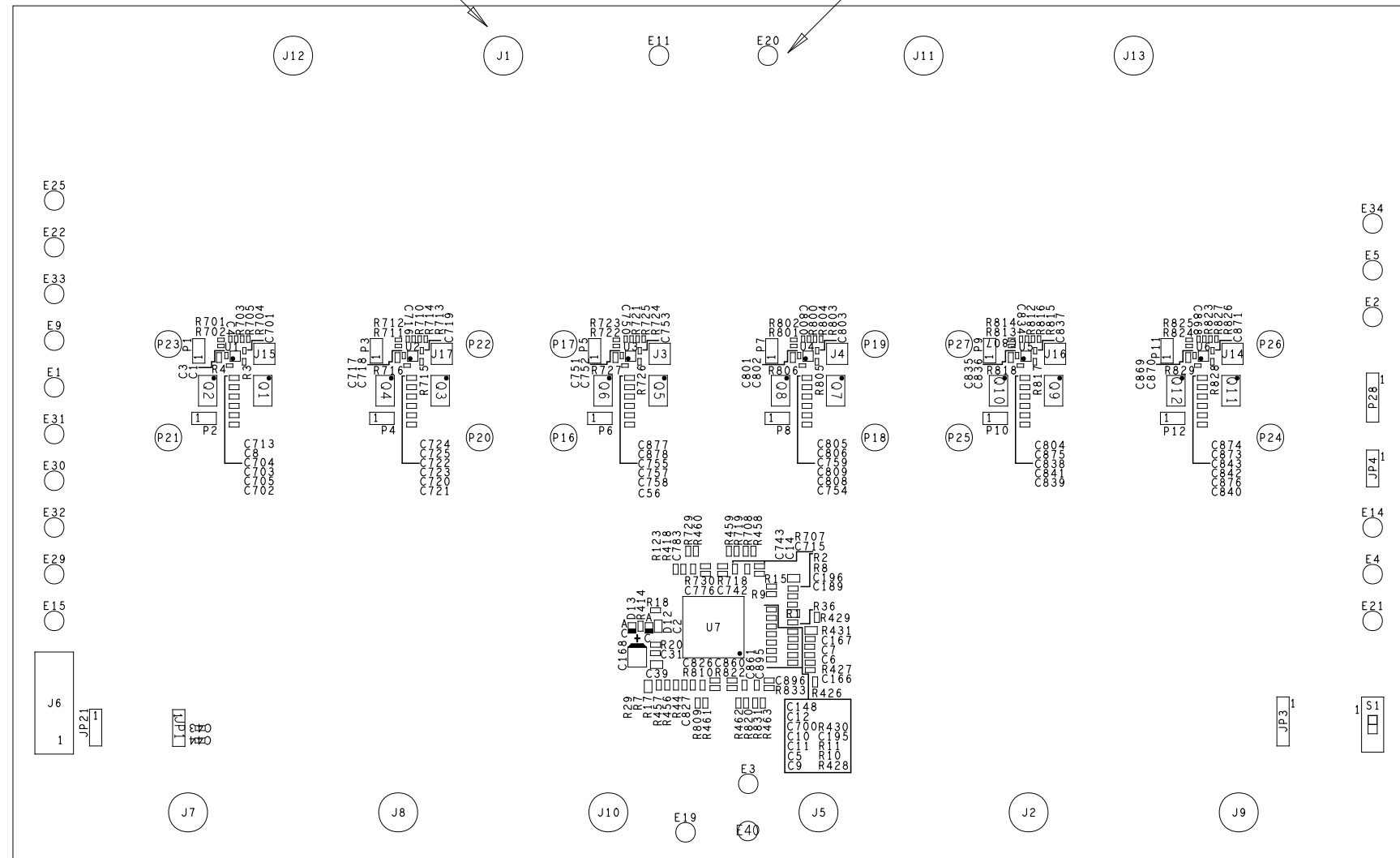
PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES XX -.010 +-1/32 +- 2 XXX -.005 XXXX -.0050			APPROVAL		DATE		 ANALOG DEVICES WWM DIVISION 804 WOBURN STREET WILMINGTON, MA 01887							
			TEMPLATE ENGINEER N/A		N/A									
			HARDWARE SERVICES M. VALE		15APR25									
			HARDWARE SYSTEMS N/A		N/A									
MATERIAL			TEST ENGINEER N/A		N/A		TITLE FABRICATION EVAL-LT8419-BZ CUSTOMER EVALUATION							
			COMPONENT ENGINEER A. EMPENSANDO		15APR25									
			TEST PROCESS N/A		N/A									
			HARDWARE RELEASE E. CONDA		15APR25									
FINISH			DESIGNER CCORREA		04MAY26		SIZE C		FSCM NO 24355		DRAWING NUMBER 09-087189		REV C	
			PTD ENGINEER P. PHAM		04MAY26									
			CHECKER N/A		N/A									
DO NOT SCALE DWG							SCALE 1/1		SHEET 1 OF 2					

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	15APR25	P. PHAM
B	REVISION B	18SEP25	P. PHAM
C	PER ECR-131688	04MAY26	P. PHAM

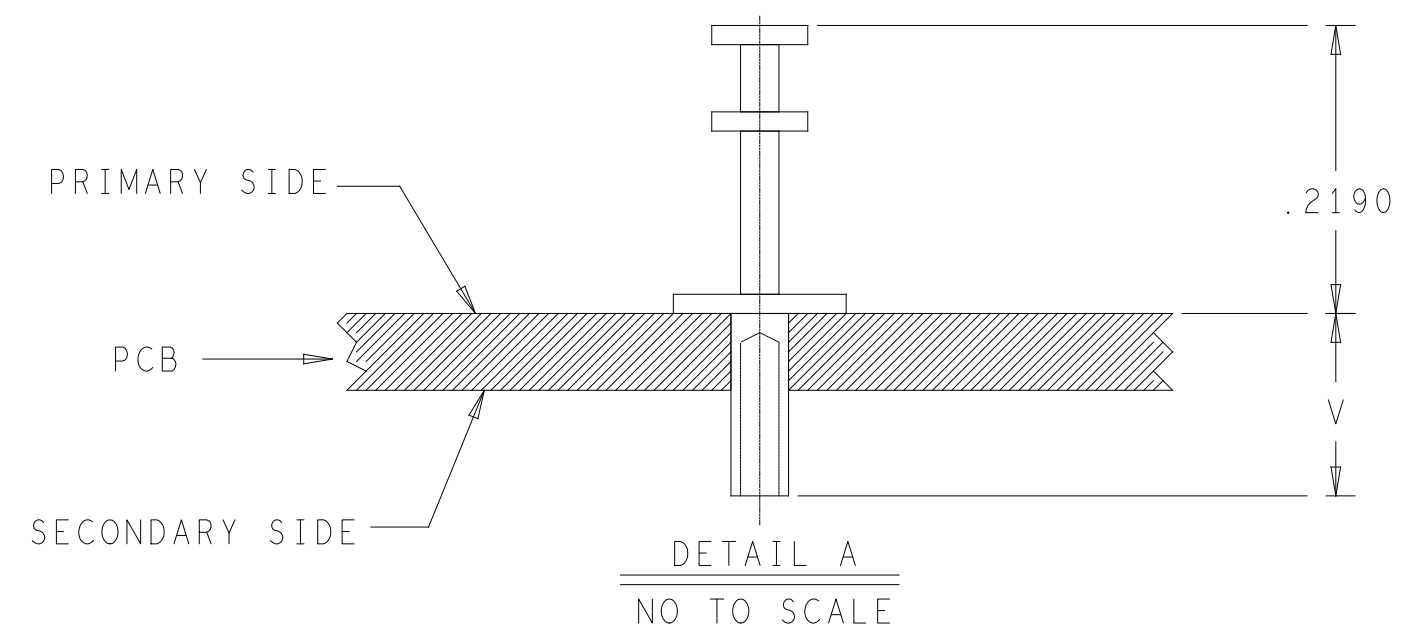
SEE NOTE 6 -
(10 PLACES)

— SEE DETAIL A
(20 PLACES)



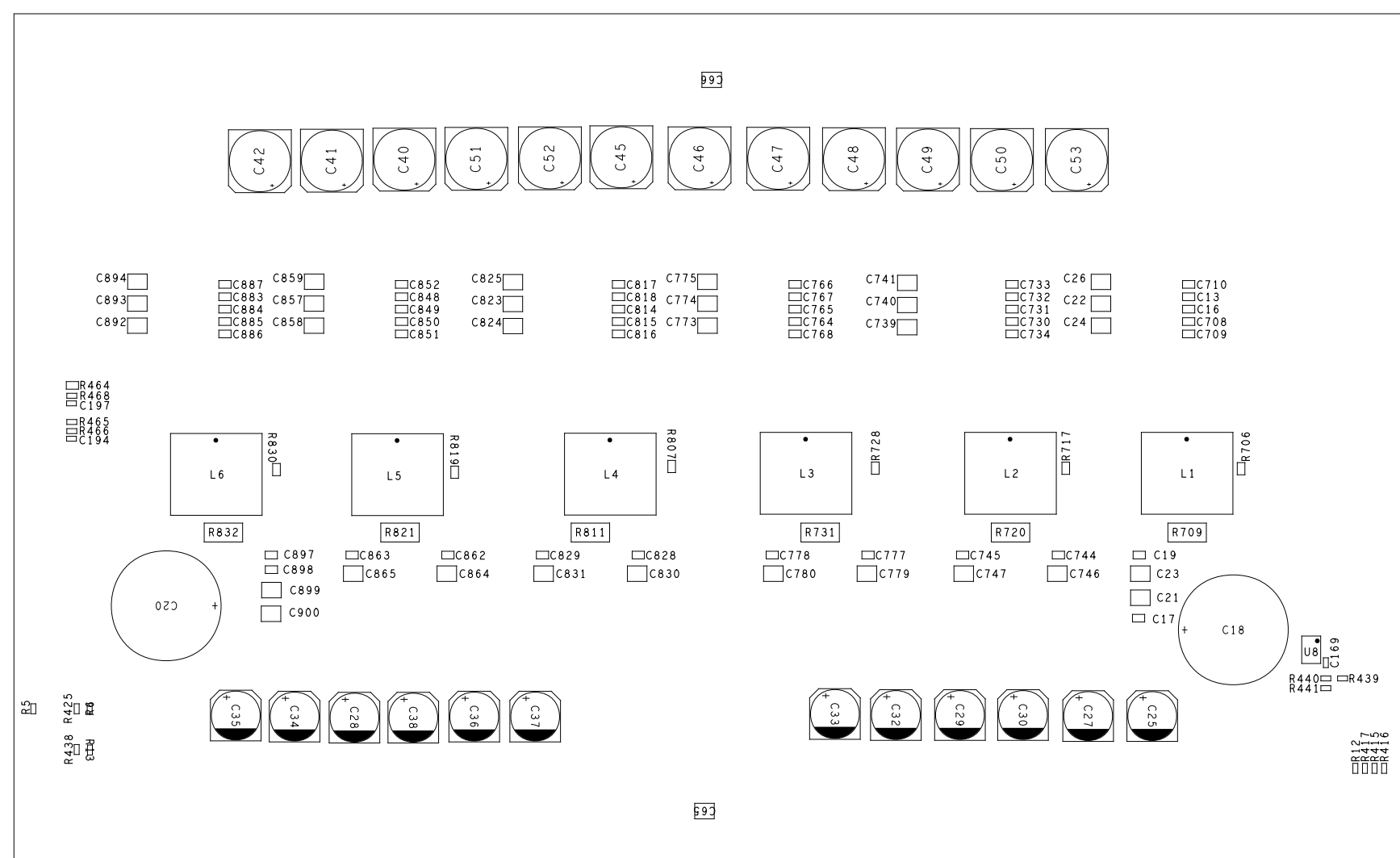
ASSEMBLY NOTES:

1. BOARD ACCEPTABILITY PER ANALOG DEVICES, INC. SPECIFICATION TST00119 (LATEST REVISION).
2. REPAIRS PER IPC-7711/21 (LATEST REVISION) ARE ALLOWED.
3. REPAIRS ARE NOT ALLOWED IN SOLDERMASK FREE AREAS ON EITHER SIDE OF THE BOARD.
4. RoHS COMPLIANCE: ASSEMBLY VENDOR SHOULD ASSURE COMPLIANCE WITH LEAD-FREE AND RoHS PCB ASSEMBLY STANDARDS (EU RoHS DIRECTIVE 2002/95/EC).
5. INSTALL SHUNT: M023139 (MFG PN: M22-1900005) ON:
JP3: PIN 3 AND PIN 4 JP1: PIN 1 AND PIN 2
JP4: PIN 1 AND PIN 2 S1: PIN 1 + PIN 4 AND PIN 2 + PIN 5
6. INSTALL RING LUG: M048369 (MFG PN: 8205), WASHER: M000140 (MFG PN: 98438A230), AND NUT: M069690 (MFG PN: 92671A195).
1X RING LUG, 1X WASHER, 2X NUT PER PLACE.

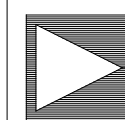


PRIMARY SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			APPROVAL		DATE		ANALOG DEVICES WWM DIVISION 804 WOBRUN STREET WILMINGTON, MA 01887										
			TEMPLATE ENGINEER N/A		N/A												
TOLERANCES			HARDWARE SERVICES M. VALE		15APR25		TITLE ASSEMBLY EVAL - LT8419-BZ CUSTOMER EVALUATION										
DECIMALS	FRACTIONS	ANGLES	HARDWARE SYSTEMS N/A		N/A												
.XX --.010	--1/32	-- 2	TEST ENGINEER N/A		N/A												
.XXX --.005			COMPONENT ENGINEER A. EMPENSANDO		15APR25												
.XXXX --.0050			TEST PROCESS N/A		N/A												
MATERIAL			HARDWARE RELEASE E. CONDA		15APR25		SIZE										
FINISH			DESIGNER CCORREA		04MAY26					FSCM NO		DRAWING NUMBER		REV			
			PTD ENGINEER P. PHAM		04MAY26					C		24355		01-087189		C	
			CHECKER N/A		N/A												
DO NOT SCALE DWG						SCALE			1/1			SHEET 1 OF 2					

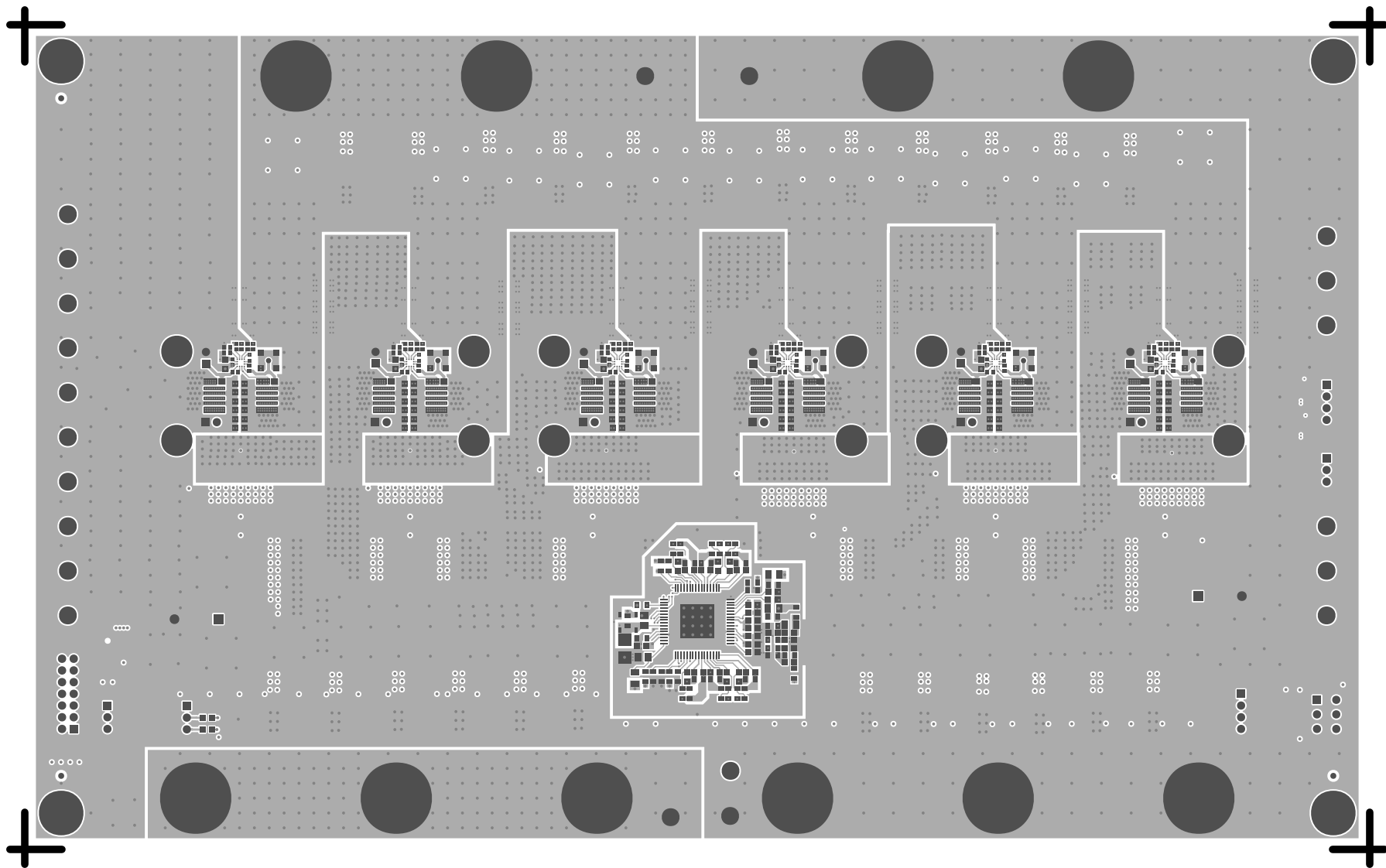


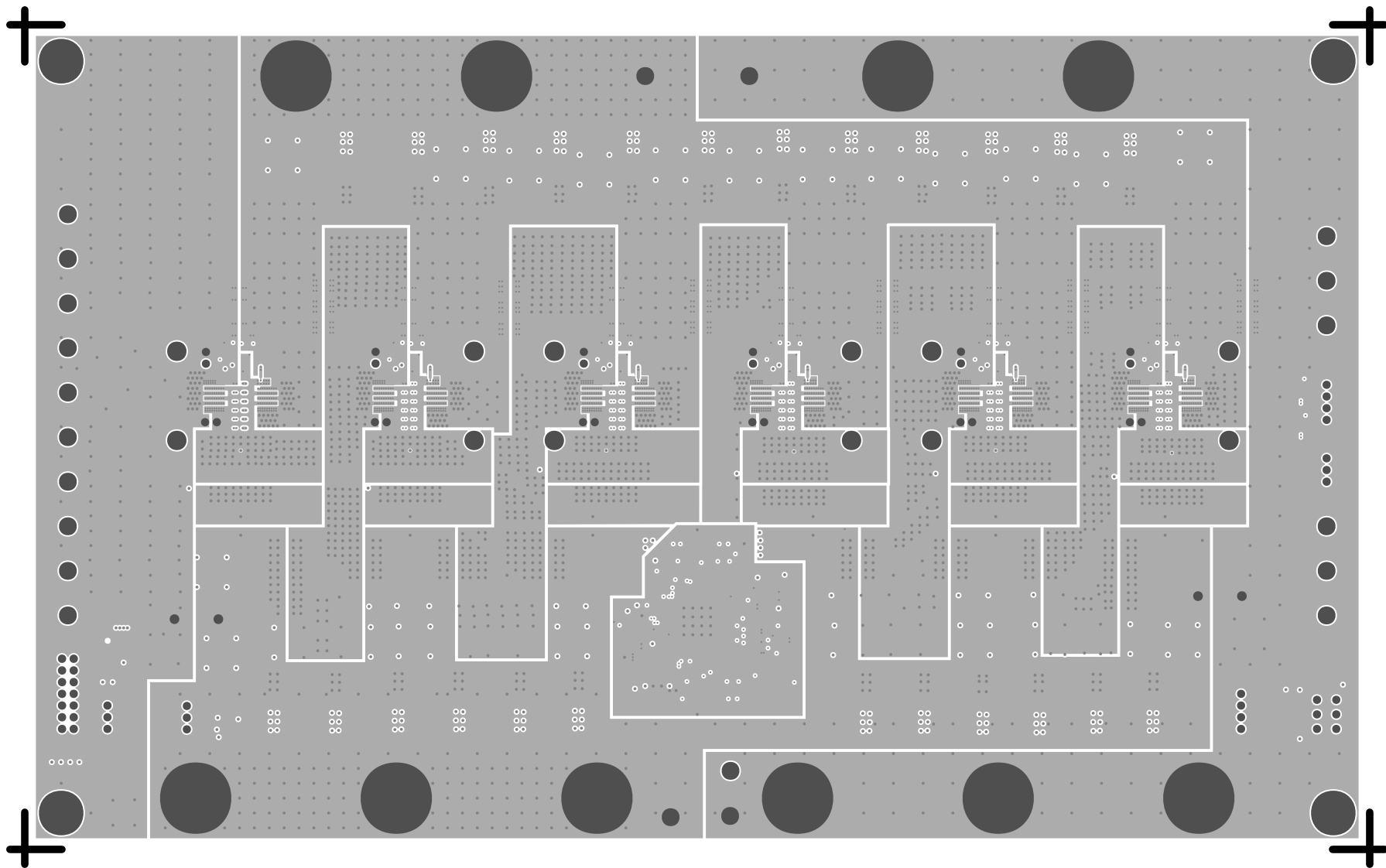
SECONDARY SIDE

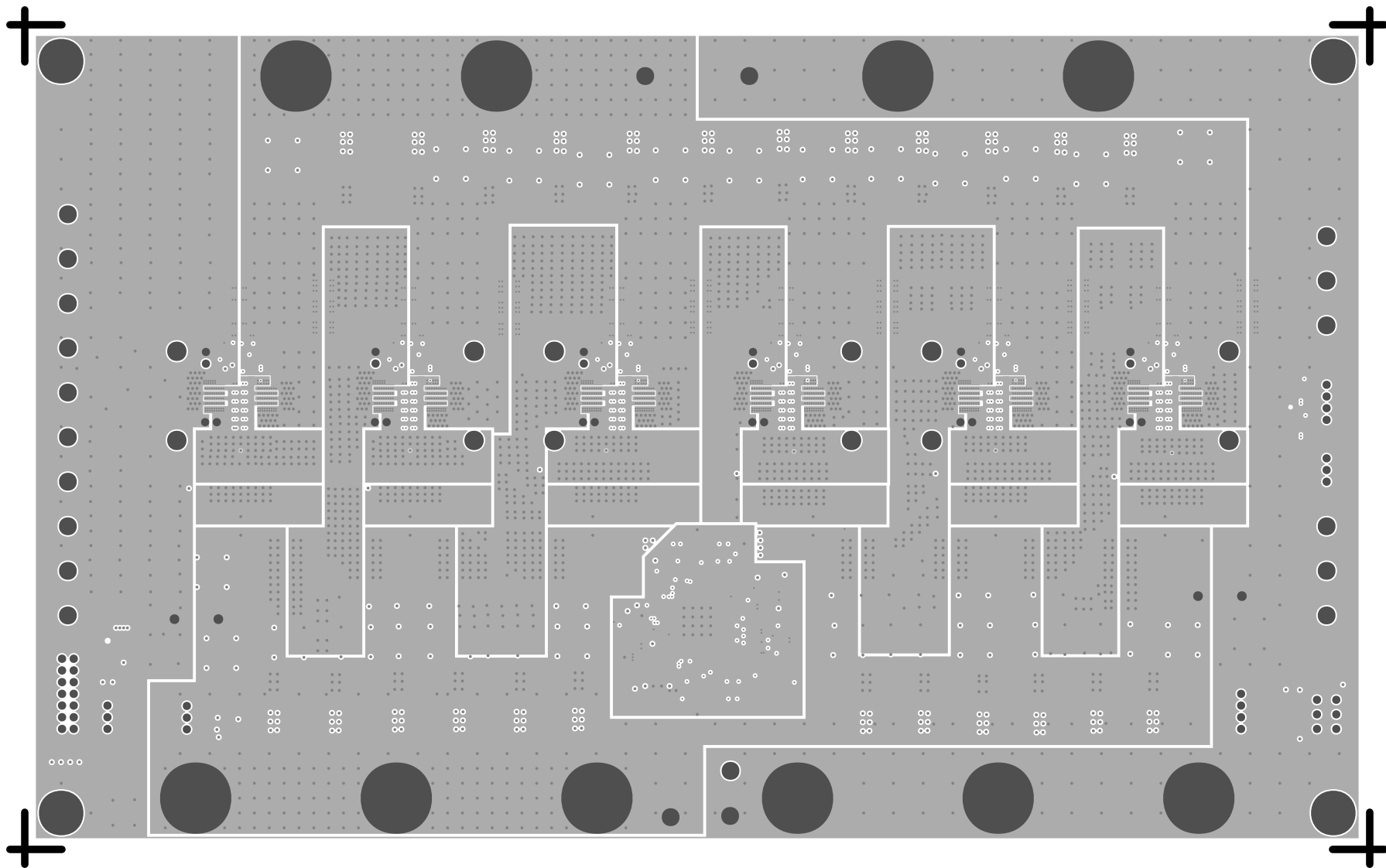
ANALOG
DEVICES

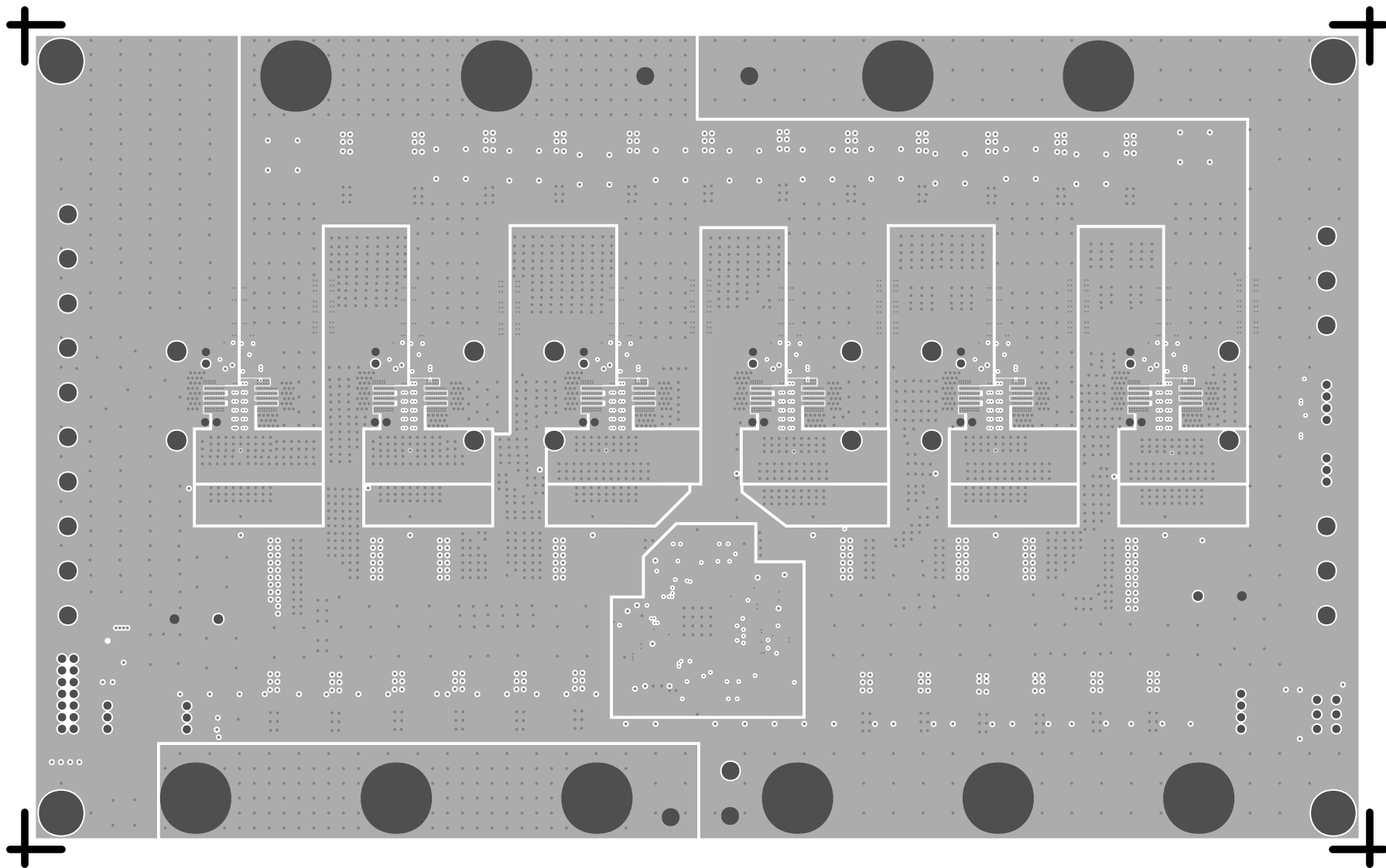
WWM
DIVISION
804 WOBURN STREET
WILMINGTON, MA 01887

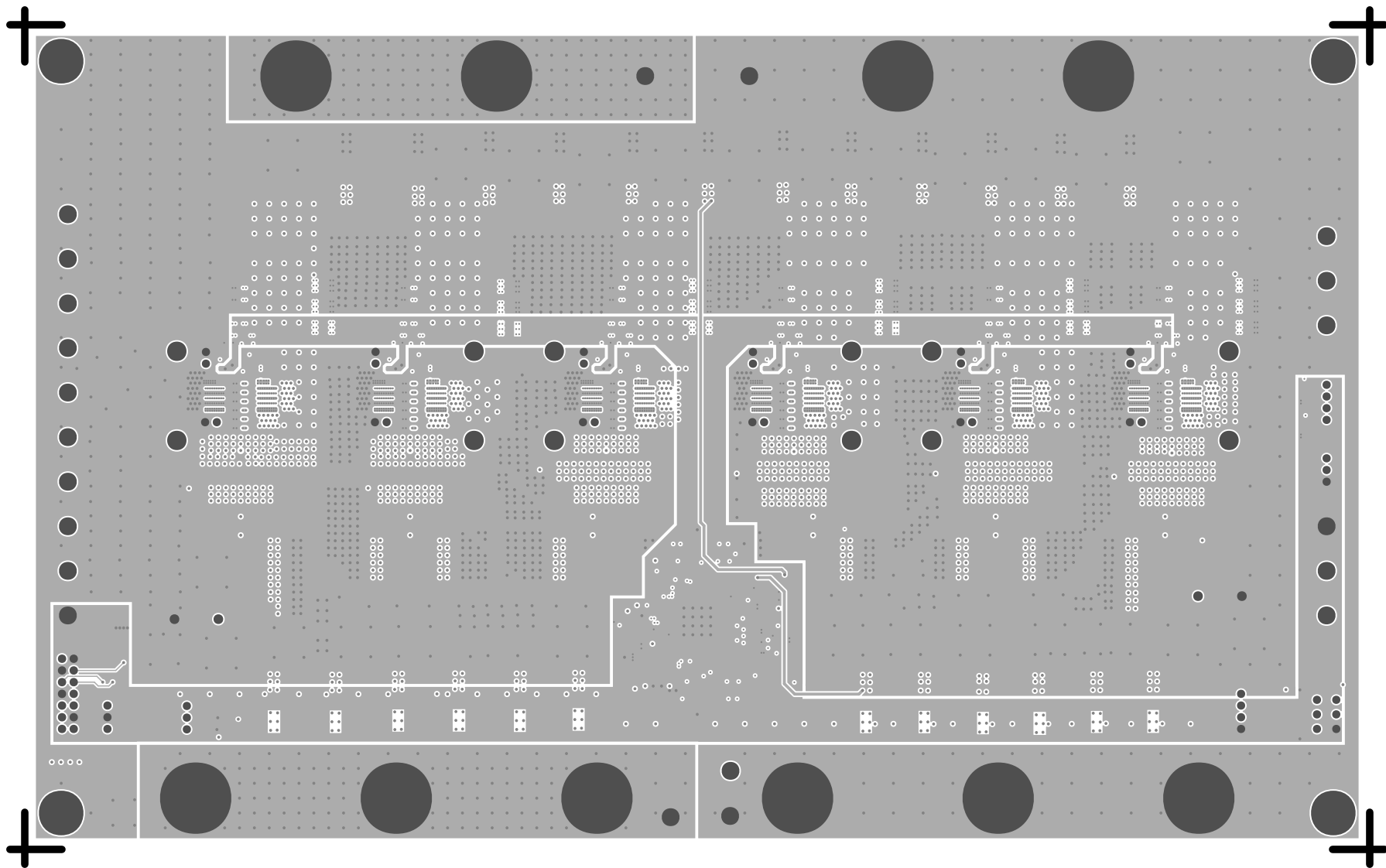
SIZE	FSCM NO	DRAWING NUMBER	REV
C	24355	01-087189	C
SCALE	1/1		SHEET 2 OF 2

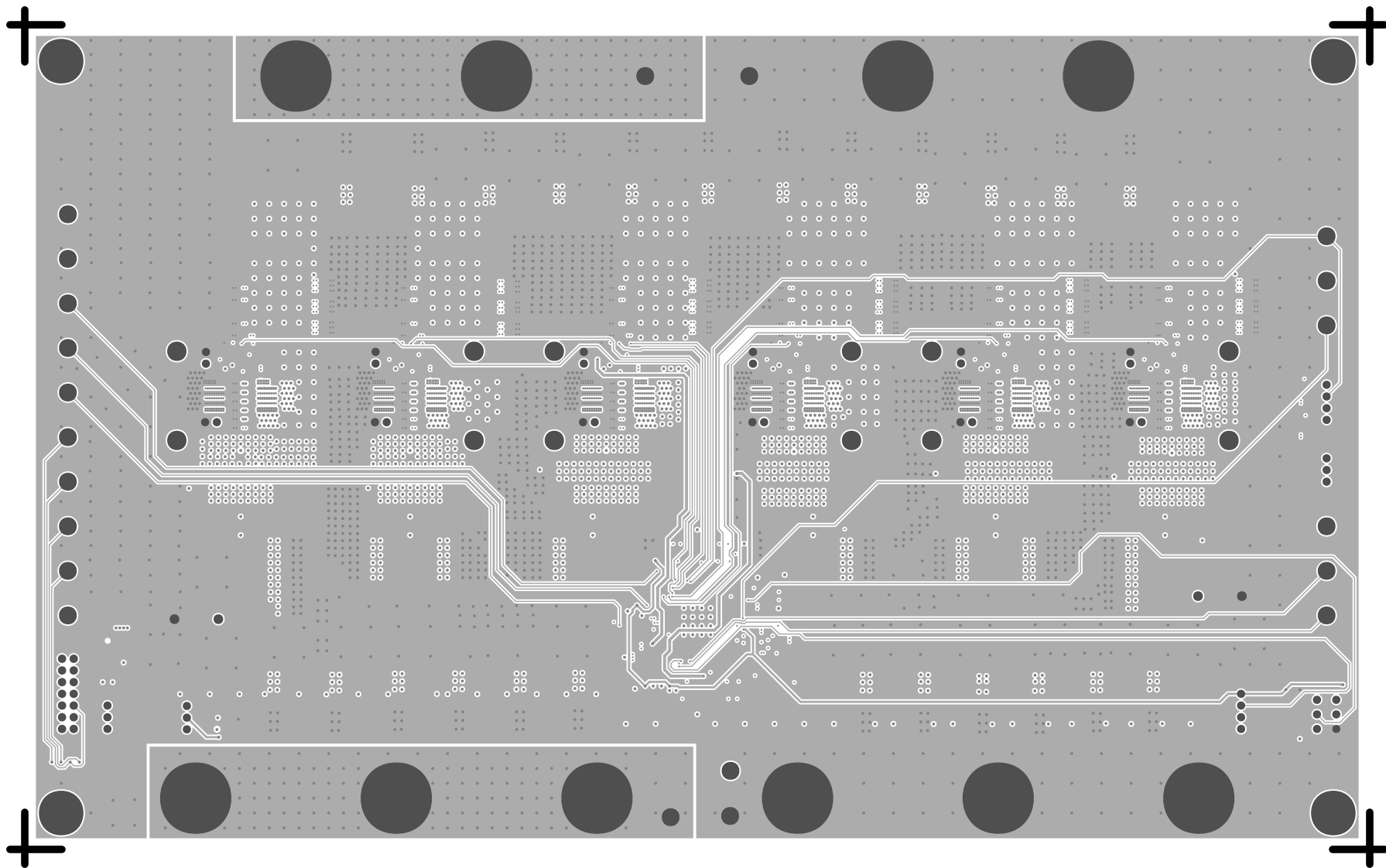


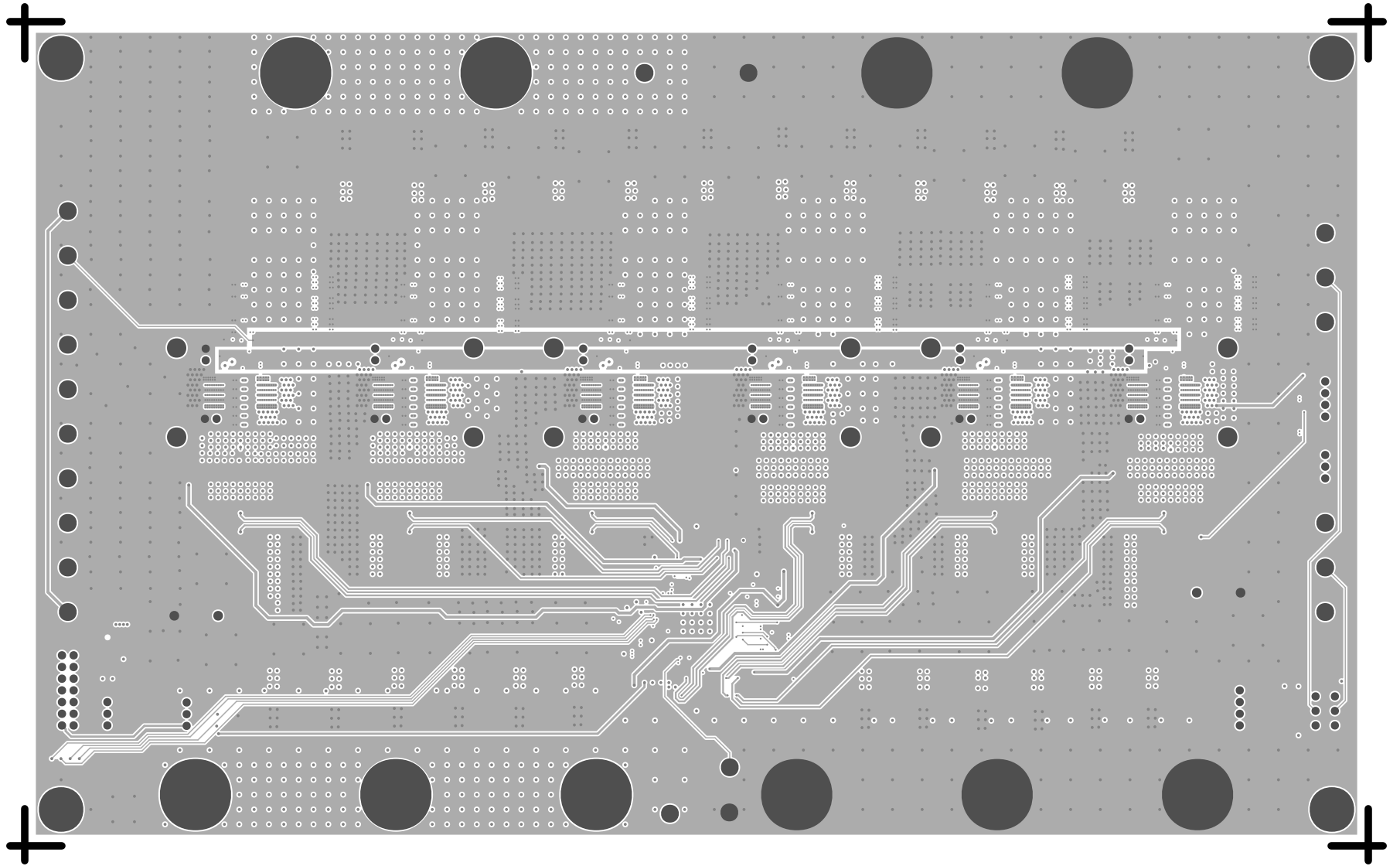


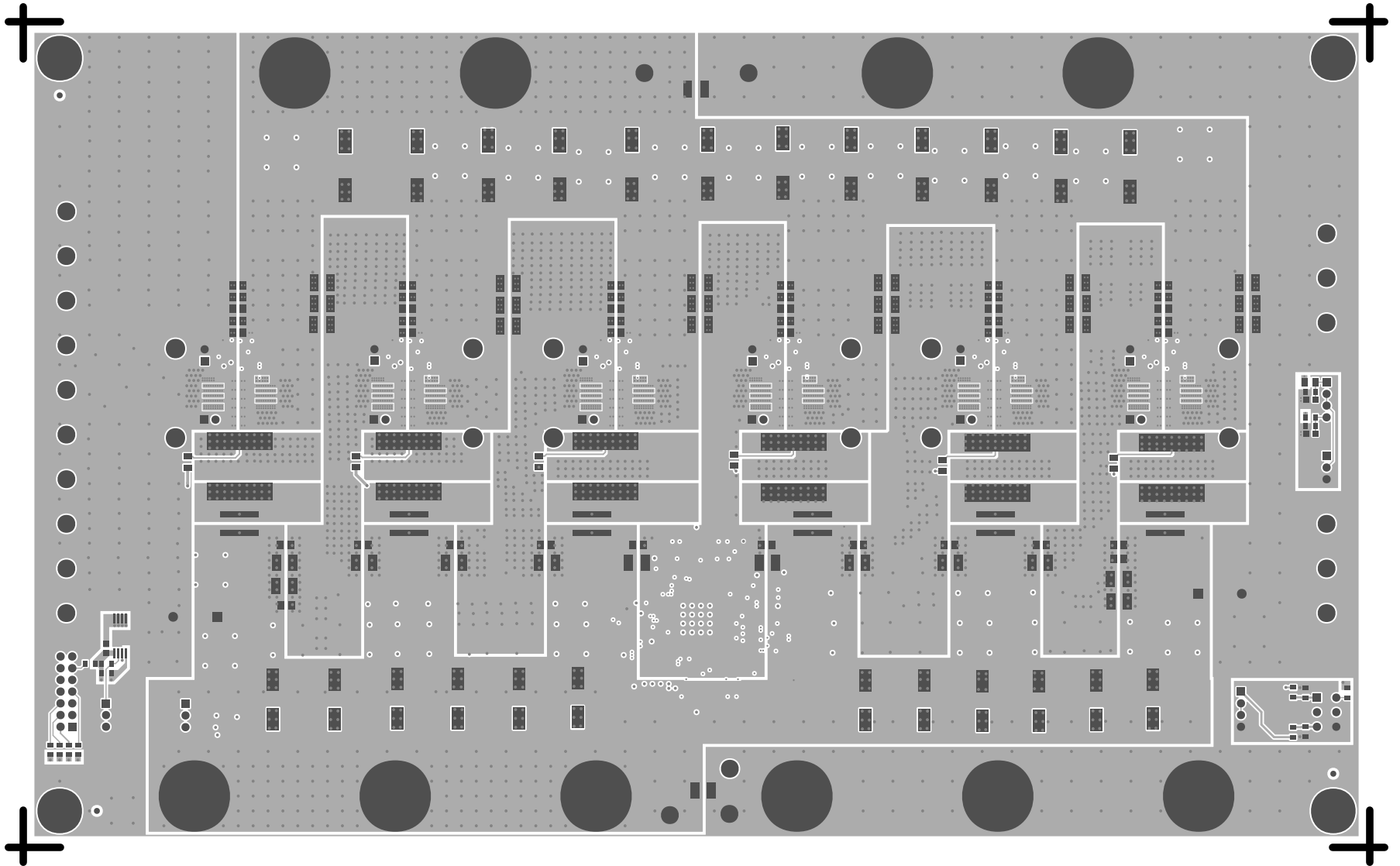


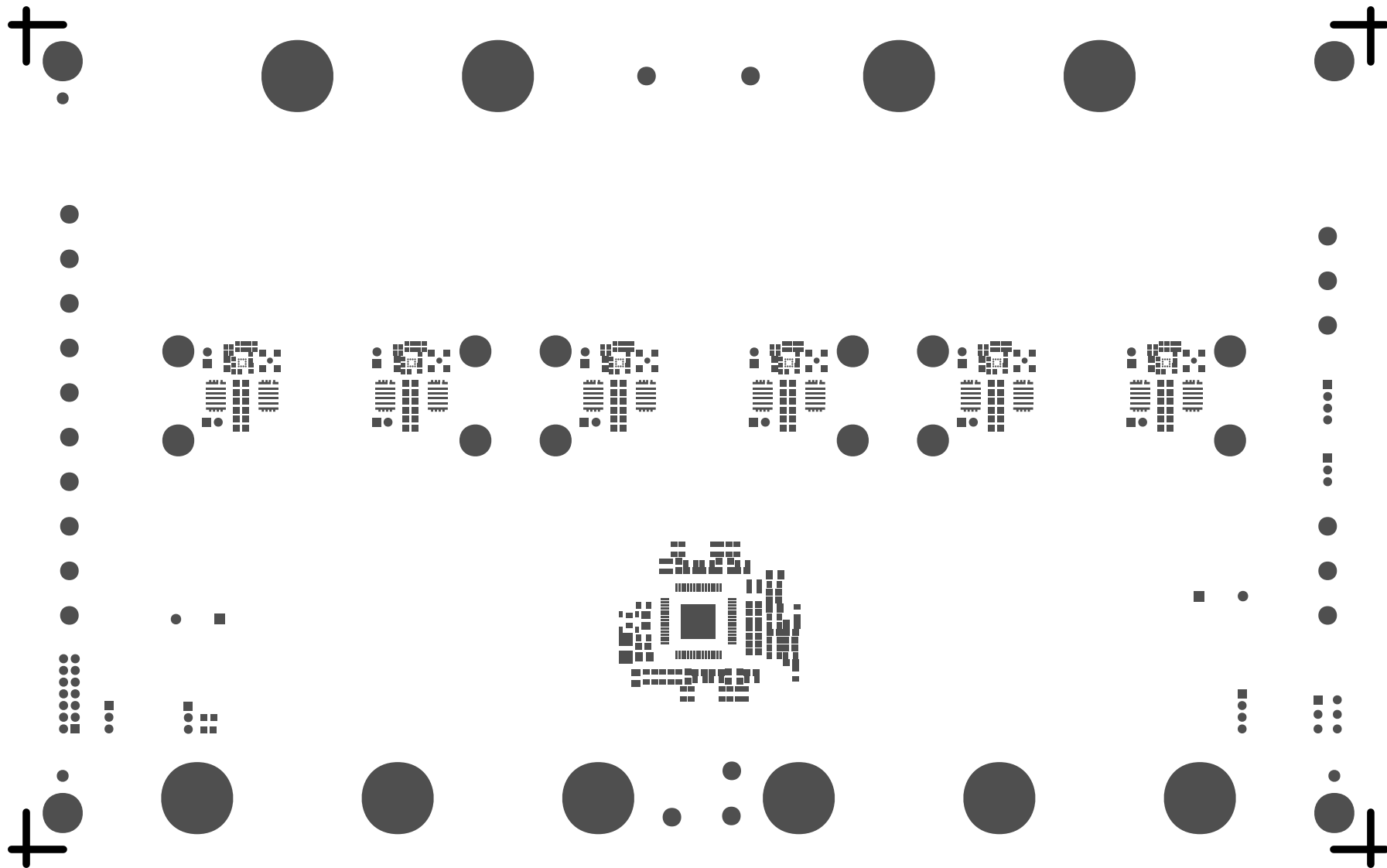


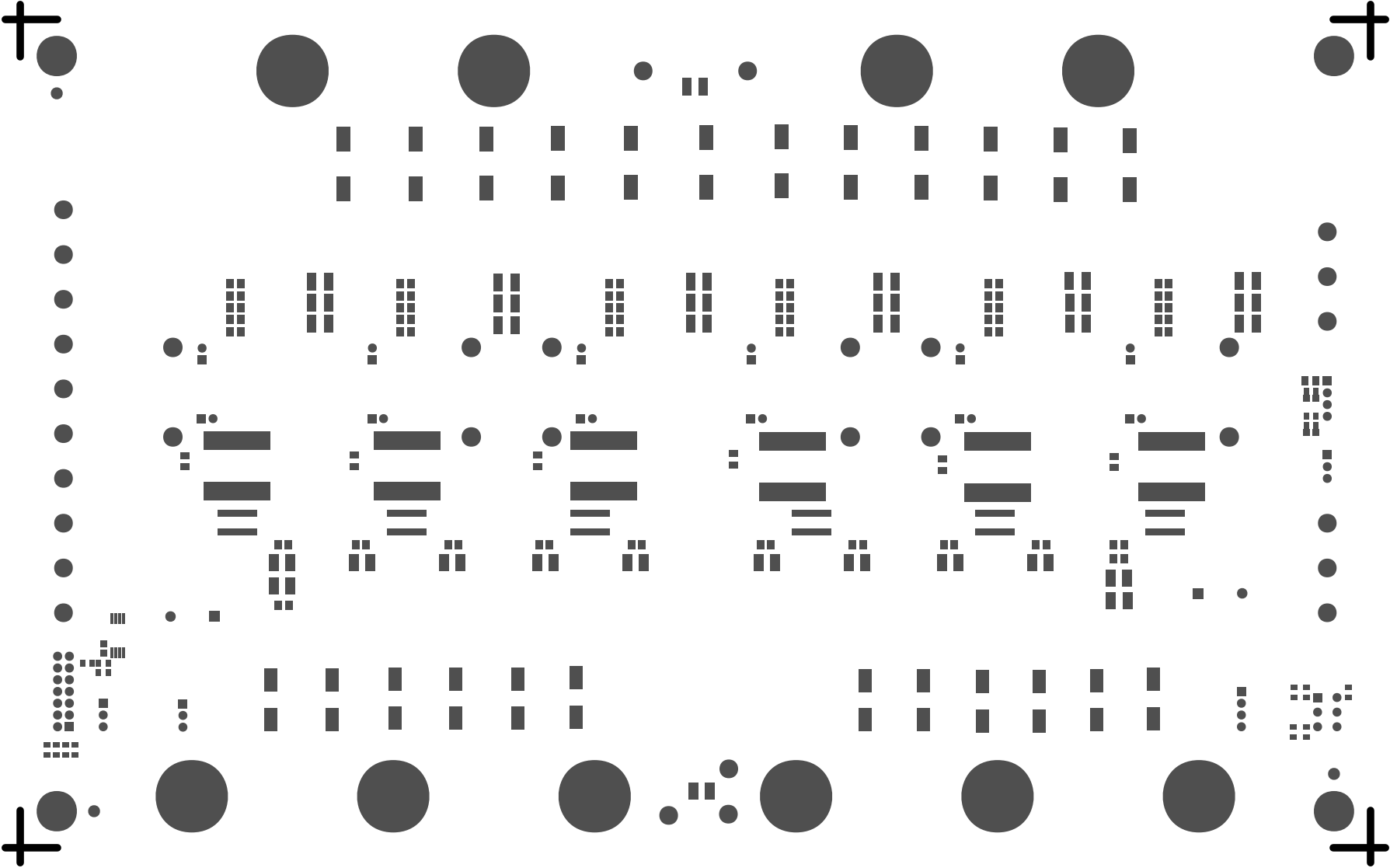


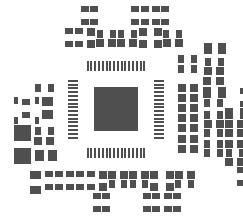
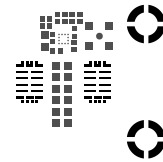
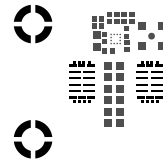
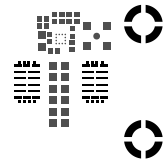
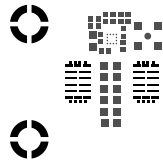
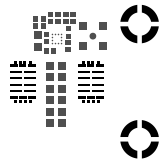
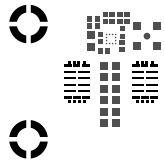


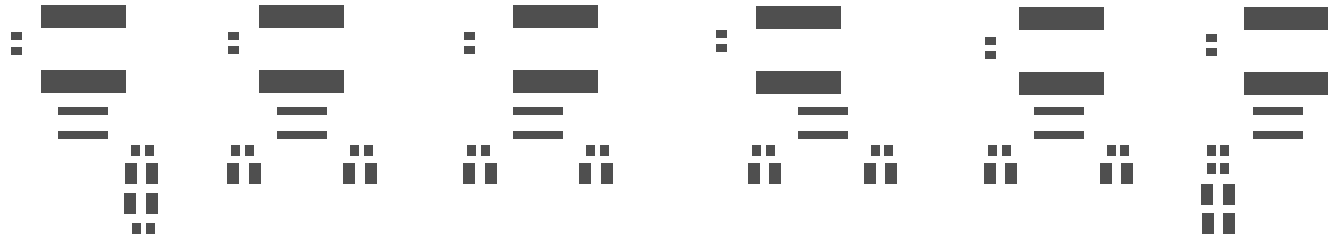






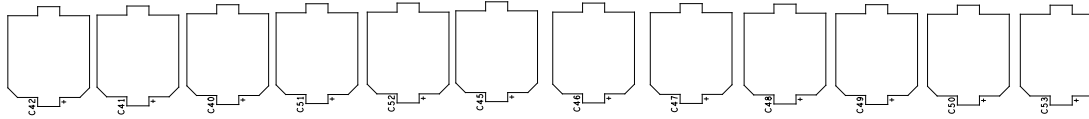




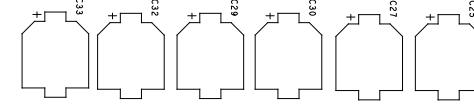
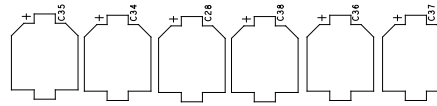
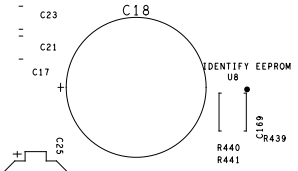
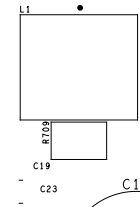
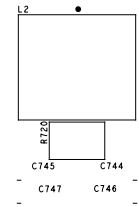
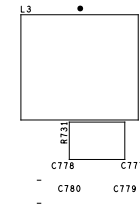
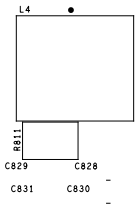
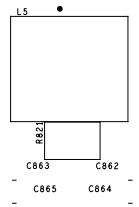
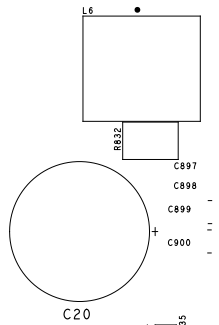




SECONDARY SIDE
08-087189 REV C



R464
R468
C197
R465
R466
C194

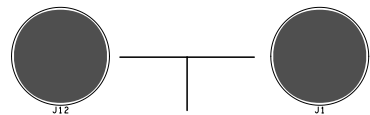


JP1 1



E40
C65

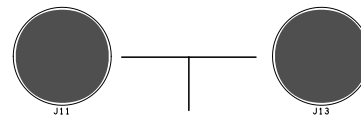
R12
R417
R415
R416



VHIGH
BUCK: 30V TO 70V
BOOST: 48V

VHIGH
E11

GND
E20

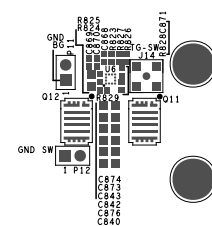
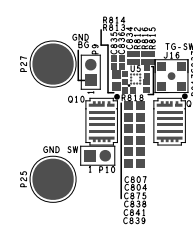
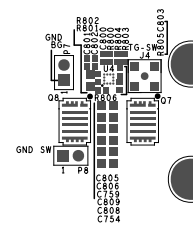
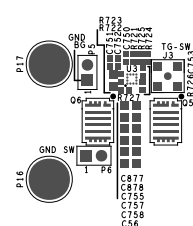
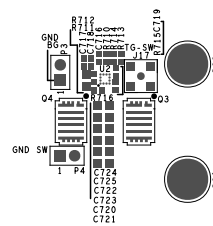
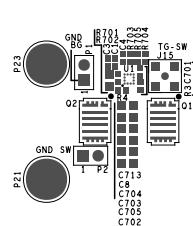


GND

EVAL-LT8419-BZ

HIGH POWER POLY-PHASE BI-DIRECTIONAL SUPPLY/CHARGER LTC7871 WITH GAN FET DRIVERS LT8419

SGND
E25
PWMEN
E22
PGOOD
E33
FAULT
E9
EXTVCC
E1
CSB
E31
SDO
E30
SDA
E32
SCL
E29
SGND
E15



RUN
E34
SETCUR
E5
IMON
E2
RUN PIN
UVLO CIRCUIT
VHIGH
NONE
VLOW
RUN
J14
ON
OFF

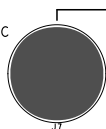
SGND
E14
BUCK/BOOST
E4
SYNC
E21

J6
14
13
2
1
JP21
1
1

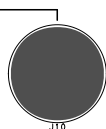
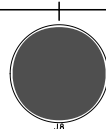
EXTERNAL BIAS
FOR LTC7871
FROM LINDUINO

NO
YES
C43
C44

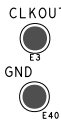
TO DC590B OR
LINDUINO DC2026C



VLOW
BUCK: 12V
BOOST: 10V TO 14V

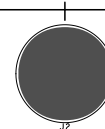


VLOW
E19

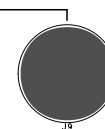


CLKOUT
E3
GND
E40

GND

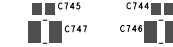
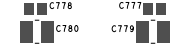
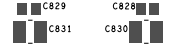
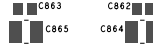
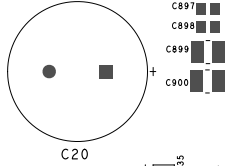
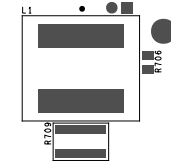
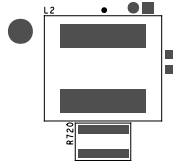
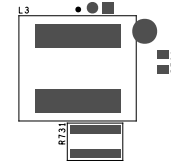
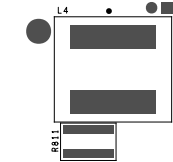
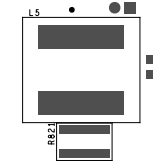
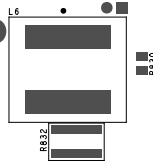
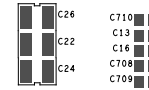
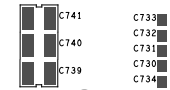
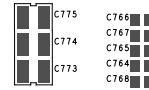
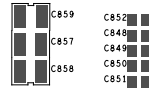
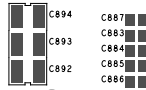
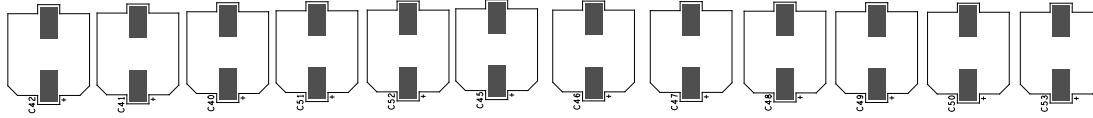


LIGHT LOAD MODE
P. S.
BURST (BUCK)
P.S. (BOOST)
FCM
MODE
J13
1
4
BUCK
BOOST

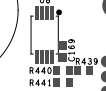


08-087189 REV C
PRIMARY SIDE

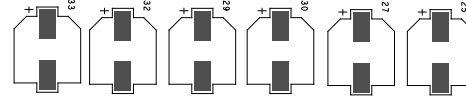
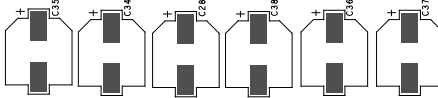
SECONDARY SIDE
08-087189 REV C



IDENTIFY EEPROM



JP1 1



E40 C65